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*Frog not included

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NEMA Enclosure Ratings

NEMA Definitions

A brief description of the more common types of enclosures used by the electrical industry relating to their environmental capabilities follows. Please refer to the appropriate sections of the latest revision of NEMA Standards Publication No. 250 for complete information regarding applications, features and design tests.

Definitions Pertaining to Non-hazardous Locations

Type 1 Enclosures
Intended for use primarily to provide a degree of protection against limited amounts of falling dirt.

Type 3 Enclosures
Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and damage from external ice formation.

Type 3R Enclosures
Intended for outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation.

Type 3S Enclosures
Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and to provide for operation of external mechanisms when ice laden.

Type 4 Enclosures
Intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.

Type 4X Enclosures
Intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from ice formation.

Type 6 Enclosures
Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during occasional temporary submersion at a limited depth, and damage from external ice formation.

Type 6P Enclosures
Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth, and damage from external ice formation.

Type 12 Enclosures
Intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.

Type 12K Enclosures
Type 12 with knockouts.

Definitions Pertaining to Hazardous (Classified) Locations

Type 7 Enclosures
Intended for indoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the National Electrical Code.

Type 8 Enclosures
Intended for indoor or outdoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the National Electrical Code.

Type 9 Enclosures
Intended for indoor use in locations classified as Class II, Groups E, F, or G, as defined in the National Electrical Code.

Type 10 Enclosures
Constructed to meet the applicable requirements of the Mine Safety and Health Administration.

IEC Enclosure Ratings

Ingress Protection (IP), as stated by I.E.C. Standard 529, describes the degree of protection an enclosure provides. The first digit of the IP designation describes the degree of protection against access to hazardous parts and ingress of solid objects; the second digit designates the Ingress Protection against water. Please refer to the appropriate sections of IEC 529 for complete information regarding applications, features, and design tests.

NEMA No. 250 Appendix A: NEMA To IEC Enclosure Designations

The following information is provided by NEMA Standard No. 250 Appendix A as a guide to comparing NEMA enclosure types to IEC designations.

IEC Publication 529 *Classification of Degrees of Protection Provided by Enclosures* provides a system for specifying the enclosures of electrical equipment on the basis of the degree of protection provided by the enclosure. IEC 529 does not specify degrees of protection against mechanical damage of equipment, risk of explosions, or conditions such as moisture (produced for example by condensation), corrosive vapors, fungus, or vermin. NEMA Standards Publication 250 does test for environmental conditions such as corrosion, rust, icing, oil, and coolants. For this reason, and because the tests and evaluations for other characteristics are not identical, the IEC Enclosure Classification Designations cannot be exactly equated with NEMA Enclosure Type Numbers.

Table A-1 provides a guide for converting from NEMA Enclosure Type Numbers to IEC Enclosure Classification Designations. The NEMA Types meet or exceed the test requirements for the associated IEC Classifications; for this reason Table A-1 cannot be used to convert from IEC Classifications to NEMA Types and the NEMA to IEC conversion should be verified by test.

IP Ratings

Protection Against Access to Hazardous Parts (First Digit)

No.	Description
0	Non-protected
1	Protected against access with back of hand (50 mm)
2	Protected against access with jointed finger (12 mm x 80 mm)
3	Protected against access with a tool (2.5 mm)
4,5&6	Protected against access with a wire (1.0 mm)

Protection Against Ingress of Solid Foreign Objects (First Digit)

No.	Description
0	Non-protected
1	Objects equal or greater than 50mm
2	Objects equal or greater than 12.5mm
3	Objects equal or greater than 2.5mm
4	Objects equal or greater than 1mm
5	Dust protected
6	Dust tight

Protection Against Ingress of Liquids (Second Digit)

No.	Description
0	Non-protected
1	Water dripping vertically
2	Water dripping, enclosure tilted up to 15°
3	Spraying water, up to 60° angle from vertical
4	Splashing water, any direction
5	Jetting water, any direction
6	Powerful jetting water, any direction
7	Temporary immersion in water
8	Continuous immersion in water

Table A-1

Conversion of NEMA Type Numbers to IEC Classification Designations
(Cannot be used to convert IEC Classification Designations to NEMA Type Numbers)

NEMA Enclosure Type Number	IEC Enclosure Classification Designation
1	IP10
2	IP11
3	IP54
3R	IP14
3S	IP54
4 and 4X	IP56
5	IP52
6 and 6P	IP67
12 and 12K	IP52
13	IP54

NOTE: Approximate equivalents based on tests specified in IEC Publication 529

Hazardous Location and Explosionproof Classifications

Hazardous Location Definitions

The principles of sound and light apply to hazardous location signals as they do regular audible and visual signals (see pages 20-31). An added factor must be taken into Consideration - the hazardous environment where the signal will be used. NOTE: Information in this section is provided to assist in signal selection only. Classification of areas in which equipment is to be located is the responsibility of the authority having jurisdiction.

THE ENVIRONMENT

Hazardous Location Environments are those indoor or outdoor areas where a potential explosion and/or fire may exist due to the presence of flammable gases, liquids or vapors (Class I), combustible dusts Class II), or ignitable fibers or flyings (Class III). Whatever the reason for the hazardous location to exist it is essential that every precaution be used to prevent ignition of these hazardous atmospheres.

ELECTRICITY - A SOURCE OF IGNITION

An explosion in a hazardous location atmosphere may result from a simple burst of ignition energy from common electrical devices. The routine usage of circuit breakers, motor starters, contactors, switches, plugs and receptacles releases energy in the form of arcs and sparks as their contacts close and open. The source of an ignition could come from the break-down in an electrical system or a power surge. Sparks, arcs and heat could come from loose wire connections in a splice box, or the failure of insulation from aging or breaking. Static electricity is also a potential source of ignition.

TEMPERATURES

Excessive equipment temperatures can cause a fire or explosion if the ignition temperature of the hazardous substance of concern is reached. Accumulations of dust, fibers or flyings can cause further increases in equipment temperatures. Ignition temperatures do not correlate with properties that define Class and Group classifications.

HAZARDOUS LOCATION CLASSIFICATIONS

The following classification definitions are an interpretive summary based on the 2011 edition of the National Electrical Code and NFPA 70E. Refer to the latest editions of NFPA 497M, NFPA 70E and the UL Hazardous Location Equipment Directory for current and more detailed information.

Classes

The National Electrical Code has created three classes of hazardous locations:

Class I - Hazardous Gases

Class I locations are areas in which flammable gases or vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

Class II - Hazardous Dusts

Class II locations represent areas that are hazardous due to the presence of combustible dust.

Class III - Hazardous Fibers

Class III locations have easily ignitable fibers or flyings present, but not likely to be suspended in air in quantities sufficient to produce ignitable mixtures in the atmosphere.

Divisions

The Location Classes are broken down by the NFPA into Divisions I and 2, defining different levels of risk. In general, the risk of there being a hazardous presence of flammable/combustible/ignitable materials is higher for Division 1 than for Division 2. The specifics differ between the three classes (I, II and III), **Equipment suitable for Division 1 is also suitable for Division 2 locations.**

Groups

Class I and II locations are divided by the NFPA into Group designations identifying specific gases, vapors and dusts by characteristic similarities that relate to specific equipment construction requirements.

Class III locations are not divided into separate group designations.

Class I Groups

Group A - Atmospheres containing acetylene
Group B - Atmospheres containing hydrogen, fuel and combustible process gases containing more than 30 percent hydrogen by volume, or gases or vapors of equivalent hazard such as butadiene, ethylene oxide, propylene oxide, and acrolein.
Group C - Atmospheres such as ethyl ether, ethylene, or other gases or vapors of equivalent hazard.
Group D - Atmospheres containing acetone, ammonia, benzene, butane, cyclopropane, ethanol, gasoline, hexane, methanol, methane, natural gas, naphtha (petroleum), propane. or gases or vapors of equivalent hazard.

Signaling Devices for Class I Locations

Edwards signaling devices for Class I, Division I hazardous locations are housed in enclosures that, for the marked group under normal atmospheric conditions and non-extreme ambients (-25ºC to 40ºC per UL), are built strong enough to contain an explosion, if a hazardous vapor of the marked group enters into the enclosure and ignites, and is construct-ed with joints between parts designed to inhibit the resultant flame from propagating out of the enclosure.

The external surface temperature has been evaluated by UL as not exceeding, unless otherwise indicated, 100ºC in a 40ºC ambient with proper electrical connections and circuit protection.

Class	Group	Approved for Atmospheres containing:	Division 1	Division 2
I	A	Acetylene		B-KM-8130, 5553, 5540M(V/P), 5570M, 58 Series, 94DV2, 94DDV2, 96DV2, 105 Series, 105XBR, 105XBRi, 107DV2 Series, 107DDV2 Series, 107XBR, 116 Series
I	B	Atmospheres containing Hydrogen, fuel and combustible process gases containing more than 30 percent Hydrogen by volume, or gases or vapors of equivalent hazard such as Butadiene, Ethylene Oxide, Propylene Oxide and Acrolein.	332EX, 333EX, 340EX, 435EX, 439DEX 878EX, 878DEX, 879EX, 879DEX, 5522M(D), 5523M(D), 5533M(D), 5545M	B-KM-8130, 5530M, 5531M, 5532M, 5533(M), 5540M(V/P), 5545M, 5553, 5570M, 58 Series, 94DV2, 94DDV2, 96DV2, 105 Series, 105XBR, 105XBRi, 107XBR, 107DV2 Series, 107DDV2 Series, 116 Series
I	C	Atmospheres containing Acetaldehyde, Allyl Alcohol, Butyraldehyde, Carbon Monoxide, Crotonaldehyde, Diethylamine, Diethyl Ether, Dioxane, Epichlorohydrin, Ethylene, Ethylenimine, Ethyl Ether, Ethyl Mercaptan, Hydrogen Cyanide, Hydrogen Sulfide, Methyl Ether, Methyl Formal, Methylacetylene, Morpholine, Nitropropane, Propyl Ether, Tetrohydrofuran, Triethylamine, Unsymmetrical Dimethyl Hydrazine or other gases and vapors of equivalent hazard.	332EX, 333EX, 340EX, 435EX, 439DEX, B-KM-8140, B-8141, 878EX, 878DEX, 879EX, 879DEX, B-KM-8130, 5522M(D), 5523M(D), 5533M(D) 5545M,116 Series	5531M, 5532M, 5533M(D), 5540M(V/P), 5545M, 5553, 5570M, 58 Series, 94DV2, 94DDV2, 96DV2, 105 Series,105XBR, 107XBR, 107DV2 Series, 107DDV2 Series, 116 Series
I	D	Acetic Acid, Acetone, Acrylonitrile, Ammonia, Benzene, Butane, Butanol, Butyl Acetate, Cyclopropane, Di-Isobutylene, Ethane, Ethanol, Ethylamine, Ethylenediamine, Ethylene Dichloride, Ethyl Acetate, Ethyl Acrylate, Ethyl Alcohol, Gasoline, Heptane, Hexane, Isobutyl Acetate, Isobutyl Alcohol, Isoprene, Isopropyl Ether, Mesityl Oxide, Methane, Methanol, Methyl Alcohol, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methyl Propanol, Naphtha (Petroleum), Octane, Pentane, Pentanol, Propane, Propanol, Propylene, Styrene, Toluene, Vinyl Acetate, Vinyl Chloride, Xylene or other gases and vapors of equivalent hazard.	332EX, 333EX, 340EX, 435EX, 439DEX, B-KM-8140, B-8141, 878EX, 878DEX, 879EX, 879DEX, B-KM-8130, 5522M(D), 5523M(D), 5533M(D), 5545M,116 Series	5530M, 5531M, 5532M, 5533M(D), 5540M(V/P), 5545M, 5553, 5570M, 58 Series, 94DV2, 94DDV2, 96DV2, 105 Series, 105XBR, 105XBRi, 107DV2 Series, 107DDV2 Series, 107XBR, 116 Series
II	E	Atmospheres containing combustible metal dusts, including aluminum, magnesium, and their commercial alloys, or other combustible dusts whose particle size, abrasiveness, and conductivity present similar hazards in the use of electrical equipment.	332EX, 333EX, 340EX, 435EX, 439DEX, B-KM-8140, B-8141, 878EX, 878DEX, 879EX, 879DEX, B-KM-8130, 5522M(D), 5523M(D),116 Series	107DV2 Series, 107DDV2 Series, 107XBR
II	F	Coal, carbon black, charcoal and coke dusts. Atmospheres, containing combustible carbonaceous dusts that have more than 8 percent total entrapped volatiles or that have been sensitized by other materials so that they present an explosion hazard.	332EX, 333EX, 340EX, 435EX, 439DEX, B-KM-8140, B-8141, 878EX, 878DEX, 879EX, 879DEX, B-KM-8130, 5522M(D), 5523M(D), 116 Series	5530M, 5531M, 5532M, 5540M(V/P), 5553, 58 Series, 94DV2, 94DDV2, 96DV2, 105 Series, 105XBR, 105XBRi, 107DV2 Series, 107DDV2 Series, 107XBR, 116 Series
II	G	Atmospheres containing combustible dusts not included in Group E or F, including flour, grain, wood, plastic and chemicals.	332EX, 333EX, 340EX, 435EX, 439DEX, B-KM-8140, B-8141, 878EX, 878DEX, 879EX, 879DEX, B-KM-8130, 5522M(D), 5523M(D), 116 Series	5530M, 5531M, 5532M, 5540M(V/P), 5553, 58 Series, 5894DV2, 94DDV2, 96DV2, 105 Series, 105XBR, 105XBRi, 107DV2 Series, 107DDV2 Series, 107XBR, 116 Series
III		Atmospheres containing Ignitable Fibers or Flyings. These may include Textile mills, Cotton gins, Cotton seed milling plants, Flax plants and Carpet manufacturers.	332EX, 333EX, 340EX, 435EX, 439DEX, 878EX, 878DEX, 879EX, 879DEX, 5522M(D), 5523M(D), 5553, 116 Series	5530M, 5531M, 5532M, 5536M(H/V), 5540M(V/P), 5553, 58 Series, 94DV2, 94DDV2, 96DV2, 105 Series, 105XBR, 105XBRi, 107DV2 Series, 107DDV2 Series, 107XBR, 116 Series

Note: Any signal approved for Division 1 may be used in Division 2 locations of the same group.

Hazardous Location and Explosionproof Classifications
ATEX

II 2 GD EEx d IIB T6

EU Explosive Atmosphere Symbol

Equipment Group
I. Mining:
M1 = Energized
M2 = De-energized
II. Non- Mining

Equipment Category
1 = Very high protection
2 = High protection
3 = Normal protection

Gas/Dust Zones

Gas	Dust
0	20
1	21
2	22

Temperature

Code	Max. Surface Temp. (°C)
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

Gas Group

Gas Group	Sample Gas
I	Methane (mining only)
IIA	Propane
IIB	Ethylene
IIC	Hydrogen

Type of Protection	Cenelec Code
Intrinsic Safety	EEx ia / ib
Increased Safety	EEx e
Flameproof	EEx d
Pressurization	EEx p
Powder Filing	EEx q
Encapsulation	EEx m
Oil Immersion	EEx o
Type 'n'	EEx n

The ATEX directive consists of two EU directives that describe what equipment and work environment is allowable in an environment with an explosive atmosphere. ATEX derives its name from the French title of the 94/9/EC directive: Appareils destinés à être utilisés en **AT**mosphères **Ex**plosives.

As of July 2003, organizations in the EU must follow the directives to protect employees from explosion risk in areas with an explosive atmosphere.

There are two ATEX directives, one for the manufacturer and one for the user of the equipment:

- **ATEX 95** equipment directive 94/9/EC, Equipment and protective systems intended for use in potentially explosive atmospheres;
- **ATEX 137** workplace directive 99/92/EC, Minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

European Zones		Definitions	North American Classification	ATEX Categories	Typical Zone Suitability
Gas	0	A place in which an explosive atmosphere is continuously present	Class I, Division 1	1G	Equipment suitable for Zone 0
Dust	20		Class II, Division 1	1D	Equipment suitable for Zone 20
Gas	1	A place in which an explosive atmosphere is likely to occur in normal operation occasionally	Class I, Division 1	2G	Equipment suitable for Zone 1
Dust	21		Class II, Division 1	2D	Equipment suitable for Zone 21
Gas	2	A place in which an explosive atmosphere is not likely to occur in normal operation but if it does, only occurs for short periods	Class I, Division 2	3G	Equipment suitable for Zone 2
Dust	22		Class II, Division 2	3D	Equipment suitable for Zone 22

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Gas Groups (plus dusts and fibers)

There are two main gas groups,
Group I– Mining only and
Group II– Surface Industries

These categories are used in European and I.E.C. groupings.

Group I is concerned only with underground mining where methane and coal dust are present.

Group II gases occurring in surface industries, are sub-grouped according to their volatility. This enables electrical equipment to be designed to less onerous tolerances if it is to be used with the least volatile gases.

Typical gas/material	European/I.E.C. Gas Group	North American Gas Group
Methane	I	–
Acetylene	IIC	A
Hydrogen	IIC	B
Ethylene	IIB	C
Propane	IIA	D
Metal dust	–	E
Coal dust	–	G
Grain dust	–	G

Temperature

Hot surfaces can ignite explosive atmospheres. To guard against this, all electrical equipment intended for use in a potentially explosive atmosphere is classified according to the maximum surface temperature it will reach in service. This temperature is normally based on a surrounding ambient temperature of 40C° (102°F). This temperature can then be compared to the ignition temperature of the gas(es) which may come into contact with the equipment and a judgement reached as to the suitability of the equipment to be used in that area.

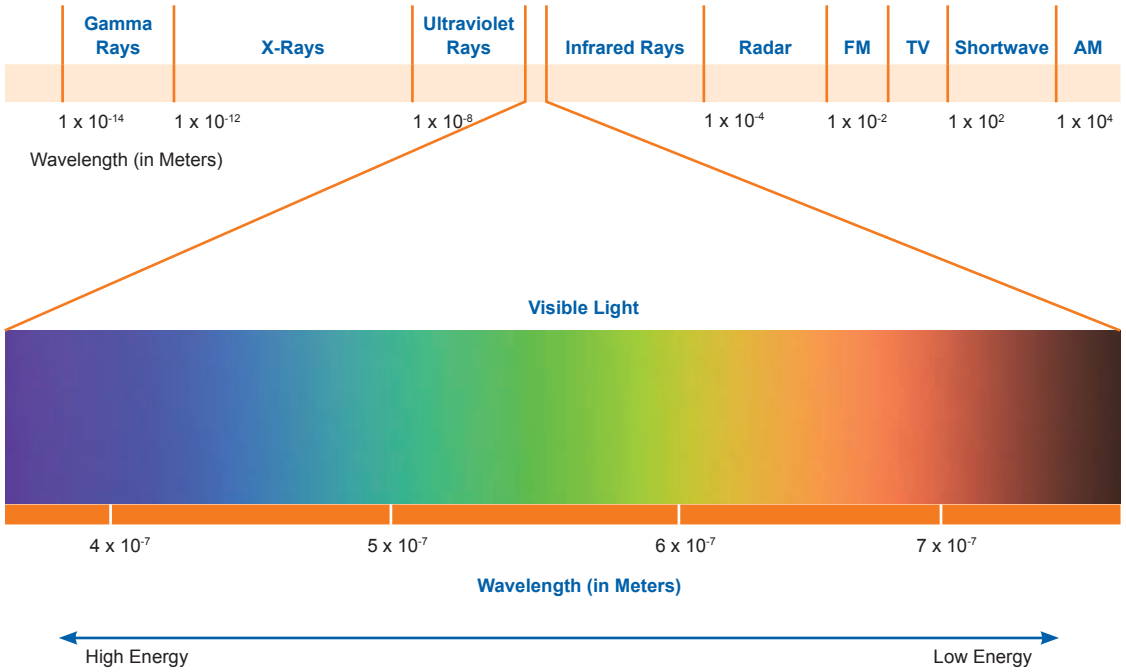
Temperature Classification		
European/I.E.C.	North American	Maximum Surface Temperature
T1	T1	450° C
T2	T2	300° C
	T2A	280° C
	T2B	260° C
	T2C	230° C
	T2D	215° C
T3	T3	200° C
	T3A	180° C
	T3B	165° C
	T3C	160° C
T4	T4	135° C
	T4A	120° C
T5	T5	100° C
T6	T6	85° C

Types of Electrical Equipment Suitable for use in Potentially Explosive Atmospheres

Different techniques are used to prevent electrical equipment from igniting explosive atmospheres. There are restrictions on where these different types of equipment can be used as follows:	European Area of use Designation Standard	IEC Area of use Designation Standard	NEC Area of use Designation Standard
Flameproof Enclosure– An enclosure used to house electrical equipment, which when subjected to an internal explosion will not ignite a surrounding explosive atmosphere.	Zones 1 & 2 EExd EN60079-1	Zones 1 & 2 Exd IEC60079-1	Class I, Divisions 1 & 2 – UL1203
Intrinsic Safety– A technique whereby electrical energy is limited such that any sparks or heat generated by electrical equipment is sufficiently low as to not ignite an explosive atmosphere.	Zones 0, 1 & 2 EExi EN50020	Zones 1 & 2 Exi IEC60079-11	Class I, Divisions 1 & 2 – UL913
Increased Safety– This equipment is so designed as to eliminate sparks and hot surfaces capable of igniting an explosive atmosphere.	Zones 1 & 2 EExe EN60079-7	Zones 1 & 2 Exi IEC60079-7	– – –
Purged and Pressurized– Electrical equipment is housed in an enclosure which is initially purged to remove any explosive mixture, then pressurised to prevent ingress of the surrounding atmosphere prior to energization.	Zones 1 & 2 EExp EN50016	Zones 1 & 2 Exp IEC60079-2	Class I, Divisions 1 & 2 – NFPA496
Encapsulation– A method of exclusion of the explosive atmosphere by fully encapsulating the electrical components in an approved material.	Zones 1 & 2 EExm EN60079-18	Zones 1 & 2 Exm IEC60079-18	– – –
Oil Immersion– The electrical components are immersed in oil, thus excluding the explosive atmosphere from any sparks or hot surfaces.	Zones 1 & 2 EExo EN50015	Zones 1 & 2 Exo IEC60079-6	Class I Division 2 – UL698
Powder Filling– Equipment is surrounded with a fine powder, such as quartz, which does not allow the surrounding atmosphere to come into contact with any sparks or hot surfaces.	Zones 1 & 2 EExq EN50017	Zones 1 & 2 Exq IEC60079-5	– – –
Non-sparking– Sparking contacts are sealed against ingress of the surrounding atmosphere, hot surfaces are eliminated.	Zone 2 EExn EN60079-15	Zone 2 Exn IEC60079-15	– – –

Science of Light

Physical Principles of Light



The electromagnetic spectrum covers an extremely broad range, from radio waves with wavelengths of a meter or more, down to x-rays with wavelengths of less than a billionth of a meter. Optical radiation (visible light) is only a small portion of this spectrum positioned between radio waves and x-rays.

That portion of the spectrum that the eye can see is rather small, covering approximately 360 to 830 nm. The colors we perceive depend on wavelength, while the amount of light energy detected by the eye at a particular wavelength determines the perceived intensity of that color. In quantifying that energy, we use what is called “radiant flux”, a measure in watts, of the energy per second (or power) radiated from a source. Radiated optical energy (light) can be measured and correlated with human vision.

Photometric versus radiometric measurement

Photometry is the science of the measurement of light in terms of its perceived brightness to the human eye. The eye’s response to light depends on physical, physiological and psychological factors and varies from person to person, making it difficult to define the average observer. In 1924, the Commission Internationale de l’Eclairage (CIE), or International Commission on Illumination, conducted a series of experiments to quantify the human eye’s response to visible light. The result: a specified spectral luminous efficiency function V (λ) to characterize the daylight vision of the average human observer. This is now commonly known as the photopic function. Because the response changes at low light levels, the CIE also defined a scotopic function V’(λ) to characterize the response of the dark-adapted eye. As such, it takes into account the eye's sensitivity to varying degrees of light and focuses primarily on the visible light spectrum.

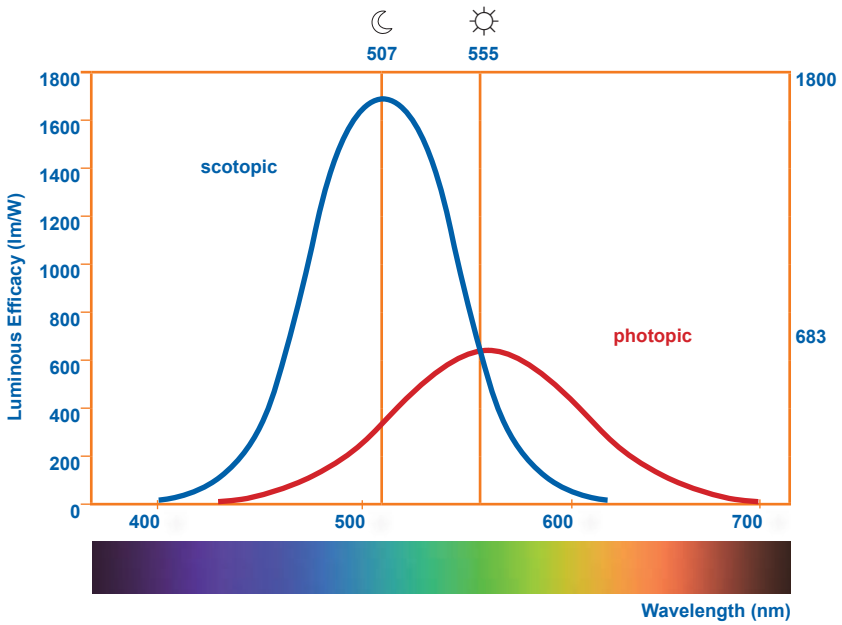


Figure 1: The response of two types of vision can be described by photopic (red) and scotopic (blue) Luminous Efficacy curves.

Photometry is distinct from radiometry, which is the science of measurement of radiant energy (including light) in terms of absolute power. There are two parallel systems of measurement known as photometric and radiometric quantities. Every quantity in one system has an analogous quantity in the other system. In photometric quantities every wavelength is weighted according to how sensitive the human eye is to it, while radiometric quantities use unweighted absolute power.

Photometric and Radiometric Units

Radiometric Term	Unit	Photometric Term	SI Unit	English Unit
Radiant flux	Watt	Luminous flux	Lumen	Lumen
Radiant intensity	Watt/steradian	Luminous intensity	Candela	Candela
Radiance	Watt/steradian/m^2	Lumiance	cd/m^2	Footlambert
Irradiance	$Watt/m^2$	Illuminance	Lux	Footcandle

Luminous flux

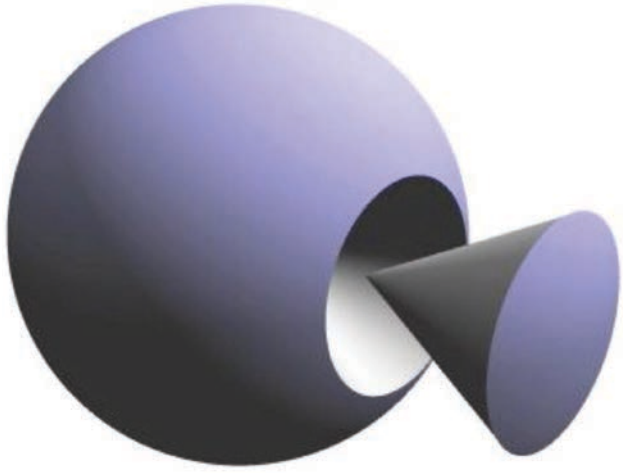


Figure 2. The steradian is the solid angle at the center of a sphere that subtends a surface area of r^2.

The fundamental quantity used in photometry is luminous flux, which is the visible light energy per second radiated by a source or amount of photometric energy traveling through space in a given time interval. The lumen is the unit of luminous flux, and 1 W of radiant flux at the peak photopic wavelength of 555 nm is equivalent to a luminous flux of 683 lumens. If the radiant flux (power) of a polychromatic light source at every wavelength of the visible spectrum from the blue to the red end is known, the luminous flux can be calculated by mathematically integrating the power values with the CIE-defined photopic value for each wavelength.

For historical reasons, the candela – the unit of luminous intensity – takes precedence over the lumen. The candela originally was derived from the light emitted by a candle; its current definition is the luminous intensity, in a given direction, of a source that emits monochromatic radiation of frequency 540×10^{12} Hz and that has a radiant intensity in that direction of 1/683 W per steradian (540×10^{12} Hz is equivalent to 555 nm). The lumen is the luminous flux, emitted per unit solid angle from a point source whose luminous intensity is one candela. The unit of solid angle is the steradian (Figure 2), and because the surface area subtended by a steradian is r^2, a sphere with a surface area of $4\pi r$ must have 4π steradians. Therefore, the total luminous flux emitted from a one-candela point source is 4π lumens.

Typically, manufacturers measure the total lumen output by placing a photometer at the exit port of an integrating sphere. The light source is placed inside the integrating sphere – a highly reflective sphere with a white, spectrally nonselective coating. These devices also are used to measure directional sources such as laser beams and light-emitting diodes (LEDs).

Luminous intensity

Luminous intensity, or candlepower, is the luminous flux per unit solid angle emitted by a uniform point source of light. This is the quantity used to measure the output of point (small) sources such as an LED. The unit of luminous intensity is the candela, and it is given in lumens per steradian.

It is important to note that in many practical applications, point sources are directional and do not radiate uniformly. Therefore, candlepower is measured in a specific direction over a small collection angle along the axis of radiation. LED receptors, which use the technique to measure LEDs in millicandelas, consist of tubes with baffles that have a specific collections geometry (2° to 15° are common). The CIE has recommended in CIE 127 that LEDs be measured using 2° and 6.5° geometry, and that these two readings are averaged to yield "Averaged LED Intensity." A typical LED receptor is a tube in which one end is attached to the light measuring device and the other end receives the LED. The collection geometry is defined by a field stop in the tube. The receptor is then calibrated using a source of known luminous intensity.

Flashing lights are also commonly used in many signaling applications. The visibility or conspicuity of flashing lights varies depending on the duration and waveform of flashes for the same physical energy and spectrum of the flashes. To take into account such visual effects, the term, effective intensity, is used to specify the intensity of flashing lights for signaling applications. Effective intensity is defined as the luminous intensity (cd) of a steady light source that would have the same luminous range (or visual range) as the flashing lights in question.

An additional source of potential confusion regarding intensity measurements involves the difference between Mean Spherical Candela and Beam Candela, both of which use the candela unit (lumens per steradian). Mean spherical measurements are made in an integrating sphere, and represent the total output in lumens divided by $4\pi sr$ in a sphere. Thus, a one candela isotropic lamp produces one lumen per steradian. Beam candela, on the other hand, samples a very narrow angle and is only representative of the lumens per steradian at

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the peak intensity of the beam. This measurement is important in the world of signaling devices where beam intensity is an important application factor.

Suppose that two LED's each emit 0.1 lm total in a narrow beam: One has a 10° solid angle and the other a 5° angle. The 10° LED has an intensity of 4.2 cd, and the 5° LED an intensity of 16.7 cd. They both output the same total amount of light, however - 0.1 lm. A flashlight with a million candela beam may be very bright, but only within its extremely narrowly focused beam.

Illuminance

Illuminance is the total amount of visible light illuminating, (or incident upon), a point on a surface from all directions above the surface. Illuminance is equivalent to irradiance weighted with the response curve of the human eye. Standard unit for illuminance is Lux (lx), or lumens per square meter (lm/m^2). A surface will receive one Luxx of illuminance from a point light source that emits one candela of luminous intensity in its direction from a distance of 1 m. When using the non-standard US units, this translates into one footcandle received from a one candela source one foot away.

Illuminance is measured whenever the light level of a particular surface has to be specified. For example, these measurements are required to characterize the light falling on a projector screen or to design light fixtures in a building.

Two laws of physics that affect illuminance measurements are the inverse square law and the cosine law. The inverse square law states that the intensity per unit area of a surface varies inversely with the square of the distance between the light source and the detector. Therefore, if illuminance is measured at a particular distance from a source, it is possible to calculate the illuminance at other distances.

The cosine law states that the illumination of a surface decreases as a function of the cosine of the incident angle of illumination. This happens because, as the angle of illumination is moved away from the perpendicular to the surface, the area of illumination increases and the flux density per area decreases. Shining a flashlight on a piece of paper at different angles will clearly illustrate this. Illuminance meters use a cosine diffuser that lights and weighs each ambient source's flux density by the cosine of the angle at which it illuminates the surface, therefore providing cosine corrected results.

Luminance

Luminance, the most commonly measured photometric quantity, is required whenever it is necessary to know the apparent brightness of an object or source. Luminance is the luminous flux emitted from a source per unit solid angle per unit area in a given direction and is, therefore, the luminous intensity per unit area. Luminance measurements are constant, regardless of the distance between the source and the detector because, as the intensity measured by a detector decreases with distance, the area of the measuring field increases proportionately.

Usually, a luminance meter has a lens to restrict the field of view of the detector. The human eye is the best-known example of a luminance meter. The unit of luminance is the candela per square meter (cd/m^2) in metric units or the footlambert (fl) in English units. The conversion factor is 1 cd/m^2 = 0.2919 fl. A perfectly diffuse source has what is known as a "lambertian" surface and reflects light in all directions following the cosine law.

Because of the ways in which light propagates through three-dimensional space– spreading out, becoming concentrated, reflecting off shiny or matte surfaces– and because light consists of many different wavelengths, the number of fundamentally different kinds of light measurement is large, and so are the units that represent them.

For example, offices are typically "brightly" illuminated by an array of many recessed fluorescent lights for a combined high luminous flux. A laser pointer has very low luminous flux (it could not illuminate a room) but is blindingly bright in one direction (high luminous intensity in that direction).

Science of Light

Photometers

Photometric measurements are made with instruments called photometers. The devices function by collecting light through some kind of input optics, passing it through a spectral modifying filter and then measuring the light with a photosensitive detector. The filter is carefully trimmed to modify the detector response so that it matches the CIE photopic (or scotopic) function. The detector converts the incoming light energy into an electrical signal, which is then amplified and displayed. Because the filter/detector combination approximates the eye response, the measured electrical signal is a true measure of the light as perceived by a human observer.

Note that traditional photometers, because of their inability to simulate the response of the human eye at the ends of the visible spectrum generate significantly flawed data when testing red, blue, and some styles of white LEDs.

Spectroradiometers

Spectroradiometers are another class of instruments that can be used to perform photometric measurements. A spectroradiometer measures the radiant flux of light at different wavelengths and then mathematically multiplies these spectral values with the CIE-defined photopic values at those wavelengths. By summing these multiplications at small wavelength intervals throughout the visible spectrum, a spectroradiometer accurately calculates photometric quantities. A good spectroradiometer can offer high accuracy for measuring any kind of light source, as there are no filters causing spectral mismatches. These instruments do not require special calibration factors for measuring narrowband LEDs, high-intensity discharge lamps, CRT phosphors, laser projectors, etc.

Perceptual Phenomena

1. Broca-Sulzer Effect
A brief, relatively bright flash of light (optimal flash duration of 0.05 to 0.1 s) is subjectively perceived to be brighter than a longer flash of greater luminance intensity.

2. Brücke-Bartley Effect
Below the critical flicker frequency (i.e., the frequency where a flashing light appears constant), the apparent brightness of a flashing light will gradually increase as the frequency is reduced and reach a point (approximately 8 to 10 Hz) where it appears brighter than an uninterrupted light source of equal luminance.

3. Bloch's Law
For sufficiently short stimulus durations, detection threshold decreases inversely with the duration of the stimulus. (Under about 100 milliseconds stimulus duration it is possible to exchange the amount of light for the duration and maintain a constant effect.)

4. Blondel Rey
The product of flash intensity times its duration is equal to the asymptotic threshold value times the sum of the duration plus a "visual response time constant".

Proper Selection of Visual Signaling Devices

General

Selecting the "best " visual signaling device for any particular application can be a daunting challenge for many users. However, the reason behind this complexity is really quite simple: There is much more to consider than the signaling device itself. Choosing properly begins with understanding the reality that we are dealing with a complex system involving not just the signaling device itself, but light and the way our eyes "see" it as well as the way our brains process and perceive it.

When comparing two different warning lights, the first question typically asked is which one is "brighter"? This can be a complicated question when one is comparing very different light sources such as rotating incandescent lights, xenon strobes and variable flash rate LEDs of different colors.

Let's briefly discuss three different commonly specified "intensity" ratings:

Peak Candela or Peak Candlepower

Peak Candela can be defined as the maximum light intensity generated by a flashing light during its light pulse. It indicates NOTHING ABOUT HOW BRIGHT THE LIGHT APPEARS TO THE HUMAN EYE. Peak candela alone cannot be used to directly compare two warning lights. In addition there is no set multiplication factor for converting peak candela, a unit of luminous intensity, to either candela seconds or effective candela, both units of luminous energy. Edwards discourages the use of peak candela ratings when comparing warning lights.

Candela Seconds or Candlepower Seconds

This quantity is the actual light energy contained in a pulse of light. Candela seconds is used by the Society of Automotive Engineers SAE) and the California Highway Patrol to specify the minimum requirements for light output from a flashing light because flash energy has been shown to be a relatively accurate and fair way of comparing radically different types of lights such as incandescent rotators and xenon strobe lights. Candela seconds is merely a relative measure of how bright a flash of light will appear to a human eye. A light with a higher candela second rating will appear brighter than a light with a lower candela second rating even if the lower rated light has a much higher peak candela rating.

Effective Candela or Effective Candlepower

Effective Candela is based on candela seconds and attempts to equate the brightness of a flashing light source to the brightness of a steady burning source. If a flashing light has a candela effective rating of 100 then it will be visible at the same distance as a 100 candela steady burning source. The National Bureau of Standards, the FAA, and the Illuminating Engineering Society use effective candela in specifying intensities of flashing light source because this rating is the most meaningful when it becomes necessary to predict the visible range of flashing warning lights versus steady burning light sources.

Please note that the actual perceived light output of a visual signal depends on a number of interdependent factors which can vary the light output by a factor of 10 or more for a given amount of energy per flash.

Some of these factors are:

- Viewing Distance
- Viewing Angle
- Flash Rate
- Pulse Width or Duration
- Ambient Light Conditions
- Chromaticity or Color Saturation
- Lens or LED Light Source Color
- Lens Optics
- Physical shape of Light Source and positioning relative to Lens (optical coupling)
- Light Source Efficiency
- Voltage Variation

Linear Perspective

When selecting a visual signal it is also important to keep in mind that as objects are viewed from a greater distance, they appear smaller because their visual angle decreases. The visual angle of an object is the angle subtended at the eye by a triangle with the object at its base. The greater the distance of the object from the eye, the greater the height of this triangle, and the less the visual angle. This follows simply from Euclidean geometry.

You already know this from everyday life: buildings look smaller as they are further away. So do people. If you know approximately how big something is (its physical size) - for example, a person of average height is usually around 5 or 6 feet tall) and you observe that person to be a certain apparent size, you are able to automatically estimate roughly how far away they are.

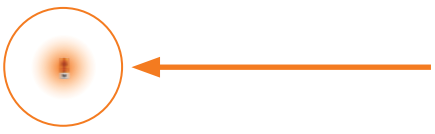
The relationship between distance and apparent height of objects is an inverse-linear function:

$$h = \frac{a}{d}$$

where **h** is the apparent height,
d is the distance of the object, and
a is the actual size of the object.

For example: A 94PLEDMR120A Polaris Beacon has an "Actual Size" of 7.75" high.

One does not have to actually do the math to realize that regardless of how bright this beacon actually is, at a great distance away (1000'), to the viewer, it would appear a small point of light.



Science of Sound

Physical Principles of Sound

The sources of sound are many and nearly infinitely varied. Sound can be described in terms of pitch– from the low rumble of distant thunder to the high-pitched buzzing of a mosquito– and loudness. However, it is important to understand that these are subjective qualities that depend in part on the hearer's sense of hearing. Objective, measurable qualities of sound include frequency and intensity, which are related to pitch and loudness. These terms, as well as others used in discussing sound, are best understood through an examination of the physical principles of sound.

To understand the basics of sound, it is important to first understand some basic related scientific principles.

At its most fundamental level, sound is the mechanical disturbance of a medium, either gas, liquid or solid. All sounds are created by causing a medium to vibrate, be it a bell, horn, siren, whistle or the wings of a cicada. Sound is propagated through mediums by causing adjacent particles to vibrate in a similar fashion– a bell vibrates at a given frequency and thereby displaces adjacent air molecules. This process continues, and eventually air particles in our ears bump into tiny hairs in our inner ear; these hairs send electrical impulses to our brain, which tells us that we are hearing a particular tone.

Put more simply, sound can be described as the transmission of pressure, from an initial source to a listener through the air (or other medium).

The most popular analogy to sound wave propagation is the example of a pebble that is dropped into a pond. The pebble, on its initial collision with the water's surface, produces ripples originating from the "point source" of the rock's entry, spreading in all directions. Due to the mass of the water molecules, energy is expended in making the water ripple. So as the ripples travel further and further away from the rock's point of entry, the ripples lose intensity. Sound behaves in the same manner. As sound travels, it loses energy, sounding "softer". A law known as the inverse-square law dictates the amount of energy lost per unit distance— in a free-field, doubling the distance quarters the sound energy, given a point-source.

Speed of sound in various mediums

Medium	Speed in feet per second	Speed in meters per second
Air at 59°F (15°C)	1,116	340
Aluminum	16,000	5,000
Brick	11,980	3,650
Distilled water at 77°F (25°C)	4,908	1,496
Glass	14,900	4,540
Seawater at 77°F (25°C)	5,023	1,531
Steel	17,100	5,200
Wood (maple)	13,480	4,110

The rate at which variations in air pressure occur is referred to as frequency and is expressed in cycles per second (cps) or Hertz (Hz). The human ear is typically capable of hearing sounds produced in the 20 to 20,000 Hertz range.

The range of sound pressure to which the ear will respond is extremely wide (on the order of several million to one). Because of this, a linear scale to compare different sound pressures becomes as impractical as the use of a yardstick to measure miles. A logarithmic scale, is a far more suitable scale for this type of measurement. Therefore, the decibel, which is a logarithmic unit, is used to measure sound pressure levels. A very important concept to note when using decibels, is that for each additional 3 dBs, the sound pressure doubles! (e.g. a signaling device rated 83 dB at 10 ft. is TWICE as powerful as one rated at 80 dB at 10 ft.).

Loudness is determined by the magnitude of these variations. Greater variations in pressure produce louder sounds. The louder the sound, the more our ear drum moves. The volume (or magnitude) of any particular sound is referred to as its "sound pressure." Under normal atmospheric conditions, the maximum sound pressure level attainable is 194 dB. Sound pressure levels in excess of 120 dB may be painful. Above 150 dB they can result in ear damage. A distance must generally be specified along with the dB rating to fully describe a sound. The sound pressure level changes 6 dB for each halving or doubling of distance. For a change in distance of ten times, the sound pressure level changes 20 dB.

Here are some common sound levels to give you a framework for understanding the different sound levels:

Source in dB	Activity
170-180 dB	stun grenades (hearing tissue death occurs)
140-150 dB	firearms, jet engine, rock concert
120-130 dB	jackhammers, heavy construction tools, loud car stereo
100-110 dB	motorcycles, chainsaws, loud nightclub
90 dB	a hair dryer
85 dB	city traffic
80 dB	alarm clock
60 dB	normal conversation
50 dB	moderate rainfall, the average ambient sound level in one's home.
30-40 dB	a quiet room or library, a whisper, the bedroom while sleeping.

Science of Sound

Direction of Sound

How do we know the direction of an approaching train or warning alarm? To do so, we must examine some characteristics of the human hearing system. “Binaural localization”, or the ability of using our two ears to determine from where a sound source appears, uses three cues:

- **Interaural intensity differences -** middle and high-frequency sounds originating from a human subject's left side will reach the left ear at a higher intensity (volume) level than the right ear, causing a difference in intensities at each ear. The head baffles most of the direct sound energy from reaching the right ear, so that predominantly reflected sounds arrive at the right ear. Because the reflected sound has traveled farther and has lost energy in its journey from source to reflector to ear, the intensity of that sound as perceived by the right ear is reduced, and the brain tells us that the sound arrived from the left side.
- **Interaural arrive-time differences -** while interaural intensity differences are one clue in determining a sound's point-source for mid- to high-frequency sounds, low frequencies, with their large wavelengths, are not as easily discriminated using interaural intensity differences. At lower frequencies, instead, the ear uses time delay-- the short but significant delay between the left and right ears-- to calculate which sound arrived first.
- **Pinnae of the ears -** while interaural intensity and arrive-time differences gives us lateral cues, telling us left-to-right information. The pinnae, however, use the shape of the ears and the strange bumps and ridges to reflect the sound into the ear. These ridges introduce slight time-delays between the direct sound and the reflected sound. The time delay itself is a function of the angle of incidence-- at what angle the sound bounced off the pinnae.

AUDIBLE SIGNALING

Audible Signals designed specifically to alert, warn, communicate and protect provide a universally understood language that transcends national borders. Audible signaling devices typically work by presenting loud, distinctive tones, sequences of tones or specific voice messages that immediately attract our attention and focus our thinking. Optimally, audible signal sound output (in dB) will be greater than 75 dBs and at least 15dBs above ambient noise levels in the surrounding area.

How effective an audible signal is dependent on a variety of interdependent factors;

- Sound Output Level (in dB)
- Frequency (in Hz)
- Distance from the signaling device
- Ambient Noise Level
- Environmental Influences (i.e. wind speed and direction, humidity level, precipitation, etc.)

TYPICAL DB LEVELS WHEN SELECTING AUDIBLE SIGNALS

In specifying a signaling device, all of the above characteristics should be considered along with as many factors concerning the application as can be gathered. Selecting the proper device for each signaling application need not be difficult if the following points are observed.

1. **Signal Function.** Basically, the types of functions to which signals can be applied are:
   - General alarm or emergency
   - Start and dismissal
   - Paging or coding
   - Localized danger
   - Indication

   The first step in selecting a signal is to carefully define this function. Is the signal to be a warning, a call, or an instruction? Will it be used to protect life or property? How much time will be available to take action? Obviously, the more critical the application, the more startling the signal generated should be. A horn is generally the most startling signal. Its rasping tone commands immediate attention. A single stroke bell can be used for paging applications where danger is not at hand. A small buzzer may serve to notify a machine operator that a particular operation is completed. Audible signals with pulse and alternating tones are generally more effective than those with a linear tone.
2. **Uniform Sound Distribution:** Better signal distribution can usually be achieved by carefully positioning a number of smaller signals throughout a given area than by centrally locating a single large unit.

3. **Ambient Sound Conditions:** The frequency of the signaling device selected should be as different from the background noise as possible. The signal should override this noise by a minimum of six decibels. Usually, the noisier the area, the louder the signal required and the greater the number of signaling devices required. Over the years, horns and bells have been the most popular signals because their varied tones can be heard over most ambient conditions. See the table on page 27 for typical dB levels associated with various activities.

4. **Size of Area to be Covered:** The larger the area, the louder the signal required or the greater the number of units required. As a rule of thumb, sound output drops by approximately 6 decibels each time the distance between the sound source and the human ear is doubled. For example:

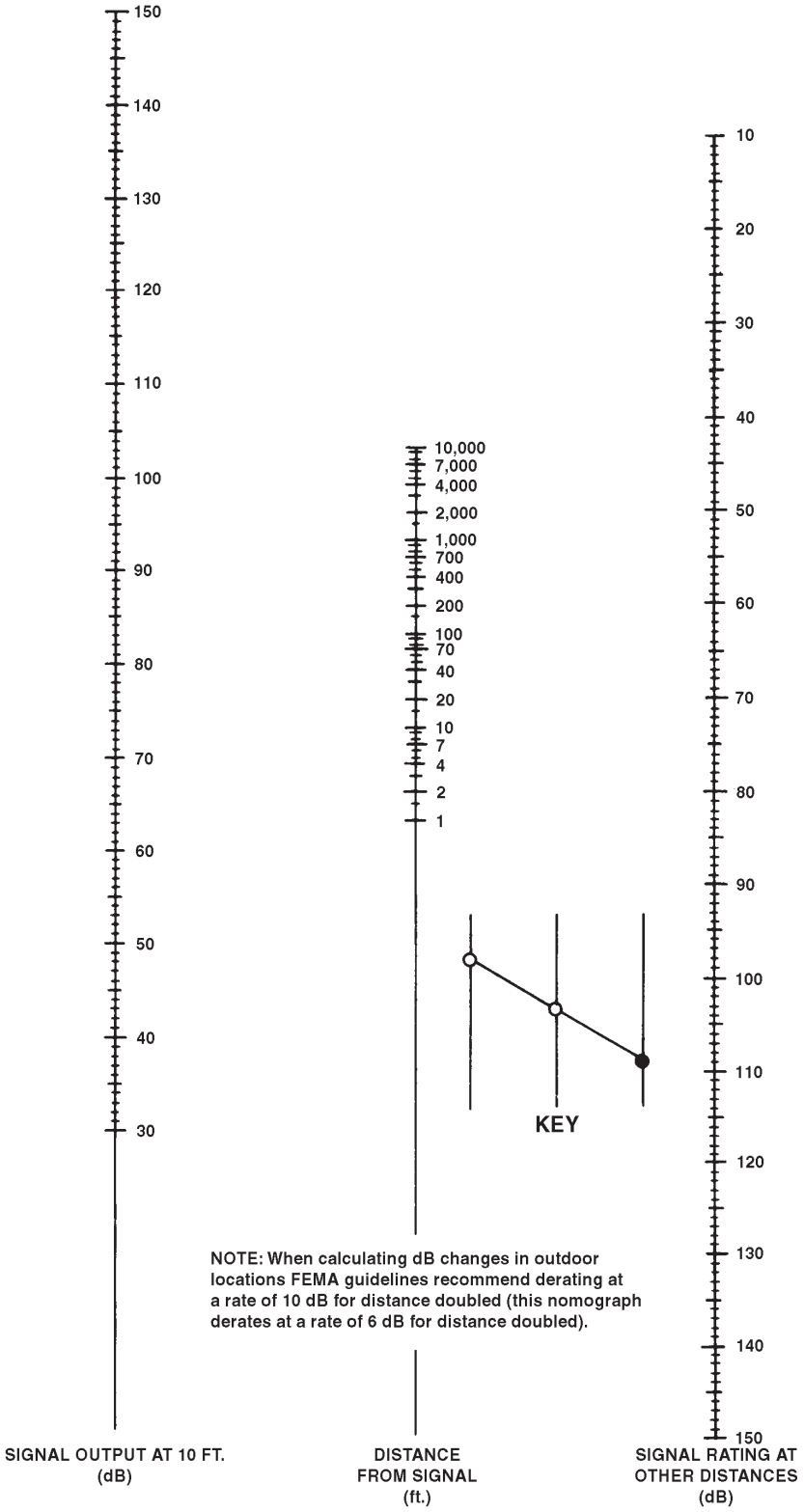
Source in dB	Feet from Source
116 dB	10
110 dB	20
104 dB	40
98 dB	80
92 dB	160

If a signal is rated at 116 dB at 10 feet, then a signal twice as loud would be rated at 122 dB at 10 feet. In an application where the ambient noise level was 92 dB, the signaling device in the above example would adequately cover a distance of approximately 80 feet. Better coverage is frequently obtained by the use of several signals of lower dB rating than by using one very loud signal, (providing the signals can be positioned to advantage).

5. **Mounting Considerations:** The surface that the signal is mounted to can markedly affect the signal's performance. A horn, for example, should be rigidly mounted to a sturdy surface so that all of its energy is directed into the sound output and not absorbed by the wall. A buzzer, however, can sound much louder if mounted on a resonant surface because it will act as a "sound board" for the buzzer.

Science of Sound

The Nomograph pictured below can be used to calculate dB over distance.



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M16x1.5

EDWARDS

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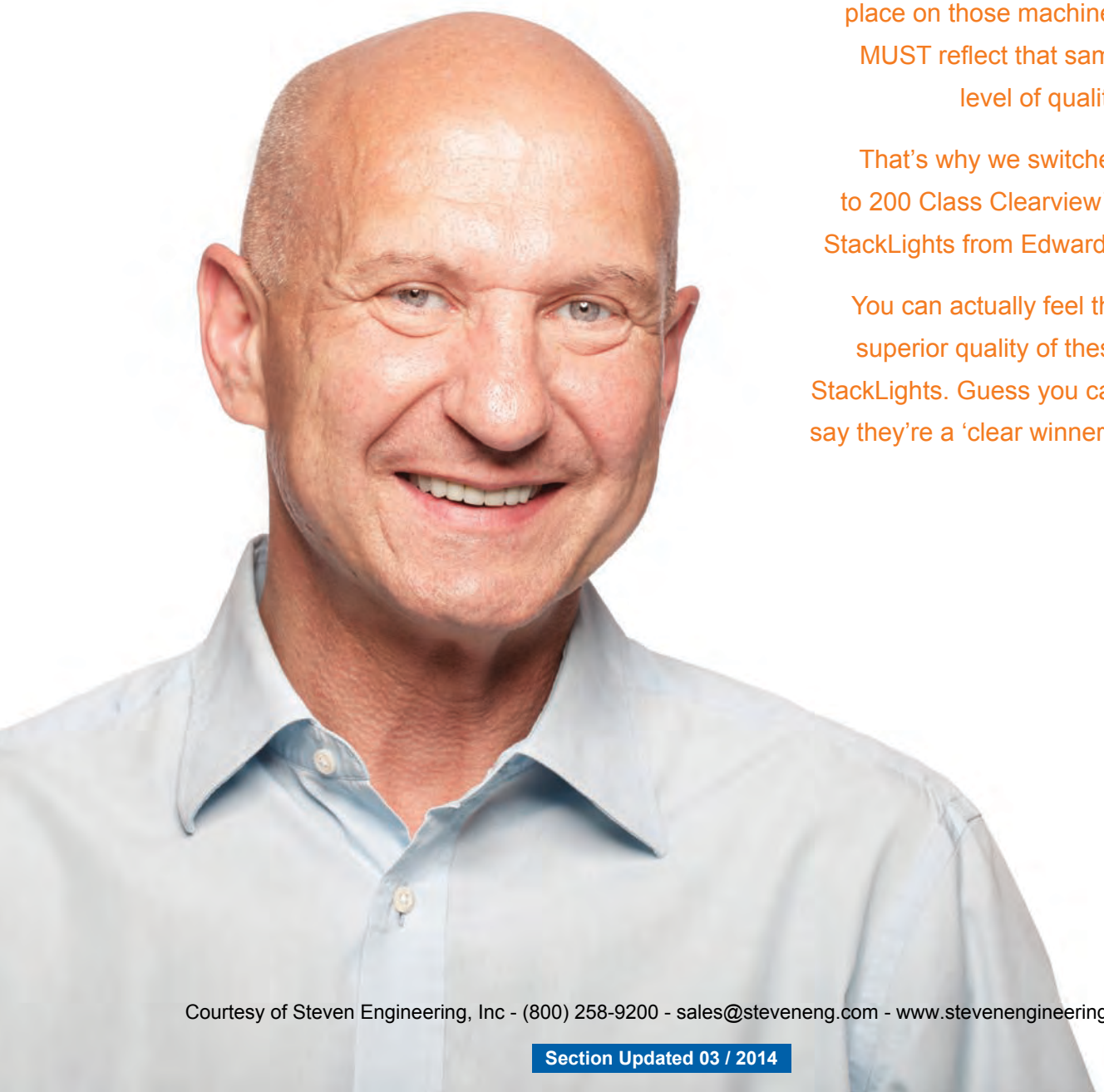
Clear Choice

"The machines my company builds are recognized around the world as the very best.

So the signaling devices we place on those machines MUST reflect that same level of quality.

That's why we switched to 200 Class Clearview™ StackLights from Edwards.

You can actually feel the superior quality of these StackLights. Guess you can say they're a 'clear winner'."



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Product Index

With 140 years of invention and the latest LED technology, Edwards offers the most versatile beacon solutions anywhere, with a dazzling convergence of form and function. Whether it's engineering quality, easy installation, low maintenance or high visual output, with Edwards' Visual Signals, you'll always see the difference.

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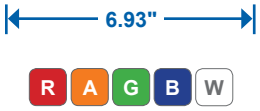
Solar Beacons
Multi-Mode LED
825 Class

NEW



R A G B W

The 825 Class Night Star Solar LED beacon is a self-contained, high-performance, low-maintenance and easy-to-install solar-powered light source suitable for a number of applications including obstruction lighting, industrial environments, wayfinding lighting and many others. All of the components are incorporated within a compact, stand-alone unit. The 825 also features a replaceable and recyclable battery pack that extends the service life beyond five years. The base and lens are made from a UV resistant, polycarbonate/polysilixane co-polymer with double O-ring sealing and a waterproof vent. The unit is available in blue, red, amber, green and white.

The 825 Class Night Star Solar LED beacon is the first solar product to incorporate intelligent deployment location settings that allow the 825 to be tuned to its location, protecting it against improper configuration. A microprocessor Energy Management System (EMS) monitors and adapts the brightness to environmental conditions for consistent operation and long life under the toughest conditions. These units are designed to operate from dusk to dawn and re-charge during daylight hours.

Easy configuration and programming options include an on-board user interface and Device Manager software through USB connection. The 825 is also available in a version that features an optional external on/off switch.

Features and Specifications

- Multi-mode (flashing or steady-on)
- LED light source
- Dusk-to-dawn operation
- Over 250 flash patterns
- Intuitive on-board user interface
- Replaceable and recyclable battery pack
- Intelligent deployment location settings to protect against improper configuration
- Optional external on/off switch
- IP68 rated
- Enclosure Class 6P
- Operating temperature range: -45ºF to 124ºF (-43ºC to 51ºC)

Ordering Information

Description	Cat. No.	LED Colors	Base Color	Candela Output	Replacement Battery Pack
Solar LED Beacon No Switch	**825SOLARA**	Amber	Gray	Color dependent. See chart, next page.	825BATTPK
	825SOLARB	Blue	Gray	Color dependent. See chart, next page	825BATTPK
	825SOLARG	Green	Gray	Color dependent. See chart, next page	825BATTPK
	825SOLARR	Red	Gray	Color dependent. See chart, next page	825BATTPK
	825SOLARW	White	Gray	Color dependent. See chart, next page	825BATTPK

124°F -45°F OP TEMP

LED

6P ENCLOSURE

IP68

TÜV Rheinland of North America, Inc. C US

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Solar Beacons
Multi-Mode LED
825 Class

NEW

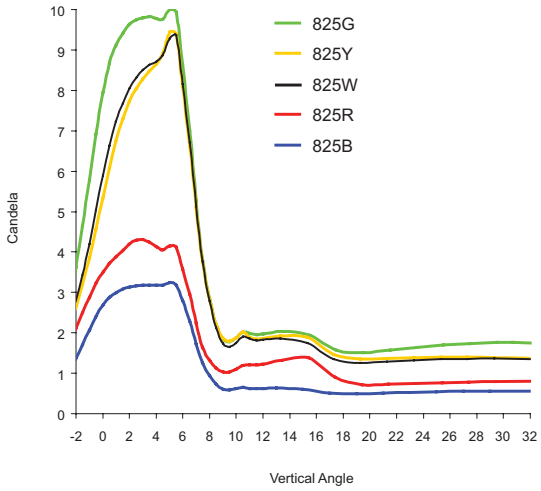
Ordering Information Continued

Description	Cat. No.	LED Colors	Base Color	Candela Output	Replacement Battery Pack
Solar LED Beacon With Switch	**825SOLARASW**	Amber	Gray	Color dependent. See chart below	825BATTPK
	825SOLARBSW	Blue	Gray	Color dependent. See chart below	825BATTPK
	825SOLARGSW	Green	Gray	Color dependent. See chart below	825BATTPK
	825SOLARRSW	Red	Gray	Color dependent. See chart below	825BATTPK
	825SOLARWSW	White	Gray	Color dependent. See chart below	825BATTPK

Accessories

Cat. No.	Description
825BIRD	Bird Deterrent (1 ships with each light)
825REPLKITSW	Bottom Cover Replacement Kit (w/switch)
825REPLKIT	Bottom Cover Replacement Kit (w/o switch)
825BATTPK	Battery Pack
825BATTCHG	Battery Charger
825BCTOOL	Bottom Cover Removal Tool
825USB	USB Cable for 825 Solar, A-type plug to Mini-B-type plug, 2m long
825DVM	825 Class Device Manager Software CD
825MP	825 Class Mounting Plate
825STBK	825 Class Standard Bolt Kit
825SECBK	825 Class Security Bolt Kit
825FFC	825 NS 1.5" Diameter Frangible Coupling
825FF	825 NS 1.5" Diameter Floor Flange
825FC	825 NS 2" to 1" Diameter Frangible Coupling
825MPFF	825 NS 2" Floor Flange
825FMK	825 Fence Mounting Kit

Candela Output

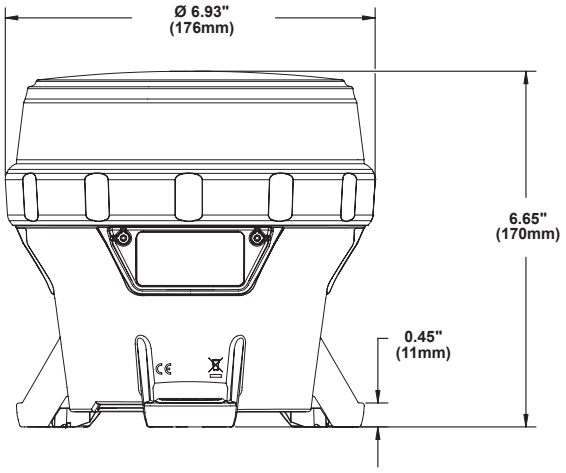


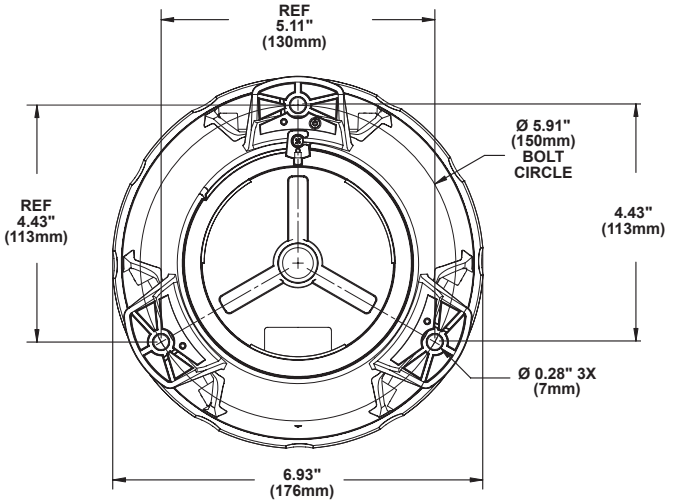
Solar Beacons
Multi-Mode LED
825 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
825SOLAR*	3.50	3.80
825SOLAR*SW	3.50	3.80

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red or W - white





Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Solar Beacons
Flashing LED
805 Class

NEW

Coming Soon

The 805 Class Solar LED Beacon is a self contained, economic and portable solar-powered LED light source. The 805 Class is powered by a nickel metal hydride (Ni-MH) battery, which allows the unit to operate up to 60 hours on a full charge. A full charge time is eight hours on a brightly lit sunny day. It comes with three super-bright LEDs that have a life expectancy of up to 70,000 hours. Each unit features an auto/off switch that allows the user to turn off the unit when not in use. When the switch is in the auto position, the unit will automatically turn on at dusk and off at dawn to preserve battery life. The lens and housing are constructed of a UV resistant polycarbonate.

Each unit comes with a mount that can be used for either surface or wall mounting. If used without the mounting base, the unit can be mounted on top of a typical traffic cone or any other similar type object.

Applications include obstruction marking, barricade marking, temporary construction zone marking or anywhere where electricity is not readily or easily available.

Features and Specifications

- LED light source
- Solar powered
- Auto/Off switch
- Flashing LED
- Flash rate 60 fpm (+/- 20)
- Ni-MH battery
- UV resistant polycarbonate lens and housing
- IP65 rated
- Operating temperature range: -4ºF to 140ºF (-20ºC to 60ºC)

Ordering Information

Description	Cat. No.	LED Color	Lamp Life
Mini Solar LED Beacon	**805SOLARW**	White	Up to 70,000 hours
	805SOLARA	Amber	Up to 70,000 hours
	805SOLARR	Red	Up to 70,000 hours
	805SOLARB	Blue	Up to 70,000 hours
	805SOLARG	Green	Up to 70,000 hours

Accessories

Description	Cat. No.
Mounting Base, Gray	**805BASE**

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions	
			Diameter (In.)	Height (In.)
805SOLARW	1.2	1.40	3.54	6.30
805SOLARA	1.2	1.40	3.54	6.30
805SOLARR	1.2	1.40	3.54	6.30
805SOLARB	1.2	1.40	3.54	6.30
805SOLARG	1.2	1.40	3.54	6.30
805BASE	0.6	1.04	3.54	2.84

140°F -4°F OP TEMP

LED

IP65 ENCLOSURE

StackLight™
200 Class
70mm Clearview™

NEW

The Edwards 200 Class 70mm ClearView™ LED StackLight is a versatile multi-mode signaling device that may contain up to five light modules, or four light modules with one sounder module in a single, integrated stack. The sounder module has been designed so that it is always in the top position.

The lens modules are clear, and are available with red, amber, blue, green and white LEDs. Options for steady-on or multi-mode are available. The lenses are made from a self-extinguishing polycarbonate material and are scratch and impact resistant.

Features and Specifications

- Steady-on or multi-mode (flashing or steady-on)
- LED light source
- Clear lens
- Interlocking system for quick assembly
- Available in gray or black
- Two optional NEMA Type 3R, IP54 rated sounders available:
  - Piezoelectric: 6 selectable tones
  - Magnetodynamic: 32 selectable tones
- Threaded footing must be ordered separately (not included with 270BC*)
- Additional mounting options available
- NEMA Type 4X rated
- IP66 rated base and light modules
- Operating temperature range: -22°F to 140°F (-30°C to 60°C)

Ordering Information

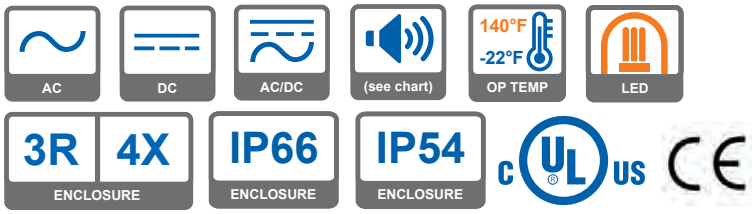
Description	Cat. No.*	Operating Temp.
Wiring Base and Cover - Gray	**270BC**[1]	-22°F to 140°F (-30°C to 60°C)

Module Type	Cat. No.*	Operating Voltage[2]	Current	LED Color	Operating Temp.
Gray Integrated LED Steady-on	**270CLEDSA24AD**	24V AC	0.085 A	Amber	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270CLEDSR24AD	24V AC	0.085 A	Red	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270CLEDSB24AD	24V AC	0.075 A	Blue	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270CLEDSG24AD	24V AC	0.075 A	Green	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270CLEDSW24AD	24V AC	0.075 A	White	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270CLEDSA120A	120V AC	0.035 A	Amber	-22°F to 122°F (-30°C to 50°C)
	270CLEDSR120A	120V AC	0.035 A	Red	
	270CLEDSB120A	120V AC	0.035 A	Blue	
	270CLEDSG120A	120V AC	0.035 A	Green	
	270CLEDSW120A	120V AC	0.035 A	White	

NOTE: Add "B" to end of the catalog number for Black unit.

[1]Threaded footing (270THF) is not included. Order separately.

[2]AC voltage frequency is 50/60 Hz



StackLight™
200 Class
70mm Clearview™

NEW

Ordering Information Continued

Module Type	Cat. No.*	Operating Voltage[1]	Current	Current A (flash) Single	Double	Triple	LED Color	Operating Temp.	Flash Rate
Gray Integrated LED Multi-mode	**270CLEDMA24AD**	24V AC	0.085 A	0.060	0.050	0.050	Amber	-22°F to 122°F (-30°C to 50°C)	Single - 75 fpm Double - 85 fpm Triple - 85 fpm
		24V DC	0.065 A	0.040	0.040	0.040			
	270CLEDMR24AD	24V AC	0.085 A	0.060	0.050	0.050	Red		
		24V DC	0.065 A	0.040	0.040	0.040			
	270CLEDMB24AD	24V AC	0.075 A	0.055	0.040	0.045	Blue		
		24V DC	0.065 A	0.040	0.040	0.040			
	270CLEDMG24AD	24V AC	0.075 A	0.055	0.040	0.045	Green		
		24V DC	0.065 A	0.040	0.040	0.040			
	270CLEDMW24AD	24V AC	0.075 A	0.055	0.040	0.045	White		
		24V DC	0.065 A	0.040	0.040	0.040			
	270CLEDMA120A	120V AC	0.035 A	0.025	0.020	0.025	Amber	-22°F to 122°F (-30°C to 50°C)	
	270CLEDMR120A	120V AC	0.035 A	0.025	0.020	0.025	Red		
	270CLEDMB120A	120V AC	0.035 A	0.025	0.020	0.020	Blue		
	270CLEDMG120A	120V AC	0.035 A	0.025	0.020	0.020	Green		
	270CLEDMW120A	120V AC	0.035 A	0.025	0.020	0.020	White		
Piezoelectric Acoustic - Gray (IP54)	**270PZO1248AD**	12V AC/DC	0.003 A					-22°F to 140°F (-30°C to 60°C)	
		24V AC/DC	0.006 A						
		48V AC/DC	0.013 A						
	270PZO120240A	120V AC	0.004 A					-22°F to 132.8°F (-30°C to 56°C)	
		240V AC	0.010 A						
Magnetodynamic Acoustic - Gray (IP54)	**270MDA1224AD**	See chart on next page						-22°F to 140°F (-30°C to 60°C)	
	270MDA120A							-22°F to 122°F (-30°C to 50°C)	
	270MDA240A								

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

StackLight™
200 Class
70mm Clearview™

70mm Magnetodynamic (MDA) Acoustic Module

		12V DC		24V DC		12V AC		24V AC		120V AC		240V AC	
Sound Type	F (Hz)[1]	A	dB	A	dB	A	dB	A	dB	A	dB	A	dB
Bi-tone	450/540	0.100	89	0.120	96	0.340	93	0.380	98	0.055	96	0.035	97
	600/700	0.125	90	0.150	97	0.380	93	0.450	99	0.065	97	0.035	98
	600/700	0.125	90	0.145	97	0.390	93	0.450	99	0.065	97	0.035	98
	800/970	0.170	93	0.190	100	0.485	95	0.550	101	0.075	99	0.040	100
	2400/2850	0.335	98	0.450	106	0.945	101	0.1060	107	0.0105	102	0.060	103
Bi-tone with pause	600/700	0.030	90	0.045	96	0.120	92	0.170	98	0.055	97	0.030	98
	1200/1700	0.045	95	0.060	99	0.170	98	0.230	101	0.060	99	0.035	100
	2400/2830	0.070	100	0.090	105	0.210	103	0.295	106	0.085	102	0.045	102
Fast bi-tone	800/970	0.170	93	0.190	100	0.485	95	0.555	101	0.075	99	0.040	100
Multi-tone	1000/1700	0.150	95	0.185	100	0.445	98	0.555	101	0.070	99	0.040	99
Multi-tone (buzzer)	800/970	0.110	93	0.140	97	0.370	96	0.440	99	0.060	97	0.035	98
	2400/2830	0.290	100	0.335	104	0.755	103	0.875	106	0.090	102	0.050	102
Slow multi-tone	800/970	0.110	95	0.140	99	0.350	98	0.440	101	0.060	99	0.035	100
	2400/2830	0.290	101	0.335	106	0.720	104	0.855	107	0.095	103	0.050	104
Fast multi-tone	800/970	0.110	93	0.140	98	0.350	96	0.435	99	0.060	97	0.035	98
	2400/2830	0.290	101	0.335	105	0.725	103	0.865	106	0.095	102	0.050	103
Intermittent multi-tone	500/1200	0.085	96	0.110	99	0.280	98	0.355	101	0.065	99	0.035	100
Descending multi-tone	1200/500	0.095	94	0.125	98	0.315	97	0.385	100	0.060	98	0.035	99
Evacuation	430/560	0.110	87	0.125	96	0.345	89	0.400	97	0.060	96	0.035	96
Intermittent	660	0.045	90	0.065	94	0.190	92	0.250	96	0.045	95	0.025	95
	660	0.045	91	0.070	95	0.190	93	0.240	97	0.055	96	0.030	96
	970	0.030	92	0.050	96	0.130	94	0.185	97	0.050	96	0.030	97
Fast intermittent	2830	0.200	97	0.240	102	0.600	100	0.705	103	0.080	99	0.045	99
	2850	0.170	96	0.205	101	0.550	99	0.585	102	0.075	99	0.040	99
Slow intermittent	660	0.050	91	0.070	95	0.175	93	0.240	97	0.055	96	0.030	96
	970	0.070	93	0.095	97	0.230	95	0.295	98	0.065	96	0.035	97
Linear	300	0.040	87	0.060	91	0.170	91	0.220	93	0.040	93	0.025	93
	500	0.065	90	0.090	94	0.235	94	0.290	96	0.050	95	0.030	96
	1000	0.125	92	0.160	97	0.385	94	0.485	98	0.065	96	0.035	97
	2830	0.320	98	0.360	102	0.770	100	0.915	104	0.095	99	0.055	100
Modulated	1000/1700	0.150	97	0.185	102	0.440	100	0.550	103	0.075	101	0.040	101
	1400/1600	0.165	95	0.205	100	0.470	98	0.595	102	0.075	99	0.040	99

[1]For AC voltages only

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

70mm Piezoelectric (PZO) Acoustic Module Dip Switch Settings

Sound Type	Diagram	F (Hz)[1]	12V DC/V AC		24V DC/V AC		48V DC/V AC		120V AC		240V AC	
			A	dB at 1m	A	dB at 1m	A	dB at 1m	A	dB at 1m	A	dB at 1m
Continuous reduced output		50/60	0.003	75	0.006	81	0.013	83	0.004	75	0.010	81
Continuous maximum output		50/60	0.003	79	0.006	85	0.013	89	0.004	81	0.010	87
Slow intermittent reduced output		50/60	0.003	72	0.006	77	0.013	79	0.004	76	0.010	78
Slow intermittent maximum output		50/60	0.003	77	0.006	84	0.013	86	0.004	81	0.010	85
Fast intermittent reduced output		50/60	0.003	74	0.006	79	0.013	81	0.004	76	0.010	79
Fast intermittent maximum output		50/60	0.003	78	0.006	85	0.013	87	0.004	81	0.010	85

[1]For AC voltages only

StackLight™
200 Class
70mm Clearview™

Accessories

Description	Cat. No.
Junction Box - Gray	**270JBX****
Footing with Extension - Gray	**270KIT****
Threaded Extension Pole 100mm - Gray	**270TEP****
Threaded Footing - Gray	**270THF****
Threaded Wall Mount - Gray	**270TWM****
Double Threaded Wall Mount - Gray	**270TWM2****
270 Flexible Steel Extension Rod - 370mm	**270FLXT**
270 Stainless Steel Extension Rod - 100mm	**270SSXT100**
270 Stainless Steel Extension Rod - 200mm	**270SSXT200**
270 Stainless Steel Extension Rod - 400mm	**270SSXT400**

NOTE: Add "B" to end of the catalog number for Black unit.

Junction Box

Threaded Footing

Footing with Extension

Threaded Extension Pole

100mm 200mm 400mm

Stainless Steel Extension Rod

370mm

Flexible Steel Extension Rod

Threaded Wall Mount

Double Threaded Wall Mount

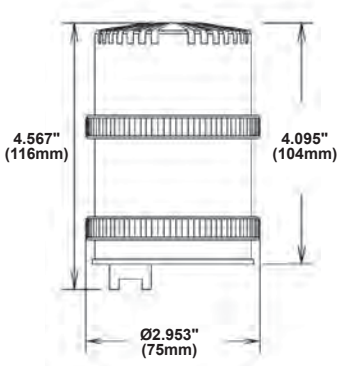
StackLight™
200 Class
70mm Clearview™

Weights and Dimensions

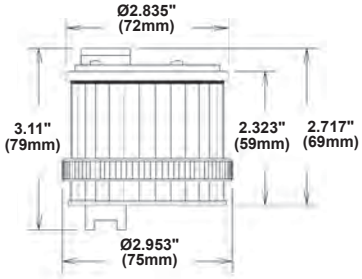
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
270BC	0.27	0.83
270CLEDS*24AD	0.24	0.81
270CLEDS*120A	0.24	0.81
270CLEDM*120A	0.24	0.81
270CLEDM*24AD	0.24	0.81
270PZO1248AD	0.29	1.04
270PZO120240A	0.29	1.04
270MDA1224AD	0.53	1.28
270MDA120A	0.53	1.28
270MDA240A	0.02	0.09
270JBX	0.22	0.09
270KIT	0.13	1.10
270TEP	0.07	0.22
270THF	0.07	0.29
270TWM	0.09	0.59
270TWM2	0.11	0.62
270FLXT	0.57	1.30
270SSXT100	0.31	1.28
270SSXT200	0.40	1.30
270SSXT400	0.62	1.50

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, or W - clear

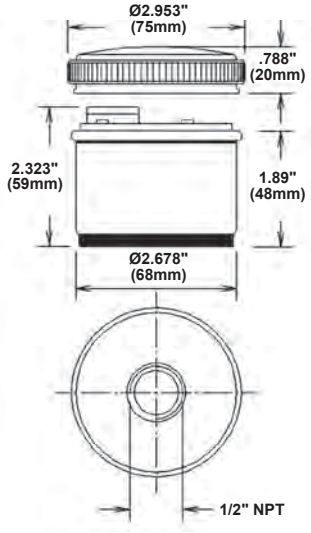
Acoustic Module



Light Module



Base and Cover



StackLight™
200 Class
70mm

NEW

Edwards 200 Class 70mm StackLight is a versatile signaling device that may contain up to five light modules, or four light modules with one sounder module in a single, integrated stack. The sounder module has been designed so that it is always in the top position.

The lens modules are available with LED, Incandescent or Xenon Strobe light sources. Options for steady-on, flashing or multi-mode are available. The lenses are made from a self-extinguishing polycarbonate material and are scratch and impact resistant.

Features and Specifications

- LED, Incandescent and Xenon Strobe light source
- Steady-on, flashing or multi-mode (flashing or steady-on)
- Interlocking system for quick assembly
- Available in gray or black
- Two optional NEMA Type 3R, IP54 rated sounders available:
  - Piezoelectric: 6 user selectable tones
  - Magnetodynamic: 32 user selectable tones
- Threaded footing must be ordered separately (not included with 270BC*)
- Additional mounting options available
- NEMA Type 4X rated
- IP66 rated base and light modules
- Operating temperature range: -22F° to 140°F (-30°C to 60°C)

2.95" R A Y G B W

Ordering Information

Description	Cat. No.*	Operating Temp.
Wiring Base and Cover - Gray	**270BC**[1]	-22°F to 140°F (-30°C to 60°C)

Module Type	Cat. No.*	Operating Voltage[2]	Current	Lens/LED Color	Operating Temp.
Gray Integrated LED Steady-on	**270LEDSA24AD**	24V AC	0.085 A	Amber	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270LEDSR24AD	24V AC	0.085 A	Red	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270LEDSY24AD	24V AC	0.085 A	Yellow	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270LEDSB24AD	24V AC	0.075 A	Blue	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270LEDSG24AD	24V AC	0.075 A	Green	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270LEDSW24AD	24V AC	0.075 A	Clear/White	-22°F to 122°F (-30°C to 50°C)
		24V DC	0.065 A		
	270LEDSA120A	120V AC	0.035 A	Amber	-22°F to 122°F (-30°C to 50°C)
	270LEDSR120A	120V AC	0.035 A	Red	
	270LEDSY120A	120V AC	0.035 A	Yellow	
	270LEDSB120A	120V AC	0.035 A	Blue	
	270LEDSG120A	120V AC	0.035 A	Green	
	270LEDSW120A	120V AC	0.035 A	Clear/White	
	270LEDSA240A	240V AC	0.035 A	Amber	-22°F to 122°F (-30°C to 50°C)
	270LEDSR240A	240V AC	0.035 A	Red	
	270LEDSY240A	240V AC	0.035 A	Yellow	
	270LEDSB240A	240V AC	0.035 A	Blue	
	270LEDSG240A	240V AC	0.035 A	Green	
	270LEDSW240A	240V AC	0.035 A	Clear/White	

NOTE: Add "B" to end of the catalog number for Black unit.

[1]Threaded footing (270THF) is not included. Order separately.

[2]AC voltage frequency is 50/60 Hz

AC | DC | AC/DC | (see chart) | 140°F -22°F OP TEMP | INCAND. | LED | XENON

3R 4X ENCLOSURE | IP66 ENCLOSURE | IP54 ENCLOSURE | c UL us | CE

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StackLight™
200 Class
70mm

NEW

Ordering Information
Continued

Module Type	Cat. No.*	Operating Voltage[1]	Current	Current (flash) Single	Current (flash) Double	Current (flash) Triple	Lens/LED Color	Operating Temp.	Flash Rate
Gray Integrated LED Multi-mode	**270LEDMA120A**	120V AC	0.035 A	0.025 A	0.020 A	0.025 A	Amber	-22°F to 122°F (-30°C to 50°C)	Single - 75 fpm Double - 85 fpm Triple - 85 fpm
	270LEDMR120A	120V AC	0.035 A	0.025 A	0.020 A	0.025 A	Red		
	270LEDMY120A	120V AC	0.035 A	0.025 A	0.020 A	0.025 A	Yellow		
	270LEDMB120A	120V AC	0.035 A	0.025 A	0.020 A	0.020 A	Blue	-22°F to 122°F (-30°C to 50°C)	
	270LEDMG120A	120V AC	0.035 A	0.025 A	0.020 A	0.020 A	Green		
	270LEDMW120A	120V AC	0.035 A	0.025 A	0.020 A	0.020 A	Clear/White		
	270LEDMA240A	240V AC	0.035 A	0.025 A	0.020 A	0.025 A	Amber	-22°F to 122°F (-30°C to 50°C)	
	270LEDMR240A	240V AC	0.035 A	0.025 A	0.020 A	0.025 A	Red		
	270LEDMY240A	240V AC	0.035 A	0.025 A	0.020 A	0.025 A	Yellow		
	270LEDMB240A	240V AC	0.035 A	0.025 A	0.025 A	0.020 A	Blue	-22°F to 122°F (-30°C to 50°C)	
	270LEDMG240A	240V AC	0.035 A	0.025 A	0.025 A	0.020 A	Green		
	270LEDMW240A	240V AC	0.035 A	0.025 A	0.025 A	0.020 A	Clear/White		
	270LEDMA24AD	24V AC	0.085 A	0.060 A	0.050 A	0.050 A	Amber	-22°F to 122°F (-30°C to 50°C)	
		24V DC	0.065 A	0.040 A	0.040 A	0.040 A			
	270LEDMR24AD	24V AC	0.085 A	0.060 A	0.050 A	0.050 A	Red	-22°F to 122°F (-30°C to 50°C)	
		24V DC	0.065 A	0.040 A	0.040 A	0.040 A			
	270LEDMY24AD	24V AC	0.085 A	0.060 A	0.050 A	0.050 A	Yellow	-22°F to 122°F (-30°C to 50°C)	
		24V DC	0.065 A	0.040 A	0.040 A	0.040 A			
	270LEDMB24AD	24V AC	0.075 A	0.055 A	0.040 A	0.045 A	Blue	-22°F to 122°F (-30°C to 50°C)	
		24V DC	0.065 A	0.040 A	0.040 A	0.040 A			
	270LEDMG24AD	24V AC	0.075 A	0.055 A	0.040 A	0.045 A	Green	-22°F to 122°F (-30°C to 50°C)	
		24V DC	0.065 A	0.040 A	0.040 A	0.040 A			
	270LEDMW24AD	24V AC	0.075 A	0.055 A	0.040 A	0.045 A	Clear/White	-22°F to 122°F (-30°C to 50°C)	
		24V DC	0.065 A	0.040 A	0.040 A	0.040 A			

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

StackLight™
200 Class
70mm

NEW

Ordering Information
Continued

Module Type	Cat. No.*	Operating Voltage[1]	Current	Lens/LED Color	Operating Temp.
Gray Steady-on LED or Incandescent Bulb (Sold separately)	**270SB12240AD**	12V AC/DC	0.430 A	Blue	-22°F to 140°F (-30°C to 60°C)
		24V AC/DC	0.210 A		
		48V AC/DC	0.100 A		
		110V AC	0.035 A		
		240V AC	0.022 A		
	270SA12240AD	12V AC/DC	0.430 A	Amber	-22°F to 140°F (-30°C to 60°C)
		24V AC/DC	0.210 A		
		48V AC/DC	0.100 A		
		110V AC	0.035 A		
		240V AC	0.022 A		
	270SR12240AD	12V AC/DC	0.430 A	Red	-22°F to 140°F (-30°C to 60°C)
		24V AC/DC	0.210 A		
		48V AC/DC	0.100 A		
		110V AC	0.035 A		
		240V AC	0.022 A		
	270SG12240AD	12V AC/DC	0.430 A	Green	-22°F to 140°F (-30°C to 60°C)
		24V AC/DC	0.210 A		
		48V AC/DC	0.100 A		
		110V AC	0.035 A		
		240V AC	0.022 A		
	270SY12240AD	12V AC/DC	0.430 A	Yellow	-22°F to 140°F (-30°C to 60°C)
		24V AC/DC	0.210 A		
		48V AC/DC	0.100 A		
		110V AC	0.035 A		
		240V AC	0.022 A		
	270SW12240AD	12V AC/DC	0.430 A	Clear/White	-22°F to 140°F (-30°C to 60°C)
		24V AC/DC	0.210 A		
		48V AC/DC	0.100 A		
		110V AC	0.035 A		
		240V AC	0.022 A		

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

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70mm

NEW

Ordering Information
Continued

Module Type	Cat. No.*	Operating Voltage[1]	Current	Lens/LED Color	Operating Temp.	Flash Rate
Gray Flashing LED or Incandescent Bulb (Sold separately)	**270FB24240A**	24V AC	0.210 A	Blue	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		48V AC	0.103 A			
		110V AC	0.037 A			
		240V AC	0.027 A			
	270FA24240A	24V AC	0.210 A	Amber	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		48V AC	0.103 A			
		110V AC	0.037 A			
		240V AC	0.027 A			
	270FR24240A	24V AC	0.210 A	Red	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		48V AC	0.103 A			
		110V AC	0.037 A			
		240V AC	0.027 A			
	270FG24240A	24V AC	0.210 A	Green	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		48V AC	0.103 A			
		110V AC	0.037 A			
		240V AC	0.027 A			
	270FY24240A	24V AC	0.210 A	Yellow	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		48V AC	0.103 A			
		110V AC	0.037 A			
		240V AC	0.027 A			
	270FW24240A	24V AC	0.210 A	Clear/White	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		48V AC	0.103 A			
		110V AC	0.037 A			
		240V AC	0.027 A			
	270FB1248D	12V DC	0.430 A	Blue	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		24V DC	0.210 A			
		48V DC	0.103 A			
	270FA1248D	12V DC	0.430 A	Amber	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		24V DC	0.210 A			
		48V DC	0.103 A			
	270FR1248D	12V DC	0.430 A	Red	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		24V DC	0.210 A			
		48V DC	0.103 A			
	270FG1248D	12V DC	0.430 A	Green	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		24V DC	0.210 A			
		48V DC	0.103 A			
	270FY1248D	12V DC	0.430 A	Yellow	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		24V DC	0.210 A			
		48V DC	0.103 A			
	270FW1248D	12V DC	0.430 A	Clear/White	-22°F to 140°F (-30°C to 60°C)	110 fpm (+/-20)
		24V DC	0.210 A			
		48V DC	0.103 A			

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

StackLight™
200 Class
70mm

NEW

Ordering Information Continued

Module Type	Cat. No.*	Operating Voltage[1]	Current	Lens/LED Color	Operating Temp.	Flash Rate
Gray Xenon Strobe Modules	**270STRB120A**	120V AC	0.048 A	Blue	14°F to 109.4°F (-10°C to 43°C)	90 fpm (+/-20)
	270STRB240A	240V AC	0.055 A			90 fpm (+/-20)
	270STRB24AD	24V AC/DC	0.280 A		14°F to 105.8°F (-10°C to 41°C)	65 fpm (+/-10)
	270STRA120A	120V AC	0.048 A	Amber	14°F to 109.4°F (-10°C to 43°C)	90 fpm (+/-20)
	270STRA240A	240V AC	0.055 A			90 fpm (+/-20)
	270STRA24AD	24V AC/DC	0.280 A		14°F to 105.8°F (-10°C to 41°C)	65 fpm (+/-10)
	270STRR120A	120V AC	0.048 A	Red	14°F to 109.4°F (-10°C to 43°C)	90 fpm (+/-20)
	270STRR240A	240V AC	0.055 A			90 fpm (+/-20)
	270STRR24AD	24V AC/DC	0.280 A		14°F to 105.8°F (-10°C to 41°C)	65 fpm (+/-10)
	270STRG120A	120V AC	0.048 A	Green	14°F to 109.4°F (-10°C to 43°C)	90 fpm (+/-20)
	270STRG240A	240V AC	0.055 A			90 fpm (+/-20)
	270STRG24AD	24V AC/DC	0.280 A		14°F to 105.8°F (-10°C to 41°C)	65 fpm (+/-10)
	270STRY120A	120V AC	0.048 A	Yellow	14°F to 109.4°F (-10°C to 43°C)	90 fpm (+/-20)
	270STRY240A	240V AC	0.055 A			90 fpm (+/-20)
	270STRY24AD	24V AC/DC	0.280 A		14°F to 105.8°F (-10°C to 41°C)	65 fpm (+/-10)
	270STRW120A	120V AC	0.048 A	Clear/White	14°F to 109.4°F (-10°C to 43°C)	90 fpm (+/-20)
	270STRW240A	240V AC	0.055 A			90 fpm (+/-20)
	270STRW24AD	24V AC/DC	0.280 A		14°F to 105.8°F (-10°C to 41°C)	65 fpm (+/-10)
Gray Piezoelectric Acoustic (IP54)	**270PZO1248AD**	12V AC/DC	0.003 A		-22°F to 140°F (-30°C to 60°C)	
		24V AC/DC	0.006 A			
		48V AC/DC	0.013 A			
	270PZO120240A	120V AC	0.004 A		-22°F to 132.8°F (-30°C to 56°C)	
		240V AC	0.010 A			
Gray Magnetodynamic Acoustic (IP54)	**270MDA1224AD**	See chart on page 1-20			-22°F to 140°F (-30°C to 60°C)	
	270MDA120A				-22°F to 122°F (-30°C to 50°C)	
	270MDA240A					

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

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StackLight™
200 Class
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Bulbs

Description	Cat. No.	Operating Voltage	LED Color
LED Bulb	**270LEDB120V**	120V AC	Blue
	270LEDA120V	120V AC	Amber
	270LEDR120V	120V AC	Red
	270LEDG120V	120V AC	Green
	270LEDW120V	120V AC	White
	270LEDB240V	230/240V AC	Blue
	270LEDA240V	230/240V AC	Amber
	270LEDR240V	230/240V AC	Red
	270LEDG240V	230/240V AC	Green
	270LEDW240V	230/240V AC	White
	270LEDB12V	12V AC/DC	Blue
	270LEDA12V	12V AC/DC	Amber
	270LEDR12V	12V AC/DC	Red
	270LEDG12V	12V AC/DC	Green
	270LEDW12V	12V AC/DC	White
	270LEDB24V	24V AC/DC	Blue
	270LEDA24V	24V AC/DC	Amber
	270LEDR24V	24V AC/DC	Red
	270LEDG24V	24V AC/DC	Green
	270LEDW24V	24V AC/DC	White
5W Incandescent Bulb	**2705W120V**	120V AC	
5W Incandescent Bulb-25 Pack	**2705W120V25PK**	120V AC	
5W Incandescent Bulb	**2705W240V**	240V AC	
5W Incandescent Bulb-25 Pack	**2705W240V25PK**	240V AC	
5W Incandescent Bulb	**2705W12V**	12V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W12V25PK**	12V AC/DC	
5W Incandescent Bulb	**2705W24V**	24V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W24V25PK**	24V AC/DC	
5W Incandescent Bulb	**2705W48V**	48V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W48V25PK**	48V AC/DC	

70mm Piezoelectric (PZO) Acoustic Module Dip Switch Settings

			12V DC/V AC		24V DC/V AC		48V DC/V AC		120V AC		240V AC	
Sound Type	Diagram	F (Hz)[1]	A	dB at 1m	A	dB at 1m	A	dB at 1m	A	dB at 1m	A	dB at 1m
Continuous reduced output		50/60	0.003	75	0.006	81	0.013	83	0.004	75	0.010	81
Continuous maximum output		50/60	0.003	79	0.006	85	0.013	89	0.004	81	0.010	87
Slow intermittent reduced output		50/60	0.003	72	0.006	77	0.013	79	0.004	76	0.010	78
Slow intermittent maximum output		50/60	0.003	77	0.006	84	0.013	86	0.004	81	0.010	85
Fast intermittent reduced output		50/60	0.003	74	0.006	79	0.013	81	0.004	76	0.010	79
Fast intermittent maximum output		50/60	0.003	78	0.006	85	0.013	87	0.004	81	0.010	85

[1]For AC voltages only

StackLight™
200 Class
70mm

70mm Magnetodynamic (MDA) Acoustic Module

Sound Type	F (Hz)[1]	12V DC A	12V DC dB	24V DC A	24V DC dB	12V AC A	12V AC dB	24V AC A	24V AC dB	120V AC A	120V AC dB	240V AC A	240V AC dB
Bi-tone	450/540	0.100	89	0.120	96	0.340	93	0.380	98	0.055	96	0.035	97
	600/700	0.125	90	0.150	97	0.380	93	0.450	99	0.065	97	0.035	98
	600/700	0.125	90	0.145	97	0.390	93	0.450	99	0.065	97	0.035	98
	800/970	0.170	93	0.190	100	0.485	95	0.550	101	0.075	99	0.040	100
	2400/2850	0.335	98	0.450	106	0.945	101	0.1060	107	0.0105	102	0.060	103
Bi-tone with pause	600/700	0.030	90	0.045	96	0.120	92	0.170	98	0.055	97	0.030	98
	1200/1700	0.045	95	0.060	99	0.170	98	0.230	101	0.060	99	0.035	100
	2400/2830	0.070	100	0.090	105	0.210	103	0.295	106	0.085	102	0.045	102
Fast bi-tone	800/970	0.170	93	0.190	100	0.485	95	0.555	101	0.075	99	0.040	100
Multi-tone	1000/1700	0.150	95	0.185	100	0.445	98	0.555	101	0.070	99	0.040	99
Multi-tone (buzzer)	800/970	0.110	93	0.140	97	0.370	96	0.440	99	0.060	97	0.035	98
	2400/2830	0.290	100	0.335	104	0.755	103	0.875	106	0.090	102	0.050	102
Slow multi-tone	800/970	0.110	95	0.140	99	0.350	98	0.440	101	0.060	99	0.035	100
	2400/2830	0.290	101	0.335	106	0.720	104	0.855	107	0.095	103	0.050	104
Fast multi-tone	800/970	0.110	93	0.140	98	0.350	96	0.435	99	0.060	97	0.035	98
	2400/2830	0.290	101	0.335	105	0.725	103	0.865	106	0.095	102	0.050	103
Intermittent multi-tone	500/1200	0.085	96	0.110	99	0.280	98	0.355	101	0.065	99	0.035	100
Descending multi-tone	1200/500	0.095	94	0.125	98	0.315	97	0.385	100	0.060	98	0.035	99
Evacuation	430/560	0.110	87	0.125	96	0.345	89	0.400	97	0.060	96	0.035	96
Intermittent	660	0.045	90	0.065	94	0.190	92	0.250	96	0.045	95	0.025	95
	660	0.045	91	0.070	95	0.190	93	0.240	97	0.055	96	0.030	96
	970	0.030	92	0.050	96	0.130	94	0.185	97	0.050	96	0.030	97
Fast intermittent	2830	0.200	97	0.240	102	0.600	100	0.705	103	0.080	99	0.045	99
	2850	0.170	96	0.205	101	0.550	99	0.585	102	0.075	99	0.040	99
Slow intermittent	660	0.050	91	0.070	95	0.175	93	0.240	97	0.055	96	0.030	96
	970	0.070	93	0.095	97	0.230	95	0.295	98	0.065	96	0.035	97
Linear	300	0.040	87	0.060	91	0.170	91	0.220	93	0.040	93	0.025	93
	500	0.065	90	0.090	94	0.235	94	0.290	96	0.050	95	0.030	96
	1000	0.125	92	0.160	97	0.385	94	0.485	98	0.065	96	0.035	97
	2830	0.320	98	0.360	102	0.770	100	0.915	104	0.095	99	0.055	100
Modulated	1000/1700	0.150	97	0.185	102	0.440	100	0.550	103	0.075	101	0.040	101
	1400/1600	0.165	95	0.205	100	0.470	98	0.595	102	0.075	99	0.040	99

[1]For AC voltages only

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StackLight™
200 Class
70mm

Accessories

Description	Cat. No.
Junction Box - Gray	**270JBX***
Footing with Extension - Gray	**270KIT***
Threaded Extension Pole 100mm - Gray	**270TEP***
Threaded Footing - Gray	**270THF***
Threaded Wall Mount - Gray	**270TWM***
Double Threaded Wall Mount - Gray	**270TWM2***
270 Flexible Steel Extension Rod - 370mm	**270FLXT**
270 Stainless Steel Extension Rod - 100mm	**270SSXT100**
270 Stainless Steel Extension Rod - 200mm	**270SSXT200**
270 Stainless Steel Extension Rod - 400mm	**270SSXT400**

NOTE: Add "B" to end of the catalog number for Black unit.

Junction Box

Threaded Footing

Footing with Extension

Threaded Extension Pole

100mm 200mm 400mm

Stainless Steel Extension Rod

370mm

Flexible Steel Extension Rod

Threaded Wall Mount

Double Threaded Wall Mount

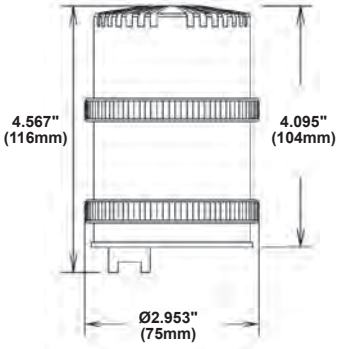
StackLight™
200 Class
70mm

Weights and Dimensions

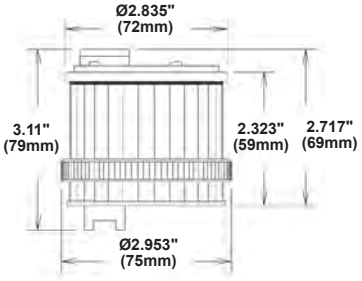
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
270BC	0.27	0.83
270LEDS*24AD	0.24	0.81
270LEDS*120A	0.24	0.81
270LEDS*240A	0.24	0.81
270LEDM*120A	0.24	0.81
270LEDM*240A	0.24	0.81
270LEDM*24AD	0.24	0.81
270S*12240AD	0.20	0.76
270F*24240A	0.22	0.78
270F*1248D	0.22	0.78
270STR*120A	0.29	0.85
270STR*240A	0.29	0.85
270STR*24AD	0.29	0.85
270PZO1248AD	0.29	1.04
270PZO120240A	0.29	1.04
270MDA1224AD	0.53	1.28
270MDA120A	0.53	1.28
270MDA240A	0.02	0.09
270LED*120V	0.02	0.09
270LED*240V	0.02	0.09
270LED*12V	0.02	0.09
270LED*24V	0.02	0.09
2705W120V	0.01	0.09
2705W240V	0.01	0.09
2705W12V	0.01	0.09
2705W24V	0.01	0.09
2705W48V	0.01	0.09
270JBX	0.22	0.09
270KIT	0.13	1.10
270TEP	0.07	0.22
270THF	0.07	0.29
270TWM	0.09	0.60
270TWM2	0.11	0.62
270FLXT	0.57	1.30
270SSXT100	0.31	1.28
270SSXT200	0.40	1.30
270SSXT400	0.62	1.50

*Letter in this position designates lens color: A - amber, R - red, Y - yellow, B - blue, G - green, W - clear

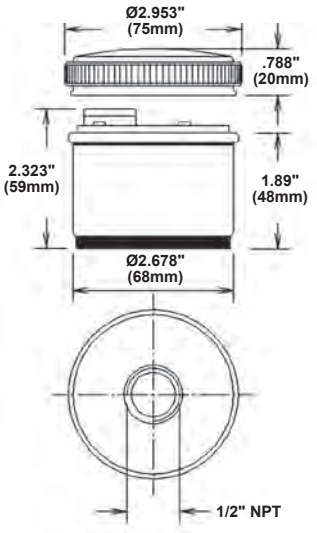
Acoustic Module



Light Module



Base and Cover



StackLight™
200 Class
48mm

NEW

Edwards 200 Class 48mm StackLight is a versatile signaling device that may contain up to five light modules, or four light modules with one sounder module in a single, integrated stack. The sounder module has been designed so that it is always in the top position.

The lens modules are available with LED light sources as a multi-mode device. The lenses are made from a self-extinguishing polycarbonate material and are scratch and impact resistant.

Features and Specifications

- Multi-mode (flashing or steady-on)
- LED light source
- dB rating: 77dB @ 1 meter/67dB @ 10ft.
- Interlocking system for quick assembly
- Available in gray or black
- Additional mounting options available
- One optional NEMA Type 3R, IP54 rated sounder available:
  - Magnetodynamic: one single tone
- NEMA Type 4X rated
- IP66 rated base and light modules
- Operating temperature range: -22F° to 122°F (-30°C to 50°C)

Ordering Information

Description	Cat. No.*
Wiring Base, Cover and Foot - Gray	**248BC**

Module Type	Cat. No.*	Operating Voltage[1]	Current	LED Color
Gray LED Multi-mode Lens Modules	**248LEDMB120A**	120V AC	0.065 A	Blue
	248LEDMA120A	120V AC	0.065 A	Amber
	248LEDMR120A	120V AC	0.065 A	Red
	248LEDMG120A	120V AC	0.065 A	Green
	248LEDMY120A	120V AC	0.065 A	Yellow
	248LEDMW120A	120V AC	0.065 A	White
	248LEDMB240A	240V AC	0.055 A	Blue
	248LEDMA240A	240V AC	0.055 A	Amber
	248LEDMR240A	240V AC	0.055 A	Red
	248LEDMG240A	240V AC	0.055 A	Green
	248LEDMY240A	240V AC	0.055 A	Yellow
	248LEDMW240A	240V AC	0.055 A	White
	248LEDMB24AD	24V AC/DC	0.030 A	Blue
	248LEDMA24AD	24V AC/DC	0.030 A	Amber
	248LEDMR24AD	24V AC/DC	0.030 A	Red
	248LEDMG24AD	24V AC/DC	0.030 A	Green
	248LEDMY24AD	24V AC/DC	0.030 A	Yellow
	248LEDMW24AD	24V AC/DC	0.030 A	White
Gray Magnetodynamic Acoustic Modules	**248MDA120A**	120V AC	0.010 A	
	248MDA240A	240V AC	0.015 A	
	248MDA24AD	24V AC/DC	0.130 A	

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

AC | AC/DC | 77/67 dB | 122°F -22°F OP TEMP | LED

3R 4X ENCLOSURE | IP66 ENCLOSURE | IP54 ENCLOSURE | c UL us | CE

StackLight™
200 Class
48mm

Accessories

Description	Cat. No.
Junction Box - Gray	**270JBX***
Footing with Extension - Gray	**270KIT***
Threaded Extension Pole 100mm - Gray	**270TEP***
Threaded Footing - Gray	**270THF***
Threaded Wall Mount - Gray	**270TWM***
Double Threaded Wall Mount - Gray	**270TWM2***
270 Flexible Steel Extension Rod - 370mm	**270FLXT**
270 Stainless Steel Extension Rod - 100mm	**270SSXT100**
270 Stainless Steel Extension Rod - 200mm	**270SSXT200**
270 Stainless Steel Extension Rod - 400mm	**270SSXT400**

NOTE: Add "B" to end of the catalog number for Black unit.

Junction Box

Threaded Footing

Footing with Extension

Threaded Extension Pole

100mm 200mm 400mm

Stainless Steel Extension Rod

370mm

Flexible Steel Extension Rod

Threaded Wall Mount

Double Threaded Wall Mount

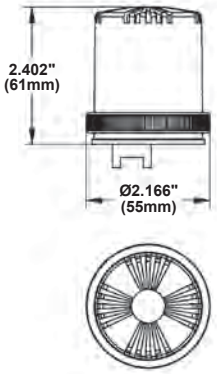
StackLight™
200 Class
48mm

Weights and Dimensions

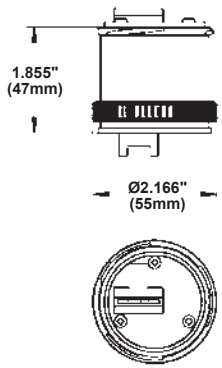
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
248BC	0.22	0.72
248LEDM*120A	0.10	0.54
248LEDM*240A	0.10	0.54
248LEDM*24AD	0.10	0.54
248MDA120A	0.40	0.84
248MDA240A	0.40	0.84
248MDA24AD	0.40	0.84
270JBX	0.22	0.09
270KIT	0.13	1.10
270TEP	0.07	0.22
270THF	0.07	0.29
270TWM	0.09	0.59
270TWM2	0.11	0.62
270FLXT	0.57	1.30
270SSXT100	0.31	1.28
270SSXT200	0.40	1.30
270SSXT400	0.62	1.50

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, W - clear or Y - yellow

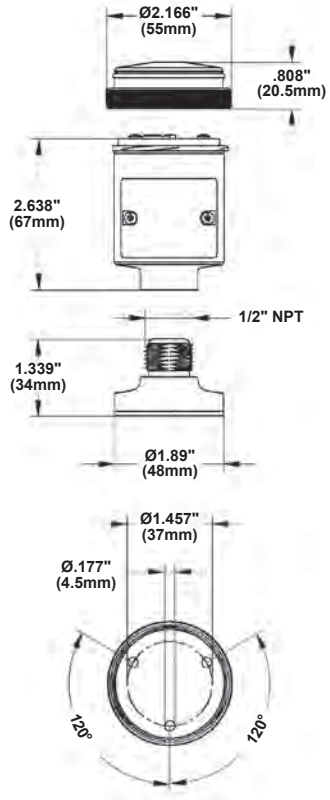
Acoustic Module



LED Module



Base, Cover and Foot



StackLight™
200 Class
36mm

NEW

Edwards 200 Class 36mm StackLight is a versatile signaling device that may contain up to six light modules, or five light modules with one sounder module in a single, integrated stack. The sounder module has been designed so that it is always in the top position.

The lens modules are available as steady-on, LED light sources. The lenses are made from a self-extinguishing polycarbonate material and are scratch and impact resistant.

Features and Specifications

- LED light source
- Steady-on
- dB rating: 72dB @ 1 meter/62dB @ 10ft.
- Interlocking system for quick assembly
- Available in gray or black
- One optional IP54 rated sounder available:
  - Piezoelectric: one single tone
- Additional mounting options available
- NEMA Type 3R rated
- IP65 rated base and light modules
- Operating temperature range: -22F° to 122°F (-30°C to 50°C)

1.77"

R A Y G B W

Ordering Information

Description	Cat. No.*
Wiring Base and Foot - Gray	**236BC**

Module Type	Cat. No.*	Operating Voltage[1]	Current	LED Color
Gray LED Steady-on	**236LEDSB24AD**	24V AC/DC	0.050 A	Blue
	236LEDSA24AD	24V AC/DC	0.045 A	Amber
	236LEDSR24AD	24V AC/DC	0.050 A	Red
	236LEDSG24AD	24V AC/DC	0.040 A	Green
	236LEDSY24AD	24V AC/DC	0.045 A	Yellow
	236LEDSW24AD	24V AC/DC	0.050 A	White
Gray - Piezoelectric Acoustic	**236PZO**	24V AC/DC	0.010 A	

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

AC/DC | 72/62 dB | 122°F -22°F OP TEMP | LED

3R ENCLOSURE | IP65 ENCLOSURE | IP54 ENCLOSURE | c UL us | CE

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

StackLight™
200 Class
36mm

Accessories

Description	Cat. No.
Junction Box - Gray	**270JBX***
Footing with Extension - Gray	**270KIT***
Threaded Extension Pole 100mm - Gray	**270TEP***
Threaded Footing - Gray	**270THF***
Threaded Wall Mount - Gray	**270TWM***
Double Threaded Wall Mount - Gray	**270TWM2***
270 Flexible Steel Extension Rod - 370mm	**270FLXT**
270 Stainless Steel Extension Rod - 100mm	**270SSXT100**
270 Stainless Steel Extension Rod - 200mm	**270SSXT200**
270 Stainless Steel Extension Rod - 400mm	**270SSXT400**

NOTE: Add "B" to end of the catalog number for Black unit.

Junction Box

Threaded Footing

Footing with Extension

Threaded Extension Pole

100mm 200mm 400mm

Stainless Steel Extension Rod

370mm

Flexible Steel Extension Rod

Threaded Wall Mount

Double Threaded Wall Mount

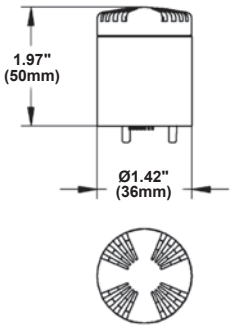
StackLight™
200 Class
36mm

Weights and Dimensions

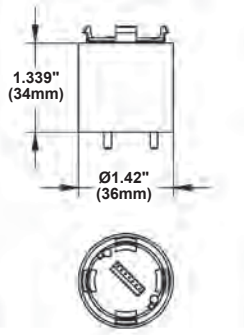
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
236BC	0.12	0.33
236LEDS*24AD	0.04	0.24
236PZO	0.10	0.30
270JBX	0.22	0.09
270KIT	0.13	1.10
270TEP	0.07	0.22
270THF	0.07	0.29
270TWM	0.09	0.59
270TWM2	0.11	0.62
270FLXT	0.57	1.30
270SSXT100	0.31	1.28
270SSXT200	0.40	1.30
270SSXT400	0.62	1.50

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, W - clear or Y - yellow

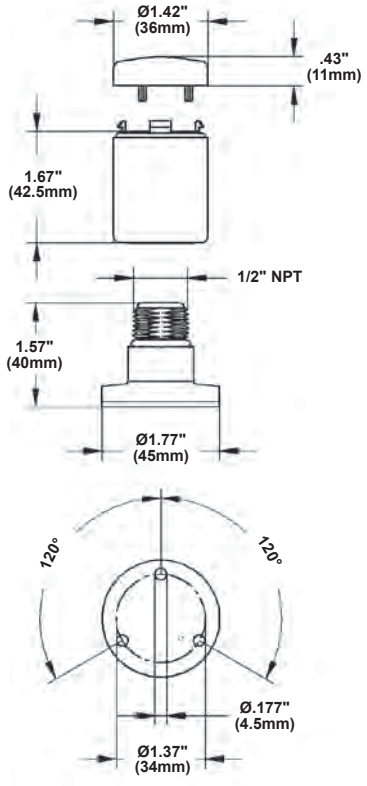
Acoustic Module



LED Module



Base and Cover



StackLight™
200 Class
25mm

NEW

Edwards 200 Class 25mm StackLight is a versatile signaling device that may contain up to six light modules, or five light modules with one sounder module in a single, integrated stack. The sounder module has been designed so that it is always in the top position.

The lens modules are available as steady-on, LED light sources. The lenses are made from a self-extinguishing polycarbonate material and are scratch and impact resistant.

Features and Specifications

- LED light source
- Steady-on
- dB rating: 65dB @ 1 meter/55dB @ 10ft.
- Interlocking system for quick assembly
- Available in gray or black
- One optional IP54 rated sounder available:
  - Piezoelectric: one single tone
- IP65 rated base and light module
- Operating temperature range: -22F° to 122°F (-30°C to 50°C)

1.77"

R A Y G B W

Ordering Information

Description	Cat. No.*
Base and Cover - Gray	**225BC**

Module Type	Cat. No.*	Operating Voltage[1]	Current	LED Color
Gray LED Steady-on	**225LEDSB24AD**	24V AC/DC	0.030 A	Blue
	225LEDSA24AD	24V AC/DC	0.030 A	Amber
	225LEDSR24AD	24V AC/DC	0.030 A	Red
	225LEDSG24AD	24V AC/DC	0.025 A	Green
	225LEDSY24AD	24V AC/DC	0.030 A	Yellow
	225LEDSW24AD	24V AC/DC	0.035 A	White
Gray - Piezoelectric Acoustic	**225PZO**	24V AC/DC	0.005 A	

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

AC/DC | 65/55 dB | 122°F -22°F OP TEMP | LED

IP65 ENCLOSURE | IP54 ENCLOSURE | c UL us | CE

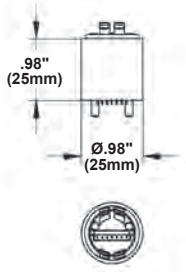
StackLight™
200 Class
25mm

Weights and Dimensions

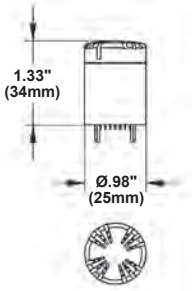
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
225BC	0.06	0.27
225LEDS*24AD	0.02	0.09
225PZO	0.04	0.11

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, W - clear or Y - yellow

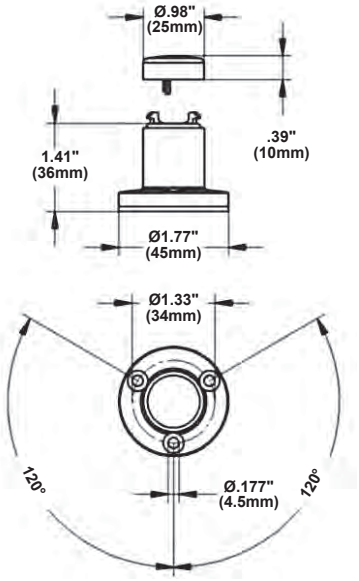
LED Module



Acoustic Module



Base and Cover



StackLight™
200 Class
18mm

NEW

Edwards 200 Class 18mm StackLight is a versatile signaling device that may contain up to five light modules in a single, integrated stack.

The lens modules are available as steady-on, LED light sources. The lenses are made from a self-extinguishing polycarbonate material and are scratch and impact resistant. There is no sounder module available on the 18mm StackLight.

Features and Specifications

- LED light source
- Steady-on
- Interlocking system for quick assembly
- Available in gray or black
- No sounder module available
- IP65 base and light module
- Operating temperature range: -22F° to 122°F (-30°C to 50°C)

1.26"

R A Y G B W

Ordering Information

Description	Cat. No.*
Base and Cover - Gray	**218BC**

Module Type	Cat. No.*	Operating Voltage[1]	Current	LED Color
Gray LED Steady-on	**218LEDSB24AD**	24V AC/DC	0.015 A	Blue
	218LEDSA24AD	24V AC/DC	0.015 A	Amber
	218LEDSR24AD	24V AC/DC	0.015 A	Red
	218LEDSG24AD	24V AC/DC	0.015 A	Green
	218LEDSY24AD	24V AC/DC	0.015 A	Yellow
	218LEDSW24AD	24V AC/DC	0.015 A	White

NOTE: Add "B" to end of the catalog number for Black unit.

[1]AC voltage frequency is 50/60 Hz

AC/DC | 122°F -22°F OP TEMP | LED | IP65 ENCLOSURE | c UL us | CE

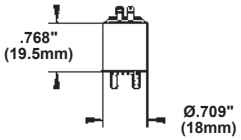
StackLight™
200 Class
18mm

Weights and Dimensions

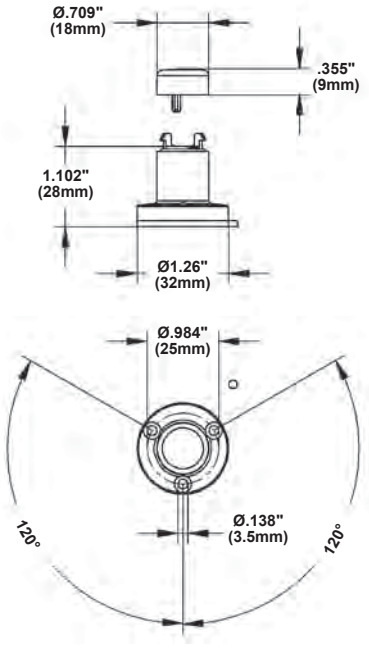
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
218BC	0.03	0.24
218LEDS*24AD	0.01	0.09

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, W - clear or Y- yellow

LED Module



Base and Cover



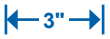
StackLight™
102 Series

Edwards 102 Series StackLight is a unique audible-visual signaling device that may contain up to five light modules and a pulsating horn in a single, integrated stack. Two optional sounder modules are also available. The Triliptical diffusion optic lens allows viewing from close up while still projecting the light through use of a built-in projection ring.

The lens modules are available with LED, Incandescent, Halogen or Strobe light sources. Options for steady-on or flashing are available. The 102 Series offers a shorter base for panel or conduit mounting as well as a taller base, designed for use with a sounder module.

Features and Specifications

- LED, Incandescent, Halogen and Strobe light source
- Steady-on or flashing
- Six lens colors available
- Two optional IP54 sounders available:
  - Single tone module
  - Multi-tone module, eight available tones
- Sounder modules provide 89dB @ 1 meter/ 79dB @ 10ft.
- Base and light modules are IP65 rated
- Suitable for indoor and outdoor applications
- Option for panel or conduit mounting
- NEMA Type 3R and 4X enclosure
- Optional mounting not included



Ordering Information

Description	Cat. No.	Operating Voltage	Current[1]
Base Unit - Use with optional tone module	**102TBS-N5**	120V AC	0.60 A
	102TBS-G1	24V DC	1.75 A
Mini base for direct panel mount	**102DMBS-N5**	120V AC	0.60 A
	102DMBS-G1	24V DC	1.75 A
Mini base for 3/4" (19mm) conduit mount	**102PMBS-N5**	120V AC	0.60 A
	102PMBS-G1	24V DC	1.75 A

[1]Currents shown are for a stackable with 5 light modules.

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens/LED Colors	Peak Candela	Lamp Ratings	Lamp Life Calculated[2]	Lamp Life Projected[3]	Replacement Lamp
Lens Module	**102LM-A**	—	—	Amber	—	—	—	—	—
	102LM-B	—	—	Blue	—	—	—	—	—
	102LM-C	—	—	Clear	—	—	—	—	—
	102LM-G	—	—	Green	—	—	—	—	—
	102LM-R	—	—	Red	—	—	—	—	—
	102LM-Y	—	—	Yellow	—	—	—	—	—
Steady-on Halogen	**102LS-SINH-N5**	120V AC	0.11 A	—	879	12 Watts	20,000 hr.	—	50LMP-12WH
	102LS-SINH-G1	24V DC	0.32 A	—	653	9 Watts	12,000 hr.	—	50LMP-9WH
Steady-on Incandescent	**102LS-SIN-N5**	120V AC	0.08 A	—	829	10 Watts	2,500 hr.	—	50LMP-10W
	102LS-SIN-G1	24V DC	0.32 A	—	829	10 Watts	10,000 hr.	—	Ind. Trade 303[5]
Flashing Halogen	**102LS-FINH-N5**	120V AC	0.11 A	—	879	12 Watts	20,000 hr.	25,000 hr.	50LMP-12WH
	102LS-FINH-G1	24V DC	0.32 A	—	653	9 Watts	12,000 hr.	15,000 hr.	50LMP-9WH
Flashing Incandescent	**102LS-FIN-N5**	120V AC	0.08 A	—	829	10 Watts	2,500 hr.	3,000 hr.	50LMP-10W
	102LS-FIN-G1	24V DC	0.32 A	—	829	10 Watts	10,000 hr.	12,500 hr.	Ind. Trade 303[5]
Strobe	**102LS-ST-N5**	120V AC	0.12 A	—	300,000	3 Joule	3,000 hr.[4]	—	—
	102LS-ST-G1	24V DC	0.30 A	—	300,000	3 Joule	3,000 hr.[4]	—	—
Steady-on LED	**102LS-SLEDA-N5[1]** **102LS-SLEDA-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Amber	—	—	120,000 hr.	—	—
	102LS-SLEDB-N5[1] **102LS-SLEDB-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Blue	—	—	120,000 hr.	—	—
	102LS-SLEDG-N5[1] **102LS-SLEDG-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Green	—	—	120,000 hr.	—	—
	102LS-SLEDR-N5[1] **102LS-SLEDR-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Red	—	—	120,000 hr.	—	—
	102LS-SLEDW-N5[1] **102LS-SLEDW-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Clear/ White	—	—	120,000 hr.	—	—

[1]NOTE: LED light sources must be used with the corresponding color lens module (e.g., a blue LED light source, 102LS-SLEDB-G1, must be used with a blue lens, 102LM-B).
[2]At nominal operating voltage.
[3]Projected lamp life based on manufacturer's calc. lamp life @ 65 fpm and 50% duty cycle.
[4]Strobe tube life @ operating power to 75% efficiency.
[5]User supplied

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Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens/LED Colors	Peak Candela	Lamp Ratings	Lamp Life Calculated[2]	Lamp Life Projected[3]	Replacement Lamp
Flashing LED	**102LS-FLEDA-N5[1]** **102LS-FLEDA-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Amber	—	—	120,000 hr.	—	—
	102LS-FLEDB-N5[1] **102LS-FLEDB-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Blue	—	—	120,000 hr.	—	—
	102LS-FLEDG-N5[1] **102LS-FLEDG-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Green	—	—	120,000 hr.	—	—
	102LS-FLEDR-N5[1] **102LS-FLEDR-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Red	—	—	120,000 hr.	—	—
	102LS-FLEDW-N5[1] **102LS-FLEDW-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Clear/ White	—	—	120,000 hr.	—	—
Optional Tone Module	**102SIGST-N5**	120V AC	0.05 A	—	—	—	—	—	—
	102SIGST-G1	24V DC	0.05 A	—	—	—	—	—	—
	102SIGMT-N5	120V AC	0.05 A	—	—	—	—	—	—
	102SIGMT-G1	24V DC	0.05 A	—	—	—	—	—	—

[1]NOTE: LED light sources must be used with the corresponding color lens module (e.g., a blue LED light source, 102LS-SLEDB-G1, must be used with a blue lens, 102LM-B).
[2]At nominal operating voltage.
[3]Projected lamp life based on manufacturer's calc. lamp life @ 65 fpm and 50% duty cycle.

Ordering Information

Description	Cat. No.	Operating Voltage	Lens Colors
Pre-Assembled Three High Steady-On Incandescent Models with pipe mount base	**102SIN-RGA-N5**	120V AC	Red, Green, Amber
	102SIN-RBA-N5	120V AC	Red, Blue, Amber
	102SIN-RGA-G1	24V DC	Red, Green, Amber
	102SIN-RBA-G1	24V DC	Red, Blue, Amber

Accessories

Description		Cat. No.
Pipe Mount Flange		**102PMF**
Pipe Extensions (for use with Pipe Mount Flange)	4"	**102MP-4**
	10"	**102MP-10**
	15"	**102MP-15**
Corner Mount Bracket		**CBR**
Wall Mount Bracket		**WBR**

102PMF
Pipe Mount Flange

102MP-10
Pipe Extensions

102MP-4
Pipe Extensions

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
102SIGST-N5	120V AC	0.005	0.070	.35 A / .5 millisecond
102SIGST-G1	24V DC	0.005	0.050	.24 A / .2 millisecond
102SIGMT-N5	120V AC	0.005	0.070	.35 A / .5 millisecond
102SIGMT-G1	24V DC	0.005	0.050	.24 A / .2 millisecond
102LS-SIN-N5	120V AC	0.025	0.080	.15 A / 8 millisecond
102LS-SIN-G1	24V DC	0.025	0.032	.36 A / 1 millisecond
102LS-SINH-N5	120V AC	0.025	0.110	.5 A / 8 millisecond
102LS-SINH-G1	24V DC	0.025	0.320	.36 A / 1 millisecond
102LS-FIN-N5	120V AC	0.025	0.080	.3 A / 8 millisecond
102LS-FIN-G1	24V DC	0.025	0.032	1.4 A / 100 millisecond
102LS-FINH-N5	120V AC	0.025	0.110	1.15 A / 8 millisecond
102LS-FINH-G1	24V DC	0.025	0.320	1.2 A / 100 millisecond
102LS-ST-N5	120V AC	0.005	0.120	50 A / 1 millisecond
102LS-ST-G1	24V DC	0.0015	0.300	.33 A / 1 millisecond
102LS-SLED*-N5	120V AC	0.005	0.025	.09 A / 8 millisecond
102LS-SLED*-G1	24V DC	0.005	0.065	.025 A / 1 millisecond
102LS-FLED*-N5	120V AC	0.005	0.025	.09 A / 8 millisecond
102LS-FLED*-G1	24V DC	0.005	0.065	.07 A / 1 millisecond

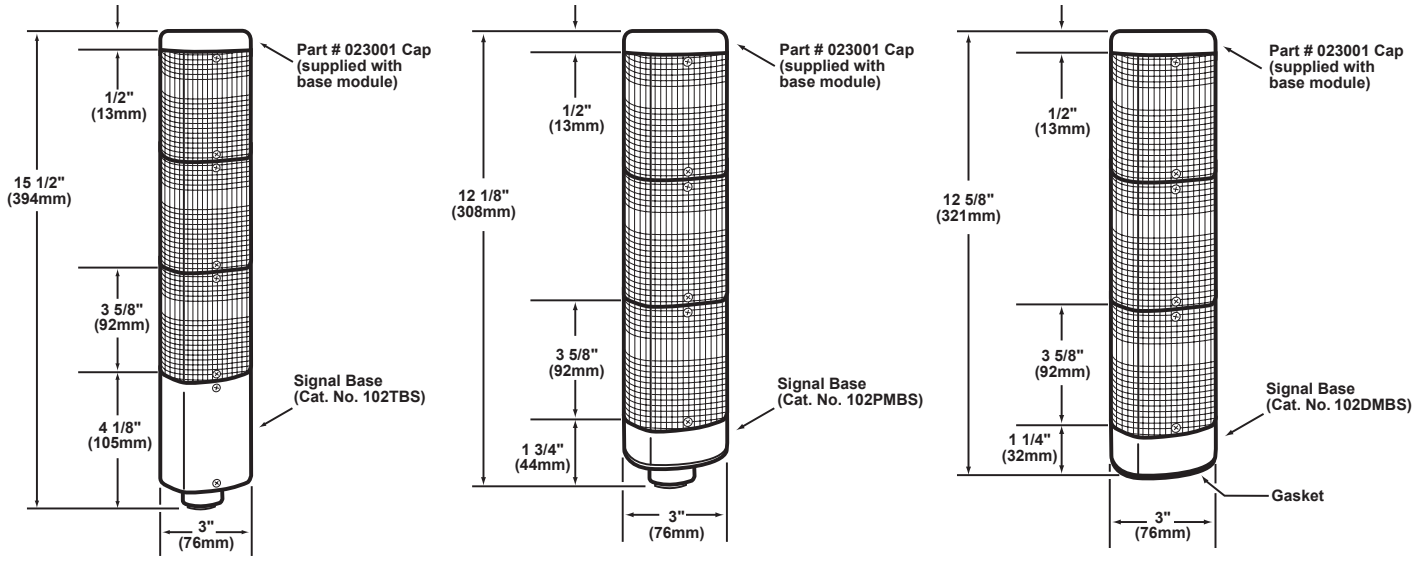
*Letter in this position designates lens and LED color: A - amber, B - blue, G - green, R - red or W - white

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
102DMBS-G1	0.38	0.48
102DMBS-N5	0.38	0.48
102LM-*	0.33	0.43
102LS-FIN-G1	0.70	0.80
102LS-FINH-G1	0.70	0.80
102LS-FINH-N5	0.70	0.80
102LS-FIN-N5	0.70	0.80
102LS-FLED*-G1	0.70	0.80
102LS-FLED*-N5	0.70	0.80
102LS-SIN-G1	0.70	0.80
102LS-SINH-G1	0.70	0.80
102LS-SINH-N5	0.70	0.80
102LS-SIN-N5	0.70	0.80
102LS-SLED*-G1	0.70	0.80
102LS-SLED*-N5	0.70	0.80
102LS-ST-G1	0.70	0.80
102LS-ST-N5	0.70	0.80
102MP-10	0.83	0.83
102MP-15	1.14	1.14
102MP-4	0.31	0.31
102PMBS-G1	0.38	0.48
102PMBS-N5	0.38	0.48
102PMF	0.58	0.68
102SIGMT-DN-G1	0.26	0.36
102SIGMT-G1	0.26	0.36
102SIGMT-N5	0.26	0.36
102SIGST-G1	0.26	0.36
102SIGST-N5	0.26	0.36
102SIN-RBA-G1	1.44	1.61
102SIN-RBA-N5	1.44	1.61
102SIN-RGA-G1	1.44	1.61
102SIN-RGA-N5	1.44	1.61
102TBS-DN-G1	0.40	0.50
102TBS-DN-N5	0.40	0.50
102TBS-G1	0.45	0.55
102TBS-N5	0.45	0.55
102TBS-N5	0.45	0.55

*Letter in this position designates lens/LED color: A - amber, B - blue, G - green, R - red, or W - clear/white



Technical Information

How to order Triliptical StackLight

To build a StackLight, one base unit and the required number of lens modules and light sources need to be ordered. For example, to build a 120V AC, two high, steady incandescent StackLight on a direct mount base, order (one) 102DMBS-N5, (two) 102LM (in required colors), and (two) 102LS-SIN-N5.

Base Unit

102 + — —

Cat. No.	Options	Voltage
102	TBS = Use with optional tone module. Wiring terminals, 3/4" (19mm) conduit mount*	G1 = 24V DC N5 = 120V AC
	DMBS = Mini base for direct panel mount*	
	PMBS = Mini base for 3/4" (19mm) conduit mount*	

*Cap included

Tone Module

102 + — —

Cat. No.	Options	Voltage
102	SIGST = Optional Single-Tone Module	G1 = 24V DC N5 = 120V AC
	SIGMT = Optional Multi-Tone Module	

Lens Modules

102 + LM —

Cat. No.	Options	Lens Color
102	LM = Lens module	A = Amber B = Blue C = Clear G = Green R = Red Y = Yellow

Light Sources

102 + LS — —

Cat. No.	Light	Type	Color (LED Only)	Voltage
102	LS = Light Source	SINH = Steady-On halogen	A = Amber B = Blue G = Green R = Red W = White	G1 = 24V DC N5 = 120V AC
		FINH = Flashing halogen		
		SIN = Steady-On standard incandescent		
		FIN = Flashing standard incandescent		
		ST = Strobe		
		SLED = Steady-On LED		
		FLED = Flashing LED		

StackLight™
101 Series

Edwards 101 Series StackLight is a versatile signaling device that may contain up to five light modules and a pulsating horn in a single, integrated stack. The 85dB pulsating horn can be operated as a sixth independent signal or in conjunction with any one of the five light modules available.

The lens modules are available with LED, Incandescent or Strobe light sources. Options for steady-on, flashing or multi-mode are available. Ideal for heavy-duty use in locations where visibility over longer distances is required.

Features and Specifications

- LED, Incandescent, Halogen and Strobe light source
- Steady-on, flashing or multi-mode (flashing or steady-on)
- Base unit includes a pulsating horn, 95dB at 1 meter/85dB at 10 feet
- Option for panel or conduit mounting
- Can be mounted for use in indoor or outdoor applications (lens facing up for outdoor use).
- Designed for 4" octagonal box mounting

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens/ LED Colors	Lamp Life	Flash Rate	Replacement Horns	Replacement Lamps
Base Unit with Horn	**101BS-N5**	120V AC	0.05 A	—	—	—	123A-N5	—
	101BS-E1	12V DC	0.05 A	—	—	—	P-047570-0743	—
	101BS-G1	24V DC	0.05 A	—	—	—	P-047570-0743	—

Module Type	Cat. No.	Operating Voltage	Current	Lens/ LED Colors	Lamp Life	Flash Rate	Peak Candela	Replacement Lamps
Steady-on Incandescent	**101SINR-E1**	12V DC	1.0 A	Red	1,520 hours[2]	—	2374	Industry trade No. 94[4]
	101SING-E1	12V DC	1.0 A	Green	1,520 hours[2]	—	2374	
	101SINA-E1	12V DC	1.0 A	Amber	1,520 hours[2]	—	2374	
	101SINB-E1	12V DC	1.0 A	Blue	1,520 hours[2]	—	2374	
	101SINM-E1	12V DC	1.0 A	Magenta	1,520 hours[2]	—	2374	
	101SINC-E1	12V DC	1.0 A	Clear	1,520 hours[2]	—	2374	
Steady-on Halogen	**101SINHR-G1**	24V DC	0.32 A	Red	15,000 hours[2]	—	653	50LMP–9WH-D or industry trade no. 1692[3,4]
	101SINHG-G1	24V DC	0.32 A	Green	15,000 hours[2]	—	653	
	101SINHA-G1	24V DC	0.32 A	Amber	15,000 hours[2]	—	653	
	101SINHB-G1	24V DC	0.32 A	Blue	15,000 hours[2]	—	653	
	101SINHM-G1	24V DC	0.32 A	Magenta	15,000 hours[2]	—	653	
	101SINHC-G1	24V DC	0.32 A	Clear	15,000 hours[2]	—	653	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at 65 fpm and 50% duty cycle
[3]Incandescent lamp
[4]User supplied

Ordering Information Continued

ModuleType	Cat. No.	Operating Voltage[1]	Current	Lens/ LED Colors	Lamp Life	Flash Rate	Peak Candela	Replacement Lamps
Steady-on Halogen (continued)	**101SINHR-N5**	120V AC	0.11 A	Red	25,000 hours[2]	—	876	50LMP–9WH-D or industry trade no. 1692[4,5]
	101SINHG-N5	120V AC	0.11 A	Green	25,000 hours[2]	—	876	
	101SINHA-N5	120V AC	0.11 A	Amber	25,000 hours[2]	—	876	
	101SINHB-N5	120V AC	0.11 A	Blue	25,000 hours[2]	—	876	
	101SINHM-N5	120V AC	0.11 A	Magenta	25,000 hours[2]	—	876	
	101SINHC-N5	120V AC	0.11 A	Clear	25,000 hours[2]	—	876	
Flashing Incandescent	**101FINR-E1**	12V DC	1.0 A	Red	1,520 hours[2]	65 fpm	2374	Industry trade No. 94[5]
	101FING-E1	12V DC	1.0 A	Green	1,520 hours[2]		2374	
	101FINA-E1	12V DC	1.0 A	Amber	1,520 hours[2]		2374	
	101FINB-E1	12V DC	1.0 A	Blue	1,520 hours[2]		2374	
	101FINM-E1	12V DC	1.0 A	Magenta	1,520 hours[2]		2374	
	101FINC-E1	12V DC	1.0 A	Clear	1,520 hours[2]		2374	
Flashing Halogen	**101FINHR-G1**	24V DC	0.32 A	Red	15,000 hours[2]	65 fpm	653	50LMP–9WH-D or industry trade no. 1692[4,5]
	101FINHG-G1	24V DC	0.32 A	Green	15,000 hours[2]		653	
	101FINHA-G1	24V DC	0.32 A	Amber	15,000 hours[2]		653	
	101FINHB-G1	24V DC	0.32 A	Blue	15,000 hours[2]		653	
	101FINHM-G1	24V DC	0.32 A	Magenta	15,000 hours[2]		653	
	101FINHC-G1	24V DC	0.32 A	Clear	15,000 hours[2]		653	
	101FINHR-N5	120V AC	0.11 A	Red	25,000 hours[2]	65 fpm	876	50LMP–12WH-D or industry trade no. 15T7DC[4,5]
	101FINHG-N5	120V AC	0.11 A	Green	25,000 hours[2]		876	
	101FINHA-N5	120V AC	0.11 A	Amber	25,000 hours[2]		876	
	101FINHB-N5	120V AC	0.11 A	Blue	25,000 hours[2]		876	
	101FINHM-N5	120V AC	0.11 A	Magenta	25,000 hours[2]		876	
	101FINHC-N5	120V AC	0.11 A	Clear	25,000 hours[2]		876	
Strobe	**101STR-E1**	12V DC	0.5 A	Red	3,000 hours[3]	65 fpm	300,000	91B-ST
	101STG-E1	12V DC	0.5 A	Green	3,000 hours[3]		300,000	
	101STA-E1	12V DC	0.5 A	Amber	3,000 hours[3]		300,000	
	101STB-E1	12V DC	0.5 A	Blue	3,000 hours[3]		300,000	
	101STM-E1	12V DC	0.5 A	Magenta	3,000 hours[3]		300,000	
	101STC-E1	12V DC	0.5 A	Clear	3,000 hours[3]		300,000	
	101STR-G1	24V DC	0.3 A	Red	3,000 hours[3]	65 fpm	300,000	91B-ST
	101STG-G1	24V DC	0.3 A	Green	3,000 hours[3]		300,000	
	101STA-G1	24V DC	0.3 A	Amber	3,000 hours[3]		300,000	
	101STB-G1	24V DC	0.3 A	Blue	3,000 hours[3]		300,000	
	101STM-G1	24V DC	0.3 A	Magenta	3,000 hours[3]		300,000	
	101STC-G1	24V DC	0.3 A	Clear	3,000 hours[3]		300,000	
	101STR-N5	120V AC	0.12 A	Red	3,000 hours[3]	65 fpm	300,000	91B-ST
	101STG-N5	120V AC	0.12 A	Green	3,000 hours[3]		300,000	
	101STA-N5	120V AC	0.12 A	Amber	3,000 hours[3]		300,000	
	101STB-N5	120V AC	0.12 A	Blue	3,000 hours[3]		300,000	
	101STM-N5	120V AC	0.12 A	Magenta	3,000 hours[3]		300,000	
	101STC-N5	120V AC	0.12 A	Clear	3,000 hours[3]		300,000	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at 65 fpm and 50% duty cycle
[3]Operating power to 75% efficiency
[4]Incandescent lamp
[5]User supplied

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

StackLight™ 101 Series

NEW

Ordering Information Continued

Module Type	Cat. No.	Operating Voltage[1]	Current	Lens/ LED Colors	Lamp Life	Flash Rate	Replacement Horns	Replacement Lamps
Multi-mode XBR LED	**101XBRMR120A**	120V AC	0.108 A	Red	148,000 hours (L70)[2]	65 fpm	—	—
	101XBRMG120A	120V AC	0.108 A	Green			—	—
	101XBRMA120A	120V AC	0.108 A	Amber			—	—
	101XBRMB120A	120V AC	0.108 A	Blue			—	—
	101XBRMW120A	120V AC	0.108 A	Clear/White			—	—
	101XBRMR24D	24V DC	0.215 A	Red	148,000 hours (L70)[2]	65 fpm	—	—
	101XBRMG24D	24V DC	0.215 A	Green			—	—
	101XBRMA24D	24V DC	0.215 A	Amber			—	—
	101XBRMB24D	24V DC	0.215 A	Blue			—	—
	101XBRMW24D	24V DC	0.215 A	Clear/White			—	—

[1]AC voltage frequency is 50/60 Hz
[2]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and $T_{junction}$ 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

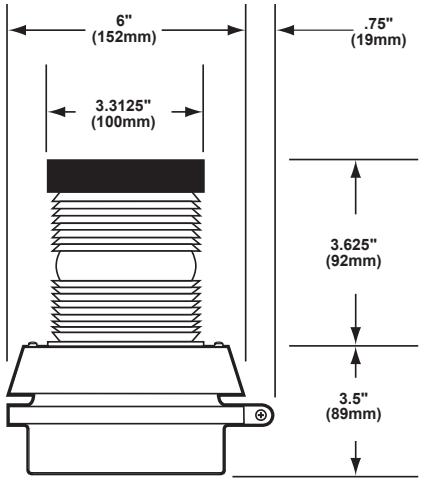
Cat. No.	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
101BS-N5	120V AC	0.025	0.050	2 A / 1 millisecond
101BS-G1	24V DC	0.025	0.050	2 A / 1 millisecond
101SINH*-N5	120V AC	0.025	0.110	0.5 A / 8 millisecond
101SINH*-G1	24V DC	0.025	0.320	0.36 A / 1 millisecond
101FINH*-N5	120V AC	0.025	0.110	1.15 A / 8 millisecond
101FINH*-G1	24V DC	0.025	0.320	1.2 A / 100 millisecond
101ST*-N5	120V AC	0.005	0.120	2.1 A / 1 millisecond
101ST*-G1	24V DC	0.0015	0.300	0.33 A / 1 millisecond
101XBRM120A**	120V AC	0.005	0.108	37.5 A / 164 microseconds
101XBRM24D**	24V DC	0.003	0.215	34.5 A / 52 microseconds

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, C - Clear, or M - magenta
**Letter in this position designates lens/LED color: A - amber, B - blue, G - green, R - red, or W - clear/white

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
101BS-N5	1.40	1.74
101BS-E1	1.40	1.74
101BS-G1	1.40	1.74
101SIN*-E1	0.63	0.79
101SINH*-G1	0.63	0.79
101SINH*-N5	0.63	0.79
101FIN*-E1	0.66	0.82
101FINH*-N5	0.66	0.82
101FINH*-G1	0.66	0.82
101ST*-N5	0.72	0.88
101ST*-E1	0.72	0.88
101ST*-G1	0.72	0.88
101XBRM**	0.81	0.97

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, C - Clear, or M - magenta
**Letter in this position designates lens/LED color: A - amber, B - blue, G - green, R - red, or W - clear/white



Beacons
Multi-Status LED
125XBRi Class

NEW

Edwards 125XBRi Series XTRA-BRITE™ LED multi-status indicator is a UL and cUL listed, multi-color visual signaling device. It features a corrosion resistant NEMA Type 4X enclosure and can be panel or conduit mounted. The base is manufactured from a 33% glass filled nylon, providing high resistance to heat and high chemical resistivity. The lens is made of shatter resistant polycarbonate.

Features and Specifications

- LED light source
- High-impact polycarbonate lens
- Gray or black glass filled nylon base
- XTRA-SAFE™ Technology[1] enables status indication for those who are color blind
- Dip switch settings for use with or without external control
- Flash rates
  - – Red 240 fpm
  - – Amber 120 fpm
  - – Green/Blue 65 fpm
- NEMA Type 4X enclosure
- Suitable for indoor and outdoor applications
- Option for panel or conduit mounting
- Operating temperature range: -31F° to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	LED Colors	Projected LED Life (L70)[3]	Replacement Lens
Multi-status Indicator LED - Gray Base	**125XBRiRGA120A**	120V AC	0.100 A	Red, Green, Amber	148,000 hours	125LC*
	125XBRiRBA120A	120V AC	0.100 A	Red, Blue, Amber	148,000 hours	125LC*
	125XBRiRGA24D	24V DC	0.150 A	Red, Green, Amber	148,000 hours	125LC*
	125XBRiRBA24D	24V DC	0.150 A	Red, Blue, Amber	148,000 hours	125LC*
Multi-status Indicator LED - Black Base	**125XBRiRGA120AB**	120V AC	0.100 A	Red, Green, Amber	148,000 hours	125LC*
	125XBRiRBA120AB	120V AC	0.100 A	Red, Blue, Amber	148,000 hours	125LC*
	125XBRiRGA24DB	24V DC	0.150 A	Red, Green, Amber	148,000 hours	125LC*
	125XBRiRBA24DB	24V DC	0.150 A	Red, Blue, Amber	148,000 hours	125LC*

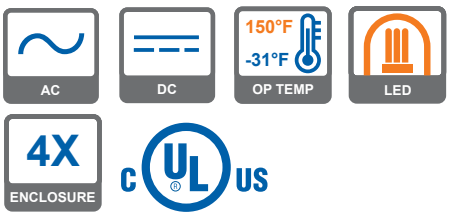
*Clear
[1]See website for more information on our XTRA-SAFE Technology
[2]AC voltage frequency is 50/60 Hz
[3]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85°C and $T_{junction}$ 98°C). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket



Beacons
Multi-Status LED
125XBRi Class

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

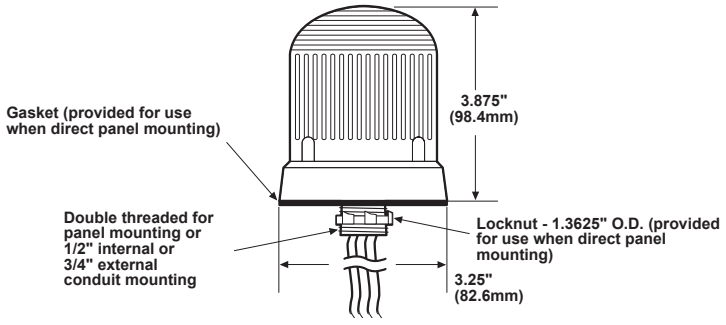
Cat. No.	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
125XBRiRGA120A	120 VAC	0.0012	0.100	15 A / 30 µSeconds
125XBRiRBA120A	120 VAC	0.0012	0.100	15 A / 30 µSeconds
125XBRiRGA24D	24 VDC	0.0012	0.150	10.5 A / 78 µSeconds
125XBRiRBA24D	24 VDC	0.0012	0.150	10.5 A / 78 µSeconds
125XBRiRGA120AB	120 VAC	0.0012	0.100	15 A / 30 µSeconds
125XBRiRBA120AB	120 VAC	0.0012	0.100	15 A / 30 µSeconds
125XBRiRGA24DB	24 VDC	0.0012	0.150	10.5 A / 78 µSeconds
125XBRiRBA24DB	24 VDC	0.0012	0.150	10.5 A / 78 µSeconds

[1]AC voltage frequency is 50/60 Hz

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125XBRi*120A	0.25	0.50
125XBRi120A**	0.25	0.50
125XBRi*24D	0.25	0.50
125XBRi24D**	0.25	0.50
125XBRi*120AB	0.25	0.50
125XBRi120AB**	0.25	0.50
125XBRi*24DB	0.25	0.50
125XBRi24DB**	0.25	0.50
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: R - red, G - green, A - amber
**Letter in this position designates lens color: R - red, B - blue, A - amber



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Multi-Status LED
105XBRi Series

NEW

Edwards 105XBRi Series XTRA-BRITE™ LED multi-status indicator is a UL and cUL listed, multicolor visual signaling device. It features a corrosion resistant NEMA Type 4X enclosure, listed for Marine use, and can be wall, surface or pipe mounted. The base is manufactured from from glass-reinforced thermoplastic polyester resin, providing high resistance to heat and high chemical resistivity. The double Fresnel lens is made of shatter resistant polycarbonate.

Features and Specifications

- LED light source
- Screw on, high-impact polycarbonate lens
- Gray Rynite® (PET) base
- XTRA-SAFE™ Technology[1] enables status indication for those who are color blind
- Dip switch settings for use with or without external control
- Flash rates
  - – Red 240 fpm
  - – Amber 120 fpm
  - – Green/Blue 65 fpm
- NEMA Type 4X enclosure
- Class I, Div. 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III
- Suitable for indoor and outdoor applications
- Option for wall, surface or pipe mounting
- Optional mounting not included
- Operating temperature range: -31F° to 150°F (-35°C to 66°C)

Ordering Information

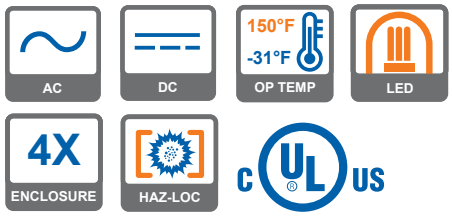
Description	Cat. No.	Operating Voltage[2]	Current	LED Colors	Projected LED Life (L70)[3]	Replacement Lens
Multi-status Indicator LED	**105XBRiRGA120A**	120V AC	0.100 A	Red, Green, Amber	148,000 hours	105-LC
	105XBRiRGA24D	24V DC	0.150 A	Red, Green, Amber	148,000 hours	105-LC
	105XBRiRBA120A	120V AC	0.100 A	Red, Blue, Amber	148,000 hours	105-LC
	105XBRiRBA24D	24V DC	0.150 A	Red, Blue, Amber	148,000 hours	105-LC

[1]NOTE: See website for more information on our XTRA-SAFE Technology
[2]AC voltage frequency is 50/60 Hz.
[3]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and $T_{junction}$ 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage[2]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
105XBRiRGA120A	120 VAC	0.005	0.100	28.5 A / 212 µSeconds
105XBRiRGA24D	24 VDC	0.005	0.150	28 A / 65 µSeconds
105XBRiRBA120A	120 VAC	0.005	0.100	28.5 A / 212 µSeconds
105XBRiRBA24D	24 VDC	0.005	0.150	28 A / 65 µSeconds



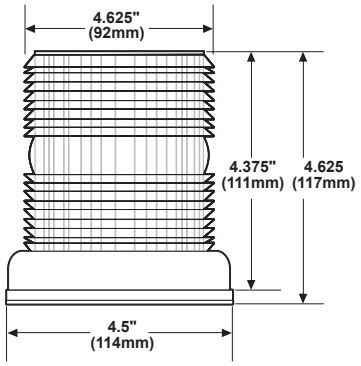
Beacons
Multi-Status LED
105XBRi Series

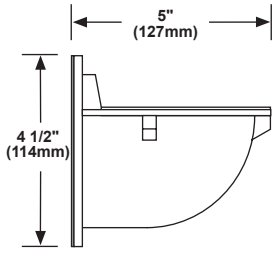
Hazardous Location Ratings

Cat. No.	Class	Division	Group	Operating Temperature
105XBRiRGA120A 105XBRiRGA24D	I	2	A, B, C, D	T5 (100°C, 212°F)
	II	2	F, G	T5 (100°C, 212°F)
	III			T5 (100°C, 212°F)
105XBRiRBA120A 105XBRiRBA24D	I	2	A, B, C, D	T6 (85°C, 185°F)
	II	2	G	T6 (85°C, 185°F)
	III			T6 (85°C, 185°F)

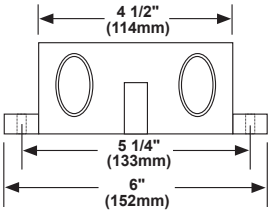
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105XBRiRGA120A	1.6	1.8
105XBRiRGA24D	1.6	1.8
105XBRiRBA120A	1.6	1.8
105XBRiRBA24D	1.6	1.8

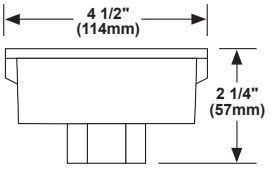




Cat. No. 105BM Mounting Bracket
(Must be used with 105BX)



Cat. No. 105BX
Outlet Box Attachment
(4) 3/4" Threaded Hubs



Cat. No. 105PM
Pipe Mount Attachment
(Pipe mount is 3/4" NPT)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Multi-Status LED
108 Series

Edwards 108I Series Chameleon™ LED multi-status indicator is a UL listed and IP65 rated multicolor device designed to function as either a steady-on or flashing visual signal. The 108I Series contains three different colored LED signals in one housing, with the option to add an additional lens module and light source – Strobe, Halogen, Incandescent or LED – for a fourth signal. It can be panel or conduit mounted.

The 108I Series features an optional multi-tone base module with eight available tones that can be operated as an additional signal or used in conjunction with any of the visual signals.

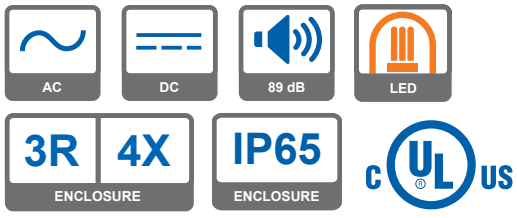
Features and Specifications

- 3 LED visual signals in one compact housing
- Option to add an additional module for a fourth light using one of the 102LM lens modules and the 102LS light sources
- 89dB @ 1m/79dB @ 10ft.
- Option to add multi-tone base module
- Option for panel or conduit mounting
- Suitable for indoor and outdoor applications
- NEMA Type 3R and Type 4X
- IP65 rated

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors
Pipe Mount (w/tone module)	**108I-RGA-N5**	120V AC	0.115 A[2]	Red, Green, Amber
	108I-RBA-N5	120V AC	0.115 A[2]	Red, Blue, Amber
	108I-RGA-G1	24V DC	0.105 A[2]	Red, Green, Amber
	108I-RBA-G1	24V DC	0.105 A[2]	Red, Blue, Amber
Pipe Mount - short base (Tone module not available)	**108IP-RGA-N5**	120V AC	0.045 A	Red, Green, Amber
	108IP-RBA-N5	120V AC	0.045 A	Red, Blue, Amber
	108IP-RGA-G1	24V DC	0.055 A	Red, Green, Amber
	108IP-RBA-G1	24V DC	0.055 A	Red, Blue, Amber
Direct Mount (Tone module not available)	**108ID-RGA-N5**	120V AC	0.045 A	Red, Green, Amber
	108ID-RBA-N5	120V AC	0.045 A	Red, Blue, Amber
	108ID-RGA-G1	24V DC	0.055 A	Red, Green, Amber
	108ID-RBA-G1	24V DC	0.055 A	Red, Blue, Amber

[1]AC voltage frequency is 50/60 Hz.
[2]Includes tone module.



Beacons
Multi-Status LED
108 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens/LED Colors	Peak Candela	Lamp Ratings	Lamp Life Calculated[2]	Lamp Life Projected[3]	Replacement Lamp
Lens Module	**102LM-A**	—	—	Amber	—	—	—	—	—
	102LM-B	—	—	Blue	—	—	—	—	—
	102LM-C	—	—	Clear	—	—	—	—	—
	102LM-G	—	—	Green	—	—	—	—	—
	102LM-R	—	—	Red	—	—	—	—	—
	102LM-Y	—	—	Yellow	—	—	—	—	—
Steady-on Halogen	**102LS-SINH-N5**	120V AC	0.11 A	—	879	12 Watts	20,000 hr.	—	50LMP-12WH
	102LS-SINH-G1	24V DC	0.32 A	—	653	9 Watts	12,000 hr.	—	50LMP-9WH
Steady-on Incandescent	**102LS-SIN-N5**	120V AC	0.08 A	—	829	10 Watts	2,500 hr.	—	50LMP-10W
	102LS-SIN-G1	24V DC	0.32 A	—	829	10 Watts	10,000 hr.	—	Ind. Trade 303[5]
Flashing Halogen	**102LS-FINH-N5**	120V AC	0.11 A	—	879	12 Watts	20,000 hr.	25,000 hr.	50LMP-12WH
	102LS-FINH-G1	24V DC	0.32 A	—	653	9 Watts	12,000 hr.	15,000 hr.	50LMP-9WH
Flashing Incandescent	**102LS-FIN-N5**	120V AC	0.08 A	—	829	10 Watts	2,500 hr.	3,000 hr.	50LMP-10W
	102LS-FIN-G1	24V DC	0.32 A	—	829	10 Watts	10,000 hr.	12,500 hr.	Ind. Trade 303[5]
Strobe	**102LS-ST-N5**	120V AC	0.12 A	—	300,000	3 Joule	3,000 hr.[4]	—	—
	102LS-ST-G1	24V DC	0.30 A	—	300,000	3 Joule	3,000 hr.[4]	—	—
Steady-on LED	**102LS-SLEDA-N5[1]** **102LS-SLEDA-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Amber	—	—	120,000 hr.	—	—
	102LS-SLEDB-N5[1] **102LS-SLEDB-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Blue	—	—	120,000 hr.	—	—
	102LS-SLEDG-N5[1] **102LS-SLEDG-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Green	—	—	120,000 hr.	—	—
	102LS-SLEDR-N5[1] **102LS-SLEDR-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Red	—	—	120,000 hr.	—	—
	102LS-SLEDW-N5[1] **102LS-SLEDW-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Clear/ White	—	—	120,000 hr.	—	—
Flashing LED	**102LS-FLEDA-N5[1]** **102LS-FLEDA-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Amber	—	—	120,000 hr.	—	—
	102LS-FLEDB-N5[1] **102LS-FLEDB-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Blue	—	—	120,000 hr.	—	—
	102LS-FLEDG-N5[1] **102LS-FLEDG-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Green	—	—	120,000 hr.	—	—
	102LS-FLEDR-N5[1] **102LS-FLEDR-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Red	—	—	120,000 hr.	—	—
	102LS-FLEDW-N5[1] **102LS-FLEDW-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Clear/ White	—	—	120,000 hr.	—	—

[1]NOTE: LED light sources must be used with the corresponding color lens module (e.g., a blue LED light source, 102LS-SLEDB-G1, must be used with a blue lens, 102LM-B).
[2]At nominal operating voltage.
[3]Projected lamp life based on manufacturer's calc. lamp life @ 65 fpm and 50% duty cycle.
[4]Strobe tube life @ operating power to 75% efficiency.
[5]User supplied

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Multi-Status LED
108 Series

Accessories

Description		Cat. No.
Pipe Mount Flange		**102PMF**
Pipe Extensions (for use with Pipe Mount Flange)	4"	**102MP-4**
	10"	**102MP-10**
	15"	**102MP-15**
Corner Mount Bracket		**CBR**
Wall Mount Bracket		**WBR**

102PMF
Pipe Mount Flange

102MP-10
Pipe Extensions

102MP-4
Pipe Extensions

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
108I-*-G1	24V DC	0.005	0.105	5 A / 1 millisecond
108I-*-N5	120V AC	0.005	0.115	30 A / 0.002 millisecond
108IP-*-G1	24V DC	0.005	0.055	5 A / 1 millisecond
108IP-*-N5	120V AC	0.005	0.045	13 A / 0.002 millisecond
108ID-*-G1	24V DC	0.005	0.055	5 A / 1 millisecond
108ID-*-N5	120V AC	0.005	0.045	13 A / 0.002 millisecond

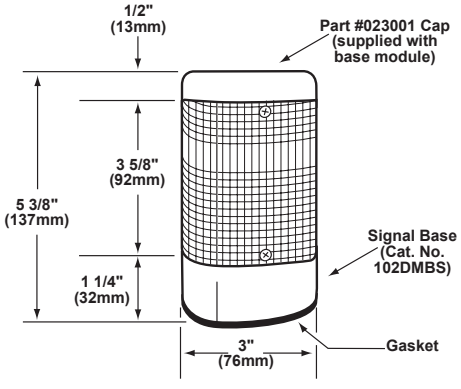
*Letter in this position designates the colors of the LED clusters: RGA - red, green and amber or RBA - red, blue and amber

Beacons
Multi-Status LED
108 Series

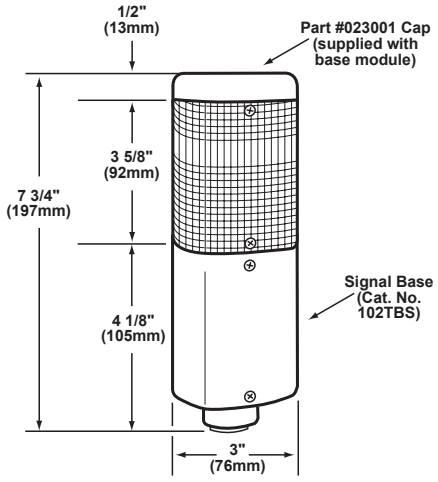
Weights and Dimensions		
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
108I-RBA-G1	0.89	1.05
108I-RBA-N5	0.89	1.05
108I-RGA-G1	0.89	1.05
108I-RGA-N5	0.89	1.05
108IP-RBA-G1	0.89	1.05
108IP-RBA-N5	0.89	1.05
108IP-RGA-G1	0.89	1.05
108IP-RGA-N5	0.89	1.05
108ID-RGA-N5	0.69	0.88
108ID-RBA-N5	0.69	0.88
108ID-RGA-G1	0.69	0.88
108ID-RBA-G1	0.69	0.88
102LM-*	0.33	0.43
102LS-FIN-G1	0.70	0.80
102LS-FINH-G1	0.70	0.80
102LS-FINH-N5	0.70	0.80
102LS-FIN-N5	0.70	0.80
102LS-FLED*-G1	0.70	0.80
102LS-FLED*-N5	0.70	0.80
102LS-SIN-G1	0.70	0.80
102LS-SINH-G1	0.70	0.80
102LS-SINH-N5	0.70	0.80
102LS-SIN-N5	0.70	0.80
102LS-SLED*-G1	0.70	0.80
102LS-SLED*-N5	0.70	0.80
102LS-ST-G1	0.70	0.80
102LS-ST-N5	0.70	0.80

Weights and Dimensions Continued		
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
102MP-10	0.83	0.83
102MP-15	1.14	1.14
102MP-4	0.31	0.31
102PMF	0.58	0.68
102SIN-RBA-G1	1.44	1.61
102SIN-RBA-N5	1.44	1.61
102SIN-RGA-G1	1.44	1.61
102SIN-RGA-N5	1.44	1.61
CBR	4.00	4.20
WBR	2.30	2.50

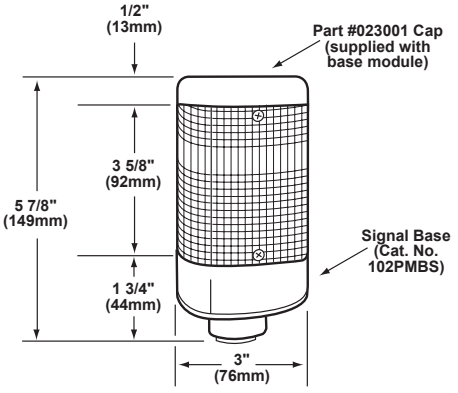
*Letter in this position designates lens/LED color: A - amber, B - blue, G - green, R - red, or W - clear/white



Cat. No. 108ID Series



Cat. No. 108I Series



Cat. No. 108IP Series

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Beacons
Steady-On LED
125 Class

NEW

Edwards 125 Class standard steady-on LED beacons are NEMA Type 4X signaling devices, designed for indoor or outdoor applications where a continuous (steady-on) light source is required. Base material is gray or black, manufactured from a 33% glass filled nylon, providing a high resistance to heat and chemicals. The lens is made of shatter-resistant polycarbonate.

Features and Specifications

- LED light source
- Shatter-resistant polycarbonate lens
- Gray or black glass filled nylon base
- Suitable for use in indoor or outdoor applications
- NEMA Type 4X enclosure
- Option for panel or conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

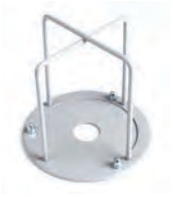
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	LED Colors	Lamp Ratings	Replacement Lens
Steady-on LED - Gray Base	**125LEDSA120A**	120V AC	0.097 A	Amber	100,000 hours	125LA
	125LEDSB120A	120V AC	0.097 A	Blue	100,000 hours	125LB
	125LEDSG120A	120V AC	0.097 A	Green	100,000 hours	125LG
	125LEDSR120A	120V AC	0.097 A	Red	100,000 hours	125LR
	125LEDSA24D	24V DC	0.060 A	Amber	100,000 hours	125LA
	125LEDSB24D	24V DC	0.060 A	Blue	100,000 hours	125LB
	125LEDSG24D	24V DC	0.060 A	Green	100,000 hours	125LG
	125LEDSR24D	24V DC	0.060 A	Red	100,000 hours	125LR
Steady-on LED - Black Base	**125LEDSA120AB**	120V AC	0.097 A	Amber	100,000 hours	125LA
	125LEDSB120AB	120V AC	0.097 A	Blue	100,000 hours	125LB
	125LEDSG120AB	120V AC	0.097 A	Green	100,000 hours	125LG
	125LEDSR120AB	120V AC	0.097 A	Red	100,000 hours	125LR
	125LEDSA24DB	24V DC	0.060 A	Amber	100,000 hours	125LA
	125LEDSB24DB	24V DC	0.060 A	Blue	100,000 hours	125LB
	125LEDSG24DB	24V DC	0.060 A	Green	100,000 hours	125LG
	125LEDSR24DB	24V DC	0.060 A	Red	100,000 hours	125LR

[1]AC voltage frequency is 50/60 Hz

Accessories

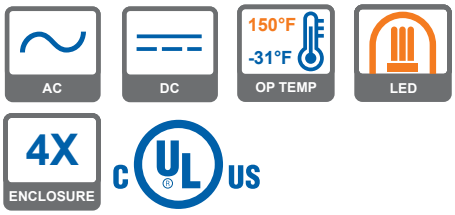
Description	Cat. No.
Protective Wire Guard	**125GRD**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**



125GRD
Protective Wire Guard

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

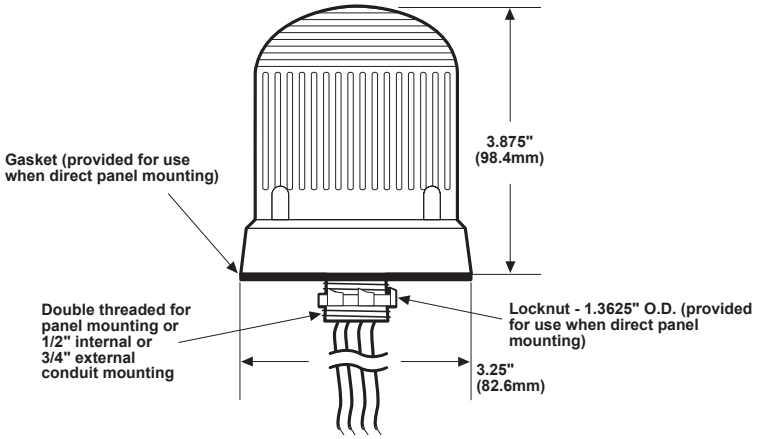


Beacons
Steady-On LED
125 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125LEDS*120A	0.49	0.59
125LEDS*24D	0.49	0.59
125LEDS*120AB	0.49	0.59
125LEDS*24DB	0.49	0.59
125GRD	0.61	0.77
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, G - green or R - red



Beacons
Steady-On Halogen
125 Class

NEW

Edwards 125 Class standard steady-on Halogen beacons are NEMA Type 4X signaling devices, suitable for indoor or outdoor applications where a continuous (steady-on) light source is required. Base material is gray or black, manufactured from a 33% glass filled nylon, providing a high resistance to heat and chemicals. The lens is made of shatter-resistant polycarbonate.

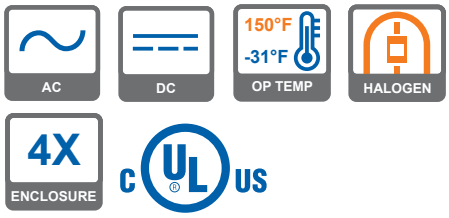
Features and Specifications

- Halogen light source
- Shatter-resistant polycarbonate lens
- Gray or black glass filled nylon base
- Suitable for use in indoor or outdoor applications
- NEMA Type 4X enclosure
- Option for panel or conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Replacement Lens	Replacement Lamp
Steady-on Beacon Halogen - Gray Base	**125HALSA24A**	24V AC	0.770 A	Amber	125LA	50LMP-9WH-D or industry trade no. 1692[2]
	125HALSB24A	24V AC	0.770 A	Blue	125LB	
	125HALSC24A	24V AC	0.770 A	Clear	125LC	
	125HALSG24A	24V AC	0.770 A	Green	125LG	
	125HALSR24A	24V AC	0.770 A	Red	125LR	
	125HALSA120A	120V AC	0.200 A	Amber	125LA	50LMP-12WH-D or industry trade no. 15T7DC[2]
	125HALSB120A	120V AC	0.200 A	Blue	125LB	
	125HALSC120A	120V AC	0.200 A	Clear	125LC	
	125HALSG120A	120V AC	0.200 A	Green	125LG	
	125HALSR120A	120V AC	0.200 A	Red	125LR	
	125HALSA24D	24V DC	0.770 A	Amber	125LA	50LMP-9WH-D or industry trade no. 1692[2]
	125HALSB24D	24V DC	0.770 A	Blue	125LB	
	125HALSC24D	24V DC	0.770 A	Clear	125LC	
	125HALSG24D	24V DC	0.770 A	Green	125LG	
	125HALSR24D	24V DC	0.770 A	Red	125LR	
Steady-on Beacon Halogen - Black Base	**125HALSA24AB**	24V AC	0.770 A	Amber	125LA	50LMP-9WH-D or industry trade no. 1692[2]
	125HALSB24AB	24V AC	0.770 A	Blue	125LB	
	125HALSC24AB	24V AC	0.770 A	Clear	125LC	
	125HALSG24AB	24V AC	0.770 A	Green	125LG	
	125HALSR24AB	24V AC	0.770 A	Red	125LR	
	125HALSA120AB	120V AC	0.200 A	Amber	125LA	50LMP-12WH-D or industry trade no. 15T7DC[2]
	125HALSB120AB	120V AC	0.200 A	Blue	125LB	
	125HALSC120AB	120V AC	0.200 A	Clear	125LC	
	125HALSG120AB	120V AC	0.200 A	Green	125LG	
	125HALSR120AB	120V AC	0.200 A	Red	125LR	
	125HALSA24DB	24V DC	0.770 A	Amber	125LA	50LMP-9WH-D or industry trade no. 1692[2]
	125HALSB24DB	24V DC	0.770 A	Blue	125LB	
	125HALSC24DB	24V DC	0.770 A	Clear	125LC	
	125HALSG24DB	24V DC	0.770 A	Green	125LG	
	125HALSR24DB	24V DC	0.770 A	Red	125LR	

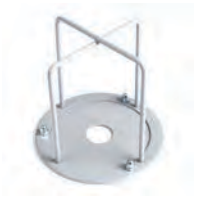
[1]AC voltage frequency is 50/60 Hz
[2]Incandescent lamps, user supplied



Beacons
Steady-On Halogen
125 Class

Accessories

Description	Cat. No.
Protective Wire Guard	**125GRD**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**



125GRD
Protective Wire Guard

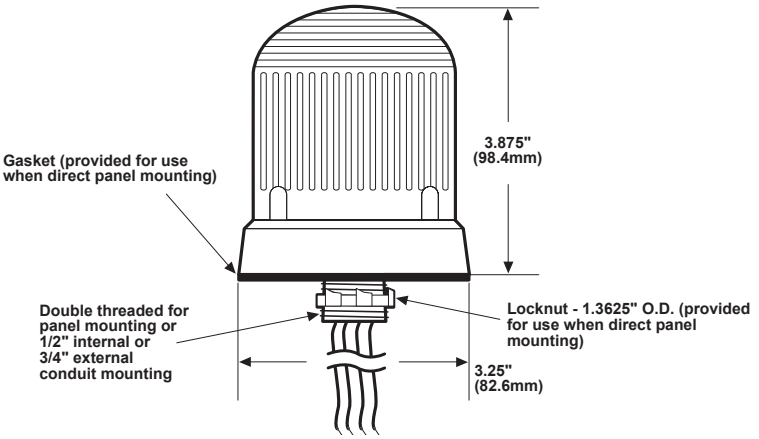
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125HALS*24D	0.40	0.50
125HALS*24A	0.40	0.50
125HALS*120A	0.40	0.50
125HALS*24DB	0.40	0.50
125HALS*24AB	0.40	0.50
125HALS*120AB	0.40	0.50
125GRD	0.61	0.77
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green or R - red



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Beacons
Steady-On Incandescent
125 Class

NEW

Edwards 125 Class standard steady-on Incandescent beacons are NEMA Type 4X signaling devices, suitable for indoor or outdoor applications where a continuous (steady-on) light source is required. Base material is gray or black, manufactured from a 33% glass filled nylon, providing a high resistance to heat and chemicals. The lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Incandescent light source
- Shatter-resistant polycarbonate lens
- Gray or black glass filled nylon base
- Suitable for use in indoor or outdoor applications
- NEMA Type 4X enclosure
- Option for panel or conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Replacement Lens	Replacement Lamp
Steady-on Beacon Incandescent Grey Base	**125INCSA120A**	120V AC	0.15 A	Amber	125LA	Industry Trade 15T7DC[2]
	125INCSB120A	120V AC	0.15 A	Blue	125LB	
	125INCSC120A	120V AC	0.15 A	Clear	125LC	
	125INCSG120A	120V AC	0.15 A	Green	125LG	
	125INCSR120A	120V AC	0.15 A	Red	125LR	
	125INCSA24D	24V DC	0.610 A	Amber	125LA	Industry Trade 1692[2]
	125INCSB24D	24V DC	0.610 A	Blue	125LB	
	125INCSC24D	24V DC	0.610 A	Clear	125LC	
	125INCSG24D	24V DC	0.610 A	Green	125LG	
	125INCSR24D	24V DC	0.610 A	Red	125LR	
Steady-on Beacon Incandescent Black Base	**125INCSA120AB**	120V AC	0.15 A	Amber	125LA	Industry Trade 15T7DC[2]
	125INCSB120AB	120V AC	0.15 A	Blue	125LB	
	125INCSC120AB	120V AC	0.15 A	Clear	125LC	
	125INCSG120AB	120V AC	0.15 A	Green	125LG	
	125INCSR120AB	120V AC	0.15 A	Red	125LR	
	125INCSA24DB	24V DC	0.610 A	Amber	125LA	Industry Trade 1692[2]
	125INCSB24DB	24V DC	0.610 A	Blue	125LB	
	125INCSC24DB	24V DC	0.610 A	Clear	125LC	
	125INCSG24DB	24V DC	0.610 A	Green	125LG	
	125INCSR24DB	24V DC	0.610 A	Red	125LR	

[1]AC voltage frequency is 50/60 Hz
[2]User supplied

Accessories

Description	Cat. No.
Protective Wire Guard	**125GRD**

AC DC 150°F -31°F OP TEMP INCAND. 4X ENCLOSURE c UL us

Beacons
Steady-On Incandescent
125 Class

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

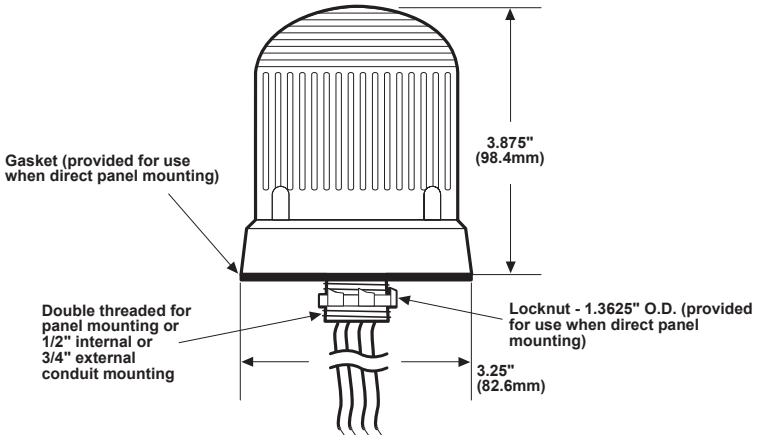
Cat. No.**	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush/duration)
125INCS*120A	120V AC	0.025	0.15 A	0.8 A Exponentially Decaying
125INCS*24D	24V DC	0.025	0.61 A	7 A Exponentially Decaying

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, or R - red
**Applies to all models with any lens color and with either a gray or black base.
[1]AC voltage frequency is 50/60 Hz

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125INCS*24D	0.40	0.50
125INCS*120A	0.40	0.50
125INCS*24DB	0.40	0.50
125INCS*120AB	0.40	0.50
125GRD	0.61	0.77

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green or R - red



Beacons
Steady-On LED or Incandescent
120 Class

NEW
Coming Soon

The 120 Class multi-light source beacons are steady-on and require either an LED bulb or 5W incandescent bulb (sold separately).

The lenses are made from a self-extinguishing polycarbonate material, and are offered in amber, blue, green, red and clear.

The 120 Class are UL listed and carry a NEMA Type 4X and IP65 environmental rating.

Features and Specifications

- LED or Incandescent light source
- Five lens colors
- NEMA Type 4X and IP65 rated enclosure
- Multiple mounting options
- Operating temperature range: -22ºF to 122ºF (-30ºC to 50ºC)

R A G B C

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Watts	Candela
Steady-on Beacon	**120SB12240AD**	12-240V AC/DC	0.43 - 0.022 A	Blue	5	4.0 - 2.5
	120SA12240AD	12-240V AC/DC	0.43 - 0.022 A	Amber	5	4.0 - 2.5
	120SR12240AD	12-240V AC/DC	0.43 - 0.022 A	Red	5	4.0 - 2.5
	120SG12240AD	12-240V AC/DC	0.43 - 0.022 A	Green	5	4.0 - 2.5
	120SW12240AD	12-240V AC/DC	0.43 - 0.022 A	Clear	5	4.0 - 2.5

Accessories

Description	Cat. No.
Junction Box	**270JBX**
Footing with Extension	**270KIT**
Threaded Extension Pole 100mm	**270TEP**
Threaded Footing	**270THF**
Threaded Wall Mount	**270TWM**
Double Threaded Wall Mount	**270TWM2**
Female Adapter Base	**270FMLADAPT**

Junction Box

Footing with Extension

Threaded Extension Pole

Threaded Footing

Threaded Wall Mount

Double Threaded Wall Mount

Female Adapter Base

AC/DC | 122°F -22°F OP TEMP | INCAND. | LED

UL | CE | 4X IP65 ENCLOSURE

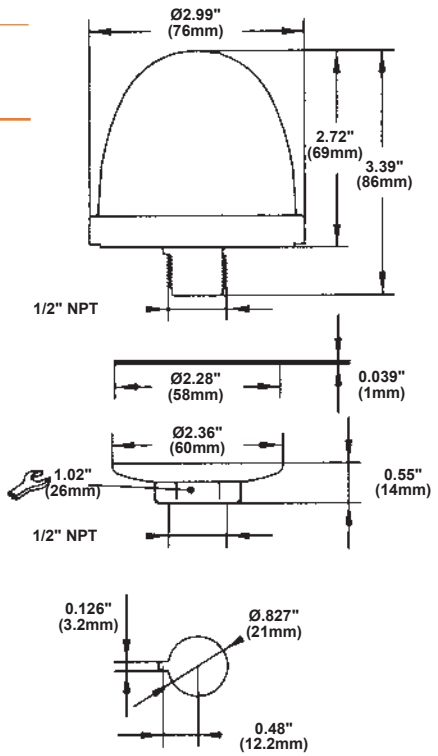
Beacons
Steady-On LED or Incandescent
120 Class

Bulbs

Description	Cat. No.	Operating Voltage	LED Color
LED Bulb	**270LEDB120V**	120V AC	Blue
	270LEDA120V	120V AC	Amber
	270LEDR120V	120V AC	Red
	270LEDG120V	120V AC	Green
	270LEDW120V	120V AC	White
	270LEDB240V	230/240V AC	Blue
	270LEDA240V	230/240V AC	Amber
	270LEDR240V	230/240V AC	Red
	270LEDG240V	230/240V AC	Green
	270LEDW240V	230/240V AC	White
	270LEDB12V	12V AC/DC	Blue
	270LEDA12V	12V AC/DC	Amber
	270LEDR12V	12V AC/DC	Red
	270LEDG12V	12V AC/DC	Green
	270LEDW12V	12V AC/DC	White
	270LEDB24V	24V AC/DC	Blue
	270LEDA24V	24V AC/DC	Amber
	270LEDR24V	24V AC/DC	Red
	270LEDG24V	24V AC/DC	Green
	270LEDW24V	24V AC/DC	White
5W Incandescent Bulb	**2705W120V**	120V AC	
5W Incandescent Bulb-25 Pack	**2705W120V25PK**	120V AC	
5W Incandescent Bulb	**2705W240V**	240V AC	
5W Incandescent Bulb-25 Pack	**2705W240V25PK**	240V AC	
5W Incandescent Bulb	**2705W12V**	12V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W12V25PK**	12V AC/DC	
5W Incandescent Bulb	**2705W24V**	24V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W24V25PK**	24V AC/DC	
5W Incandescent Bulb	**2705W48V**	48V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W48V25PK**	48V AC/DC	

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
120SB12240AD	0.33	0.99
120SA12240AD	0.33	0.99
120SR12240AD	0.33	0.99
120SG12240AD	0.33	0.99
120SW12240AD	0.33	0.99
270JBX	0.22	0.90
270KIT	0.13	1.10
270TEP	0.07	0.22
270THF	0.07	0.29
270TWM	0.09	0.59
270TWM2	0.11	0.62
270FMLADAPT	0.02	0.26



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Steady-On Halogen
105 Series

Edwards 105 Series steady-on Halogen beacons are NEMA Type 4X signaling devices, suitable for indoor or outdoor applications where a continuous (steady-on) light source is required. Base material is gray, manufactured from glass-reinforced thermoplastic polyester resin and features brass hardware. The double fresnel lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Halogen light source
- Shatter-resistant double fresnel polycarbonate lens
- Gray Rynite® (PET) base with brass hardware
- Suitable for use in indoor, outdoor and marine applications
- NEMA Type 4X and Marine rated
- Option for panel, conduit or wall mounting
- Class 1, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Color	Peak Candela	Lamp Ratings	Replacement	
							Lens	Lamp
Steady-on Beacon Halogen - AC	**105SINHA-G5**	24V AC	0.8 A	Amber	2839	20W, 20,000 hours[1,2]	105-LA	50LMP-20WH or Ind. Trade No. 1692[3]
	105SINHB-G5	24V AC	0.8 A	Blue			105-LB	
	105SINHC-G5	24V AC	0.8 A	Clear			105-LC	
	105SINHG-G5	24V AC	0.8 A	Green			105-LG	
	105SINHM-G5	24V AC	0.8 A	Magenta			105-LM	
	105SINHR-G5	24V AC	0.8 A	Red			105-LR	
	105SINHA-N5	120V AC	0.2 A	Amber	2198	25W, 20,000 hours[1,2]	105-LA	50LMP-25WH or Ind. Trade No. 25T8DC[3]
	105SINHB-N5	120V AC	0.2 A	Blue			105-LB	
	105SINHC-N5	120V AC	0.2 A	Clear			105-LC	
	105SINHG-N5	120V AC	0.2 A	Green			105-LG	
	105SINHM-N5	120V AC	0.2 A	Magenta			105-LM	
	105SINHR-N5	120V AC	0.2 A	Red			105-LR	
Steady-on Beacon Halogen - DC	**105SINHA-G1**	24V DC	0.8 A	Amber	2839	20W, 20,000 hours[1,2]	105-LA	50LMP-20WH or Ind. Trade No. 1692[3]
	105SINHB-G1	24V DC	0.8 A	Blue			105-LB	
	105SINHC-G1	24V DC	0.8 A	Clear			105-LC	
	105SINHG-G1	24V DC	0.8 A	Green			105-LG	
	105SINHM-G1	24V DC	0.8 A	Magenta			105-LM	
	105SINHR-G1	24V DC	0.8 A	Red			105-LR	

[1]At nominal operating voltage.
[2]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[3]Incandescent lamp, user supplied

Beacons
Steady-On Halogen
105 Series

Accessories

Description	Cat. No.
Wall Mount Bracket	**105BM**[1]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

[1]Must be used with 105BX.

Wall Mount Bracket

Outlet Box Attachment

Pipe Mount Attachment

Hazardous Location Ratings

Cat. No.	Class	Division	Group	Operating Temperature
105FINH*-G1	I	2	A, B, C, D	T2D (215°C, 419°F)
105SINH*-G1	II	2	F, G	T4A (120°C, 248°F)
105FINH*-G5				
105SINH*-G5	III			T4A (120°C, 248°F)

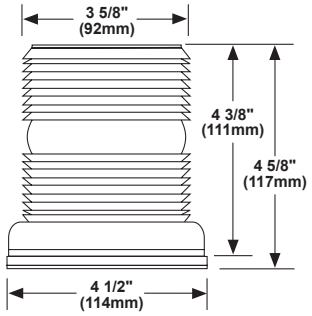
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

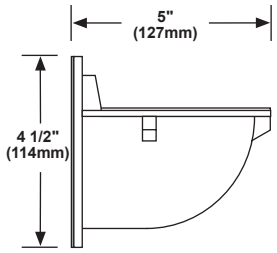
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105INH*G1	0.88	1.04
105INH*G5	0.88	1.04
105INH*N5	0.88	1.04
105PM	0.80	1.00
105BX	0.80	1.00
105BM	1.00	1.20

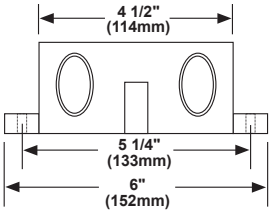
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

Cat. No's. 105SINH

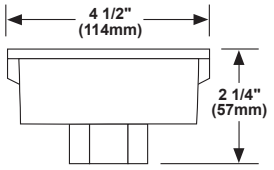




Cat. No. 105BM Mounting Bracket
(must use with 105BX)



Cat. No. 105BX
Outlet Box Attachment
(Four 3/4" threaded hubs)



Cat. No. 105PM
Pipe Mount Attachment
(Pipe mount is 3/4" NPT)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Steady-On Halogen or Incandescent
48 Series

Edwards Signaling 48 Series mid-sized, Halogen and Incandescent steady-on beacons are economical, NEMA Type 4X rated devices suitable for indoor or outdoor applications where a continuous (steady-on) light source is required. Base material is gray ABS. Unique snap-on, high-impact polycarbonate double fresnel lens is optically engineered to maximize light distribution and viewing distance.

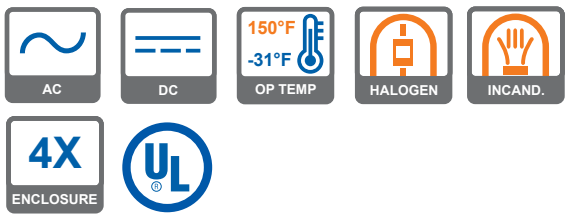
Features and Specifications

- Halogen or Incandescent light source
- Quick snap-on, high-impact polycarbonate lens
- Gray ABS base
- Suitable for use in indoor and outdoor applications
- NEMA Type 4X enclosure
- Option for panel or conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Operating Current	Lamp Ratings[1]	Lens Colors	Replacement Lens	Replacement Lamp
Steady-on Beacon Halogen Light Source	**48SINR-G5-20WH**	24V AC	0.80 A	25 watts, 175 lumens, 2198 candela, 20,000 hr.	Red	96-LR	50LMP-20WH or Ind. Trade No. 1692[2]
	48SING-G5-20WH	24V AC	0.80 A		Green	96-LG	
	48SINA-G5-20WH	24V AC	0.80 A		Amber	96-LA	
	48SINB-G5-20WH	24V AC	0.80 A		Blue	96-LB	
	48SINC-G5-20WH	24V AC	0.80 A		Clear	96-LC	
	48SINM-G5-20WH	24V AC	0.80 A		Magenta	96-LM	
	48SINR-N5-25WH	120V AC	0.20 A	20 watts, 226 lumens, 2839 candela, 20,000 hr.	Red	96-LR	50LMP-25WH or Ind. Trade No. 25T8DC[2]
	48SING-N5-25WH	120V AC	0.20 A		Green	96-LG	
	48SINA-N5-25WH	120V AC	0.20 A		Amber	96-LA	
	48SINB-N5-25WH	120V AC	0.20 A		Blue	96-LB	
	48SINC-N5-25WH	120V AC	0.20 A		Clear	96-LC	
	48SINM-N5-25WH	120V AC	0.20 A		Magenta	96-LM	
	48SINR-G1-20WH	24V DC	0.80 A	20 watts, 226 lumens, 2839 candela, 20,000 hr.	Red	96-LR	50LMP-20WH or Ind. Trade No. 1692[2]
	48SING-G1-20WH	24V DC	0.80 A		Green	96-LG	
	48SINA-G1-20WH	24V DC	0.80 A		Amber	96-LA	
	48SINB-G1-20WH	24V DC	0.80 A		Blue	96-LB	
	48SINC-G1-20WH	24V DC	0.80 A		Clear	96-LC	
	48SINM-G1-20WH	24V DC	0.80 A		Magenta	96-LM	
Steady-on Beacons Incandescent Light Source	**48SINR-E1**	12V DC	1.0 A	15 watts, 189 lumens, 2374 candela, 1,520 hr.	Red	96-LR	Industry Trade No. 94[3]
	48SING-E1	12V DC	1.0 A		Green	96-LG	
	48SINA-E1	12V DC	1.0 A		Amber	96-LA	
	48SINB-E1	12V DC	1.0 A		Blue	96-LB	
	48SINC-E1	12V DC	1.0 A		Clear	96-LC	
	48SINM-E1	12V DC	1.0 A		Magenta	96-LM	

[1]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[2]Incandescent lamps, user supplied
[3]User supplied



Beacons
Steady-On Halogen or Incandescent
48 Series

Accessories

Description	Cat. No.
Gasket Kit suitable for outdoor surface installation – AC models	**GSK-KIT**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

GSK-KIT
Gasket Kit

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

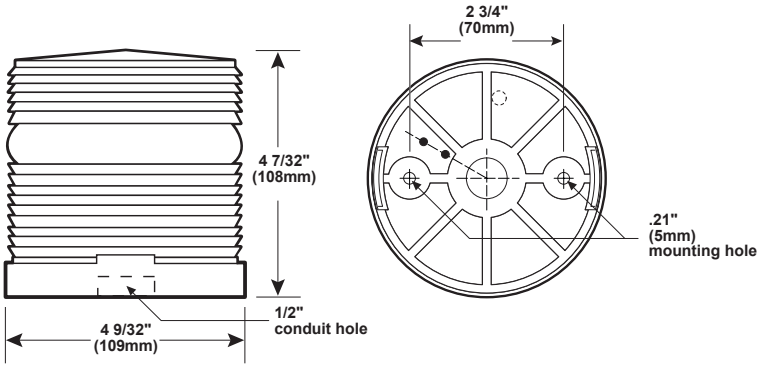
Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration)
48SIN*-N5-25WH	120V AC 50/60 Hz	0.025	0.200	0.8 A / 8 mSeconds
48SIN*-G1-20WH	24V DC	0.025	0.800	0.9 A / 1 mSecond

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
48SIN*-G5-20WH	0.63	0.79
48SIN*-N5-25WH	0.63	0.79
48SIN*-G1-20WH	0.63	0.79
48SIN*-E1	0.63	0.79
GSK-KIT	0.70	1.00
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Use Cat. No. GSK-KIT gasket kit suitable for outdoor surface mount installation on AC units

Beacons
Steady-On Halogen
50 Series

Edwards 50SIN Series steady-on Halogen beacons are signaling devices, designed for indoor or outdoor applications where a continuous (steady-on) light source is required. The base is cast aluminum and can function as a junction box. The double fresnel lens is made of shatter-resistant polycarbonate and optically engineered to maximize light distribution and viewing distance.

Features and Specifications

- Halogen light source
- Shatter-resistant double fresnel polycarbonate lens
- Cast aluminum base can function as a junction box
- Suitable for use in indoor and outdoor applications
- Designed for 4" octagonal box
- Option for panel or conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lamp Ratings	Lens Colors	Replacement Lens	Replacement Lamp
Steady-on Beacon Halogen	**50SINR-N5-40WH**	120V AC	0.29 A	40 watts, 265 lumens[2] 3328 candela 20,000 hours[3]	Red	92-LR	50LMP-40WH
	50SINA-N5-40WH	120V AC	0.29 A		Amber	92-LA	50LMP-40WH
	50SINB-N5-40WH	120V AC	0.29 A		Blue	92-LB	50LMP-40WH
	50SING-N5-40WH	120V AC	0.29 A		Green	92-LG	50LMP-40WH
	50SINM-N5-40WH	120V AC	0.29 A		Magenta	92-LM	50LMP-40WH
	50SINC-N5-40WH	120V AC	0.29 A		Clear	92-LC	50LMP-40WH

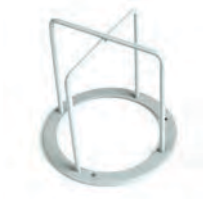
[1]AC voltage frequency is 50/60 Hz
[2]Bulb manufacturer's lumen rating
[3]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**
Lens Guard	**92-GRD**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket



92-GRD
Lens Guard

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration)
50SIN*-N5-40WH	120V AC	0.025	0.290	0.47 A / 8 mSecond

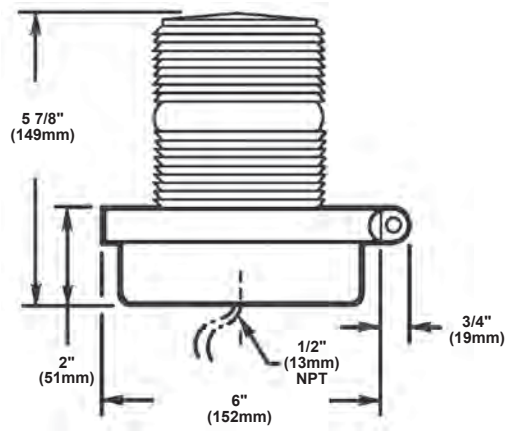
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

Beacons
Steady-On Halogen
50 Series

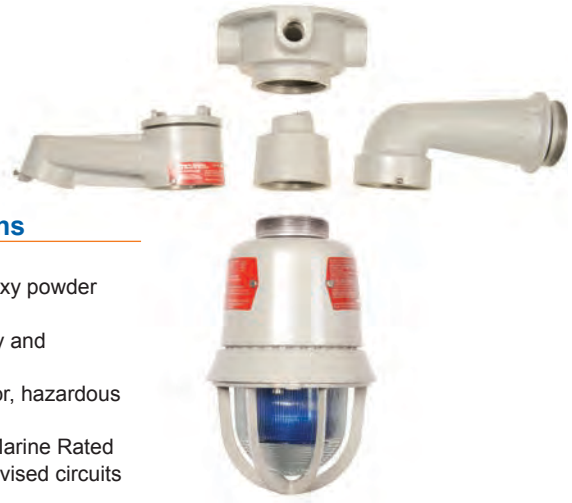
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
50SIN*-N5-40WH	1.32	1.66
92-GRD	0.31	0.47
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons: Explosionproof
Steady-On Halogen
116 Series



Edwards 116 Series steady-on beacons are explosionproof signaling devices, suitable for hazardous indoor or outdoor applications. The housing is cast aluminum with a corrosion-resistant epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

Features and Specifications

- Halogen light source
- Cast aluminum housing with epoxy powder coat and dome guard
- Quick connect for easy assembly and installation
- Suitable for use in indoor, outdoor, hazardous and marine applications
- NEMA Type 3R and Type 4X – Marine Rated
- Diode polarized for use on supervised circuits
- Cast aluminum housing
- Pendant, ceiling, bracket or stanchion mounting options (ordered separately)
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Group G

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Peak Candela	Lens Colors	Dome Guard	Replacement Dome	Replacement Inner Lens	Replacement Lamp
Steady-on Beacon Halogen	**116DEXMSINHA-GW**	24 - 28V DC	0.8 A	2838	Amber	116-GRD	116-Globe	116-RIN-LA	50LMP-20WH 20W Halogen Bulb 25,000 hours.[1] or Ind. Trade No. 1692[2]
	116DEXMSINHB-GW	24 - 28V DC	0.8 A	2838	Blue	116-GRD	116-Globe	116-RIN-LB	
	116DEXMSINHC-GW	24 - 28V DC	0.8 A	2838	Clear	116-GRD	116-Globe	116-RIN-LC	
	116DEXMSINHG-GW	24 - 28V DC	0.8 A	2838	Green	116-GRD	116-Globe	116-RIN-LG	
	116DEXMSINHM-GW	24 - 28V DC	0.8 A	2838	Magenta	116-GRD	116-Globe	116-RIN-LM	
	116DEXMSINHR-GW	24 - 28V DC	0.8 A	2838	Red	116-GRD	116-Globe	116-RIN-LR	

[1]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[2]Incandescent lamp, user supplied

Required Mounting Options

Description	Cat. No.
Wall Bracket Mounting Elbow	**116EX-B**
Ceiling/Wall Mounting Module	**116EX-C**
Pendant Mounting Module	**116EX-P**
Stanchion Mounting Module	**116EX-S**

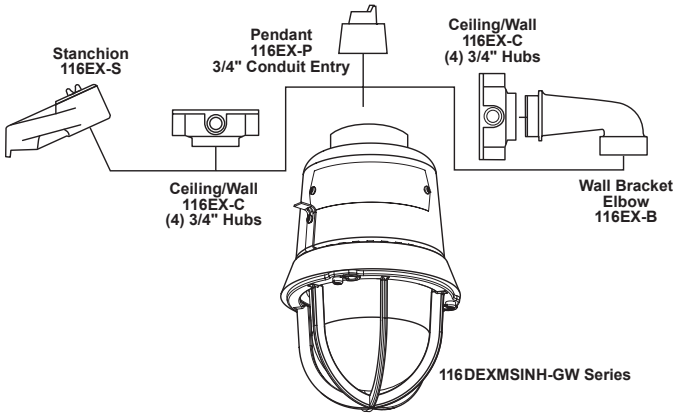
Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature: Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116DEXMSINH*-GW	40°C	75°C	T3 (200°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3 (200°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2D (215°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

Beacons: Explosionproof
Steady-On Halogen
116 Series

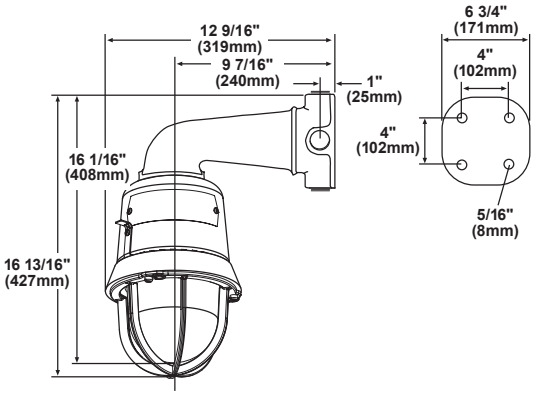
Mounting Options



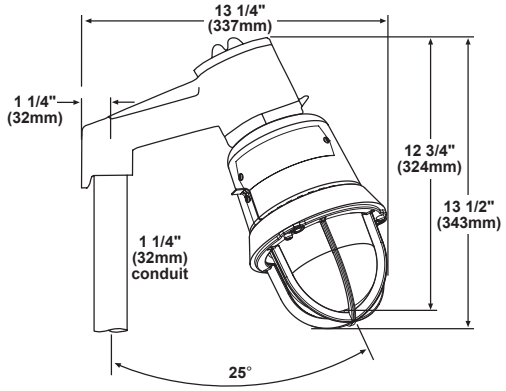
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEXMSINHA-GW	11.60	13.0
116DEXMSINHB-GW	11.60	13.0
116DEXMSINHC-GW	11.60	13.0
116DEXMSINHG-GW	11.60	13.0
116DEXMSINHM-GW	11.60	13.0
116DEXMSINHR-GW	11.60	13.0
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

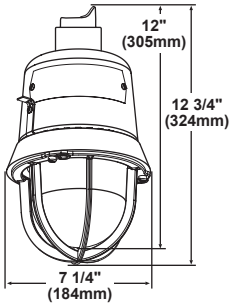
Wall Mount
116EX-B



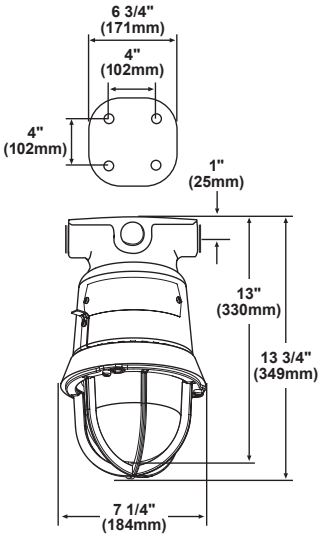
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons: Explosionproof
Steady-On Halogen
116 Series

Edwards 116 Series steady-on beacons are explosionproof signaling devices, suitable for hazardous indoor or outdoor applications. The housing is cast aluminum with a corrosion-resistant epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

Features and Specifications

- Halogen light source
- Cast aluminum housing with epoxy powder coat and dome guard
- Quick connect for easy assembly and installation
- Suitable for use in indoor, outdoor, hazardous and marine applications
- NEMA Type 3R and Type 4X – Marine Rated
- Cast aluminum housing
- Pendant, ceiling, bracket or stanchion mounting options (ordered separately)
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Group G

R A M G B C

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Peak Candela	Lens Colors	Replacement Dome Guard	Replacement Dome	Replacement Inner Lens	Replacement Lamp
Steady-on Beacon Halogen	**116EXMSINHA-N5**	120V AC	0.35 A	3328	Amber	116-GRD	116-Globe	116-RIN-LA	50LMP-40WH 25,000 hours.[2]
	116EXMSINHB-N5	120V AC	0.35 A	3328	Blue	116-GRD	116-Globe	116-RIN-LB	
	116EXMSINHC-N5	120V AC	0.35 A	3328	Clear	116-GRD	116-Globe	116-RIN-LC	
	116EXMSINHG-N5	120V AC	0.35 A	3328	Green	116-GRD	116-Globe	116-RIN-LG	
	116EXMSINHM-N5	120V AC	0.35 A	3328	Magenta	116-GRD	116-Globe	116-RIN-LM	
	116EXMSINHR-N5	120V AC	0.35 A	3328	Red	116-GRD	116-Globe	116-RIN-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Projected life based on manufacturer's calculated lamp life.

Required Mounting Options

Description	Cat. No.
Wall Bracket Mounting Elbow	**116EX-B**
Ceiling/Wall Mounting Module	**116EX-C**
Pendant Mounting Module	**116EX-P**
Stanchion Mounting Module	**116EX-S**

Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature: Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116EXMSINH*-N5	40°C	75°C	T1 (450°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T1 (450°C)	T5 (100°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T1 (450°C)	T5 (100°C)	T4 (135°C)	T4 (135°C)

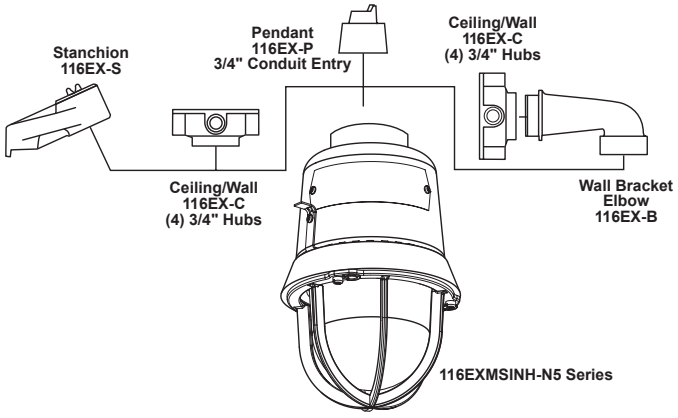
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

AC HALOGEN

UL 3R 4X ENCLOSURE EX-PROOF HAZ-LOC

Beacons: Explosionproof
Steady-On Halogen
116 Series

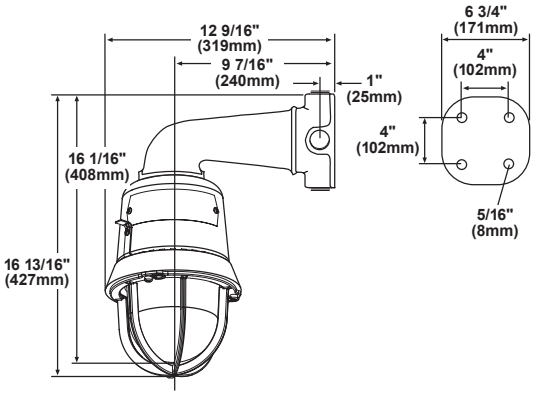
Mounting Options



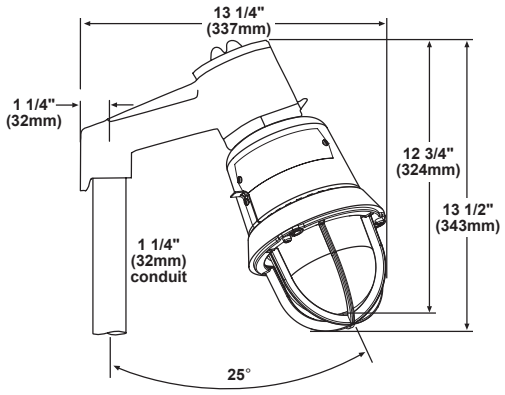
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXMSINHA-N5	11.60	13.0
116EXMSINHB-N5	11.60	13.0
116EXMSINHC-N5	11.60	13.0
116EXMSINHG-N5	11.60	13.0
116EXMSINHM-N5	11.60	13.0
116EXMSINHR-N5	11.60	13.0
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

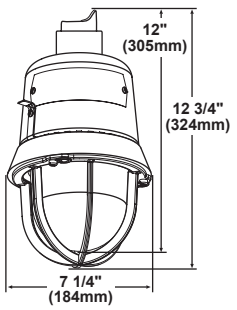
Wall Mount
116EX-B



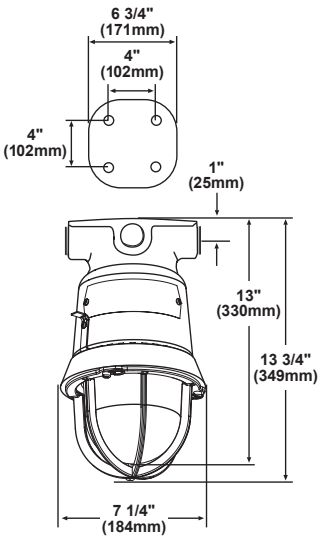
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Steady-On LED
Klaxon Flashguard Series

Flashguard Steady-on LED beacons are visual indicators suitable for use in indoor and outdoor applications.

All Flashguard beacons are fitted with a diffuser for greater visibility and spread of light.

They include a terminal block and a 27mm deep base supplied with a seal and grommet.

An upgrade kit (with cable connector) is available to upgrade the product from IP65 rating to IP67.

Features and Specifications

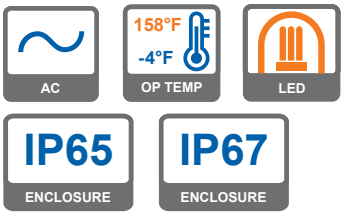
- LED light source
- Compact, ultra modern sleek appearance
- IP65 rated; IP67 rated (with upgrade kit)
- White, high quality polycarbonate housing
- Suitable for use in indoor and outdoor applications
- Vandal-resistant safety locking mechanism
- Operating temperature range: -4°F to 158°F (-20°C to +70°C)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Lens Colors
LED Beacon Steady-on	**45-711611**	**QBS-0007**	110V AC	0.032 A	Red
	45-711621	**QBS-0008**	110V AC	0.032 A	Amber
	45-711631	**QBS-0009**	110V AC	0.032 A	Clear
	45-711641	**QBS-0010**	110V AC	0.032 A	Blue
	45-711651	**QBS-0011**	110V AC	0.032 A	Green
	45-712611	**QBS-0022**	230V AC	0.032 A	Red
	45-712621	**QBS-0023**	230V AC	0.032 A	Amber
	45-712631	**QBS-0024**	230V AC	0.032 A	Clear
	45-712641	**QBS-0025**	230V AC	0.032 A	Blue
	45-712651	**QBS-0026**	230V AC	0.032 A	Green

Accessories

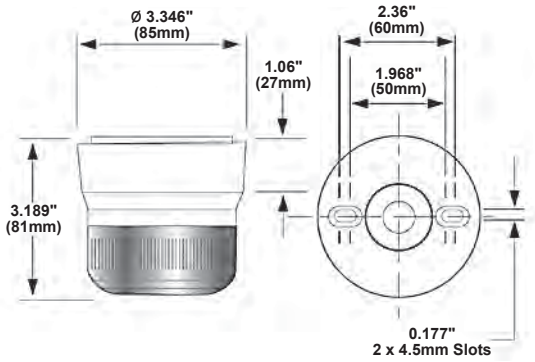
Description	Edwards Cat. No.	Klaxon Cat. No.
IP67 Upgrade Kit (AC)	**45-710001**	**QBO-0005**



Beacons
Steady-On LED
Klaxon Flashguard Series

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat.No.	Approx. Net Weight (lb.)
45-711611	QBS-0007	0.31
45-711621	QBS-0008	0.31
45-711631	QBS-0009	0.31
45-711641	QBS-0010	0.31
45-711651	QBS-0011	0.31
45-712611	QBS-0022	0.31
45-712621	QBS-0023	0.31
45-712631	QBS-0024	0.31
45-712641	QBS-0025	0.31
45-712651	QBS-0026	0.31



Beacons
Multi-Mode LED
Polaris Class - 94 Series

NEW

Edwards Polaris™ Class 94 Series LED beacons are NEMA Type 4X and IP66 rated visual signals suitable for use in indoor and outdoor applications. The units are field configurable with up to seven flashing patterns, including steady-on, utilizing a “Hidden In Plain Sight” (HIPS) switch.

The inner, double fresnel lens is made of a high grade polycarbonate and is designed to magnify the ultra-bright LED’s inside. A clear, outer, impact-resistant polycarbonate dome offers additional protection against accidental impacts with machinery or falling objects. It also acts as a protective and simple to clean “dust and residue” cover.

The 94 Series beacons are designed to be mounted on 3/4 inch NPT conduit (indoor or outdoor). For outdoor installation and to maintain the NEMA and IP ratings, the beacon must be mounted with the dome facing directly up. When installing the beacon indoors in dry environments, it can be mounted in any position. The 94 Series housing has a cast base that can function as a junction box.

The Polaris Class is designed for any industrial or commercial applications that require the longevity of an LED and the brightness of a xenon strobe. These units are very effective in high noise areas where ear protection is worn or audible signals may not be heard.

Features and Specifications

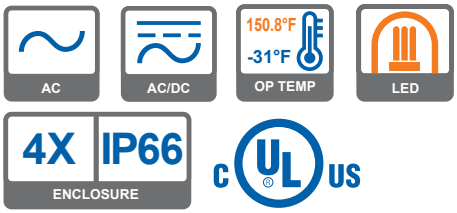
- Multi-mode LED (steady-on plus seven flash patterns)
- LED light source
- Six lens colors
- 3/4" (19mm) NPT threaded conduit
- Hidden in Plain Sight (HIPS) switch
- High level of immunity to shock and vibration
- Black or gray base option
- Cast base can function as junction box
- NEMA Type 4X and IP66 rated
- Operating temperature range: -31ºF to 150.8ºF (-35ºC to 66ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Projected LED Life (L70)[2]	Replacement Dome	Replacement Lens
Multi-mode LED Gray Base AC	**94PLEDMA120A**	120V AC	0.250 A	Amber	148,000	94DV2-DC	93-LA
	94PLEDMB120A	120V AC	0.250 A	Blue	148,000	94DV2-DC	93-LB
	94PLEDMG120A	120V AC	0.250 A	Green	148,000	94DV2-DC	93-LG
	94PLEDMM120A	120V AC	0.250 A	Magenta	148,000	94DV2-DC	93-LM
	94PLEDMR120A	120V AC	0.250 A	Red	148,000	94DV2-DC	93-LR
	94PLEDMW120A	120V AC	0.250 A	Clear	148,000	94DV2-DC	93-LC
Multi-mode LED Black Base AC	**94PLEDMA120AB**	120V AC	0.250 A	Amber	148,000	94DV2-DC	93-LA
	94PLEDMB120AB	120V AC	0.250 A	Blue	148,000	94DV2-DC	93-LB
	94PLEDMG120AB	120V AC	0.250 A	Green	148,000	94DV2-DC	93-LG
	94PLEDMM120AB	120V AC	0.250 A	Magenta	148,000	94DV2-DC	93-LM
	94PLEDMR120AB	120V AC	0.250 A	Red	148,000	94DV2-DC	93-LR
	94PLEDMW120AB	120V AC	0.250 A	Clear	148,000	94DV2-DC	93-LC

[1]AC voltage frequency is 50/60 Hz

[2]LED Manufacturer’s Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and Tjunction 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.



Beacons
Multi-Mode LED
Polaris Class - 94 Series

NEW

Ordering Information Continued

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Projected LED Life (L70)[2]	Replacement Dome	Replacement Lens
Multi-mode LED Gray Base AC/DC	**94PLEDMA24AD**	12V DC 24V AC/DC	0.700 A 0.550 A	Amber	148,000	94DV2-DC	93-LA
	94PLEDMB24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Blue	148,000	94DV2-DC	93-LB
	94PLEDMG24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Green	148,000	94DV2-DC	93-LG
	94PLEDMM24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Magenta	148,000	94DV2-DC	93-LM
	94PLEDMR24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Red	148,000	94DV2-DC	93-LR
	94PLEDMW24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Clear	148,000	94DV2-DC	93-LC
Multi-mode LED Black Base AC/DC	**94PLEDMA24ADB**	12V DC 24V AC/DC	0.700 A 0.550 A	Amber	148,000	94DV2-DC	93-LA
	94PLEDMB24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Blue	148,000	94DV2-DC	93-LB
	94PLEDMG24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Green	148,000	94DV2-DC	93-LG
	94PLEDMM24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Magenta	148,000	94DV2-DC	93-LM
	94PLEDMR24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Red	148,000	94DV2-DC	93-LR
	94PLEDMW24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Clear	148,000	94DV2-DC	93-LC

[1]AC voltage frequency is 50/60 Hz
[2]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and Tjunction 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

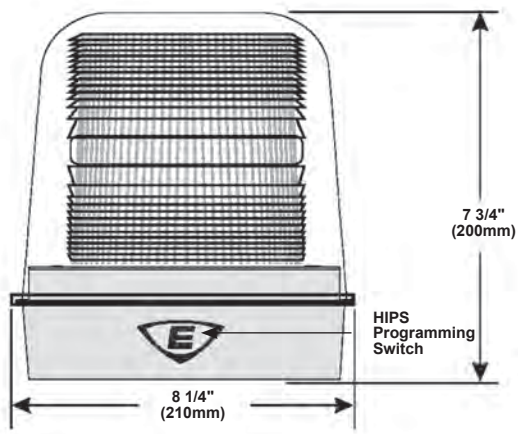
Flash Mode Selection

Pattern	Description
Steady	Steady-On
S65	65 flashes per minute (FPM)
Light Burst	1000 FPM (seven pulses) 440 ms off/repeat
Singular Burst	120 FPM
Binary Burst	65 double FPM
Quad Burst	65 quad FPM
iBurst	750 FPM (nine pulses) 480 FPM (one pulse) 85 FPM (six pulses) 460 FPM (one pulse)

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
94PLEDM*120A	5.54	6.10
94PLEDM*120AB	5.54	6.10
94PLEDM*24AD	5.54	6.10
94PLEDM*24ADB	5.54	6.10
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, G - green, M - magenta, R - red or W - clear



Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Multi-Mode LED
Polaris Class - 57 Series

NEW

Edwards Polaris™ Class 57 Series LED beacons are NEMA Type 4X and IP66 rated visual signals suitable for use in indoor and outdoor applications. The units are field configurable with seven flash patterns, including steady-on, utilizing a “Hidden In Plain Sight” (HIPS) switch.

The inner, double fresnel lens is made of a high grade polycarbonate and is designed to magnify the ultra-bright LED’s inside. A clear, outer, impact-resistant polycarbonate dome offers additional protection against accidental impacts with machinery or falling objects. It also acts as a protective and simple to clean “dust and residue” cover.

The 57 Series beacons are designed to be mounted on 3/4 inch NPT conduit (indoor or outdoor). To maintain the NEMA and IP ratings for outdoor installation, the beacon must be mounted with the dome facing directly up. When installing the beacon indoors in dry environments, it can be mounted in any position.

The 57 Series is designed for industrial or commercial applications that require the longevity of an LED combined with the brightness of a xenon strobe. These units are very effective in high noise areas where ear protection is worn or audible signals may not be heard.

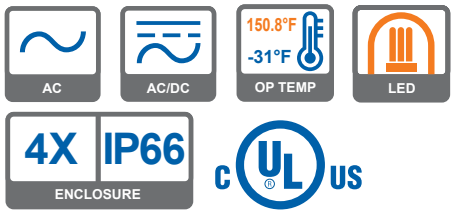
Features and Specifications

- Multi-mode LED (steady-on plus seven flash patterns)
- LED light source
- Six lens colors
- 3/4" (19mm) NPT threaded conduit
- Hidden in Plain Sight (HIPS) switch
- High level of immunity to shock and vibration
- Black or gray base option
- NEMA Type 4X and IP66 rated
- Operating temperature range: -31ºF to 150.8ºF (-35ºC to 66ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Projected LED Life (L70)[2]	Replacement Dome	Replacement Lens
Multi-mode LED AC Gray Base	**57PLEDMA120A**	120V AC	0.250 A	Amber	148,000	57E-DC	57E-LA
	57PLEDMB120A	120V AC	0.250 A	Blue	148,000	57E-DC	57E-LB
	57PLEDMG120A	120V AC	0.250 A	Green	148,000	57E-DC	57E-LG
	57PLEDMM120A	120V AC	0.250 A	Magenta	148,000	57E-DC	57E-LM
	57PLEDMR120A	120V AC	0.250 A	Red	148,000	57E-DC	57E-LR
	57PLEDMW120A	120V AC	0.250 A	Clear	148,000	57E-DC	57E-LC
Multi-mode LED AC Black Base	**57PLEDMA120AB**	120V AC	0.250 A	Amber	148,000	57E-DC	57E-LA
	57PLEDMB120AB	120V AC	0.250 A	Blue	148,000	57E-DC	57E-LB
	57PLEDMG120AB	120V AC	0.250 A	Green	148,000	57E-DC	57E-LG
	57PLEDMM120AB	120V AC	0.250 A	Magenta	148,000	57E-DC	57E-LM
	57PLEDMR120AB	120V AC	0.250 A	Red	148,000	57E-DC	57E-LR
	57PLEDMW120AB	120V AC	0.250 A	Clear	148,000	57E-DC	57E-LC

[1]AC voltage frequency is 50/60 Hz
[2]LED Manufacturer’s Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and Tjunction 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.



Beacons
Multi-Mode LED
Polaris Class - 57 Series

NEW

Ordering Information Continued

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Projected LED Life (L70)[2]	Replacement Dome	Replacement Lens
Multi-mode LED AC/DC Gray Base	**57PLEDMA24AD**	12V DC 24V AC/DC	0.700 A 0.550 A	Amber	148,000	57E-DC	57E-LA
	57PLEDMB24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Blue	148,000	57E-DC	57E-LB
	57PLEDMG24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Green	148,000	57E-DC	57E-LG
	57PLEDMM24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Magenta	148,000	57E-DC	57E-LM
	57PLEDMR24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Red	148,000	57E-DC	57E-LR
	57PLEDMW24AD	12V DC 24V AC/DC	0.700 A 0.550 A	Clear	148,000	57E-DC	57E-LC
Multi-mode LED AC/DC Black Base	**57PLEDMA24ADB**	12V DC 24V AC/DC	0.700 A 0.550 A	Amber	148,000	57E-DC	57E-LA
	57PLEDMB24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Blue	148,000	57E-DC	57E-LB
	57PLEDMG24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Green	148,000	57E-DC	57E-LG
	57PLEDMM24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Magenta	148,000	57E-DC	57E-LM
	57PLEDMR24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Red	148,000	57E-DC	57E-LR
	57PLEDMW24ADB	12V DC 24V AC/DC	0.700 A 0.550 A	Clear	148,000	57E-DC	57E-LC

[1]AC voltage frequency is 50/60 Hz
[2]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and Tjunction 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

Flash Mode Selection

Pattern	Description
Steady	Steady-On
S65	65 flashes per minute (FPM)
Light Burst	1000 FPM (seven pulses) 440 ms off/repeat
Singular Burst	120 FPM
Binary Burst	65 double FPM
Quad Burst	65 quad FPM
iBurst	750 FPM (nine pulses) 480 FPM (one pulse) 85 FPM (six pulses) 460 FPM (one pulse)

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

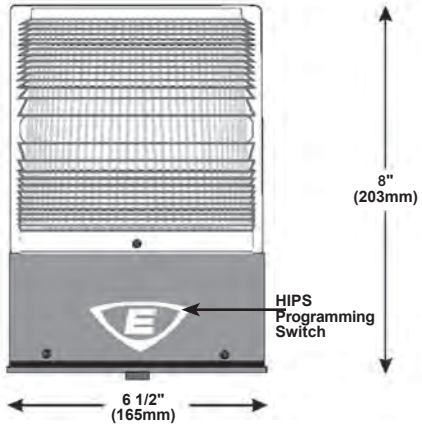
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
57PLEDM*24AD	2.92	3.40
57PLEDM*24ADB	2.92	3.40
57PLEDM*120A	2.92	3.40
57PLEDM*120AB	2.92	3.40
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, G - green, M - magenta, R - red or W - clear



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Multi-Mode LED
125XBR Class

NEW

Edwards 125XBR Class XTRA-BRITE™ LED beacons are multi-mode signaling devices, available in two versions, steady-on/flashing (125XBRM) and steady-on/lightburst (125XBRZ). Both versions feature a corrosion resistant NEMA Type 4X enclosure and can be panel or conduit mounted. The base is manufactured from a 33% glass filled nylon, providing high resistance to heat and high chemical resistivity. The lens is made of shatter resistant polycarbonate.

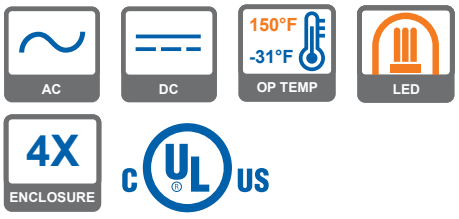
Features and Specifications

- Multi-mode LED
  125XBRM – steady-on/flashing (65 fpm)
  125XBRZ – steady-on/lightburst (420 fpm)
- LED light source
- Gray or black glass filled nylon base
- Protective wire guard available
- Option for panel or conduit mounting
- NEMA Type 4X enclosure
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	LED Colors	Projected LED Life (L70)[2]	Replacement Lens
Steady-on/ Flashing LED - Gray Base	**125XBRMA120A**	120V AC	0.108 A	Amber	148,000 hours	125LA
	125XBRMB120A	120V AC	0.108 A	Blue	148,000 hours	125LB
	125XBRMG120A	120V AC	0.108 A	Green	148,000 hours	125LG
	125XBRMR120A	120V AC	0.108 A	Red	148,000 hours	125LR
	125XBRMW120A	120V AC	0.108 A	White	148,000 hours	125LC
	125XBRMA24D	24V DC	0.215 A	Amber	148,000 hours	125LA
	125XBRMB24D	24V DC	0.215 A	Blue	148,000 hours	125LB
	125XBRMG24D	24V DC	0.215 A	Green	148,000 hours	125LG
	125XBRMR24D	24V DC	0.215 A	Red	148,000 hours	125LR
	125XBRMW24D	24V DC	0.215 A	White	148,000 hours	125LC
Steady-on/ Flashing LED - Black Base	**125XBRMA120AB**	120V AC	0.108 A	Amber	148,000 hours	125LA
	125XBRMB120AB	120V AC	0.108 A	Blue	148,000 hours	125LB
	125XBRMG120AB	120V AC	0.108 A	Green	148,000 hours	125LG
	125XBRMR120AB	120V AC	0.108 A	Red	148,000 hours	125LR
	125XBRMW120AB	120V AC	0.108 A	White	148,000 hours	125LC
	125XBRMA24DB	24V DC	0.215 A	Amber	148,000 hours	125LA
	125XBRMB24DB	24V DC	0.215 A	Blue	148,000 hours	125LB
	125XBRMG24DB	24V DC	0.215 A	Green	148,000 hours	125LG
	125XBRMR24DB	24V DC	0.215 A	Red	148,000 hours	125LR
	125XBRMW24DB	24V DC	0.215 A	White	148,000 hours	125LC
Steady-on/ Lightburst LED - Gray Base	**125XBRZA120A**	120V AC	0.108 A	Amber	148,000 hours	125LA
	125XBRZB120A	120V AC	0.108 A	Blue	148,000 hours	125LB
	125XBRZG120A	120V AC	0.108 A	Green	148,000 hours	125LG
	125XBRZR120A	120V AC	0.108 A	Red	148,000 hours	125LR
	125XBRZW120A	120V AC	0.108 A	White	148,000 hours	125LC
	125XBRZA24D	24V DC	0.215 A	Amber	148,000 hours	125LA
	125XBRZB24D	24V DC	0.215 A	Blue	148,000 hours	125LB
	125XBRZG24D	24V DC	0.215 A	Green	148,000 hours	125LG
	125XBRZR24D	24V DC	0.215 A	Red	148,000 hours	125LR
	125XBRZW24D	24V DC	0.215 A	White	148,000 hours	125LC

[1]AC voltage frequency is 50/60 Hz
[2]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and $T_{junction}$ 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.



Beacons
Multi-Mode LED
125XBR Class

NEW

Ordering Information Continued

Description	Cat. No.	Operating Voltage[1]	Current	LED Colors	Projected LED Life (L70)[2]	Replacement Lens
Steady-on/ Lightburst LED - Black Base	**125XBRZA120AB**	120V AC	0.108 A	Amber	148,000 hours	125LA
	125XBRZB120AB	120V AC	0.108 A	Blue	148,000 hours	125LB
	125XBRZG120AB	120V AC	0.108 A	Green	148,000 hours	125LG
	125XBRZR120AB	120V AC	0.108 A	Red	148,000 hours	125LR
	125XBRZW120AB	120V AC	0.108 A	White	148,000 hours	125LC
	125XBRZA24DB	24V DC	0.215 A	Amber	148,000 hours	125LA
	125XBRZB24DB	24V DC	0.215 A	Blue	148,000 hours	125LB
	125XBRZG24DB	24V DC	0.215 A	Green	148,000 hours	125LG
	125XBRZR24DB	24V DC	0.215 A	Red	148,000 hours	125LR
	125XBRZW24DB	24V DC	0.215 A	White	148,000 hours	125LC

[1]AC voltage frequency is 50/60 Hz

[2]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and $T_{junction}$ 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

Accessories

Description	Cat. No.
Protective Wire Guard	**125GRD**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

125GRD
Protective Wire Guard

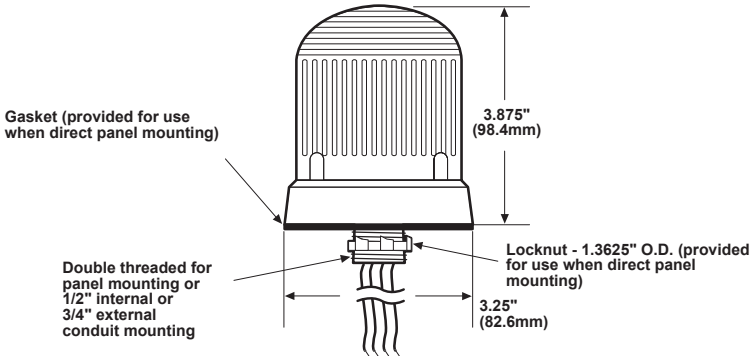
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125XBRM*120A	0.25	0.50
125XBRM*24D	0.25	0.50
125XBRM*120AB	0.25	0.50
125XBRM*24DB	0.25	0.50
125XBRZ*120A	0.25	0.50
125XBRZ*24D	0.25	0.50
125XBRZ*120AB	0.25	0.50
125XBRZ*24DB	0.25	0.50
125GRD	0.61	0.77
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates LED color: A - amber, B - blue, G - green, R - red or W - clear



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Multi-Mode LED
105XBR Series

NEW

3.75"

R A G B W

Edwards 105XBR Series XTRA-BRITE™ LED beacons are heavy-duty, multi-mode signaling devices, available in steady-on with the built-in option of switching to flashing mode via dipswitch. These signals are designed for use in industrial applications or applications where a NEMA Type 4X enclosure is required. The base is manufactured from glass-reinforced thermoplastic polyester resin and the double fresnel lens is made of shatter resistant polycarbonate. The unit can be panel, conduit or wall mounted.

Features and Specifications

- Multi-mode (flashing or steady-on)
- LED light source
- Flash rate 65 fpm
- Gray Rynite® (PET) base
- Option for panel, conduit or wall mounting
- NEMA Type 4X enclosure
- UL Listed for Marine applications
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III
- Operating temperature range: -31F° to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	LED Colors	Projected LED Life (L70)[2]	Replacement Lens
LED Multi-mode AC	**105XBRMA120A**	120V AC	0.108 A	Amber	148,000 hours	105-LA
	105XBRMB120A	120V AC	0.108 A	Blue	148,000 hours	105-LB
	105XBRMG120A	120V AC	0.108 A	Green	148,000 hours	105-LG
	105XBRMR120A	120V AC	0.108 A	Red	148,000 hours	105-LR
	105XBRMW120A	120V AC	0.108 A	White	148,000 hours	105-LC
LED Multi-mode DC	**105XBRMA24D**	24V DC	0.215 A	Amber	148,000 hours	105-LA
	105XBRMB24D	24V DC	0.215 A	Blue	148,000 hours	105-LB
	105XBRMG24D	24V DC	0.215 A	Green	148,000 hours	105-LG
	105XBRMR24D	24V DC	0.215 A	Red	148,000 hours	105-LR
	105XBRMW24D	24V DC	0.215 A	White	148,000 hours	105-LC

[1]AC voltage frequency is 50/60 Hz
[2]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and $T_{junction}$ 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

Accessories

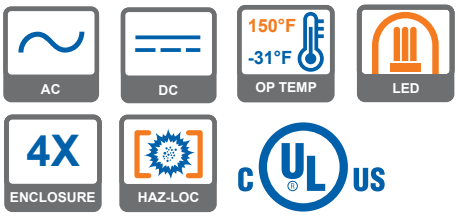
Description	Cat. No.
Mounting Bracket	**105BM**[3]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

[3]Must be used with the 105BX

Mounting Bracket

Outlet Box Attachment

Pipe Mount Attachment



Beacons
Multi-Mode LED
105XBR Series

Hazardous Location Listings

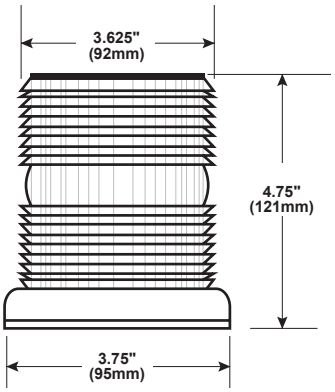
Cat. No.	Class	Division	Group	Operating Temperature
105XBRM*120A 105XBRM*24D	I	2	A, B, C, D	T4A (120°C, 248°F)
	II	2	F, G	T4A (120°C, 248°F)
	III			T4A (120°C, 248°F)

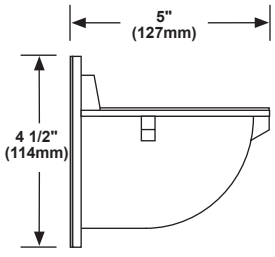
*Letter in this position designates LED color: A - amber, B - blue, G - green, R - red, or W - white

Weights and Dimensions

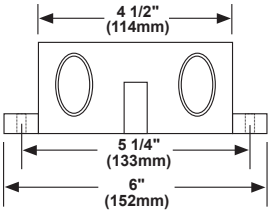
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105XBRM*120A	1.20	1.40
105XBRM*24D	1.20	1.40
105BX	0.80	1.00
105BM	1.00	1.20
105PM	0.80	1.00

*Letter in this position designates LED color: A - amber, B - blue, G - green, R - red or W - white

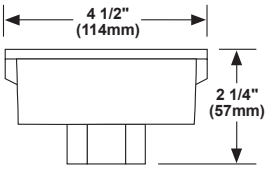




Cat. No. 105BM Mounting Bracket
(use with 105BX)



Cat. No. 105BX
Outlet Box Attachment



Cat. No. 105PM
Pipe Mount Attachment
(Pipe mount is 3/4" NPT)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Multi-Mode LED
48XBR Series

NEW

Edwards 48XBR Series XTRA-BRITE™ LED beacons are multi-mode signaling devices, available in steady-on with the built-in option of switching to flashing mode via dipswitch. These signals are suitable for use in indoor and outdoor applications or applications where a NEMA Type 4X enclosure is required. The base is manufactured from a polycarbonate/ABS blend, and the lens is made of shatter resistant polycarbonate. The unit can be panel or conduit mounted.

Features and Specifications

- Multi-mode (flashing or steady-on)
- LED light source
- Flash rate 65 fpm
- Available in gray
- Suitable for use in indoor and outdoor applications
- Option for panel or conduit mounting
- NEMA Type 4X enclosure
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.[1]	Operating Voltage[2]	Current	LED Colors	Projected LED Life (L70)[3]	Replacement Lens
Multi-mode Beacon LED AC	**48XBRMA120A**	120V AC	0.108 A	Amber	148,000 hours	96-LA
	48XBRMB120A	120V AC	0.108 A	Blue	148,000 hours	96-LB
	48XBRMG120A	120V AC	0.108 A	Green	148,000 hours	96-LG
	48XBRMR120A	120V AC	0.108 A	Red	148,000 hours	96-LR
	48XBRMW120A	120V AC	0.108 A	White	148,000 hours	96-LC
Multi-mode Beacon LED DC	**48XBRMA24D**	24V DC	0.215 A	Amber	148,000 hours	96-LA
	48XBRMB24D	24V DC	0.215 A	Blue	148,000 hours	96-LB
	48XBRMG24D	24V DC	0.215 A	Green	148,000 hours	96-LG
	48XBRMR24D	24V DC	0.215 A	Red	148,000 hours	96-LR
	48XBRMW24D	24V DC	0.215 A	White	148,000 hours	96-LC

[1]DC models provided w/surface mount kit
[2]AC voltage frequency is 50/60 Hz
[3]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and $T_{junction}$ 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

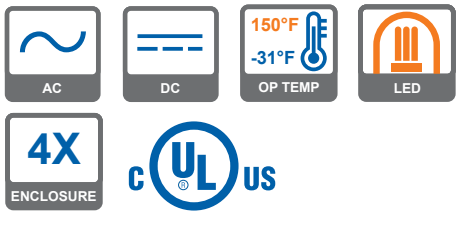
Accessories

Description	Cat. No.
Gasket Kit suitable for outdoor surface installation – AC models	**GSK-KIT**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

GSK-KIT
Gasket Kit

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket



Beacons
Multi-Mode LED
48XBR Series

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

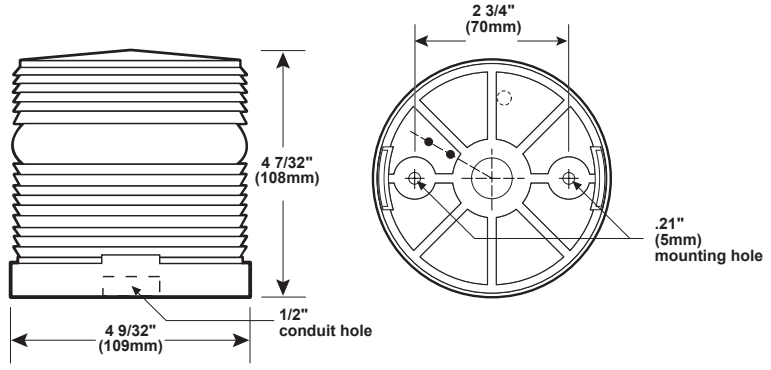
Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
48XBRM*24D	24V DC	0.005	0.215	34.5 A / 52 microseconds
48XBRM*120A	120V AC 60 Hz	0.005	0.108	37.5 A / 164 microseconds

*Letter in this position designates LED color: A - amber, B - blue, G - green, R - red, or W - white

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
48XBRM*120A	1.20	1.40
48XBRM*24D	1.20	1.40
GSK-KIT	0.70	1.00
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates LED color: A - amber, B - blue, G - green, R - red, or W - white



Use Cat. No. GSK-KIT gasket kit suitable for outdoor surface mount installation on AC units

Beacons
Multi-Mode LED
117 Class

NEW
Coming Soon

Edwards 117 Class LED beacons are UL and cUL listed multi-mode visual signals designed for indoor and outdoor applications. They carry NEMA Type 4X and IP66 environmental ratings when surface mounted with the supplied gasket. The units are available in 120VAC or 12-48VDC and are field configurable with six flash patterns (plus steady-on) utilizing an internal board mounted push button on the DC models and an internal pattern select jumper on the AC models.

The high grade polycarbonate lens is shatter resistant and quickly threads on the base making it quick and simple to access the interior of the light to change the flash pattern as required. The base is manufactured from a 33% glass filled nylon, providing high resistance to heat and high chemical resistivity.

The 117 class LED beacon is designed for industrial and commercial applications that require the longevity of an LED combined with the brightness of a xenon strobe. These high quality units are very effective in high noise areas where ear protection is worn or audible signals may not be heard.

Features and Specifications

- Multi-mode LED (steady-on plus seven flash patterns)
- LED light source
- Suitable for use in indoor and outdoor applications
- Five lens colors
- Surface or conduit mounting
- 3/4" (19mm) NPT threaded conduit
- NEMA Type 4X and IP66 (when surface mounted with supplied gasket)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Replacement Lens
Mult-mode LED Beacon AC	**117LEDMA120A**	120V AC	0.091 A	Amber	117LA
	117LEDMB120A	120V AC	0.091 A	Blue	117LB
	117LEDMG120A	120V AC	0.091 A	Green	117LG
	117LEDMR120A	120V AC	0.091 A	Red	117LR
	117LEDMW120A	120V AC	0.091 A	Clear	117LC
Mult-mode LED Beacon DC	**117LEDMA1248D**	12/48V DC	0.245 A / 0.488 A	Amber	117LA
	117LEDMB1248D	12/48V DC	0.245 A / 0.488 A	Blue	117LB
	117LEDMG1248D	12/48V DC	0.245 A / 0.488 A	Green	117LG
	117LEDMR1248D	12/48V DC	0.245 A / 0.488 A	Red	117LR
	117LEDMW1248D	12/48V DC	0.245 A / 0.488 A	Clear	117LC

AC DC LED

UL c UL 4X IP66 ENCLOSURE

Beacons
Multi-Mode LED
117 Class

Signal Input Load Characteristics

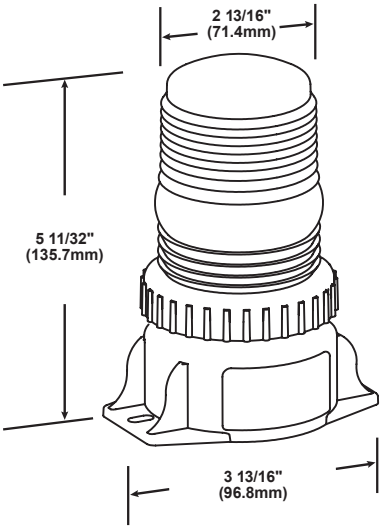
These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

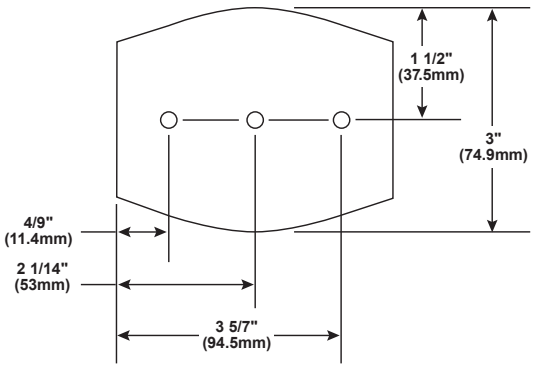
Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)
117LEDMA120A	120V AC	0.005	0.080
117LEDMB120A	120V AC	0.005	0.080
117LEDMG120A	120V AC	0.005	0.080
117LEDMR120A	120V AC	0.005	0.080
117LEDMW120A	120V AC	0.005	0.080
117LEDMA1248D	24V DC	0.005	0.110
117LEDMB1248D	24V DC	0.005	0.110
117LEDMG1248D	24V DC	0.005	0.110
117LEDMR1248D	24V DC	0.005	0.110
117LEDMW1248D	24V DC	0.005	0.110

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
117LEDMA120A	0.50	0.60
117LEDMB120A	0.50	0.60
117LEDMG120A	0.50	0.60
117LEDMR120A	0.50	0.60
117LEDMW120A	0.50	0.60
117LEDMA1248D	0.50	0.60
117LEDMB1248D	0.50	0.60
117LEDMG1248D	0.50	0.60
117LEDMR1248D	0.50	0.60
117LEDMW1248D	0.50	0.60

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red





Mounting

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Beacons
Multi-Mode LED
120 Class

NEW
Coming Soon

The 120 Class Multi-mode LED beacons are configurable up to four flashing patterns, including steady-on.

The lenses are made from a self-extinguishing polycarbonate material, and are offered in amber, blue, green, red and clear.

The 120 Class are UL listed and carry a NEMA Type 4X and IP65 environmental rating.

Features and Specifications

- Multi-mode LED (steady-on plus four flash patterns)
- LED light source
- AC or AC/DC models
- Five lens colors
- NEMA Type 4X and IP65 rated enclosure
- Multiple mounting options
- Operating temperature range: -22ºF to 122ºF (-30ºC to 50ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	LED Colors
Multi-mode Beacon AC	**120LEDMB90240A**	90-240V AC	0.040 A	Blue
	120LEDMA90240A	90-240V AC	0.040 A	Amber
	120LEDMR90240A	90-240V AC	0.040 A	Red
	120LEDMG90240A	90-240V AC	0.040 A	Green
	120LEDMW90240A	90-240V AC	0.040 A	White
Multi-mode Beacon AC/DC	**120LEDMB1224AD**	12-24V AC/DC	0.180 A	Blue
	120LEDMA1224AD	12-24V AC/DC	0.180 A	Amber
	120LEDMR1224AD	12-24V AC/DC	0.180 A	Red
	120LEDMG1224AD	12-24V AC/DC	0.180 A	Green
	120LEDMW1224AD	12-24V AC/DC	0.180 A	White

[1]AC voltage frequency is 50/60 Hz.

Accessories

Description	Cat. No.
Junction Box	**270JBX**
Footing with Extension	**270KIT**
Threaded Extension Pole 100mm	**270TEP**
Threaded Footing	**270THF**
Threaded Wall Mount	**270TWM**
Double Threaded Wall Mount	**270TWM2**
Female Adapter Base	**270FMLADAPT**

Junction Box

Footing with Extension

Threaded Extension Pole

Threaded Footing

Threaded Wall Mount

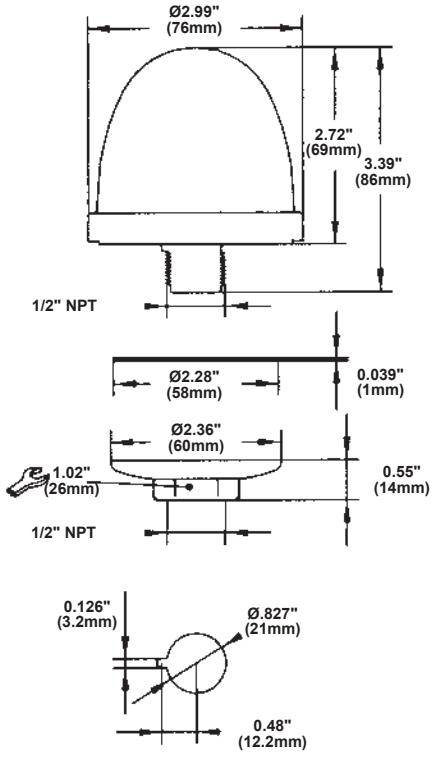
Double Threaded Wall Mount

Female Adapter Base

Beacons
Multi-Mode LED
120 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
120LEDMB90240A	0.35	1.00
120LEDMA90240A	0.35	1.00
120LEDMR90240A	0.35	1.00
120LEDMG90240A	0.35	1.00
120LEDMW90240A	0.35	1.00
120LEDMB1224AD	0.35	1.00
120LEDMA1224AD	0.35	1.00
120LEDMR1224AD	0.35	1.00
120LEDMG1224AD	0.35	1.00
120LEDMW1224AD	0.35	1.00
270JBX	0.22	0.90
270KIT	0.13	1.10
270TEP	0.07	0.22
270THF	0.07	0.29
270TWM	0.09	0.59
270TWM2	0.11	0.62
270FMLADAPT	0.02	0.26



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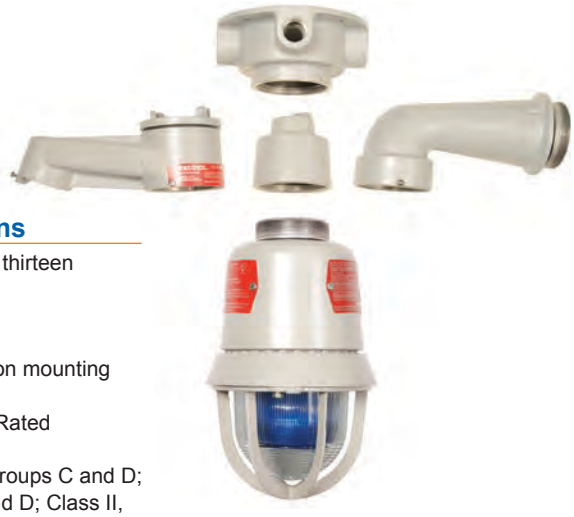
Beacons: Explosionproof
Multi-Mode LED
116 Series

NEW



The 116 Series LED Beacon is suitable for use in explosionproof and hazardous location applications such as oil platforms, refineries, granaries and chemical plants. UL and cUL listed for use in Class 1, Division 1 and 2 applications, this beacon is designed for areas requiring high visibility and notification as well as low maintenance. The long life LEDs reduce maintenance requirements by up to 90% when compared to a Xenon strobe tube. The LED light emits a 360-degree beam of light with 13 user selectable flash patterns in addition to a steady-on mode.

These beacons are UL and cUL listed for outdoor use as NEMA Type 3R, 4X, and Marine Rated enclosures. Mounting options are available (ordered separately) for ceiling, wall, pendant and stanchion mounts. The unit is supplied with a guard installed over the clear dome for additional protection against impact.

Features and Specifications

- Multi-mode LED (steady-on plus thirteen flash patterns)
- LED light source
- Five lens colors
- Ceiling, pendant, wall or stanchion mounting options (ordered separately)
- NEMA Type 3R, 4X and Marine Rated enclosures
- Explosionproof: Class I, Div 1, Groups C and D; Class I, Div 2, Groups A, B, C and D; Class II, Div 1 and 2, Groups E, F and G;Class III, Div 1 and 2

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	LED/Lens Colors	Flash Rate
Multi-mode LED	**116EXMLEDA-Y6**	120-240V AC 125-250V DC	0.215 A 0.176 A	Amber	Adjustable See Flash Mode Selection
	116EXMLEDB-Y6	120-240V AC 125-250V DC	0.215 A 0.176 A	Blue	Adjustable See Flash Mode Selection
	116EXMLEDW-Y6	120-240V AC 125-250V DC	0.215 A 0.176 A	White/Clear[2]	Adjustable See Flash Mode Selection
	116EXMLEDG-Y6	120-240V AC 125-250V DC	0.215 A 0.176 A	Green	Adjustable See Flash Mode Selection
	116EXMLEDR-Y6	120-240V AC 125-250V DC	0.215 A 0.176 A	Red	Adjustable See Flash Mode Selection
	116EXMLEDA-AQ	24V AC/DC	1.18A AC 0.79A DC	Amber	Adjustable See Flash Mode Selection
	116EXMLEDB-AQ	24V AC/DC	1.18A AC 0.79A DC	Blue	Adjustable See Flash Mode Selection
	116EXMLEDG-AQ	24V AC/DC	1.18A AC 0.79A DC	Green	Adjustable See Flash Mode Selection
	116EXMLEDR-AQ	24V AC/DC	1.18A AC 0.79A DC	Red	Adjustable See Flash Mode Selection
	116EXMLEDW-AQ	24V AC/DC	1.18A AC 0.79A DC	White/Clear[2]	Adjustable See Flash Mode Selection

[1]AC voltage frequency is 50/60 Hz
[2]For most LED beacons, the LED color and lens color are the same. White LEDs are used with a clear inner lens for the White model.

Beacons: Explosionproof
Multi-Mode LED
116 Series

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**[1]	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT

[1]Note: Wall mount requires both 116EX-B and 116EX-C.

Hazardous Location Ratings

Cat. No.	Operating Temperature						
	Ambient Temp.	Supply Wire Temp. Marking	Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II, Div. 1 Groups E, F, G	Class II, Div. 2 Groups F, G	Class III, Div. 1 & 2
116 Series LED Beacon	40°C	75°C	T4 (135°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3C (160°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T3C (160°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)	T4 (135°C)

Flash Mode Selection

Pattern	Description	Switch S4	Switch S3	Switch S2	Switch S1
Steady-On	Steady	OFF	OFF	OFF	OFF
Multiburst 1	7 Bursts - Delay- Repeat	OFF	OFF	OFF	ON
Multiburst 2	5 Bursts - Delay - Repeat	OFF	OFF	ON	OFF
Multiburst 3	10 Bursts - 3 Bursts - Repeat	OFF	OFF	ON	ON
Multiburst 4	8 Bursts - delay w/slight illumination - Repeat	OFF	ON	OFF	OFF
Flash 1	65 FPM 10% Duty Cycle	OFF	ON	OFF	ON
Flash 2	65 FPM 25% Duty Cycle	OFF	ON	ON	OFF
Flash 3	65 FPM 50% Duty Cycle	OFF	ON	ON	ON
Flash 4	65 FPM 75% Duty Cycle	ON	OFF	OFF	OFF
Flash 5	80 FPM 10% Duty Cycle	ON	OFF	OFF	ON
Flash 6	80 FPM 25% Duty Cycle	ON	OFF	ON	OFF
Flash 7	80 FPM 50% Duty Cycle	ON	OFF	ON	ON
Flash 8	80 FPM 75% Duty Cycle	ON	ON	OFF	OFF
Ramper	Ramps up and then ramps down	ON	ON	OFF	ON

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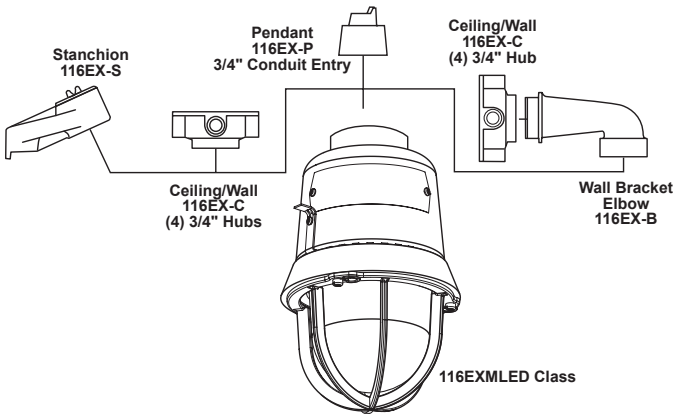
Beacons: Explosionproof
Multi-Mode LED
116 Series

Mounting Options



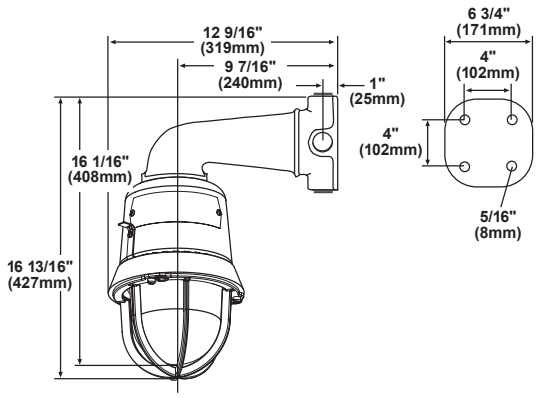
NOTE: 116EX-C must be used when application requires 116EX-B

Weights and Dimensions

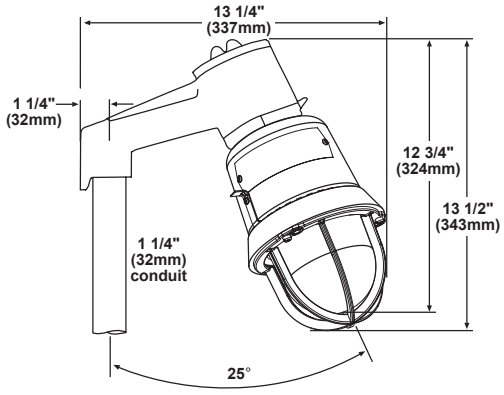
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXMLEDA-Y6	11.40	12.44
116EXMLEDB-Y6	11.40	12.44
116EXMLEDW-Y6	11.40	12.44
116EXMLEDG-Y6	11.40	12.44
116EXMLEDR-Y6	11.40	12.44
116EXMLEDA-AQ	11.40	12.44
116EXMLEDB-AQ	11.40	12.44
116EXMLEDG-AQ	11.40	12.44
116EXMLEDR-AQ	11.40	12.44
116EXMLEDW-AQ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

NOTE: For most LED beacons, the LED color and lens color are the same. White LEDs are used with a clear inner lens for the clear model.

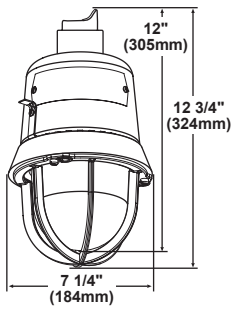
Wall Mount
116EX-B



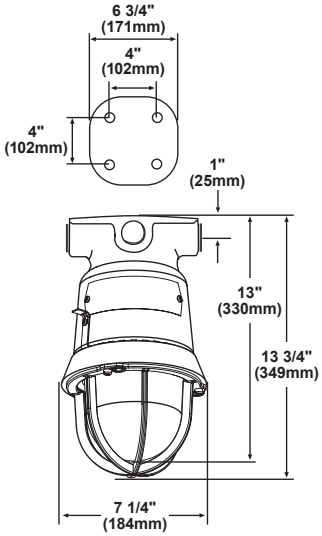
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Beacons
Multi-Mode LED
107XBR Series

NEW

The 107XBR hazardous location XTRA-BRITE™ LED visual signals are NEMA Type 3R and Type 4 heavy-duty visual signals suitable for use in indoor or outdoor applications. The units are available in 24V DC or 120V AC and are field configurable for steady-on or flashing (65 fpm). The inner, double fresnel lens is made of a high grade polycarbonate and is designed to magnify the super-bright LEDs inside. A clear, outer, impact-resistant glass globe also covers the lens and an optional dome guard fits over the glass dome to protect it against accidental impacts with machinery or falling objects.

The 107XBR has three different mounting configurations including the pendant mount, bracket mount and ceiling mount and can be mounted on 3/4" NPT threaded conduit.

Features and Specifications

- Multi-mode (flashing or steady-on)
- LED XTRA-BRITE™ light source
- Flash rate 65 fpm
- Five lens colors
- 3/4" NPT threaded conduit
- High level of immunity to shock and vibration
- Three mounting options: pendant, bracket or ceiling
- UL Listed for Class I, Div 2, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class II, Div 2, Groups F and G; Class III, Div 1

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Median LED Life (L70)[2]	Flash Rate[3]	Replacement Dome
Pendant Mount AC	**107XBRPMA120A**	120V AC	0.115 A	Amber	148,000 hours	65 fpm	EDVPGL1HR
	107XBRPMB120A	120V AC	0.115 A	Blue	148,000 hours	65 fpm	EDVPGL1HR
	107XBRPMG120A	120V AC	0.115 A	Green	148,000 hours	65 fpm	EDVPGL1HR
	107XBRPMR120A	120V AC	0.115 A	Red	148,000 hours	65 fpm	EDVPGL1HR
	107XBRPMW120A	120V AC	0.115 A	Clear	148,000 hours	65 fpm	EDVPGL1HR
Bracket Mount AC	**107XBRBMA120A**	120V AC	0.115 A	Amber	148,000 hours	65 fpm	EDVPGL1HR
	107XBRBMB120A	120V AC	0.115 A	Blue	148,000 hours	65 fpm	EDVPGL1HR
	107XBRBMG120A	120V AC	0.115 A	Green	148,000 hours	65 fpm	EDVPGL1HR
	107XBRBMR120A	120V AC	0.115 A	Red	148,000 hours	65 fpm	EDVPGL1HR
	107XBRBMW120A	120V AC	0.115 A	Clear	148,000 hours	65 fpm	EDVPGL1HR
Ceiling Mount AC	**107XBRCMA120A**	120V AC	0.115 A	Amber	148,000 hours	65 fpm	EDVPGL1HR
	107XBRCMB120A	120V AC	0.115 A	Blue	148,000 hours	65 fpm	EDVPGL1HR
	107XBRCMG120A	120V AC	0.115 A	Green	148,000 hours	65 fpm	EDVPGL1HR
	107XBRCMR120A	120V AC	0.115 A	Red	148,000 hours	65 fpm	EDVPGL1HR
	107XBRCMW120A	120V AC	0.115 A	Clear	148,000 hours	65 fpm	EDVPGL1HR

[1]AC voltage frequency is 50/60 Hz
[2]Based on LED manufacturer's projections. Refer to http://www.philipslumileds.com/pdfs/WP15.pdf
[3]Only if activated by third yellow wire

AC DC LED 3R 4 ENCLOSURE HAZ-LOC c UL US

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Beacons
Multi-Mode LED
107XBR Series

NEW

Ordering Information

Continued

Description	Cat. No.	Operating Voltage	Current	Lens Color	Median LED Life (L70)[1]	Flash Rate [2]
Pendant Mount DC	**107XBRPMA24D**	24V DC	0.220 A	Amber	148,000 hours	65 fpm
	107XBRPMB24D	24V DC	0.220 A	Blue	148,000 hours	65 fpm
	107XBRPMG24D	24V DC	0.220 A	Green	148,000 hours	65 fpm
	107XBRPMR24D	24V DC	0.220 A	Red	148,000 hours	65 fpm
	107XBRPMW24D	24V DC	0.220 A	Clear	148,000 hours	65 fpm
Bracket Mount DC	**107XBRBMA24D**	24V DC	0.220 A	Amber	148,000 hours	65 fpm
	107XBRBMB24D	24V DC	0.220 A	Blue	148,000 hours	65 fpm
	107XBRBMG24D	24V DC	0.220 A	Green	148,000 hours	65 fpm
	107XBRBMR24D	24V DC	0.220 A	Red	148,000 hours	65 fpm
	107XBRBMW24D	24V DC	0.220 A	Clear	148,000 hours	65 fpm
Ceiling Mount DC	**107XBRCMA24D**	24V DC	0.220 A	Amber	148,000 hours	65 fpm
	107XBRCMB24D	24V DC	0.220 A	Blue	148,000 hours	65 fpm
	107XBRCMG24D	24V DC	0.220 A	Green	148,000 hours	65 fpm
	107XBRCMR24D	24V DC	0.220 A	Red	148,000 hours	65 fpm
	107XBRCMW24D	24V DC	0.220 A	Clear	148,000 hours	65 fpm

[1]Based on LED manufacturer's projections. Refer to http://www.philipslumileds.com/pdfs/WP15.pdf
[2]Only if activated by third yellow wire

Accessories

Description	Cat. No.
Optional Dome Guard	**EDVPGU1**

Hazardous Locations Listings

Cat. No.	Operating Temperature				
	Pendant, Bracket and Ceiling Mount		Pendant Mount Only		
	Ambient Temp.	Class I, Div. 2, Groups A, B, C and D	Class II, Div. 1, Groups E, F, G	Class II, Div. 2, Groups F, G	Class III, Div. 1 & 2
107XBR	40°C	135°C (T4)	85°C (T6)	85°C (T6)	85°C (T6)
	55°C	135°C (T4)	85°C (T6)	85°C (T6)	85°C (T6)
	65°C	135°C (T4)	85°C (T6)	85°C (T6)	85°C (T6)

Note: Class II and Class III only apply to Pendant Mount with clear globes

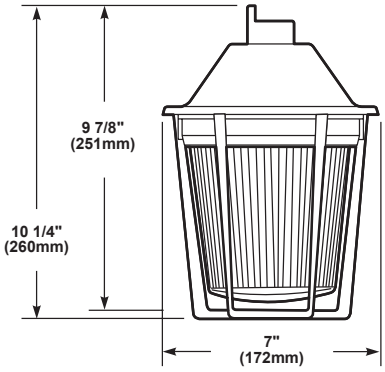
Beacons
Multi-Mode LED
107XBR Series

Weights and Dimensions

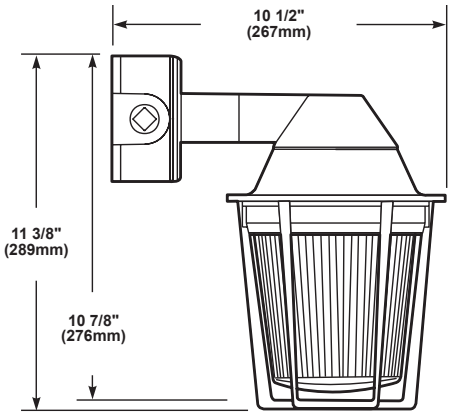
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
107XBRBM*120A	6.40	10.87
107XBRCM*120A	5.40	9.87
107XBRPM*120A	4.50	8.97
107XBRBM*24D	6.40	10.87
107XBRCM*24D	5.40	9.87
107XBRPM*24D	4.50	8.97

*Letter in this position designates lens color: A - amber, B - blue, G - green, R- red, W - clear

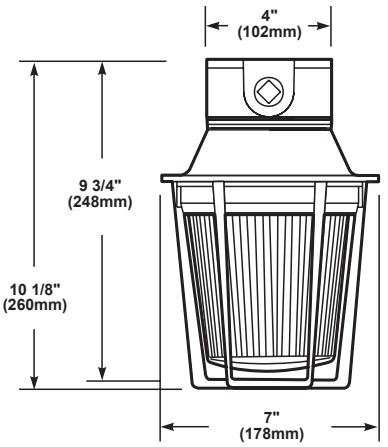
Pendant Mounting



Bracket Mounting



Ceiling Mounting



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Beacons
Flashing LED
125 Class

NEW

Edwards 125 Class standard flashing LED beacons are NEMA Type 4X signaling devices, suitable for use in indoor or outdoor applications where an intermittent (flashing) light source is required. Base material is gray or black, manufactured from a 33% glass filled nylon, providing a high resistance to heat and chemicals. The lens is made of shatter-resistant polycarbonate.

Features and Specifications

- LED light source
- Flash rate 65 fpm
- Shatter-resistant polycarbonate lens
- Gray or black glass filled nylon base
- Option for panel or conduit mounting
- Suitable for indoor or outdoor applications
- For outdoor use, lens should face up
- NEMA Type 4X enclosure
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	LED Colors	Lamp Ratings	Replacement Lens
Flashing Beacon LED Gray Base	**125LEDFA120A**	120V AC	0.097 A	Amber	100,000 hours	125LA
	125LEDFB120A	120V AC	0.097 A	Blue	100,000 hours	125LB
	125LEDFG120A	120V AC	0.097 A	Green	100,000 hours	125LG
	125LEDFR120A	120V AC	0.097 A	Red	100,000 hours	125LR
	125LEDFA24D	24V DC	0.060 A	Amber	100,000 hours	125LA
	125LEDFB24D	24V DC	0.060 A	Blue	100,000 hours	125LB
	125LEDFG24D	24V DC	0.060 A	Green	100,000 hours	125LG
	125LEDFR24D	24V DC	0.060 A	Red	100,000 hours	125LR
Flashing Beacon LED Black Base	**125LEDFA120AB**	120V AC	0.097 A	Amber	100,000 hours	125LA
	125LEDFB120AB	120V AC	0.097 A	Blue	100,000 hours	125LB
	125LEDFG120AB	120V AC	0.097 A	Green	100,000 hours	125LG
	125LEDFR120AB	120V AC	0.097 A	Red	100,000 hours	125LR
	125LEDFA24DB	24V DC	0.060 A	Amber	100,000 hours	125LA
	125LEDFB24DB	24V DC	0.060 A	Blue	100,000 hours	125LB
	125LEDFG24DB	24V DC	0.060 A	Green	100,000 hours	125LG
	125LEDFR24DB	24V DC	0.060 A	Red	100,000 hours	125LR

[1]AC voltage frequency is 50/60 Hz

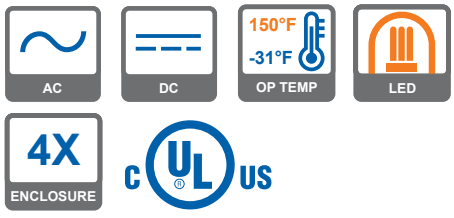
Accessories

Description	Cat. No.
Protective Wire Guard	**125GRD**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

125GRD
Protective Wire Guard

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

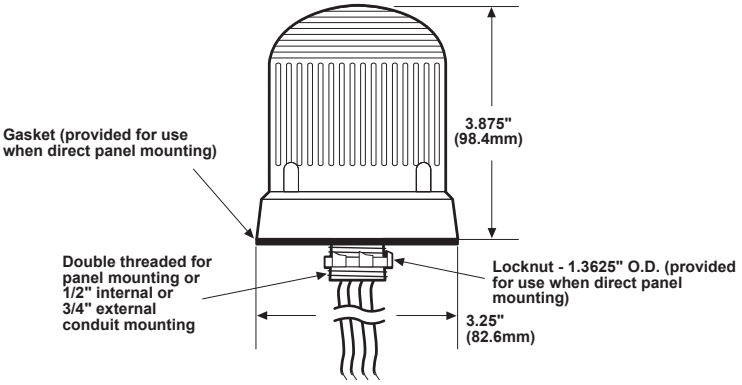


Beacons
Flashing LED
125 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125LEDF*120A	0.25	0.50
125LEDF*24D	0.25	0.50
125LEDF*120AB	0.25	0.50
125LEDF*24DB	0.25	0.50
125GRD	0.61	0.77
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates LED color: A - amber, B - blue, G - green, R - red



Beacons
Flashing Halogen
125 Class

NEW

Edwards 125 Class standard flashing Halogen beacons are NEMA Type 4X signaling devices, suitable for use in indoor or outdoor applications where an intermittent (flashing) light source is required. Base material is gray or black, manufactured from a 33% glass filled nylon, providing a high resistance to heat and chemicals. The lens is made of shatter-resistant polycarbonate.

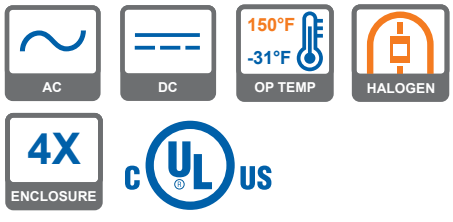
Features and Specifications

- Halogen light source
- Flash rate 65 fpm
- Shatter-resistant polycarbonate lens
- Gray or black glass filled nylon base
- Suitable for indoor or outdoor applications
- For outdoor use, lens should face up
- Option for panel or conduit mounting
- NEMA Type 4X enclosure
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Replacement Lens	Replacement Lamp
Flashing Beacon Halogen Gray Base	**125HALFA24A**	24V AC	0.770 A	Amber	125LA	50LMP-9WH-D or Ind. Trade No. 1692[3] 9 watts 15,000 hrs[2]
	125HALFB24A	24V AC	0.770 A	Blue	125LB	
	125HALFC24A	24V AC	0.770 A	Clear	125LC	
	125HALFG24A	24V AC	0.770 A	Green	125LG	
	125HALFR24A	24V AC	0.770 A	Red	125LR	
	125HALFA120A	120V AC	0.200 A	Amber	125LA	50LMP-12WH-D or Ind. Trade No. 15T7DC[3] 12 watts 25,000 hrs[2]
	125HALFB120A	120V AC	0.200 A	Blue	125LB	
	125HALFC120A	120V AC	0.200 A	Clear	125LC	
	125HALFG120A	120V AC	0.200 A	Green	125LG	
	125HALFR120A	120V AC	0.200 A	Red	125LR	
	125HALFA24D	24V DC	0.770 A	Amber	125LA	50LMP-9WH-D or Ind. Trade No. 1692[3] 9 watts 15,000 hrs[2]
	125HALFB24D	24V DC	0.770 A	Blue	125LB	
	125HALFC24D	24V DC	0.770 A	Clear	125LC	
	125HALFG24D	24V DC	0.770 A	Green	125LG	
	125HALFR24D	24V DC	0.770 A	Red	125LR	
Flashing Beacon Halogen Black Base	**125HALFA24AB**	24V AC	0.770 A	Amber	125LA	50LMP-9WH-D or Ind. Trade No. 1692[3] 9 watts 15,000 hrs[2]
	125HALFB24AB	24V AC	0.770 A	Blue	125LB	
	125HALFC24AB	24V AC	0.770 A	Clear	125LC	
	125HALFG24AB	24V AC	0.770 A	Green	125LG	
	125HALFR24AB	24V AC	0.770 A	Red	125LR	
	125HALFA120AB	120V AC	0.200 A	Amber	125LA	50LMP-12WH-D or Ind. Trade No. 15T7DC[3] 12 watts 25,000 hrs[2]
	125HALFB120AB	120V AC	0.200 A	Blue	125LB	
	125HALFC120AB	120V AC	0.200 A	Clear	125LC	
	125HALFG120AB	120V AC	0.200 A	Green	125LG	
	125HALFR120AB	120V AC	0.200 A	Red	125LR	
	125HALFA24DB	24V DC	0.770 A	Amber	125LA	50LMP-9WH-D or Ind. Trade No. 1692[3] 9 watts 15,000 hrs[2]
	125HALFB24DB	24V DC	0.770 A	Blue	125LB	
	125HALFC24DB	24V DC	0.770 A	Clear	125LC	
	125HALFG24DB	24V DC	0.770 A	Green	125LG	
	125HALFR24DB	24V DC	0.770 A	Red	125LR	

[1]AC voltage frequency is 50/60 Hz
[2]Projected lamp life based on manufacturers calculated lamp life at 65 fpm and 50% duty cycle
[3]Incandescent lamps, user supplied



Beacons
Flashing Halogen
125 Class

Accessories

Description	Cat. No.
Protective Wire Guard	**125GRD**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

125GRD
Protective Wire Guard

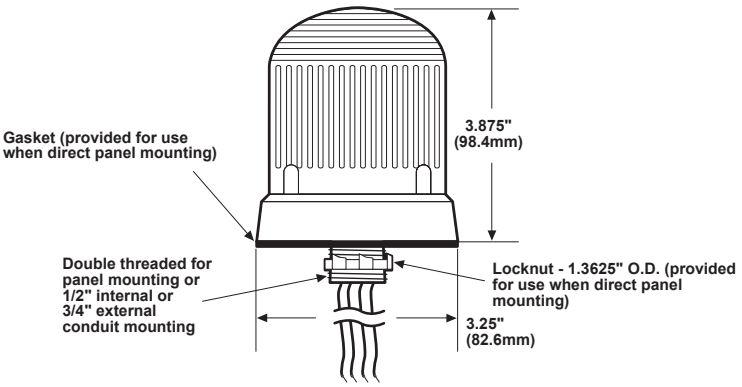
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125HALF*24A	0.47	0.56
125HALF*120A	0.47	0.56
125HALF*24D	0.47	0.56
125HALF*24AB	0.47	0.56
125HALF*120AB	0.47	0.56
125HALF*24DB	0.47	0.56
125GRD	0.61	0.77
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, C - clear



Beacons
Flashing Incandescent
125 Class

NEW

Edwards 125 Class standard flashing Incandescent beacons are NEMA Type 4X signaling devices, suitable for use in indoor or outdoor applications where an intermittent (flashing) light source is required. Base material is gray or black, manufactured from a 33% glass filled nylon, providing a high resistance to heat and chemicals. The lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Incandescent light source
- Flash rate 65 fpm
- Shatter-resistant polycarbonate lens
- Gray or black glass filled nylon base
- Suitable for indoor or outdoor applications
- For outdoor use, lens should face up
- Option for panel or conduit mounting
- NEMA Type 4X enclosure
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Replacement Lens	Replacement Lamp
Flashing Beacon Incandescent Gray Base	**125INCFA120A**	120V AC	0.150 A	Amber	125LA	Industry Trade 15T7DC[2]
	125INCFB120A	120V AC	0.150 A	Blue	125LB	
	125INCFC120A	120V AC	0.150 A	Clear	125LC	
	125INCFG120A	120V AC	0.150 A	Green	125LG	
	125INCFR120A	120V AC	0.150 A	Red	125LR	
	125INCFA24D	24V DC	0.610 A	Amber	125LA	Industry Trade 1692[2]
	125INCFB24D	24V DC	0.610 A	Blue	125LB	
	125INCFC24D	24V DC	0.610 A	Clear	125LC	
	125INCFG24D	24V DC	0.610 A	Green	125LG	
	125INCFR24D	24V DC	0.610 A	Red	125LR	
Flashing Beacon Incandescent Black Base	**125INCFA120AB**	120V AC	0.150 A	Amber	125LA	Industry Trade 15T7DC[2]
	125INCFB120AB	120V AC	0.150 A	Blue	125LB	
	125INCFC120AB	120V AC	0.150 A	Clear	125LC	
	125INCFG120AB	120V AC	0.150 A	Green	125LG	
	125INCFR120AB	120V AC	0.150 A	Red	125LR	
	125INCFA24DB	24V DC	0.610 A	Amber	125LA	Industry Trade 1692[2]
	125INCFB24DB	24V DC	0.610 A	Blue	125LB	
	125INCFC24DB	24V DC	0.610 A	Clear	125LC	
	125INCFG24DB	24V DC	0.610 A	Green	125LG	
	125INCFR24DB	24V DC	0.610 A	Red	125LR	

[1]AC voltage frequency is 50/60 Hz
[2]User supplied

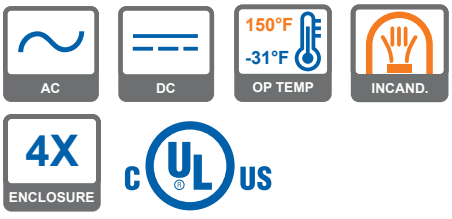
Accessories

Description	Cat. No.
Protective Wire Guard	**125GRD**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

125GRD
Protective Wire Guard

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket



Beacons
Flashing Incandescent
125 Class

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

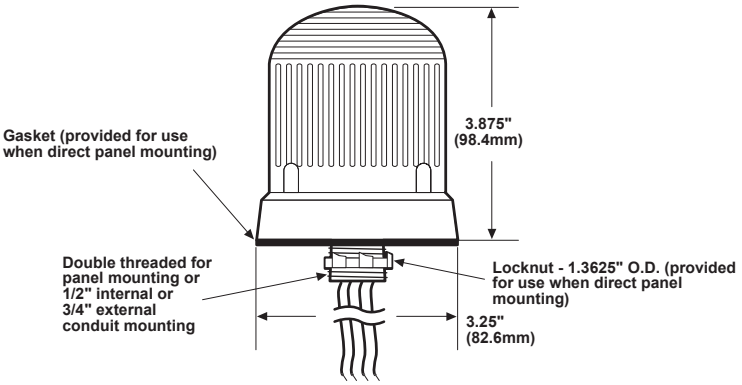
Cat. No.[1]	Operating[2] Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Repetitive Surge	Surge (inrush / duration)
125INCF*24D	24V DC	0.025	0.610	0.68 A	7 A Exponentially Decaying
125INCF*120A	120V AC	0.025	0.150	0.3 A / 8 ms	0.8 A Exponentially Decaying

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, or R - red
[1]Applies to all models with any lens color and with either a gray or black base.
[2]AC voltage frequency is 50/60 Hz

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125INCF*120A	0.47	0.56
125INCF*24D	0.47	0.56
125INCF*120AB	0.47	0.56
125INCF*24DB	0.47	0.56
125GRD	0.61	0.77
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green or R - red



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Flashing LED or Incandescent
120 Class

NEW
Coming Soon

The 120 Class multi-light source beacons are flashing and require either an LED bulb or 5W incandescent bulb (sold separately).

The lenses are made from a self-extinguishing polycarbonate material, and are offered in amber, blue, green, red and clear.

The 120 Class are UL listed and carry a NEMA Type 4X and IP65 environmental rating.

Features and Specifications

- LED or Incandescent light source (not included)
- AC or DC models
- Five lens colors
- NEMA Type 4X and IP65 rated enclosure
- Multiple mounting options
- Operating temperature range: -22ºF to 122ºF (-30ºC to 50ºC)

Ordering Information

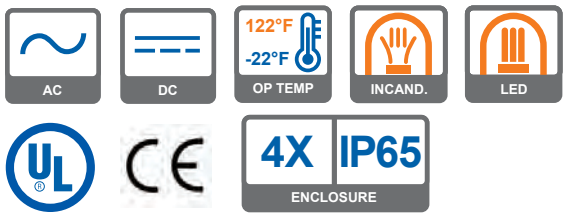
Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Watts	Candela
Flashing Beacon AC	**120FB24240A**	24-240V AC	0.21 - 0.022 A	Blue	5	3.0 - 2.5
	120FA24240A	24-240V AC	0.21 - 0.022 A	Amber	5	3.0 - 2.5
	120FR24240A	24-240V AC	0.21 - 0.022 A	Red	5	3.0 - 2.5
	120FG24240A	24-240V AC	0.21 - 0.022 A	Green	5	3.0 - 2.5
	120FW24240A	24-240V AC	0.21 - 0.022 A	Clear	5	3.0 - 2.5
Flashing Beacon DC	**120FB1248D**	12-48V DC	0.43 - 0.10 A	Blue	5	4.0 - 3.0
	120FA1248D	12-48V DC	0.43 - 0.10 A	Amber	5	4.0 - 3.0
	120FR1248D	12-48V DC	0.43 - 0.10 A	Red	5	4.0 - 3.0
	120FG1248D	12-48V DC	0.43 - 0.10 A	Green	5	4.0 - 3.0
	120FW1248D	12-48V DC	0.43 - 0.10 A	Clear	5	4.0 - 3.0

[1]AC voltage frequency is 50/60 Hz.

Accessories

Description	Cat. No.
Junction Box	**270JBX**
Footing with Extension	**270KIT**
Threaded Extension Pole 100mm	**270TEP**
Threaded Footing	**270THF**
Threaded Wall Mount	**270TWM**
Double Threaded Wall Mount	**270TWM2**
Female Adapter Base	**270FMLADAPT**

Junction Box | Footing with Extension | Threaded Extension Pole | Threaded Footing | Threaded Wall Mount | Double Threaded Wall Mount | Female Adapter Base



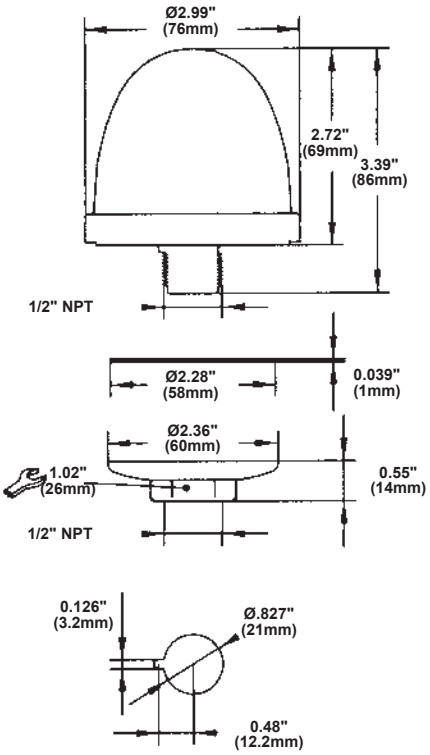
Beacons
Flashing LED or Incandescent
120 Class

Bulbs

Description	Cat. No.	Operating Voltage	LED Color
LED Bulb	**270LEDB120V**	120V AC	Blue
	270LEDA120V	120V AC	Amber
	270LEDR120V	120V AC	Red
	270LEDG120V	120V AC	Green
	270LEDW120V	120V AC	White
	270LEDB240V	230/240V AC	Blue
	270LEDA240V	230/240V AC	Amber
	270LEDR240V	230/240V AC	Red
	270LEDG240V	230/240V AC	Green
	270LEDW240V	230/240V AC	White
	270LEDB12V	12V AC/DC	Blue
	270LEDA12V	12V AC/DC	Amber
	270LEDR12V	12V AC/DC	Red
	270LEDG12V	12V AC/DC	Green
	270LEDW12V	12V AC/DC	White
	270LEDB24V	24V AC/DC	Blue
	270LEDA24V	24V AC/DC	Amber
	270LEDR24V	24V AC/DC	Red
	270LEDG24V	24V AC/DC	Green
	270LEDW24V	24V AC/DC	White
5W Incandescent Bulb	**2705W120V**	120V AC	
5W Incandescent Bulb-25 Pack	**2705W120V25PK**	120V AC	
5W Incandescent Bulb	**2705W240V**	240V AC	
5W Incandescent Bulb-25 Pack	**2705W240V25PK**	240V AC	
5W Incandescent Bulb	**2705W12V**	12V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W12V25PK**	12V AC/DC	
5W Incandescent Bulb	**2705W24V**	24V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W24V25PK**	24V AC/DC	
5W Incandescent Bulb	**2705W48V**	48V AC/DC	
5W Incandescent Bulb-25 Pack	**2705W48V25PK**	48V AC/DC	

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
120FB24240A	0.29	0.95
120FA24240A	0.29	0.95
120FR24240A	0.29	0.95
120FG24240A	0.29	0.95
120FW24240A	0.29	0.95
120FB1248D	0.29	0.95
120FA1248D	0.29	0.95
120FR1248D	0.29	0.95
120FG1248D	0.29	0.95
120FW1248D	0.29	0.95
270JBX	0.22	0.90
270KIT	0.13	1.10
270TEP	0.07	0.22
270THF	0.07	0.29
270TWM	0.09	0.59
270TWM2	0.11	0.62
270FMLADAPT	0.02	0.26



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Flashing Halogen
105 Series

Edwards 105 Series flashing Halogen beacons are NEMA Type 4X signaling devices, suitable for use in indoor or outdoor applications where an intermittent (flashing) light source is required. Base material is gray, manufactured from glass-reinforced thermoplastic polyester resin and features brass hardware. The double fresnel lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Halogen light source
- Flash rate 65 fpm
- Shatter-resistant double fresnel polycarbonate lens
- Gray Rynite® (PET) base with brass hardware
- Suitable for indoor, outdoor and marine applications
- For outdoor use, lens should face up
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III
- Option for panel or conduit mounting

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Color	Peak Candela	Lamp Ratings	Replacement	
							Lens	Lamp
Flashing Beacon Halogen AC	**105FINHA-G5**	24V AC	0.8 A	Amber	2839	20W, 20,000 hours[1,2]	105-LA	50LMP-20WH or Ind. Trade No. 1692[3]
	105FINHB-G5	24V AC	0.8 A	Blue			105-LB	
	105FINHC-G5	24V AC	0.8 A	Clear			105-LC	
	105FINHG-G5	24V AC	0.8 A	Green			105-LG	
	105FINHM-G5	24V AC	0.8 A	Magenta			105-LM	
	105FINHR-G5	24V AC	0.8 A	Red			105-LR	
	105FINHA-N5	120V AC	0.2 A	Amber	2198	25W, 20,000 hours[1,2]	105-LA	50LMP-25WH or Ind. Trade No. 25T8DC[3]
	105FINHB-N5	120V AC	0.2 A	Blue			105-LB	
	105FINHC-N5	120V AC	0.2 A	Clear			105-LC	
	105FINHG-N5	120V AC	0.2 A	Green			105-LG	
	105FINHM-N5	120V AC	0.2 A	Magenta			105-LM	
	105FINHR-N5	120V AC	0.2 A	Red			105-LR	
Flashing Beacon Halogen DC	**105FINHA-G1**	24V DC	0.8 A	Amber	2839	20W, 20,000 hours[1,2]	105-LA	50LMP-20WH or Ind. Trade No. 1692[3]
	105FINHB-G1	24V DC	0.8 A	Blue			105-LB	
	105FINHC-G1	24V DC	0.8 A	Clear			105-LC	
	105FINHG-G1	24V DC	0.8 A	Green			105-LG	
	105FINHM-G1	24V DC	0.8 A	Magenta			105-LM	
	105FINHR-G1	24V DC	0.8 A	Red			105-LR	

[1]At nominal operating voltage.
[2]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[3]Incandescent lamp, user supplied

Accessories

Description	Cat. No.
Wall Mount Bracket	**105BM**[4]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

[4]Must be used with the 105BX.

Wall Mount Bracket

Outlet Box Attachment

Pipe Mount Attachment

Beacons
Flashing Halogen
105 Series

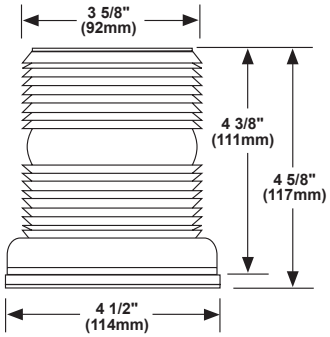
Hazardous Location Listings

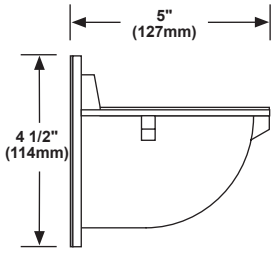
Cat. No.	Class	Division	Group	Operating Temperature
105FINH*-N5 105SINH*-N5	I	2	A, B, C, D	T2 (300°C, 572°F)
	II	2	F, G	T4 (135°C, 275°F)
	III			T4 (135°C, 275°F)

Weights and Dimensions

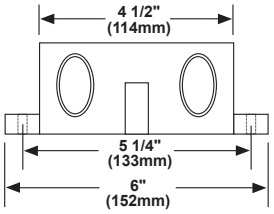
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105FINH*-G5	0.88	1.04
105FINH*-N5	0.88	1.04
105FINH*-G1	0.88	1.04
105BX	0.80	1.00
105BM	1.00	1.20
105PM	0.80	1.00

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

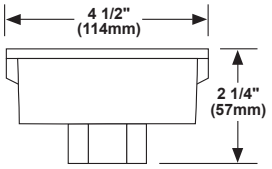




Cat. No. 105BM Mounting Bracket
(Must be used with 105BX)



Cat. No. 105BX
Outlet Box Attachment
(4) 3/4" Threaded Hubs



Cat. No. 105PM
Pipe Mount Attachment
(Pipe mount is 3/4" NPT)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Flashing Halogen or Incandescent
48 Series

4.28"

R A M G B C

Edwards Signaling 48 Series mid-sized, Halogen and Incandescent flashing beacons are economical, NEMA Type 4X rated devices suitable for use in indoor or outdoor applications where a flashing light source is required. Base material is gray ABS. Unique snap-on, high-impact polycarbonate double fresnel lens is optically engineered to maximize light distribution and viewing distance.

Features and Specifications

- Halogen or Incandescent light source
- Flash rate 65 fpm
- Quick snap-on, high-impact polycarbonate lens
- Gray ABS base
- Suitable for use in indoor and outdoor applications
- For outdoor use, lens should face up
- Option for panel or conduit mounting
- NEMA Type 4X enclosure
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Operating Current	Lens Colors	Lamp Ratings[1]	Replacement		
						Lens	Flasher	Lamp
Flashing Beacon Halogen	**48FINR-G5-20WH**	24V AC	0.80 A	Red	25,000 hr.	96-LR	P-041917-0029	50LMP-20WH or Ind. Trade No. 1692[2,3]
	48FING-G5-20WH	24V AC	0.80 A	Green	25,000 hr.	96-LG		
	48FINA-G5-20WH	24V AC	0.80 A	Amber	25,000 hr.	96-LA		
	48FINB-G5-20WH	24V AC	0.80 A	Blue	25,000 hr.	96-LB		
	48FINC-G5-20WH	24V AC	0.80 A	Clear	25,000 hr.	96-LC		
	48FINM-G5-20WH	24V AC	0.80 A	Magenta	25,000 hr.	96-LM		
	48FINR-N5-25WH	120V AC	0.20 A	Red	25,000 hr.	96-LR	P-041917-0026	50LMP-25WH or Ind. Trade No. 25T8DC[2,3]
	48FING-N5-25WH	120V AC	0.20 A	Green	25,000 hr.	96-LG		
	48FINA-N5-25WH	120V AC	0.20 A	Amber	25,000 hr.	96-LA		
	48FINB-N5-25WH	120V AC	0.20 A	Blue	25,000 hr.	96-LB		
	48FINC-N5-25WH	120V AC	0.20 A	Clear	25,000 hr.	96-LC		
	48FINM-N5-25WH	120V AC	0.20 A	Magenta	25,000 hr.	96-LM		
	48FINR-G1-20WH	24V DC	0.80 A	Red	25,000 hr.	96-LR	P-041917-0029	50LMP-20WH
	48FING-G1-20WH	24V DC	0.80 A	Green	25,000 hr.	96-LG		
	48FINA-G1-20WH	24V DC	0.80 A	Amber	25,000 hr.	96-LA		
	48FINB-G1-20WH	24V DC	0.80 A	Blue	25,000 hr.	96-LB		
	48FINC-G1-20WH	24V DC	0.80 A	Clear	25,000 hr.	96-LC		
	48FINM-G1-20WH	24V DC	0.80 A	Magenta	25,000 hr.	96-LM		
Flashing Beacon Incandescent	**48FINR-E1**	12V DC	1.0 A	Red	1,520 hr.	96-LR	P-041917-0028	Industry Trade No. 94[3]
	48FING-E1	12V DC	1.0 A	Green	1,520 hr.	96-LG		
	48FINA-E1	12V DC	1.0 A	Amber	1,520 hr.	96-LA		
	48FINB-E1	12V DC	1.0 A	Blue	1,520 hr.	96-LB		
	48FINC-E1	12V DC	1.0 A	Clear	1,520 hr.	96-LC		
	48FINM-E1	12V DC	1.0 A	Magenta	1,520 hr.	96-LM		

[1]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[2]Incandescent lamps
[3]User supplied

AC | DC | 150°F -31°F OP TEMP | HALOGEN | INCAND. | 4X ENCLOSURE | UL

Beacons
Flashing Halogen or Incandescent
48 Series

Accessories

Description	Cat. No.
Gasket Kit suitable for outdoor surface installation – AC models	**GSK-KIT**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

GSK-KIT
Gasket Kit

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

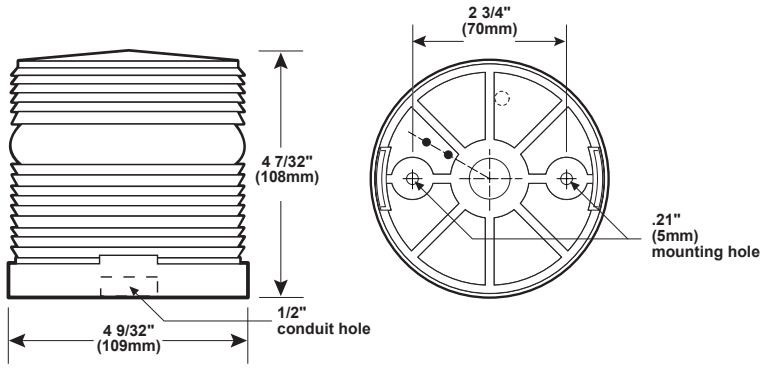
Cat. No.	Operating[1] Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
48FIN*-N5-25WH	120V AC	0.025	0.200	1.3 A / 8 mSeconds
48FIN*-G1-20WH	24V DC	0.025	0.800	2.2 A / 100 mSeconds

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red
[1]AC voltage frequency is 50/60 Hz

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
48FIN*-G5-20WH	0.16	0.32
48FIN*-N5-25WH	0.16	0.32
48FIN*-G1-20WH	0.16	0.32
48FIN*-E1	0.70	0.86
GSK-KIT	0.70	1.00
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Use Cat. No. GSK-KIT gasket kit suitable for outdoor surface mount installation on AC units

Beacons
Flashing Halogen
49 Series

Edwards 49 Series flashing Halogen beacons are signaling devices, suitable for use in indoor or outdoor applications where an intermittent (flashing) light source is required. They feature a protective polycarbonate dome and a cast metal base that can be used as a junction box. The double fresnel lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Halogen light source
- Flash rate 65 fpm
- Shatter-resistant double fresnel polycarbonate lens
- Protective polycarbonate dome
- Cast metal base
- Suitable for use in indoor and outdoor applications
- For outdoor use, lens should face up
- 1/2" NPT conduit or surface mounting
- Designed for 4" octagonal box mounting
- Option for panel, conduit or wall mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Lamp Ratings	Replacement			
						Dome	Lens	Flasher	Lamp
Flashing Beacon Halogen	**49R-N5-40WH**	120V AC	0.30 A	Red	40 watts 265 lumens[2] 3328 candela 25,000 hours[3]	52-LC	92-LR	P-041917-0026	50LMP-40WH
	49A-N5-40WH	120V AC	0.30 A	Amber		52-LC	92-LA		
	49B-N5-40WH	120V AC	0.30 A	Blue		52-LC	92-LB		
	49G-N5-40WH	120V AC	0.30 A	Green		52-LC	92-LG		
	49M-N5-40WH	120V AC	0.30 A	Magenta		52-LC	92-LM		
	49C-N5-40WH	120V AC	0.30 A	Clear		52-LC	92-LC		
	49R-R5	240V AC	0.10 A	Red	25 watts 232 lumens[2] 2914 candela 120 hours[3]	52-LC	92-LR	P-041917-0038	P-041917-0039 or Industry Trade No. 25T8/240V/DC/CL[4]
	49A-R5	240V AC	0.10 A	Amber		52-LC	92-LA		
	49B-R5	240V AC	0.10 A	Blue		52-LC	92-LB		
	49G-R5	240V AC	0.10 A	Green		52-LC	92-LG		
	49M-R5	240V AC	0.10 A	Magenta		52-LC	92-LM		
	49C-R5	240V AC	0.10 A	Clear		52-LC	92-LC		

[1]AC voltage frequency is 50/60 Hz
[2]Bulb manufacturer's lumen rating
[3]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[4]User supplied

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

CBR
Corner Mount Bracket

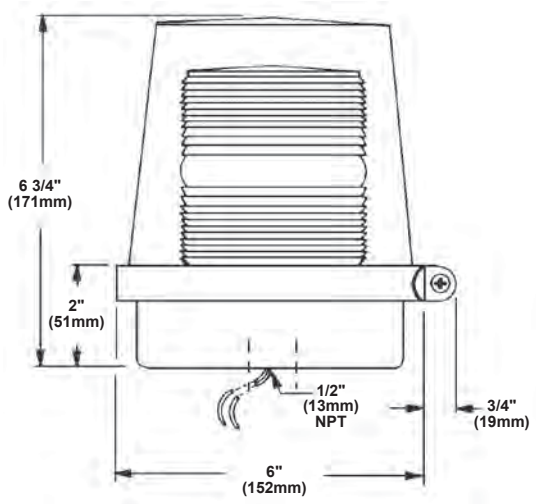
WBR
Wall Mount Bracket

Beacons
Flashing Halogen
49 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
49*-N5-40WH	1.73	2.06
49*-R5	1.73	2.06
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Halogen
50 Series

Edwards 50 Series flashing Halogen beacons are signaling devices, suitable for use in indoor or outdoor applications where an intermittent (flashing) light source is required. They feature a cast metal base that can be used as a junction box. The double fresnel lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Halogen light source
- Flash rate 65 fpm
- Shatter-resistant double fresnel polycarbonate lens
- Cast metal base
- Suitable for use in indoor and outdoor applications
- For outdoor use, lens should face up
- 1/2" NPT conduit or surface mounting
- Designed for 4" octagonal box mounting
- Option for panel, conduit or wall mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Lamp Ratings	Replacement Lens	Replacement Flasher	Replacement Lamp
Flashing Beacon Halogen	**50A-G5-20WH**	24V AC	0.80 A	Amber	20 watts 226 lumens[2] 2839 candela 25,000 hours[3]	92-LA	P-041917-0029	50LMP-20WH or Industry Trade No. 1692[4,5]
	50B-G5-20WH	24V AC	0.80 A	Blue		92-LB		
	50C-G5-20WH	24V AC	0.80 A	Clear		92-LC		
	50G-G5-20WH	24V AC	0.80 A	Green		92-LG		
	50M-G5-20WH	24V AC	0.80 A	Magenta		92-LM		
	50R-G5-20WH	24V AC	0.80 A	Red		92-LR		
	50A-N5-40WH	120V AC	0.30 A	Amber	40 watts 265 lumens[2] 3328 candela 25,000 hours[3]	92-LA	P-041917-0026	50LMP-40WH
	50B-N5-40WH	120V AC	0.30 A	Blue		92-LB		
	50C-N5-40WH	120V AC	0.30 A	Clear		92-LC		
	50G-N5-40WH	120V AC	0.30 A	Green		92-LG		
	50M-N5-40WH	120V AC	0.30 A	Magenta		92-LM		
	50R-N5-40WH	120V AC	0.30 A	Red		92-LR		
	50A-R5	240V AC	0.10 A	Amber	25 watts 232 lumens[2] 2914 candela 120 hours[3]	92-LA	P-041917-0038	P-041917-0039 or Industry Trade No. 25T8/240V/DC/CL[5]
	50B-R5	240V AC	0.10 A	Blue		92-LB		
	50C-R5	240V AC	0.10 A	Clear		92-LC		
	50G-R5	240V AC	0.10 A	Green		92-LG		
	50M-R5	240V AC	0.10 A	Magenta		92-LM		
	50R-R5	240V AC	0.10 A	Red		92-LR		

[1]AC voltage frequency is 50/60 Hz
[2]Bulb manufacturer's lumen rating
[3]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[4]Incandescent lamps
[5]User supplied

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**
Lens Guard	**92-GRD**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

92-GRD
Lens Guard

Beacons
Flashing Halogen
50 Series

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

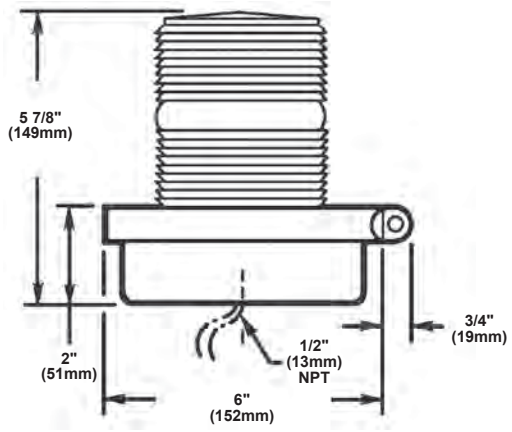
Cat. No.	Operating[1] Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
50*-N5-40WH	120V AC	0.025	0.300	2 A / 8 mSeconds

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red
[1]AC voltage frequency is 60 Hz

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
50*-G5-20WH	1.54	1.87
50*-N5-40WH	1.54	1.87
50*-R5	1.54	1.87
CBR	4.00	4.20
WBR	2.30	2.50
92-GRD	0.31	0.47

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing LED
Klaxon Syrex Series

The Syrex IS beacon is an intrinsically safe visual beacon suitable for use in hazardous area applications.

With a low current consumption, the Syrex IS beacon is ideal for both warning and process control applications.

The Syrex IS beacon must be used with a galvanic isolator specified by the system certificates.

Features and Specifications

- LED light source
- Rated for Category 1
- ATEX approved
- Ⓔx II 1G EEx ia IIC T4
- ABS flame retardant UL94V0 and 5VA housing
- IP65 rated
- Flash rate 2 Hz or 1 Hz (double flash)
- Operating temperature range: -40ºF to 140ºF (-40ºC to 60ºC)

Ordering Information

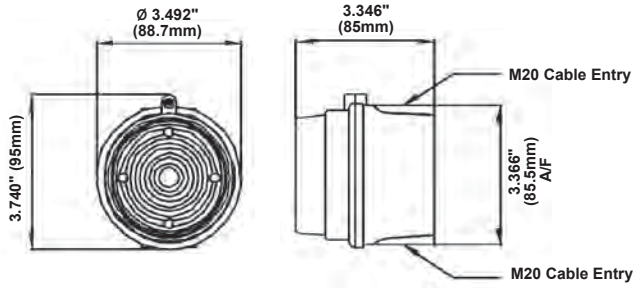
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Lens Color
IS-XN Beacon	**17-970329**	**TCA-0026**	6-28V DC	0.025 A	Red
	17-970337	**TCA-0033**	6-28V DC	0.025 A	Amber
	17-970338	**TCA-0034**	6-28V DC	0.025 A	Blue
	17-970339	**TCA-0067**	6-28V DC	0.025 A	Green

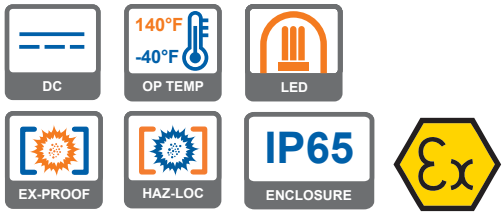
Accessories

Description	Edwards Cat. No.	Klaxon Cat. No.
Single Channel Galvanic Isolator	**17-970362**	**TCA-0042**
Dual Channel Galvanic Isolator	**17-970395**	**TCA-0066**
IS DIN Rail Enclosure (will accept 2X isolators)	**17-970392**	**TCA-0065**

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
17-970329	**TCA-0026**	0.77
17-970337	**TCA-0033**	0.77
17-970338	**TCA-0034**	0.77
17-970339	**TCA-0067**	0.77
17-970362	**TCA-0042**	0.50
17-970395	**TCA-0066**	0.50
17-970392	**TCA-0065**	0.50





Beacons
Flashing LED
Klaxon Sonos Series

R A

The Sonos Series LED beacon features connections made to the base during the initial wiring phase which results in faster and more reliable installation. The beacon head 'twists and clicks' into the base on commissioning, avoiding the wiring and connection problems associated with traditional alarm devices.

Deep base units have an IP65 rating and are suitable for use in indoor and outdoor applications. The Sonos Beacon utilizes a full faced, translucent case which provides a large lens area and a greater spread of light.

Sonos Beacon units have a deep or shallow red color base as standard and are available with a red or amber lens.

Features and Specifications

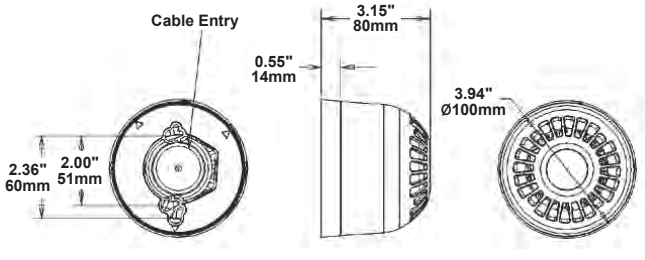
- LED light source
- High efficiency LED beacon consumes less than 5mA
- IP65 rated (deep base); IP21 rated (shallow base)
- Flame resistant polycarbonate construction
- Operating temperature range: -13°F to 158°F (-25°C to 70°C)

Ordering Information

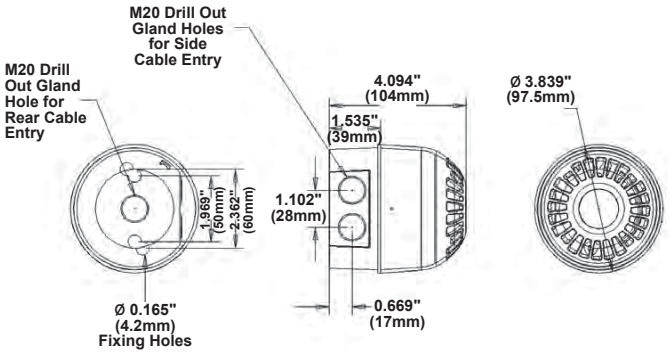
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Base	Lens Color
Flashing LED	**18-980507**	**PSB-0009**	17-60V DC	0.005 A	Red; shallow	Red
	18-980510	**PSB-0026**	17-60V DC	0.005 A	Red; shallow	Amber
	18-980508	**PSB-0017**	17-60V DC	0.005 A	Red; deep	Red
	18-980511	**PSB-0031**	17-60V DC	0.005 A	Red; deep	Amber

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
18-980507	**PSB-0009**	0.49
18-980510	**PSB-0026**	0.49
18-980508	**PSB-0017**	0.55
18-980511	**PSB-0031**	0.55



Shallow Base



Deep Base

DC | 158°F -13°F OP TEMP | LED

IP21 ENCLOSURE — Shallow Base

IP65 ENCLOSURE — Deep Base

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Flashing LED
Klaxon Flashguard Series

Flashguard Flashing LED beacons are visual indicators suitable for use in indoor and outdoor applications.

All Flashguard beacons are fitted with a diffuser for greater visibility and spread of light.

They include a terminal block and a 27mm deep base supplied with a seal and grommet.

An upgrade kit (with cable connector) is available to upgrade the product from IP65 rating to IP67.

Features and Specifications

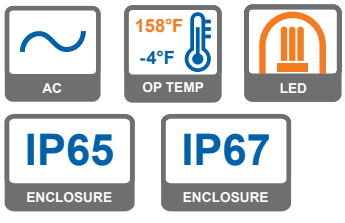
- LED light source
- Compact, ultra modern sleek appearance
- IP65 rated; IP67 rated (with upgrade kit)
- White, high quality polycarbonate housing
- Suitable for use in indoor and outdoor applications
- Vandal-resistant safety locking mechanism
- Operating temperature range: -4°F to 158°F (-20°C to +70°C)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Lens Colors	Flash Rate
LED Beacon Flashing	**45-711811**	**QBS-0012**	110V AC	0.032 A	Red	60 fpm
	45-711821	**QBS-0013**	110V AC	0.032 A	Amber	60 fpm
	45-711831	**QBS-0014**	110V AC	0.032 A	Clear	60 fpm
	45-711841	**QBS-0015**	110V AC	0.032 A	Blue	60 fpm
	45-711851	**QBS-0016**	110V AC	0.032 A	Green	60 fpm
	45-712811	**QBS-0027**	230V AC	0.032 A	Red	60 fpm
	45-712821	**QBS-0028**	230V AC	0.032 A	Amber	60 fpm
	45-712831	**QBS-0029**	230V AC	0.032 A	Clear	60 fpm
	45-712841	**QBS-0030**	230V AC	0.032 A	Blue	60 fpm
	45-712851	**QBS-0031**	230V AC	0.032 A	Green	60 fpm

Accessories

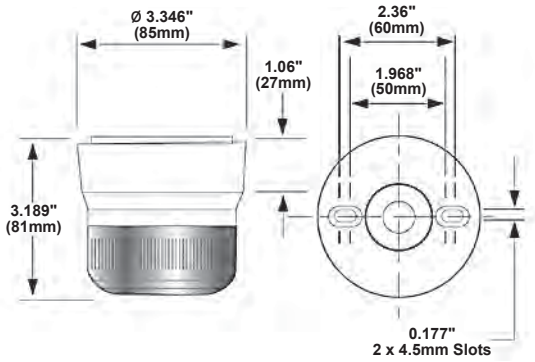
Description	Edwards Cat. No.	Klaxon Cat. No.
IP67 Upgrade Kit (AC)	**45-710001**	**QBO-0005**



Beacons
Flashing LED
Klaxon Flashguard Series

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat.No.	Approx. Net Weight (lb.)
45-711811	QBS-0012	0.31
45-711821	QBS-0013	0.31
45-711831	QBS-0014	0.31
45-711841	QBS-0015	0.31
45-711851	QBS-0016	0.31
45-712811	QBS-0027	0.31
45-712821	QBS-0028	0.31
45-712831	QBS-0029	0.31
45-712841	QBS-0030	0.31
45-712851	QBS-0031	0.31



Beacons
Flashing Xenon
Klaxon Sonos Series

Sonos Series Xenon beacon is a general purpose, high output Xenon beacon designed for industrial applications.

Sonos Xenon beacons are rated to IP65 and are suitable for use in indoor and outdoor applications.

The Sonos Xenon beacon features a full faced, translucent case giving a much larger lens area. This results in a greater light spread for more effective warning.

Features and Specifications

- Xenon strobe light source
- Flame retardant polycarbonate construction
- Red base
- IP65 rated
- Single/double flash (DC version)
- Operating temperature range: -13ºF to 131ºF (-25ºC to 55ºC)

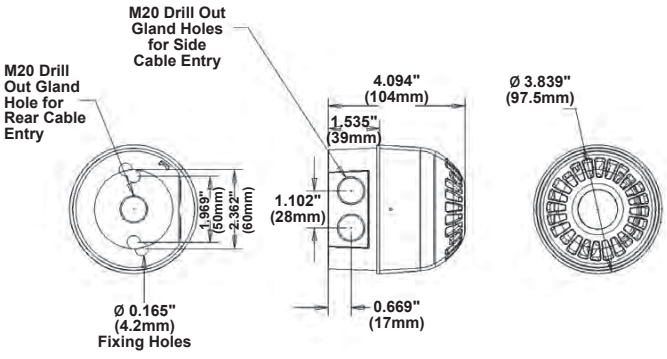
R A C

Ordering Information

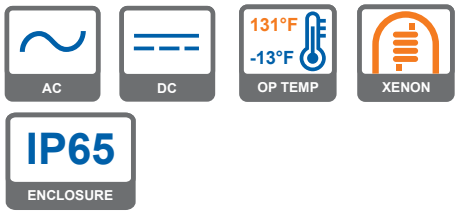
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Lens Color
Flashing Xenon AC	18-980482	PSB-0002	110 - 230V AC	0.070 A	Red
	18-980483	PSB-0004	110 - 230V AC	0.070 A	Amber
	18-980583	PSB-0038	110 - 230V AC	0.070 A	Clear
Flashing Xenon DC	18-980584	PSB-0039	10 - 60V DC	0.330 A/24V DC	Red
	18-980585	PSB-0040	10 - 60V DC	0.330 A/24V DC	Amber
	18-980586	PSB-0041	10 - 60V DC	0.330 A/24V DC	Clear

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat No	Approx. Net Weight (lb.)
18-980482	PSB-0002	0.55
18-980483	PSB-0004	0.55
18-980583	PSB-0038	0.55
18-980584	PSB-0039	0.55
18-980585	PSB-0040	0.55
18-980586	PSB-0041	0.55



Deep Base



Beacons
Flashing Xenon
Klaxon Flashguard Series

Flashguard Xenon beacons are visual indicators suitable for use in indoor and outdoor applications.

All Flashguard beacons are fitted with a diffuser for greater visibility and spread of light. Two styles are available, Standard and Low Profile.

Standard: includes a terminal block and a 27mm deep base supplied with a seal and grommet.

Low Profile: comes complete with a screw and nylon wing nut and is supplied with mounting gasket and 40cm of cable.

An upgrade kit (with cable connector) is available to upgrade the standard beacon from IP65 rating to IP67.

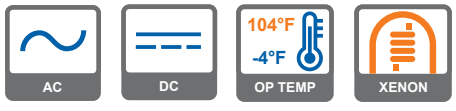
Features and Specifications

- Xenon light source
- Flash rate 60 fpm
- Compact, ultra modern sleek appearance
- White, high quality polycarbonate housing
- Suitable for use in indoor and outdoor applications
- 12V and 24V DC options in one user-selectable unit
- Vandal-resistant safety locking mechanism
- IP65 (Standard); IP67 (Low Profile)
- Operating temperature range: -4°F to 104°F (-20°C to 40°C)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Current	Lens Color	Watts
Standard Xenon	45-711311	QBS-0002	110V AC	0.024 A	Red	3
	45-711321	QBS-0003	110V AC	0.024 A	Amber	3
	45-711331	QBS-0004	110V AC	0.024 A	Clear	3
	45-711341	QBS-0005	110V AC	0.024 A	Blue	3
	45-711351	QBS-0006	110V AC	0.024 A	Green	3
	45-712311	QBS-0017	230V AC	0.015 A	Red	3
	45-712321	QBS-0018	230V AC	0.015 A	Amber	3
	45-712331	QBS-0019	230V AC	0.015 A	Clear	3
	45-712341	QBS-0020	230V AC	0.015 A	Blue	3
	45-712351	QBS-0021	230V AC	0.015 A	Green	3
	45-713111	QBS-0032	12/24V DC	0.060 A/0.045 A	Red	1
	45-713121	QBS-0034	12/24V DC	0.060 A/0.045 A	Amber	1
	45-713131	QBS-0035	12/24V DC	0.060 A/0.045 A	Clear	1
	45-713141	QBS-0036	12/24V DC	0.060 A/0.045 A	Blue	1
	45-713151	QBS-0037	12/24V DC	0.060 A/0.045 A	Green	1
	45-713211	QBS-0038	12/24V DC	0.115 A/0.070 A	Red	2
	45-713221	QBS-0042	12/24V DC	0.115 A/0.070 A	Amber	2
	45-713231	TKA-0126	12/24V DC	0.115 A/0.070 A	Clear	2
	45-713241	QBS-0047	12/24V DC	0.115 A/0.070 A	Blue	2
	45-713251	QBS-0050	12/24V DC	0.115 A/0.070 A	Green	2
	45-713311	QBS-0052	12/24V DC	0.14 A/0.085 A	Red	3
	45-713321	QBS-0054	12/24V DC	0.14 A/0.085 A	Amber	3
	45-713331	QBS-0055	12/24V DC	0.14 A/0.085 A	Clear	3
	45-713341	QBS-0056	12/24V DC	0.14 A/0.085 A	Blue	3
	45-713351	QBS-0058	12/24V DC	0.14 A/0.085 A	Green	3
	45-716411	QBS-0060	11-35V DC	—	Red	—
	45-716421	QBS-0063	11-35V DC	—	Amber	—
	45-716431	QBS-0065	11-35V DC	—	Clear	—
	45-716441	QBS-0067	11-35V DC	—	Blue	—
	45-716451	QBS-0069	11-35V DC	—	Green	—

[1] 12/24V DC units are user-configurable.



Standard Low Profile

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Beacons
Flashing Xenon
Klaxon Flashguard Series

Ordering Information Continued

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Current	Lens Color	Watts
Low Profile Xenon	45-713213	QBS-0040	12/24V DC	0.115 A/0.070 A	Red	2
	45-713223	QBS-0044	12/24V DC	0.115 A/0.070 A	Amber	2
	45-713233	QBS-0046	12/24V DC	0.115 A/0.070 A	Clear	2
	45-713243	QBS-0049	12/24V DC	0.115 A/0.070 A	Blue	2
	45-713253	QBS-0051	12/24V DC	0.115 A/0.070 A	Green	2
	45-716413	QBS-0062	11-35V DC	—	Red	—
	45-716423	QBS-0064	11-35V DC	—	Amber	—
	45-716433	QBS-0066	11-35V DC	—	Clear	—
	45-716443	QBS-0068	11-35V DC	—	Blue	—
	45-716453	QBS-0070	11-35V DC	—	Green	—

[1]12/24V DC units are user-configurable.

Accessories

Description	Edwards Cat. No.	Klaxon Cat. No.
IP67 Upgrade Kit (AC)	45-710001	QBO-0005
IP67 Upgrade Kit (DC)	45-710002	QBO-0006

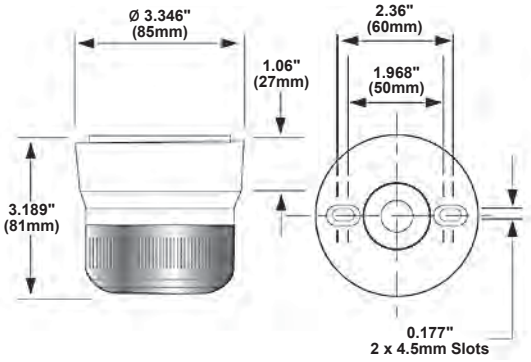
Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
45-711311	QBS-0002	0.31
45-711321	QBS-0003	0.31
45-711331	QBS-0004	0.31
45-711341	QBS-0005	0.31
45-711351	QBS-0006	0.31
45-712311	QBS-0017	0.31
45-712321	QBS-0018	0.31
45-712331	QBS-0019	0.31
45-712341	QBS-0020	0.31
45-712351	QBS-0021	0.31
45-713111	QBS-0032	0.31
45-713121	QBS-0034	0.31
45-713131	QBS-0035	0.31
45-713141	QBS-0036	0.31
45-713151	QBS-0037	0.31
45-713211	QBS-0038	0.31
45-713221	QBS-0042	0.31
45-713231	TKA-0126	0.31
45-713241	QBS-0047	0.31
45-713251	QBS-0050	0.31
45-713311	QBS-0052	0.31
45-713321	QBS-0054	0.31
45-713331	QBS-0055	0.31
45-713341	QBS-0056	0.31
45-713351	QBS-0058	0.31
45-716411	QBS-0060	0.31
45-716421	QBS-0063	0.31
45-716431	QBS-0065	0.31
45-716441	QBS-0067	0.31
45-716451	QBS-0069	0.31
45-713213	QBS-0040	0.18
45-713223	QBS-0044	0.18
45-713233	QBS-0046	0.18

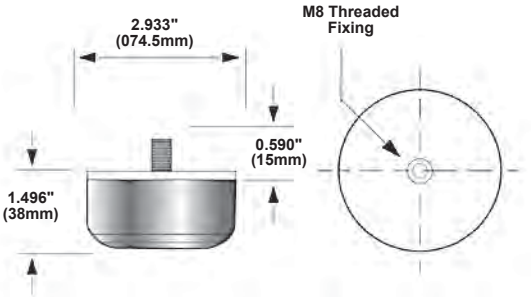
Weights and Dimensions Continued

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
45-713243	QBS-0049	0.18
45-713253	QBS-0051	0.18
45-716413	QBS-0062	0.18
45-716423	QBS-0064	0.18
45-716433	QBS-0066	0.18
45-716443	QBS-0068	0.18
45-716453	QBS-0070	0.18

Standard



Low Profile



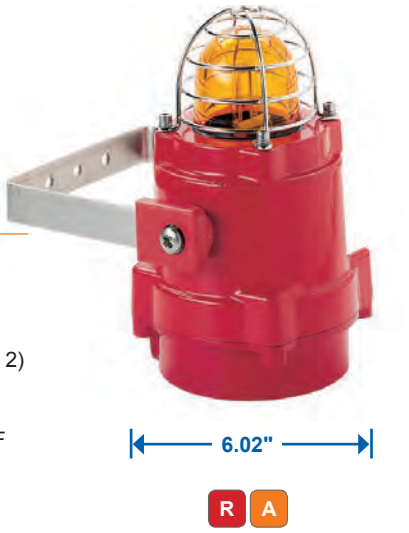
Beacons
Flashing Xenon
Klaxon Syrex Series

The Exd Beacon is a powerful Xenon beacon suitable for use in hazardous area applications. Certified to II 2G Exd IIC T6, it is suitable for use in Zone 1 and Zone 2 areas. With a choice of two lens colors (red and amber), IP67 ingress protection and rugged design, it is suitable for use in indoor and outdoor applications.

The unit is fitted with two 20mm cable entries and has terminals that accept 4mm² cable for ease of installation. Dual In/Out terminals are also available on request.

Features and Specifications

- Xenon light source
- Marine Grade LM6 aluminum construction
- Lens guard included with beacon
- IP67 rated
- Rated for Category 2 use (formerly Zone 1 & 2)
- ATEX / IECEx Approved
- Ⓔx II 2G Exd IIC T6
- Operating temperature range: -58°F to 104°F (-50°C to 40°C)



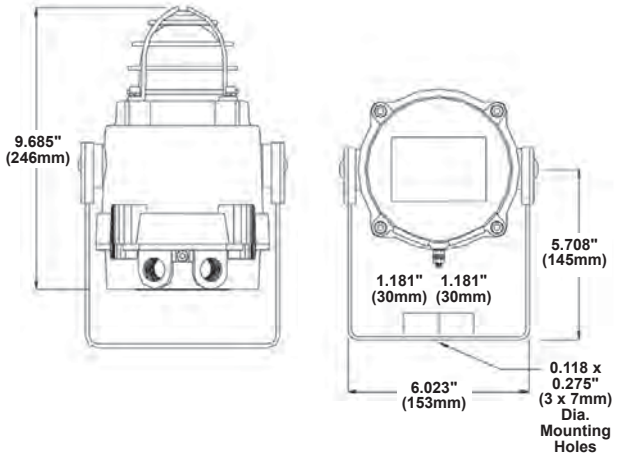
Ordering Information

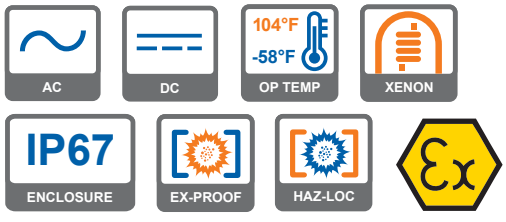
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Lens Colors	Light Output
Exd Beacon Xenon Strobe	**17-970273**	**TCA-0068**	110V AC @ 50 Hz[1]	0.140 A	Red	5J
	17-970276	**TCA-0018**	110V AC @ 50 Hz[1]	0.140 A	Amber	5J
	17-970272	**TCA-0014**	230V AC @ 50 Hz[1]	0.055 A	Red	5J
	17-970275	**TCA-0017**	230V AC @ 50 Hz[1]	0.055 A	Amber	5J
	17-970274	**TCA-0015**	24V DC	0.300 A	Red	5J
	17-970277	**TCA-0019**	24V DC	0.300 A	Amber	5J

[1]AC voltage frequency is 50 Hz only.
NOTE: AC models not for U.S. use.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
17-970272	**TCA-0068**	5.40
17-970273	**TCA-0018**	5.40
17-970274	**TCA-0014**	5.40
17-970275	**TCA-0017**	5.40
17-970276	**TCA-0015**	5.40
17-970277	**TCA-0019**	5.40





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Beacons
Flashing Xenon
89 Series

Edwards 89 Series Xenon strobe beacons are bright, up to 150 candela, low current visual signals suitable for indoor use only. Two mounting options are available; 89STR for flush mounting and the 89SMSTR for surface mounting on the supplied single gang surface box. The housing is made of gray, engineered thermoplastic. Ideal for use where a distinctive visual signal is required for timing, scheduling, paging, process control, general alarm and warning applications.

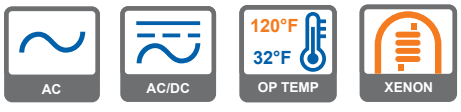
Features and Specifications

- Xenon strobe light source
- Flash rate 60 fpm
- Low current draw
- Screw terminals for easy wiring
- Suitable for indoor applications only
- 85% relative humidity at 86°F (30°C)
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Mounting	Effective Light Output UL 1638
Xenon Strobe AC/DC	**89STRA-AQ**	24V AC/DC	0.390 A	Amber	Flush	90 cd
	89STRB-AQ	24V AC/DC	0.390 A	Blue	Flush	20 cd
	89STRC-AQ	24V AC/DC	0.390 A	Clear	Flush	150 cd
	89STRG-AQ	24V AC/DC	0.390 A	Green	Flush	70 cd
	89STRR-AQ	24V AC/DC	0.390 A	Red	Flush	21 cd
	89SMSTRA-AQ	24V AC/DC	0.390 A	Amber	Surface	90 cd
	89SMSTRB-AQ	24V AC/DC	0.390 A	Blue	Surface	20 cd
	89SMSTRC-AQ	24V AC/DC	0.390 A	Clear	Surface	150 cd
	89SMSTRG-AQ	24V AC/DC	0.390 A	Green	Surface	70 cd
	89SMSTRR-AQ	24V AC/DC	0.390 A	Red	Surface	21 cd
Xenon Strobe AC	**89STRA-N5**	120V AC	0.115 A	Amber	Flush	90 cd
	89STRB-N5	120V AC	0.115 A	Blue	Flush	20 cd
	89STRC-N5	120V AC	0.115 A	Clear	Flush	150 cd
	89STRG-N5	120V AC	0.115 A	Green	Flush	70 cd
	89STRR-N5	120V AC	0.115 A	Red	Flush	21 cd
	89SMSTRA-N5	120V AC	0.115 A	Amber	Surface	90 cd
	89SMSTRB-N5	120V AC	0.115 A	Blue	Surface	20 cd
	89SMSTRC-N5	120V AC	0.115 A	Clear	Surface	150 cd
	89SMSTRG-N5	120V AC	0.115 A	Green	Surface	70 cd
	89SMSTRR-N5	120V AC	0.115 A	Red	Surface	21 cd

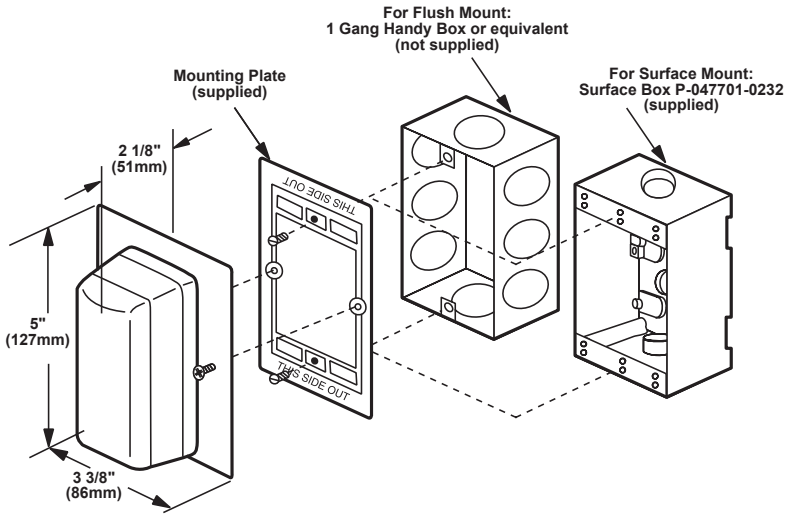
[1]Operating voltage range: -20% to +10% of nominal voltage; AC voltage frequency is 50/60 Hz.



Beacons
Flashing Xenon
89 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
89STRA-AQ	0.34	0.60
89STRB-AQ	0.34	0.60
89STRC-AQ	0.34	0.60
89STRG-AQ	0.34	0.60
89STRR-AQ	0.34	0.60
89SMSTRA-AQ	0.91	1.20
89SMSTRB-AQ	0.91	1.20
89SMSTRC-AQ	0.91	1.20
89SMSTRG-AQ	0.91	1.20
89SMSTRR-AQ	0.91	1.20
89STRA-N5	0.34	0.60
89STRB-N5	0.34	0.60
89STRC-N5	0.34	0.60
89STRG-N5	0.34	0.60
89STRR-N5	0.34	0.60
89SMSTRA-N5	0.91	1.20
89SMSTRB-N5	0.91	1.20
89SMSTRC-N5	0.91	1.20
89SMSTRG-N5	0.91	1.20
89SMSTRR-N5	0.91	1.20



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Beacons
Flashing Xenon
125 Class

NEW

Edwards 125 Class Xenon strobe beacons are UL and cUL listed signaling devices, available in two versions, normal light output and high light output. Both versions feature a corrosion resistant NEMA Type 3R and 4X enclosure and be panel or conduit mounted. Base material is gray or black, manufactured from a 33% glass filled nylon, providing a high resistance to heat and chemicals. The lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Shatter-resistant polycarbonate lens
- Gray or black glass filled nylon base
- Available in normal or high light output
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- Option for panel or conduit mounting
- NEMA Type 4X enclosure
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Base Color	Lens Colors	Replacement Lens	Replacement Strobe Tube
High Output 300,000 peak candela	**125STRHA120A**	120V AC	0.120 A	Gray	Amber	125LA	91B-ST
	125STRHB120A	120V AC	0.120 A	Gray	Blue	125LB	
	125STRHC120A	120V AC	0.120 A	Gray	Clear	125LC	
	125STRHG120A	120V AC	0.120 A	Gray	Green	125LG	
	125STRHR120A	120V AC	0.120 A	Gray	Red	125LR	
	125STRHA120AB	120V AC	0.120 A	Black	Amber	125LA	91B-ST
	125STRHB120AB	120V AC	0.120 A	Black	Blue	125LB	
	125STRHC120AB	120V AC	0.120 A	Black	Clear	125LC	
	125STRHG120AB	120V AC	0.120 A	Black	Green	125LG	
	125STRHR120AB	120V AC	0.120 A	Black	Red	125LR	
Normal Output 175,000 peak candela	**125STRNA120A**	120V AC	0.100 A	Gray	Amber	125LA	91B-ST
	125STRNB120A	120V AC	0.100 A	Gray	Blue	125LB	
	125STRNC120A	120V AC	0.100 A	Gray	Clear	125LC	
	125STRNG120A	120V AC	0.100 A	Gray	Green	125LG	
	125STRNR120A	120V AC	0.100 A	Gray	Red	125LR	
	125STRNA120AB	120V AC	0.100 A	Black	Amber	125LA	91B-ST
	125STRNB120AB	120V AC	0.100 A	Black	Blue	125LB	
	125STRNC120AB	120V AC	0.100 A	Black	Clear	125LC	
	125STRNG120AB	120V AC	0.100 A	Black	Green	125LG	
	125STRNR120AB	120V AC	0.100 A	Black	Red	125LR	
	125STRNA240A	240V AC	0.050 A	Gray	Amber	125LA	91B-ST
	125STRNB240A	240V AC	0.050 A	Gray	Blue	125LB	
	125STRNC240A	240V AC	0.050 A	Gray	Clear	125LC	
	125STRNG240A	240V AC	0.050 A	Gray	Green	125LG	
	125STRNR240A	240V AC	0.050 A	Gray	Red	125LR	
	125STRNA240AB	240V AC	0.050 A	Black	Amber	125LA	91B-ST
	125STRNB240AB	240V AC	0.050 A	Black	Blue	125LB	
	125STRNC240AB	240V AC	0.050 A	Black	Clear	125LC	
	125STRNG240AB	240V AC	0.050 A	Black	Green	125LG	
	125STRNR240AB	240V AC	0.050 A	Black	Red	125LR	

[1]AC voltage frequency is 50/60 Hz

AC DC 150°F -31°F OP TEMP XENON

4X ENCLOSURE c UL US

Beacons
Flashing Xenon
125 Class

NEW

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Base Color	Lens Colors	Replacement Lens	Replacement Strobe Tube
Normal Output 175,000 peak candela	**125STRNA1248D**	12-48V DC	0.350 A	Gray	Amber	125LA	114-ST
	125STRNB1248D	12-48V DC	0.350 A	Gray	Blue	125LB	
	125STRNC1248D	12-48V DC	0.350 A	Gray	Clear	125LC	
	125STRNG1248D	12-48V DC	0.350 A	Gray	Green	125LG	
	125STRNR1248D	12-48V DC	0.350 A	Gray	Red	125LR	
	125STRNA1248DB	12-48V DC	0.350 A	Black	Amber	125LA	114-ST
	125STRNB1248DB	12-48V DC	0.350 A	Black	Blue	125LB	
	125STRNC1248DB	12-48V DC	0.350 A	Black	Clear	125LC	
	125STRNG1248DB	12-48V DC	0.350 A	Black	Green	125LG	
	125STRNR1248DB	12-48V DC	0.350 A	Black	Red	125LR	

Accessories

Description	Cat. No.
Protective Wire Guard	**125GRD**
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

125GRD
Protective Wire Guard

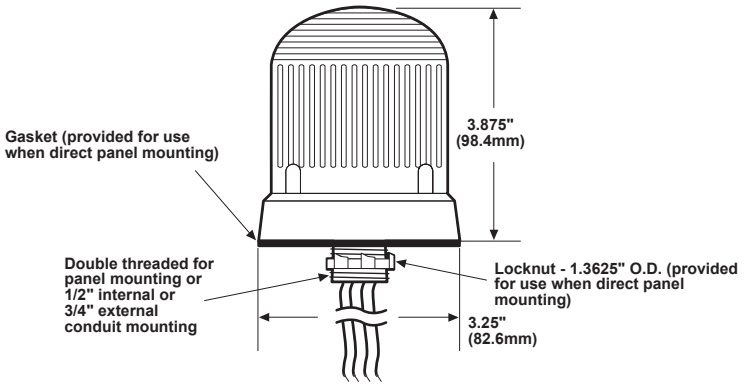
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
125STRH*120A	0.51	0.6
125STRH*120AB	0.51	0.6
125STRN*120A	0.52	0.61
125STRN*240A	0.52	0.61
125STRN*120AB	0.52	0.61
125STRN*240AB	0.52	0.61
125STRN*1248D	0.52	0.61
125STRN*1248DB	0.52	0.61
125GRD	0.61	0.77
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, or R - red



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Beacons
Flashing Xenon
117 Class

The Edwards 117 Class Strobes provide a bright visual indication by utilizing a linear strobe tube inside a shatter resistant polycarbonate fresnel lens. They feature a NEMA Type 4X enclosure, and are suitable for use in indoor and outdoor applications where reliable and distinctive visual indication is required. When mounted outdoors the unit should be mounted with the lens facing up.

Designed for industrial, commercial, and institutional applications, the low profile 117 Class is suitable for industrial wash down applications as well as for use on tow motors and other vehicles. Edwards' strobe lights are particularly effective in high noise areas where ear protection must be worn and audible signals may not be heard or understood.

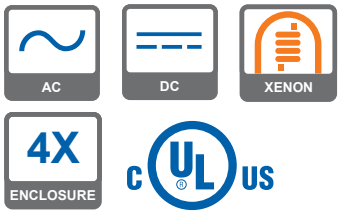
Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Five lens colors
- Replacement lens not available
- Black Impact Resistant Polycarbonate ABS blend base
- Surface mounting
- Replaceable linear strobe tube powered at 1.75 joules
- NEMA Type 4X enclosure

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Peak Candela	Lamp Rating[2]	Replacement Strobe Tube
Flashing Strobe Beacon AC	**117A-N5**	120V AC	0.02 A	Amber	175,000	1500 hr.	91B-ST
	117B-N5	120V AC	0.02 A	Blue	175,000	1500 hr.	91B-ST
	117C-N5	120V AC	0.02 A	Clear	175,000	1500 hr.	91B-ST
	117G-N5	120V AC	0.02 A	Green	175,000	1500 hr.	91B-ST
	117R-N5	120V AC	0.02 A	Red	175,000	1500 hr.	91B-ST
	117A-R5	240V AC	0.015 A	Amber	175,000	1500 hr.	91B-ST
	117B-R5	240V AC	0.015 A	Blue	175,000	1500 hr.	91B-ST
	117C-R5	240V AC	0.015 A	Clear	175,000	1500 hr.	91B-ST
	117G-R5	240V AC	0.015 A	Green	175,000	1500 hr.	91B-ST
	117R-R5	240V AC	0.015 A	Red	175,000	1500 hr.	91B-ST
Flashing Strobe Beacon DC	**117A-EM**	10 - 110V DC	0.350 A	Amber	175,000	1500 hr.	114-ST
	117B-EM	10 - 110V DC	0.350 A	Blue	175,000	1500 hr.	114-ST
	117C-EM	10 - 110V DC	0.350 A	Clear	175,000	1500 hr.	114-ST
	117G-EM	10 - 110V DC	0.350 A	Green	175,000	1500 hr.	114-ST
	117R-EM	10 - 110V DC	0.350 A	Red	175,000	1500 hr.	114-ST

[1]AC voltage frequency is 50/60 Hz
[2]Calculated strobe tube life at operating power to 75% efficiency.

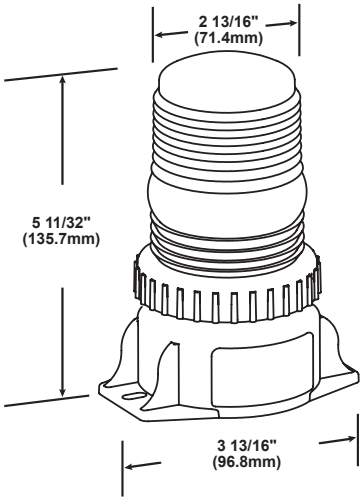


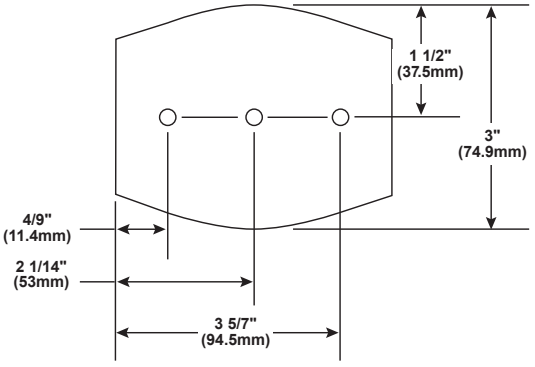
Beacons
Flashing Xenon
117 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
117*-N5	0.53	0.63
117*-R5	0.53	0.63
117*-EM	0.53	0.63

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green and R - red





Mounting

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Beacons
Flashing Xenon
105 Series

Edwards 105 Series Xenon strobe beacons are heavy-duty visual signals suitable for use in indoor and outdoor applications where a corrosion resistant NEMA Type 4X enclosure is required. Base material is gray, manufactured from glass-reinforced thermoplastic polyester resin and features brass hardware. The double fresnel lens is made of shatter-resistant polycarbonate.

The 105DHISTC-FJ high intensity strobe is designed for use in compatible fire alarm system and other applications requiring electrical supervision of signaling circuit field wiring.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Shatter-resistant double fresnel polycarbonate lens
- Gray Rynite® (PET) base with brass hardware
- Suitable for indoor, outdoor and marine applications
- For outdoor use, lens should face up
- Option for panel, conduit or wall mounting
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
Xenon Strobe 3 Joule	**105STA-N5**	120V AC	0.1 A	Amber	300,000	105-LA	91B-ST 3,000 hours[1]
	105STB-N5	120V AC	0.1 A	Blue	300,000	105-LB	
	105STC-N5	120V AC	0.1 A	Clear	300,000	105-LC	
	105STG-N5	120V AC	0.1 A	Green	300,000	105-LG	
	105STM-N5	120V AC	0.1 A	Magenta	300,000	105-LM	
	105STR-N5	120V AC	0.1 A	Red	300,000	105-LR	
	105STA-R5	240V AC	0.02 A	Amber	300,000	105-LA	91B-ST 3,000 hours[1]
	105STB-R5	240V AC	0.02 A	Blue	300,000	105-LB	
	105STC-R5	240V AC	0.02 A	Clear	300,000	105-LC	
	105STG-R5	240V AC	0.02 A	Green	300,000	105-LG	
	105STM-R5	240V AC	0.02 A	Magenta	300,000	105-LM	
	105STR-R5	240V AC	0.02 A	Red	300,000	105-LR	
	105STA-G1	24V DC	0.3 A	Amber	300,000	105-LA	91B-ST 3,000 hours[1]
	105STB-G1	24V DC	0.3 A	Blue	300,000	105-LB	
	105STC-G1	24V DC	0.3 A	Clear	300,000	105-LC	
	105STG-G1	24V DC	0.3 A	Green	300,000	105-LG	
	105STM-G1	24V DC	0.3 A	Magenta	300,000	105-LM	
	105STR-G1	24V DC	0.3 A	Red	300,000	105-LR	
High Intensity 8 Joule Strobe	**105HISTA-EK**	12-48V DC	0.8 A @ 24V	Amber	800,000	105H-LA	92-ST 3,000 hours[1]
	105HISTB-EK	12-48V DC	0.8 A @ 24V	Blue	800,000	105H-LB	
	105HISTC-EK	12-48V DC	0.8 A @ 24V	Clear	800,000	105H-LC	
	105HISTG-EK	12-48V DC	0.8 A @ 24V	Green	800,000	105H-LG	
	105HISTM-EK	12-48V DC	0.8 A @ 24V	Magenta	800,000	105H-LM	
	105HISTR-EK	12-48V DC	0.8 A @ 24V	Red	800,000	105H-LR	
	105HISTA-N5	120V AC	0.1 A	Amber	800,000	105H-LA	92-ST 3,000 hours[1]
	105HISTB-N5	120V AC	0.1 A	Blue	800,000	105H-LB	
	105HISTC-N5	120V AC	0.1 A	Clear	800,000	105H-LC	
	105HISTG-N5	120V AC	0.1 A	Green	800,000	105H-LG	
	105HISTM-N5	120V AC	0.1 A	Magenta	800,000	105H-LM	
	105HISTR-N5	120V AC	0.1 A	Red	800,000	105H-LR	

[1]Strobe tube life at operating power to 75% efficiency.

Beacons
Flashing Xenon
105 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
High Intensity 8 Joule Strobe (continued)	**105HISTA-R5**	240V AC	0.05 A	Amber	800,000	105H-LA	92-ST 3,000 hours[1]
	105HISTB-R5	240V AC	0.05 A	Blue	300,000	105H-LB	
	105HISTC-R5	240V AC	0.05 A	Clear	300,000	105H-LC	
	105HISTG-R5	240V AC	0.05 A	Green	300,000	105H-LG	
	105HISTM-R5	240V AC	0.05 A	Magenta	300,000	105H-LM	
	105HISTR-R5	240V AC	0.05 A	Red	300,000	105H-LR	
	105DHISTA-FJ	20-30V DC	1.08 - 0.83 A	Amber	800,000	105H-LA	92-ST 3,000 hours[1]
	105DHISTB-FJ	20-30V DC	1.08 - 0.83 A	Blue	300,000	105H-LB	
	105DHISTG-FJ	20-30V DC	1.08 - 0.83 A	Green	300,000	105H-LG	
	105DHISTM-FJ	20-30V DC	1.08 - 0.83 A	Magenta	300,000	105H-LM	
	105DHISTR-FJ	20-30V DC	1.08 - 0.83 A	Red	300,000	105H-LR	
Fire Alarm (UL 1971) 8 Joule Strobe	**105DHISTC-FJ**	20-30V DC	1.08 - 0.83 A	Clear	26 cd wall (dome out) 24 cd wall (dome down) 26 cd ceiling	105H-LC	92-ST

[1]Strobe tube life at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Wall Mount Bracket	**105BM**[2]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

Wall Mount Bracket

Outlet Box Attachment

Pipe Mount Attachment

[2]Must be used with the 105BX

Hazardous Location Listings

Cat. No.	Class	Division	Group	Operating Temperature
105HIST*-N5 **105HIST*-R5**	I	2	A, B, C, D	T2 (300ºC, 572ºF)
	II	2	F, G	T3B (165ºC, 329ºF)
	III			T3B (165ºC, 329ºF)
105HIST*-EK **105DHISTC-FJ** **105DHIST*-FJ**	I	2	A, B, C, D	T2A (280ºC, 536ºF)
	II	2	F, G	T3B (165ºC, 329ºF)
	III			T3B (165ºC, 329ºF)
105ST*-G1 **105ST*-N5** **105ST*-R5**	I	2	A, B, C, D	T3 (200ºC, 392ºF)
	II	2	F, G	T4A (120ºC, 248ºF)
	III			T4A (120ºC, 248ºF)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

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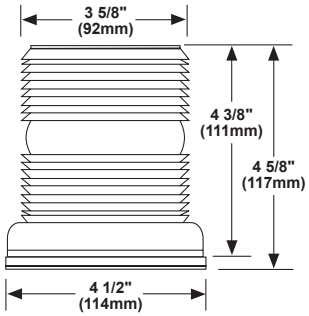
Beacons
Flashing Xenon
105 Series

Weights and Dimensions

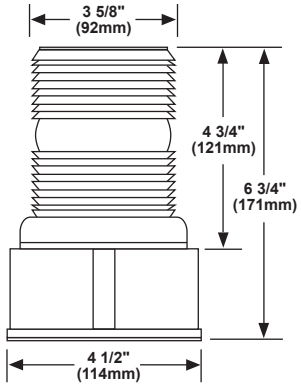
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105ST*-G1	1.06	1.22
105ST*-N5	1.01	1.17
105ST*-R5	1.01	1.17
105DHIST*-FJ	1.30	1.63
105HIST*-N5	1.30	1.63
105HIST*-R5	1.30	1.63
105HIST*-EK	1.30	1.63
105PM	0.80	1.00
105BM	1.00	1.20
105BX	0.80	1.00

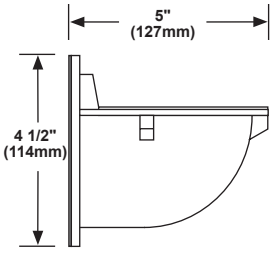
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

Cat. No's. 105ST

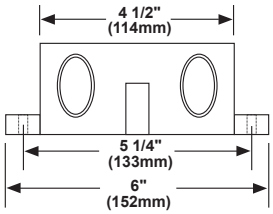


Cat. No's. 105HIST 105DHIST

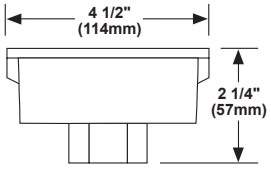




Cat. No. 105BM Mounting Bracket (use with 105BX)



Cat. No. 105BX Outlet Box Attachment (Four 3/4" Threaded Hubs)



Cat. No. 105PM Pipe Mount Attachment (3/4" NPT Conduit Size)

Beacons
Flashing Xenon
96 and 98 Series

Edwards 96B and 98B Series Xenon strobe beacons are light duty visual signals suitable for use in industrial, commercial and institutional applications where short term intermittent visual signaling is required. Both series feature a corrosion resistant NEMA Type 4X enclosure and can be panel or conduit mounted. Optically designed fresnel lenses improve viewer perception for indoor and outdoor applications.

The 96B and 98B Series are often used where a smaller output is desired or where multiple, smaller strobes are required. Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

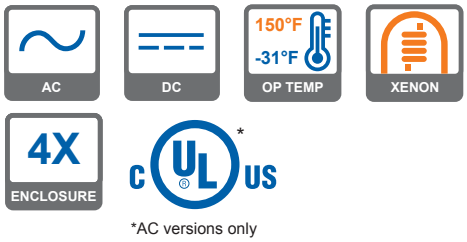
Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Snap-on high impact plastic base
- Optically designed fresnel lenses
- Resistant to shock and vibration
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- NEMA Type 4X enclosure
- Option for panel or conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
Xenon Strobe AC	**96BA-N5**	120V AC	0.10 A	Amber	300,000	96-LA	91B-ST 3,000 hours[2]
	96BB-N5	120V AC	0.10 A	Blue	300,000	96-LB	
	96BC-N5	120V AC	0.10 A	Clear	300,000	96-LC	
	96BG-N5	120V AC	0.10 A	Green	300,000	96-LG	
	96BM-N5	120V AC	0.10 A	Magenta	300,000	96-LM	
	96BR-N5	120V AC	0.10 A	Red	300,000	96-LR	
	96BA-R5	240V AC	0.02 A	Amber	300,000	96-LA	91B-ST 3,000 hours[2]
	96BB-R5	240V AC	0.02 A	Blue	300,000	96-LB	
	96BC-R5	240V AC	0.02 A	Clear	300,000	96-LC	
	96BG-R5	240V AC	0.02 A	Green	300,000	96-LG	
	96BM-R5	240V AC	0.02 A	Magenta	300,000	96-LM	
	96BR-R5	240V AC	0.02 A	Red	300,000	96-LR	
Xenon Strobe DC	**98BA-E1**	12V DC	0.5 A	Amber	300,000	96-LA	91B-ST 3,000 hours[2]
	98BB-E1	12V DC	0.5 A	Blue	300,000	96-LB	
	98BC-E1	12V DC	0.5 A	Clear	300,000	96-LC	
	98BG-E1	12V DC	0.5 A	Green	300,000	96-LG	
	98BM-E1	12V DC	0.5 A	Magenta	300,000	96-LM	
	98BR-E1	12V DC	0.5 A	Red	300,000	96-LR	
	98BA-G1	24V DC	0.3 A	Amber	300,000	96-LA	91B-ST 3,000 hours[2]
	98BB-G1	24V DC	0.3 A	Blue	300,000	96-LB	
	98BC-G1	24V DC	0.3 A	Clear	300,000	96-LC	
	98BG-G1	24V DC	0.3 A	Green	300,000	96-LG	
	98BM-G1	24V DC	0.3 A	Magenta	300,000	96-LM	
	98BR-G1	24V DC	0.3 A	Red	300,000	96-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.



*AC versions only

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Beacons
Flashing Xenon
96 and 98 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
Xenon Strobe DC (continued)	**98BA-FY**	36V DC	0.3 A	Amber	300,000	96-LA	91B-ST 3,000 hours[1]
	98BB-FY	36V DC	0.3 A	Blue	300,000	96-LB	
	98BC-FY	36V DC	0.3 A	Clear	300,000	96-LC	
	98BG-FY	36V DC	0.3 A	Green	300,000	96-LG	
	98BM-FY	36V DC	0.3 A	Magenta	300,000	96-LM	
	98BR-FY	36V DC	0.3 A	Red	300,000	96-LR	

[1]Calculated at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

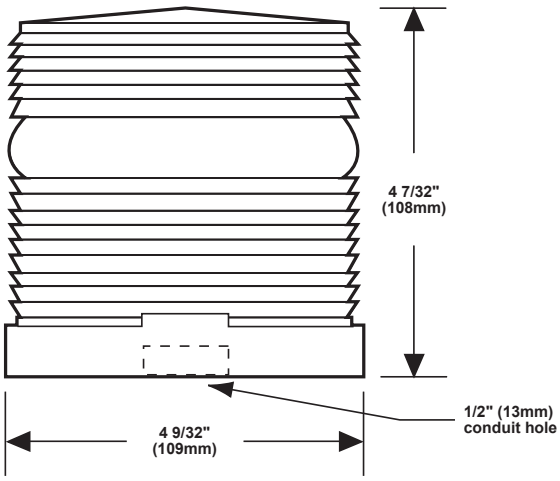
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
96B*-N5	1.30	1.46
96B*-R5	1.30	1.46
98B*-E1	1.32	1.48
98B*-G1	1.32	1.48
98B*-FY	1.32	1.48
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
96 Series

Edwards 96DV2 Series Xenon strobe beacons are light duty visual signals suitable for use in industrial, commercial and institutional applications where short term intermittent visual signaling is required. Optically designed fresnel lenses improve viewer perception for indoor, outdoor and wet locations requiring Division 2 and NEMA Type 4X specifications.

The 96DV2 Series can be panel or conduit mounted. Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Optically designed fresnel lenses
- Resistant to shock and vibration
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III
- Option for panel or conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

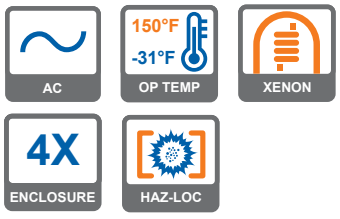
Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
Xenon Strobe	**96DV2A-N5**	120V AC	0.03 A	Amber	300,000	96-LA	91B-ST 3,000 hour[2]
	96DV2B-N5	120V AC	0.03 A	Blue	300,000	96-LB	
	96DV2C-N5	120V AC	0.03 A	Clear	300,000	96-LC	
	96DV2G-N5	120V AC	0.03 A	Green	300,000	96-LG	
	96DV2M-N5	120V AC	0.03 A	Magenta	300,000	96-LM	
	96DV2R-N5	120V AC	0.03 A	Red	300,000	96-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Hazardous Location Listings

Cat. No.	Class	Division	Group	Operating Temperature Code
96DV2*-N5	I	2	A,B,C,D	T3C (160°C, 320°F)
	II	2	F,G	T6 (85°C, 185°F)
	III	—	—	T6 (85°C, 185°F)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

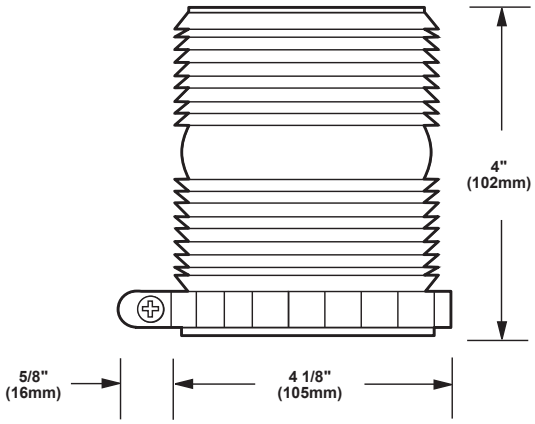


Beacons
Flashing Xenon
96 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
96DV2*-N5	1.29	1.45

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
92 Series

Edwards 92 Series Xenon strobe beacons are light duty visual signals suitable for use in industrial, commercial and institutional applications where short term intermittent visual signaling is required. They feature brilliant light output and a cast base that can be utilized as a junction box. Optically designed fresnel lenses improve viewer perception for indoor and outdoor applications. Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

The 92PLC Series strobe is electrically isolated from leakage current to prevent false flashes. This series offers single and double flash models.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Cast base can function as a junction box
- Optically designed fresnel lenses
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- Option for panel, conduit or box mounting
- Designed for 4" octagonal box mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Lens Colors	Operating Voltage[1]	Current	Peak Candela	Strobe Tube Life[2]	Replacement Lens	Replacement Strobe Tube
Xenon Strobe	**92A-R5**	Amber	240V AC	0.05 A	800,000	3,000 hr	V93-LA	92-ST 3,000 hour[2]
	92B-R5	Blue	240V AC	0.05 A	800,000	3,000 hr	V93-LB	
	92C-R5	Clear	240V AC	0.05 A	800,000	3,000 hr	V93-LC	
	92G-R5	Green	240V AC	0.05 A	800,000	3,000 hr	V93-LG	
	92M-R5	Magenta	240V AC	0.05 A	800,000	3,000 hr	V93-LM	
	92R-R5	Red	240V AC	0.05 A	800,000	3,000 hr	V93-LR	
Xenon Strobe Single Flash	**92PLCA-N5**	Amber	120V AC	0.1 A	1,400,000	5,000 hr	V93-LA	92-LST 1,400,000 cd[2]
	92PLCB-N5	Blue	120V AC	0.1 A	1,400,000	5,000 hr	V93-LB	
	92PLCC-N5	Clear	120V AC	0.1 A	1,400,000	5,000 hr	V93-LC	
	92PLCG-N5	Green	120V AC	0.1 A	1,400,000	5,000 hr	V93-LG	
	92PLCM-N5	Magenta	120V AC	0.1 A	1,400,000	5,000 hr	V93-LM	
	92PLCR-N5	Red	120V AC	0.1 A	1,400,000	5,000 hr	V93-LR	
Xenon Strobe Double Flash	**92PLC-DFA-N5**	Amber	120V AC	0.1 A	800,000	3,000 hr	V93-LA	92-LST 800,000 cd[2]
	92PLC-DFB-N5	Blue	120V AC	0.1 A	800,000	3,000 hr	V93-LB	
	92PLC-DFC-N5	Clear	120V AC	0.1 A	800,000	3,000 hr	V93-LC	
	92PLC-DFG-N5	Green	120V AC	0.1 A	800,000	3,000 hr	V93-LG	
	92PLC-DFM-N5	Magenta	120V AC	0.1 A	800,000	3,000 hr	V93-LM	
	92PLC-DFR-N5	Red	120V AC	0.1 A	800,000	3,000 hr	V93-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

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Beacons
Flashing Xenon
92 Series

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

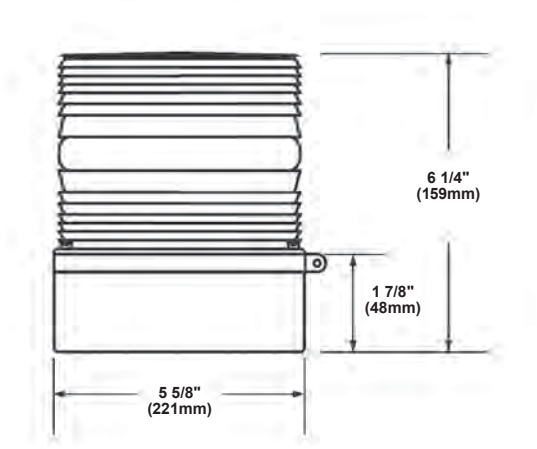
Cat. No.	Operating[1] Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
92PLC*-N5	120V AC	0.005	0.100	20 A / .075 millisecond
92PLC-DF*-N5	120V AC	0.005	0.100	20 A / .075 millisecond

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red
[1]AC voltage frequency is 60 Hz

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
92*-R5	1.70	2.03
92PLC*-N5	1.70	2.03
92PLC-DF*-N5	1.70	2.03
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
90 Series

Edwards 90 Series Xenon strobe beacons are light duty visual signals suitable for use in industrial, commercial and institutional applications where short term intermittent visual signaling is required. They feature brilliant light output and a cast base that can be utilized as a junction box. Optically designed fresnel lenses improve viewer perception for indoor and outdoor applications. Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

Features and Specifications

- Xenon strobe light source
- Flass rate 65 fpm
- Cast base can function as a junction box
- Optically designed fresnel lenses
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- Option for panel, conduit or box mounting
- Designed for 4" octagonal box mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Peak Candela	Replacement		
						Lens	Strobe Tube	Dome
Xenon Strobe	**90A-N5**	120V AC	0.1 A	Amber	1,400,000	92-LA	92-LST 5,000 hours[2]	52-LC
	90B-N5	120V AC	0.1 A	Blue	1,400,000	92-LB		
	90C-N5	120V AC	0.1 A	Clear	1,400,000	92-LC		
	90G-N5	120V AC	0.1 A	Green	1,400,000	92-LG		
	90M-N5	120V AC	0.1 A	Magenta	1,400,000	92-LM		
	90R-N5	120V AC	0.1 A	Red	1,400,000	92-LR		

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

CBR
Corner Mount Bracket

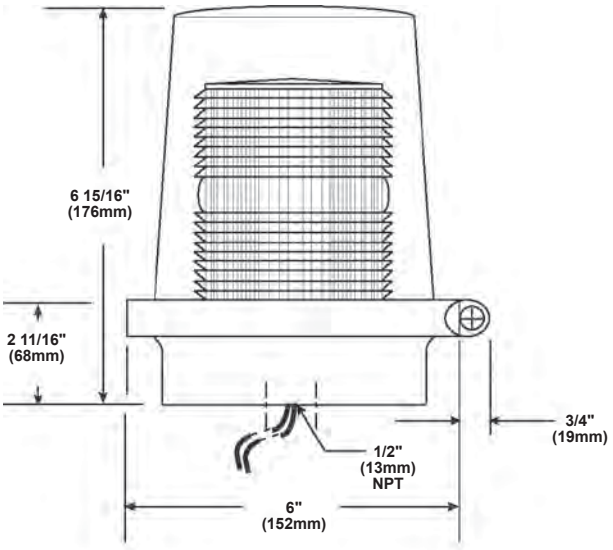
WBR
Wall Mount Bracket

Beacons
Flashing Xenon
90 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
90*-N5	1.75	2.08
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
92 Series

Edwards 92-N5 Series Xenon strobe beacons are light duty visual signals suitable for use in industrial, commercial and institutional applications where short term intermittent visual signaling is required. They feature brilliant light output and a cast base that can be utilized as a junction box. Optically designed fresnel lenses improve viewer perception for indoor and outdoor applications. Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Cast base can function as a junction box
- Optically designed fresnel lenses
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- Option for panel, conduit or box mounting
- Designed for 4" octagonal box mounting
- Operating temperature range: -31°F to 150°F (-35°C to 65.6°C)

R A M G B C

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
Xenon Strobe	**92A-N5**	120V AC	0.1 A	Amber	1,400,000	92-LA	92-LST 5,000 hour[2]
	92B-N5	120V AC	0.1 A	Blue	1,400,000	92-LB	
	92C-N5	120V AC	0.1 A	Clear	1,400,000	92-LC	
	92G-N5	120V AC	0.1 A	Green	1,400,000	92-LG	
	92M-N5	120V AC	0.1 A	Magenta	1,400,000	92-LM	
	92R-N5	120V AC	0.1 A	Red	1,400,000	92-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**
Lens Guard	**92-GRD**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

92-GRD
Lens Guard

AC | 150°F -31°F OP TEMP | XENON

c UL us

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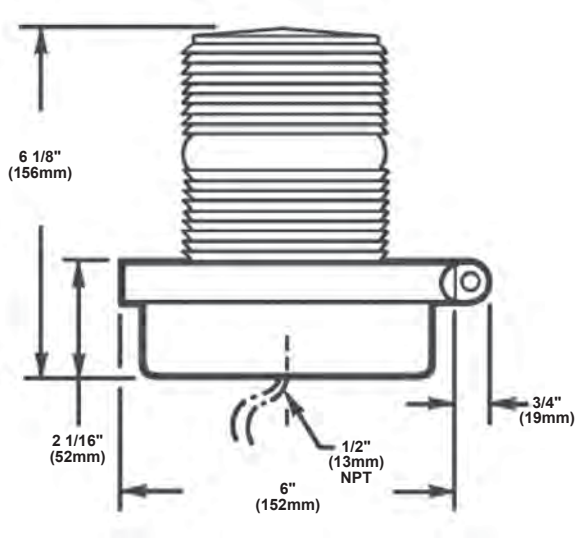
Beacons
Flashing Xenon
92 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
92*-N5	1.60	1.93
CBR	4.00	4.20
WBR	2.30	2.50
92-GRD	0.31	0.47

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
57EDF Series

Edwards 57EDF Series Xenon strobe beacons are heavy-duty, double flash visual signals suitable for use in general signaling applications. The shatter resistant polycarbonate lens has been designed with a reflective double optics system that creates a unique rectangular column of light. This enhances light output by increasing the lens fill rate while minimizing the intense light burst normally characteristic of high intensity strobes.

The new 57EDF Series is NEMA Type 4X rated for indoor and outdoor applications and can be conduit mounted only. The unit features a corrosion resistant, heat flowed epoxy finish base.

Features and Specifications

- Xenon strobe light source
- Shatter resistant polycarbonate lens
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- 3/4" conduit mount
- NEMA Type 4X enclosure
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Strobe Tube Life[2]	Replacement		
							Lens	Strobe Tube	Dome
Xenon Strobe AC	**57EDFA-N5**	120V AC	0.2 A	Amber	2.3 million	3,000 hr	57E-LA	92-ST	57E-DC
	57EDFB-N5	120V AC	0.2 A	Blue	2.3 million	3,000 hr	57E-LB		
	57EDFC-N5	120V AC	0.2 A	Clear	2.3 million	3,000 hr	57E-LC		
	57EDFG-N5	120V AC	0.2 A	Green	2.3 million	3,000 hr	57E-LG		
	57EDFM-N5	120V AC	0.2 A	Magenta	2.3 million	3,000 hr	57E-LM		
	57EDFR-N5	120V AC	0.2 A	Red	2.3 million	3,000 hr	57E-LR		
	57EDFA-R5	240V AC	0.1 A	Amber	2.3 million	3,000 hr	57E-LA	92-ST	57E-DC
	57EDFB-R5	240V AC	0.1 A	Blue	2.3 million	3,000 hr	57E-LB		
	57EDFC-R5	240V AC	0.1 A	Clear	2.3 million	3,000 hr	57E-LC		
	57EDFG-R5	240V AC	0.1 A	Green	2.3 million	3,000 hr	57E-LG		
	57EDFM-R5	240V AC	0.1 A	Magenta	2.3 million	3,000 hr	57E-LM		
	57EDFR-R5	240V AC	0.1 A	Red	2.3 million	3,000 hr	57E-LR		
Xenon Strobe DC	**57EDFA-G1**	24V DC	2.2 A	Amber	2.3 million	3,000 hr	57E-LA	92-ST	57E-DC
	57EDFB-G1	24V DC	2.2 A	Blue	2.3 million	3,000 hr	57E-LB		
	57EDFC-G1	24V DC	2.2 A	Clear	2.3 million	3,000 hr	57E-LC		
	57EDFG-G1	24V DC	2.2 A	Green	2.3 million	3,000 hr	57E-LG		
	57EDFM-G1	24V DC	2.2 A	Magenta	2.3 million	3,000 hr	57E-LM		
	57EDFR-G1	24V DC	2.2 A	Red	2.3 million	3,000 hr	57E-LR		

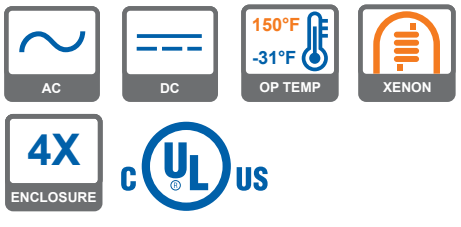
[1]AC voltage frequency is 50/60 Hz
[2]Calculated strobe tube life at operating power to 75% efficiency

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket



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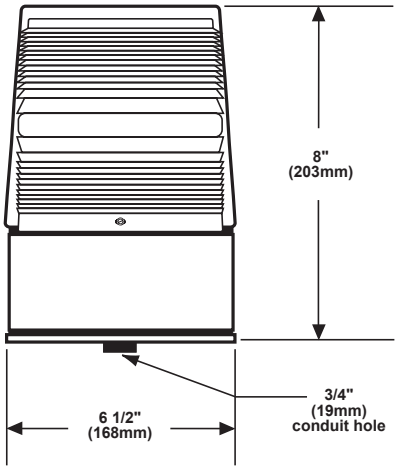
Beacons
Flashing Xenon
57EDF Series

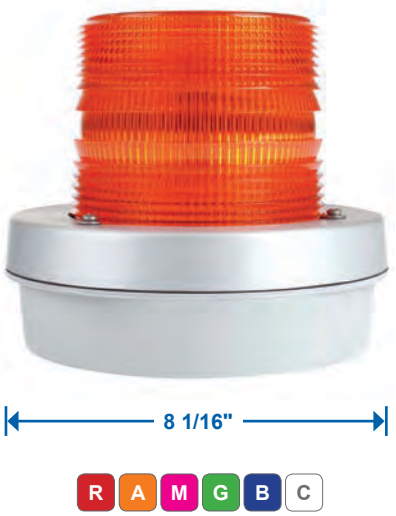
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
57EDF*-N5	3.14	3.61
57EDF*-R5	3.14	3.61
57EDF*-G1	3.14	3.61
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
93 and 97 Series



Edwards 93 and 97 Series Xenon strobe beacons are heavy-duty visual signals suitable for use where more frequent and longer lasting signaling cycles may be required. Optically designed fresnel lenses improve viewer perception for indoor and outdoor applications. The base is cast and can be utilized as a junction box.

The 93DF and 97DF Series offers a double flash model that doubles the apparent strobe on-time (50 double flashes per minute). Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

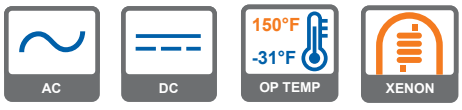
Features and Specifications

- Xenon strobe light source
- Cast base can function as a junction box
- Optically designed fresnel lenses
- Single and double flash models
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- 93 Series - 3/4" conduit mount
- 97 Series - panel or 3/4" conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Flash Rate	Peak Candela	Replacement	
							Lens	Strobe Tube
Xenon Strobe Single Flash AC	**93A-N5**	120V AC	0.1 A	Amber	65 fpm	800,000	93-LA	92-ST 3,000 hour[2]
	93B-N5	120V AC	0.1 A	Blue	65 fpm	800,000	93-LB	
	93C-N5	120V AC	0.1 A	Clear	65 fpm	800,000	93-LC	
	93G-N5	120V AC	0.1 A	Green	65 fpm	800,000	93-LG	
	93M-N5	120V AC	0.1 A	Magenta	65 fpm	800,000	93-LM	
	93R-N5	120V AC	0.1 A	Red	65 fpm	800,000	93-LR	
	93A-R5	240V AC	0.05 A	Amber	65 fpm	800,000	93-LA	92-ST 3,000 hour[2]
	93B-R5	240V AC	0.05 A	Blue	65 fpm	800,000	93-LB	
	93C-R5	240V AC	0.05 A	Clear	65 fpm	800,000	93-LC	
	93G-R5	240V AC	0.05 A	Green	65 fpm	800,000	93-LG	
	93M-R5	240V AC	0.05 A	Magenta	65 fpm	800,000	93-LM	
	93R-R5	240V AC	0.05 A	Red	65 fpm	800,000	93-LR	
Xenon Strobe Double Flash AC	**93DFA-N5**	120V AC	0.1 A	Amber	50 dfpm	1,100,000	93-LA	92-ST 3,000 hour[2]
	93DFB-N5	120V AC	0.1 A	Blue	50 dfpm	1,100,000	93-LB	
	93DFC-N5	120V AC	0.1 A	Clear	50 dfpm	1,100,000	93-LC	
	93DFG-N5	120V AC	0.1 A	Green	50 dfpm	1,100,000	93-LG	
	93DFM-N5	120V AC	0.1 A	Magenta	50 dfpm	1,100,000	93-LM	
	93DFR-N5	120V AC	0.1 A	Red	50 dfpm	1,100,000	93-LR	
	93DFA-R5	240V AC	0.05 A	Amber	50 dfpm	1,100,000	93-LA	92-ST 3,000 hour[2]
	93DFB-R5	240V AC	0.05 A	Blue	50 dfpm	1,100,000	93-LB	
	93DFC-R5	240V AC	0.05 A	Clear	50 dfpm	1,100,000	93-LC	
	93DFG-R5	240V AC	0.05 A	Green	50 dfpm	1,100,000	93-LG	
	93DFM-R5	240V AC	0.05 A	Magenta	50 dfpm	1,100,000	93-LM	
	93DFR-R5	240V AC	0.05 A	Red	50 dfpm	1,100,000	93-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.



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Beacons
Flashing Xenon
93 and 97 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Flash Rate	Peak Candela	Replacement Lens	Replacement Strobe Tube
Xenon Strobe Single Flash DC	**97A-EK**	12-48V DC	1.20 A	Amber	65 fpm	800,000	93-LA	92-ST 3,000 hour[1]
	97B-EK	12-48V DC	1.20 A	Blue	65 fpm	800,000	93-LB	
	97C-EK	12-48V DC	1.20 A	Clear	65 fpm	800,000	93-LC	
	97G-EK	12-48V DC	1.20 A	Green	65 fpm	800,000	93-LG	
	97M-EK	12-48V DC	1.20 A	Magenta	65 fpm	800,000	93-LM	
	97R-EK	12-48V DC	1.20 A	Red	65 fpm	800,000	93-LR	
	97A-MP	72-125V DC	0.20 A	Amber	65 fpm	800,000	93-LA	92-ST 3,000 hour[1]
	97B-MP	72-125V DC	0.20 A	Blue	65 fpm	800,000	93-LB	
	97C-MP	72-125V DC	0.20 A	Clear	65 fpm	800,000	93-LC	
	97G-MP	72-125V DC	0.20 A	Green	65 fpm	800,000	93-LG	
	97M-MP	72-125V DC	0.20 A	Magenta	65 fpm	800,000	93-LM	
	97R-MP	72-125V DC	0.20 A	Red	65 fpm	800,000	93-LR	
Xenon Strobe Double Flash DC	**97DFA-EK**	12-48V DC	1.20 A	Amber	50 dfpm	1,100,000	93-LA	92-ST 3,000 hour[1]
	97DFB-EK	12-48V DC	1.20 A	Blue	50 dfpm	1,100,000	93-LB	
	97DFC-EK	12-48V DC	1.20 A	Clear	50 dfpm	1,100,000	93-LC	
	97DFG-EK	12-48V DC	1.20 A	Green	50 dfpm	1,100,000	93-LG	
	97DFM-EK	12-48V DC	1.20 A	Magenta	50 dfpm	1,100,000	93-LM	
	97DFR-EK	12-48V DC	1.20 A	Red	50 dfpm	1,100,000	93-LR	
	97DFA-MP	72-125V DC	0.20 A	Amber	50 dfpm	1,100,000	93-LA	92-ST 3,000 hour[1]
	97DFB-MP	72-125V DC	0.20 A	Blue	50 dfpm	1,100,000	93-LB	
	97DFC-MP	72-125V DC	0.20 A	Clear	50 dfpm	1,100,000	93-LC	
	97DFG-MP	72-125V DC	0.20 A	Green	50 dfpm	1,100,000	93-LG	
	97DFM-MP	72-125V DC	0.20 A	Magenta	50 dfpm	1,100,000	93-LM	
	97DFR-MP	72-125V DC	0.20 A	Red	50 dfpm	1,100,000	93-LR	

[1]Calculated at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

CBR
Corner Mount Bracket

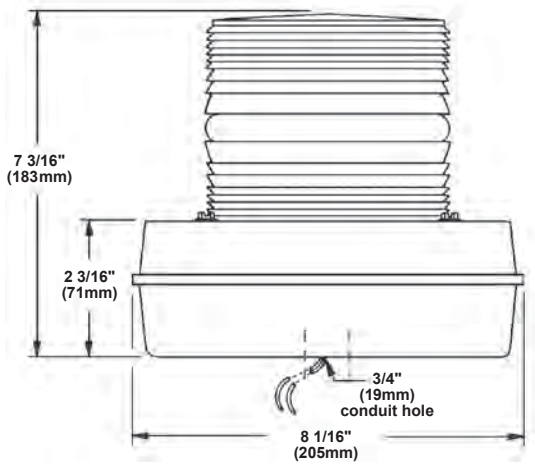
WBR
Wall Mount Bracket

Beacons
Flashing Xenon
93 and 97 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
93*-N5	5.22	5.80
93*-R5	5.22	5.80
93DF*-N5	5.22	5.80
93DF*-R5	5.22	5.80
97*-EK	5.22	5.80
97*-MP	5.22	5.80
97DF*-EK	5.22	5.80
97DF*-MP	5.22	5.80
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
94 Series

Edwards 94 Series Xenon strobe beacons are heavy-duty visual signals suitable for use where more frequent and longer lasting signaling cycles may be required. Optically designed fresnel lenses improve viewer perception for indoor and outdoor applications. The base is cast metal and can be utilized as a junction box.

The 94DF Series offers a double flash model that doubles the apparent strobe on-time (50 double flashes per minute). Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

The 94DV2 Series Division 2 Xenon strobe beacons are high profile visual signals suitable for outdoor and wet locations requiring a UL Listed, NEMA Type 4X enclosure. The 94DDV2 Series is Diode Polarized for use in electrically supervised circuits. Both versions can be conduit mounted.

Features and Specifications

- Xenon strobe light source
- Cast base can function as a junction box
- Optically designed fresnel lenses
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- Conduit mounting
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III, **(94DV2 and 94DDV2)**

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Flash Rate	Peak Candela	Replacement Lens	Replacement Dome	Replacement Strobe Tube
Xenon Strobe Single Flash	**94A-N5**	120V AC	0.1 A	Amber	65 fpm	800,000	93-LA	94-DC	92-ST 3,000 hour[2]
	94B-N5	120V AC	0.1 A	Blue	65 fpm	800,000	93-LB		
	94C-N5	120V AC	0.1 A	Clear	65 fpm	800,000	93-LC		
	94G-N5	120V AC	0.1 A	Green	65 fpm	800,000	93-LG		
	94M-N5	120V AC	0.1 A	Magenta	65 fpm	800,000	93-LM		
	94R-N5	120V AC	0.1 A	Red	65 fpm	800,000	93-LR		
	94A-R5	240V AC	0.05 A	Amber	65 fpm	800,000	93-LA	94-DC	92-ST 3,000 hour[2]
	94B-R5	240V AC	0.05 A	Blue	65 fpm	800,000	93-LB		
	94C-R5	240V AC	0.05 A	Clear	65 fpm	800,000	93-LC		
	94G-R5	240V AC	0.05 A	Green	65 fpm	800,000	93-LG		
	94M-R5	240V AC	0.05 A	Magenta	65 fpm	800,000	93-LM		
	94R-R5	240V AC	0.05 A	Red	65 fpm	800,000	93-LR		
Xenon Strobe Double Flash	**94DFA-N5**	120V AC	0.1 A	Amber	50 dfpm	1,100,000	93-LA	94-DC	92-ST 3,000 hour[2]
	94DFB-N5	120V AC	0.1 A	Blue	50 dfpm	1,100,000	93-LB		
	94DFC-N5	120V AC	0.1 A	Clear	50 dfpm	1,100,000	93-LC		
	94DFG-N5	120V AC	0.1 A	Green	50 dfpm	1,100,000	93-LG		
	94DFM-N5	120V AC	0.1 A	Magenta	50 dfpm	1,100,000	93-LM		
	94DFR-N5	120V AC	0.1 A	Red	50 dfpm	1,100,000	93-LR		
	94DFA-R5	240V AC	0.05 A	Amber	50 dfpm	1,100,000	93-LA	94-DC	92-ST 3,000 hour[2]
	94DFB-R5	240V AC	0.05 A	Blue	50 dfpm	1,100,000	93-LB		
	94DFC-R5	240V AC	0.05 A	Clear	50 dfpm	1,100,000	93-LC		
	94DFG-R5	240V AC	0.05 A	Green	50 dfpm	1,100,000	93-LG		
	94DFM-R5	240V AC	0.05 A	Magenta	50 dfpm	1,100,000	93-LM		
	94DFR-R5	240V AC	0.05 A	Red	50 dfpm	1,100,000	93-LR		

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Beacons
Flashing Xenon
94 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Flash Rate	Peak Candela	Replacement Lens	Replacement Dome	Replacement Strobe Tube
Xenon Strobe Haz Loc AC	**94DV2A-N5**	120V AC	0.1 A	Amber	65 fpm	800,000	93-LA	94DV2-DC	92-ST 3,000 hour[2]
	94DV2B-N5	120V AC	0.1 A	Blue	65 fpm	800,000	93-LB		
	94DV2C-N5	120V AC	0.1 A	Clear	65 fpm	800,000	93-LC		
	94DV2G-N5	120V AC	0.1 A	Green	65 fpm	800,000	93-LG		
	94DV2M-N5	120V AC	0.1 A	Magenta	65 fpm	800,000	93-LM		
	94DV2R-N5	120V AC	0.1 A	Red	65 fpm	800,000	93-LR		
Xenon Strobe Haz Loc DC Diode Polarized	**94DDV2A-G1**	24V DC	1.2 A	Amber	65 fpm	800,000	93-LA	94DV2-DC	92-ST 3,000 hour[2]
	94DDV2B-G1	24V DC	1.2 A	Blue	65 fpm	800,000	93-LB		
	94DDV2C-G1	24V DC	1.2 A	Clear	65 fpm	800,000	93-LC		
	94DDV2G-G1	24V DC	1.2 A	Green	65 fpm	800,000	93-LG		
	94DDV2M-G1	24V DC	1.2 A	Magenta	65 fpm	800,000	93-LM		
	94DDV2R-G1	24V DC	1.2 A	Red	65 fpm	800,000	93-LR		

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Hazardous Location Listings

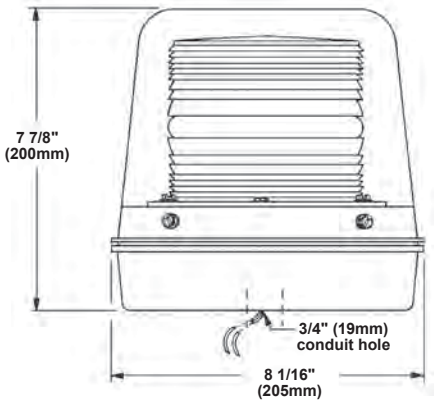
Cat. No.	Class	Division	Group	Operating Temperature Code
94DV2*-N5	I	2	A, B, C, D	T3 (200ºC, 392ºF)
	II	2	F, G	T6 (85ºC, 185ºF)
	III			T6 (85ºC, 185ºF)
94DDV2*-G1	I	2	A, B, C, D	T3 (200ºC, 392ºF)
	II	2	F, G	T6 (85ºC, 185ºF)
	III			T6 (85ºC, 185ºF)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta , or R - red

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
94*-N5	5.53	6.10
94*-R5	5.53	6.10
94DF*-N5	5.53	6.10
94DF*-R5	5.53	6.10
94DV2*-N5	5.53	6.10
94DDV2*-G1	5.60	6.18

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



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Beacons
Flashing Xenon
107 Series

Edwards 107DDV2 and 107DV2 Series Xenon strobe beacons are signaling devices designed for installation in Division 2 environments requiring a NEMA Type 3R or 4X installation. Rigid specifications and state-of-the-art technology provide for high visual output and low maintenance.

The 107DDV2 Series is Diode Polarized for use in electrically supervised circuits. Both versions can be bracket, ceiling or pendant mounted.

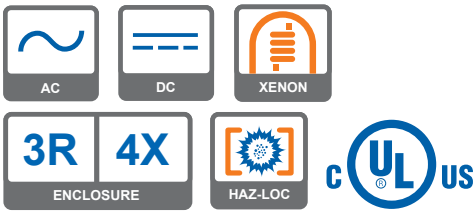
Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- High impact glass dome
- Dome Guard (Optional)
- NEMA Type 3R and 4X enclosure
- Suitable for indoor, outdoor and marine applications
- Option for bracket, ceiling or pendant mount
- Class I, Div 2, Groups A, B, C and D; Class II, Div 1, Groups E, F and G; Class II, Div 2, Groups F and G; Class III

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Peak Candela	Replacement		
						Inner Lens	Dome	Strobe Tube
Bracket Mount AC	**107DV2BSTA-N5**	120V AC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2BSTB-N5	120V AC	0.1 A	Blue	800,000	96-LB		
	107DV2BSTC-N5	120V AC	0.1 A	Clear	800,000	96-LC		
	107DV2BSTG-N5	120V AC	0.1 A	Green	800,000	96-LG		
	107DV2BSTM-N5	120V AC	0.1 A	Magenta	800,000	96-LM		
	107DV2BSTR-N5	120V AC	0.1 A	Red	800,000	96-LR		
	107DV2BSTA-R5	240V AC	0.05 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2BSTB-R5	240V AC	0.05 A	Blue	800,000	96-LB		
	107DV2BSTC-R5	240V AC	0.05 A	Clear	800,000	96-LC		
	107DV2BSTG-R5	240V AC	0.05 A	Green	800,000	96-LG		
	107DV2BSTM-R5	240V AC	0.05 A	Magenta	800,000	96-LM		
	107DV2BSTR-R5	240V AC	0.05 A	Red	800,000	96-LR		
Bracket Mount DC	**107DV2BSTA-EK**	12 - 48V DC	1.2 A - 0.38 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2BSTB-EK	12 - 48V DC	1.2 A - 0.38 A	Blue	800,000	96-LB		
	107DV2BSTC-EK	12 - 48V DC	1.2 A - 0.38 A	Clear	800,000	96-LC		
	107DV2BSTG-EK	12 - 48V DC	1.2 A - 0.38 A	Green	800,000	96-LG		
	107DV2BSTM-EK	12 - 48V DC	1.2 A - 0.38 A	Magenta	800,000	96-LM		
	107DV2BSTR-EK	12 - 48V DC	1.2 A - 0.38 A	Red	800,000	96-LR		
	107DV2BSTA-S1	250V DC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2BSTB-S1	250V DC	0.1 A	Blue	800,000	96-LB		
	107DV2BSTC-S1	250V DC	0.1 A	Clear	800,000	96-LC		
	107DV2BSTG-S1	250V DC	0.1 A	Green	800,000	96-LG		
	107DV2BSTM-S1	250V DC	0.1 A	Magenta	800,000	96-LM		
	107DV2BSTR-S1	250V DC	0.1 A	Red	800,000	96-LR		

[1]AC voltage frequency is 60 Hz
[2]Calculated at operating power to 75% efficiency.



Beacons
Flashing Xenon
107 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Peak Candela	Replacement		
						Inner Lens	Dome	Strobe Tube
Ceiling Mount AC	**107DV2CSTA-N5**	120V AC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2CSTB-N5	120V AC	0.1 A	Blue	800,000	96-LB		
	107DV2CSTC-N5	120V AC	0.1 A	Clear	800,000	96-LC		
	107DV2CSTG-N5	120V AC	0.1 A	Green	800,000	96-LG		
	107DV2CSTM-N5	120V AC	0.1 A	Magenta	800,000	96-LM		
	107DV2CSTR-N5	120V AC	0.1 A	Red	800,000	96-LR		
	107DV2CSTA-R5	240V AC	0.05 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2CSTB-R5	240V AC	0.05 A	Blue	800,000	96-LB		
	107DV2CSTC-R5	240V AC	0.05 A	Clear	800,000	96-LC		
	107DV2CSTG-R5	240V AC	0.05 A	Green	800,000	96-LG		
	107DV2CSTM-R5	240V AC	0.05 A	Magenta	800,000	96-LM		
	107DV2CSTR-R5	240V AC	0.05 A	Red	800,000	96-LR		
Ceiling Mount DC	**107DV2CSTA-EK**	12 - 48V DC	1.2 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2CSTB-EK	12 - 48V DC	1.2 A	Blue	800,000	96-LB		
	107DV2CSTC-EK	12 - 48V DC	1.2 A	Clear	800,000	96-LC		
	107DV2CSTG-EK	12 - 48V DC	1.2 A	Green	800,000	96-LG		
	107DV2CSTM-EK	12 - 48V DC	1.2 A	Magenta	800,000	96-LM		
	107DV2CSTR-EK	12 - 48V DC	1.2 A	Red	800,000	96-LR		
	107DV2CSTA-S1	250V DC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2CSTB-S1	250V DC	0.1 A	Blue	800,000	96-LB		
	107DV2CSTC-S1	250V DC	0.1 A	Clear	800,000	96-LC		
	107DV2CSTG-S1	250V DC	0.1 A	Green	800,000	96-LG		
	107DV2CSTM-S1	250V DC	0.1 A	Magenta	800,000	96-LM		
	107DV2CSTR-S1	250V DC	0.1 A	Red	800,000	96-LR		
Pendant Mount AC	**107DV2PSTA-N5**	120V AC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2PSTB-N5	120V AC	0.1 A	Blue	800,000	96-LB		
	107DV2PSTC-N5	120V AC	0.1 A	Clear	800,000	96-LC		
	107DV2PSTG-N5	120V AC	0.1 A	Green	800,000	96-LG		
	107DV2PSTM-N5	120V AC	0.1 A	Magenta	800,000	96-LM		
	107DV2PSTR-N5	120V AC	0.1 A	Red	800,000	96-LR		
	107DV2PSTA-R5	240V AC	0.05 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2PSTB-R5	240V AC	0.05 A	Blue	800,000	96-LB		
	107DV2PSTC-R5	240V AC	0.05 A	Clear	800,000	96-LC		
	107DV2PSTG-R5	240V AC	0.05 A	Green	800,000	96-LG		
	107DV2PSTM-R5	240V AC	0.05 A	Magenta	800,000	96-LM		
	107DV2PSTR-R5	240V AC	0.05 A	Red	800,000	96-LR		
Pendant Mount DC	**107DV2PSTA-EK**	12 - 48V DC	1.2 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2PSTB-EK	12 - 48V DC	1.2 A	Blue	800,000	96-LB		
	107DV2PSTC-EK	12 - 48V DC	1.2 A	Clear	800,000	96-LC		
	107DV2PSTG-EK	12 - 48V DC	1.2 A	Green	800,000	96-LG		
	107DV2PSTM-EK	12 - 48V DC	1.2 A	Magenta	800,000	96-LM		
	107DV2PSTR-EK	12 - 48V DC	1.2 A	Red	800,000	96-LR		
	107DV2PSTA-S1	250V DC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2PSTB-S1	250V DC	0.1 A	Blue	800,000	96-LB		
	107DV2PSTC-S1	250V DC	0.1 A	Clear	800,000	96-LC		
	107DV2PSTG-S1	250V DC	0.1 A	Green	800,000	96-LG		
	107DV2PSTM-S1	250V DC	0.1 A	Magenta	800,000	96-LM		
	107DV2PSTR-S1	250V DC	0.1 A	Red	800,000	96-LR		

[1]AC voltage frequency is 60 Hz
[2]Calculated at operating power to 75% efficiency.

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Beacons
Flashing Xenon
107 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement		
						Inner Lens	Dome	Strobe Tube
Diode Polarized Bracket Mount	**107DDV2BSTA-G1**	24V DC	1.4 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[1]
	107DDV2BSTB-G1	24V DC	1.4 A	Blue	800,000	96-LB		
	107DDV2BSTC-G1	24V DC	1.4 A	Clear	800,000	96-LC		
	107DDV2BSTG-G1	24V DC	1.4 A	Green	800,000	96-LG		
	107DDV2BSTM-G1	24V DC	1.4 A	Magenta	800,000	96-LM		
	107DDV2BSTR-G1	24V DC	1.4 A	Red	800,000	96-LR		
Diode Polarized Ceiling Mount	**107DDV2CSTA-G1**	24V DC	1.4 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[1]
	107DDV2CSTB-G1	24V DC	1.4 A	Blue	800,000	96-LB		
	107DDV2CSTC-G1	24V DC	1.4 A	Clear	800,000	96-LC		
	107DDV2CSTG-G1	24V DC	1.4 A	Green	800,000	96-LG		
	107DDV2CSTM-G1	24V DC	1.4 A	Magenta	800,000	96-LM		
	107DDV2CSTR-G1	24V DC	1.4 A	Red	800,000	96-LR		
Diode Polarized Pendant Mount	**107DDV2PSTA-G1**	24V DC	1.4 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[1]
	107DDV2PSTB-G1	24V DC	1.4 A	Blue	800,000	96-LB		
	107DDV2PSTC-G1	24V DC	1.4 A	Clear	800,000	96-LC		
	107DDV2PSTG-G1	24V DC	1.4 A	Green	800,000	96-LG		
	107DDV2PSTM-G1	24V DC	1.4 A	Magenta	800,000	96-LM		
	107DDV2PSTR-G1	24V DC	1.4 A	Red	800,000	96-LR		

[1]Calculated at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Optional Dome Guard	**EDVPGU1**

Hazardous Location Listings

Cat. No.	Class	Division	Group	Ambient Temperature	Operating Temperature Code
107DV2†ST*-N5 **107DV2†ST*-R5** **107DV2†ST*-EK** **107DV2†ST*-S1** **107DDV2BST*-G1** **107DDV2CST*-G1** **107DDV2PST*-G1**	I[2]	2	A, B, C, D	40°C (104°F)	T2 (300°C, 572°F)
				55°C (131°F)	T1 (450°C, 842°F)
				65°C (149°F)	T1 (450°C, 842°F)
	II[2]	1[2]	E, F, G	40°C (104°F)	T4A (120°C, 248°F)
		2[2]	F, G	55°C (131°F)	T4 (135°C, 275°F)
	III[2]	1 and 2[2]		65°C (149°F)	T3C (160°C, 320°F)

*Letter in this position designates color of the globe: A - amber, B - blue, C - clear, G - green, R - red or M - magenta.
[2]Pendant mount models only. Pendant mount models are also listed for use in Class II, Division 1, Groups E, F and G, Class II, Division 2, Groups F and G and Class III, Division 1 and 2 hazardous locations.
†Insert "B" for bracket mount, "C" for ceiling mount, or "P" for pendant mount.

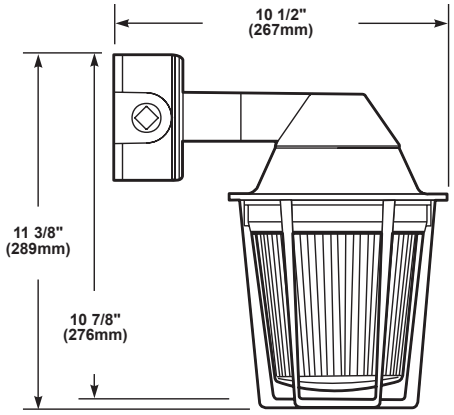
Beacons
Flashing Xenon
107 Series

Weights and Dimensions

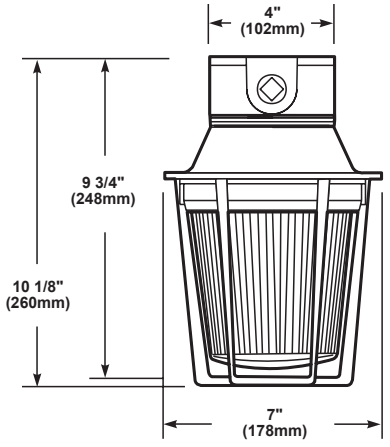
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
107DV2BST*-N5	6.36	10.83
107DV2BST*-R5	6.36	10.83
107DV2BST*-EK	6.70	11.16
107DV2BST*-S1	6.70	11.16
107DV2CST*-N5	5.30	9.76
107DV2CST*-R5	5.30	9.76
107DV2CST*-EK	5.63	10.10
107DV2CST*-S1	5.63	10.10
107DV2PST*-N5	3.80	8.26
107DV2PST*-R5	3.80	8.26
107DV2PST*-EK	4.13	8.60
107DV2PST*-S1	4.13	8.60
107DDV2BST*-G1	6.81	11.27
107DDV2CBST*-G1	5.74	10.21
107DDV2PST*-G1	4.24	8.71

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

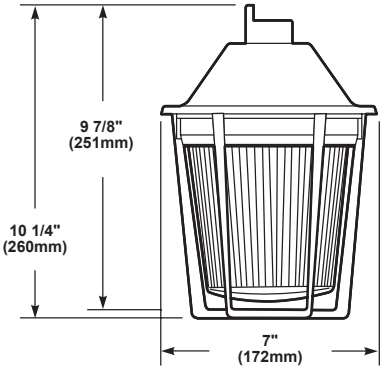
Bracket Mounting



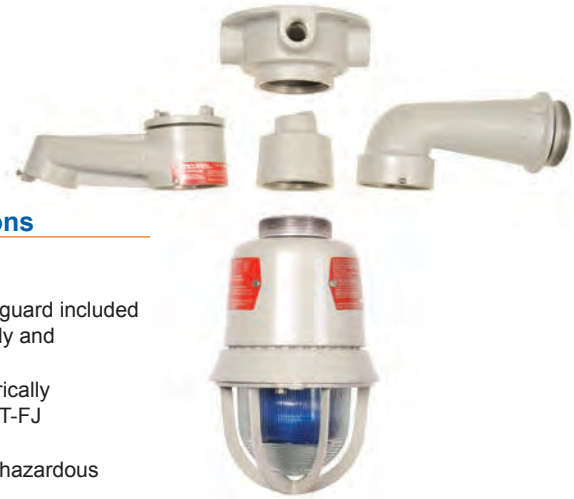
Ceiling Mounting



Pendant Mounting



Beacons: Explosionproof
Flashing Xenon
116 Series



Edwards 116DEXMST-FJ and 116EXMST Series Xenon strobe beacons are explosionproof, signaling devices suitable for use in hazardous indoor or outdoor applications requiring NEMA Type 3R or 4X installations. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

The 116DEXMST-FJ Series is Diode Polarized for use in electrically supervised circuits. Both versions can be bracket, ceiling, pendant or stanchion mounted.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- Diode Polarized for use in electrically supervised circuits (116DEXMST-FJ Series only)
- Suitable for indoor and outdoor hazardous applications
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- Explosionproof: Class I, Div 2, Groups A and B, Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Groups F and G

NOTE: Mounting options not included (ordered separately)

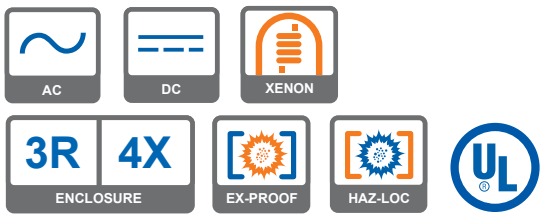
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement Dome	Replacement Inner Lens	Replacement Strobe Tube
Xenon Strobe AC	**116EXMSTA-N5**	120V AC	0.1 A	Amber	800,000	116-Globe	116-ST-LA	92-ST 3,000 hours.[2]
	116EXMSTB-N5	120V AC	0.1 A	Blue	800,000	116-Globe	116-ST-LB	
	116EXMSTC-N5	120V AC	0.1 A	Clear	800,000	116-Globe	116-ST-LC	
	116EXMSTG-N5	120V AC	0.1 A	Green	800,000	116-Globe	116-ST-LG	
	116EXMSTM-N5	120V AC	0.1 A	Magenta	800,000	116-Globe	116-ST-LM	
	116EXMSTR-N5	120V AC	0.1 A	Red	800,000	116-Globe	116-ST-LR	
Diode Polarized DC	**116DEXMSTA-FJ**	16 - 33V DC	0.95 A - 0.55 A	Amber	800,000	116-Globe	116-ST-LA	92-ST 3,000 hours.[2]
	116DEXMSTB-FJ	16 - 33V DC	0.95 A - 0.55 A	Blue	800,000	116-Globe	116-ST-LB	
	116DEXMSTC-FJ	16 - 33V DC	0.95 A - 0.55 A	Clear	800,000	116-Globe	116-ST-LC	
	116DEXMSTG-FJ	16 - 33V DC	0.95 A - 0.55 A	Green	800,000	116-Globe	116-ST-LG	
	116DEXMSTM-FJ	16 - 33V DC	0.95 A - 0.55 A	Magenta	800,000	116-Globe	116-ST-LM	
	116DEXMSTR-FJ	16 - 33V DC	0.95 A - 0.55 A	Red	800,000	116-Globe	116-ST-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	N/A
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT



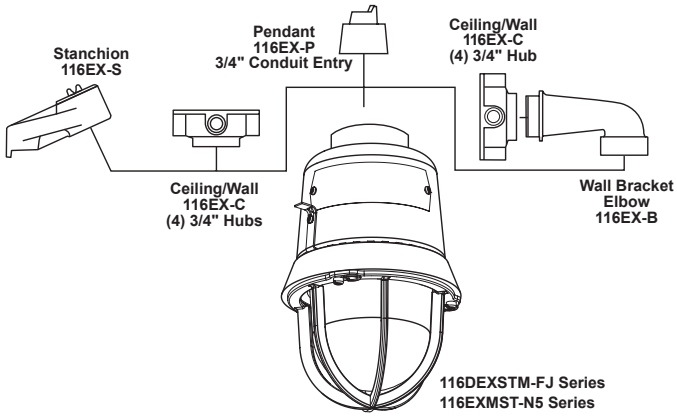
Beacons: Explosionproof
Flashing Xenon
116 Series

Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature			
			Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group F, G
116DEXSTM*-FJ	40°C	75°C	T2D (215°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2C (230°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
116EXMST*-N5	40°C	75°C	T4 (135°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3C (160°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T3C (160°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

Mounting Options



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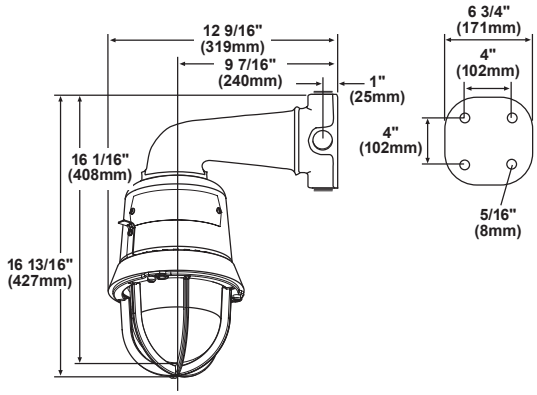
Beacons: Explosionproof
Flashing Xenon
116 Series

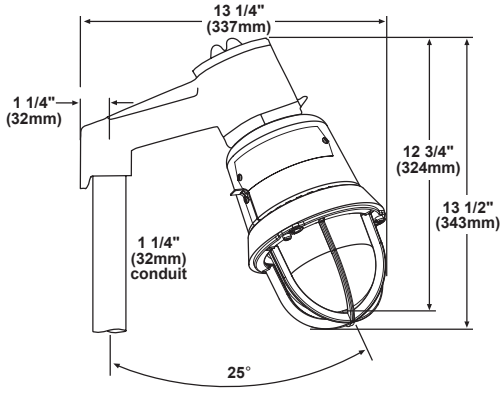
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXMSTA-N5	11.40	12.44
116EXMSTB-N5	11.40	12.44
116EXMSTC-N5	11.40	12.44
116EXMSTG-N5	11.40	12.44
116EXMSTM-N5	11.40	12.44
116EXMSTR-N5	11.40	12.44
116DEXMSTA-FJ	11.40	12.44
116DEXMSTB-FJ	11.40	12.44
116DEXMSTC-FJ	11.40	12.44
116DEXMSTG-FJ	11.40	12.44
116DEXMSTM-FJ	11.40	12.44
116DEXMSTR-FJ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

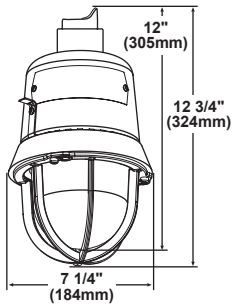
Wall Mount
116EX-B



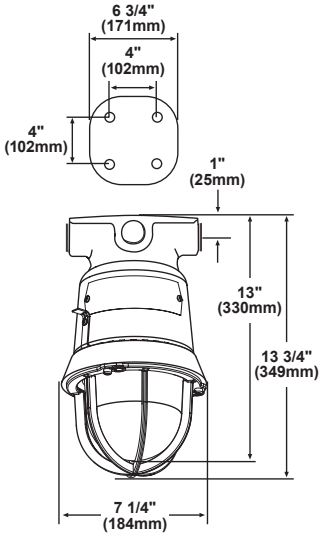
Stanchion Mount
116EX-S



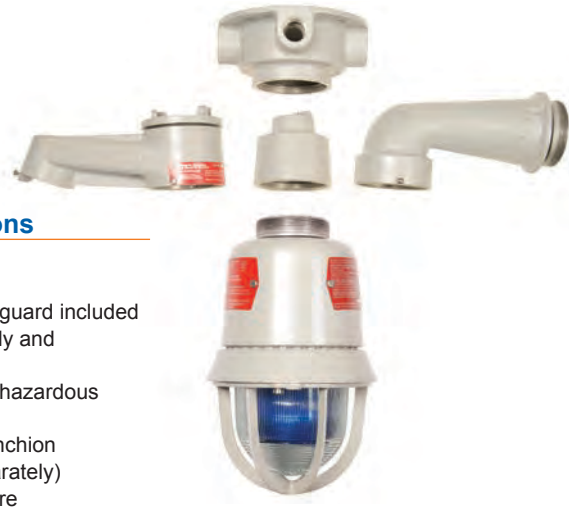
Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Beacons: Explosionproof
Flashing Xenon
116 Series



Edwards 116EXST-EK Series Xenon strobe beacons are explosionproof, signaling devices suitable for use in hazardous indoor or outdoor applications requiring NEMA Type 3R or 4X installations. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- Suitable for indoor and outdoor hazardous applications
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Groups F and G

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement		
						Dome	Inner Lens	Strobe Tube
Xenon Strobe	**116EXSTA-EK**	12 - 48V DC	1.2 - 0.38 A	Amber	800,000	116-Globe	116-ST-LA	92-ST 3,000 hr.[1]
	116EXSTB-EK	12 - 48V DC	1.2 - 0.38 A	Blue	800,000	116-Globe	116-ST-LB	
	116EXSTC-EK	12 - 48V DC	1.2 - 0.38 A	Clear	800,000	116-Globe	-	
	116EXSTG-EK	12 - 48V DC	1.2 - 0.38 A	Green	800,000	116-Globe	116-ST-LG	
	116EXSTM-EK	12 - 48V DC	1.2 - 0.38 A	Magenta	800,000	116-Globe	116-ST-LM	
	116EXSTR-EK	12 - 48V DC	1.2 - 0.38 A	Red	800,000	116-Globe	116-ST-LR	

[1]Calculated at operating power to 75% efficiency.

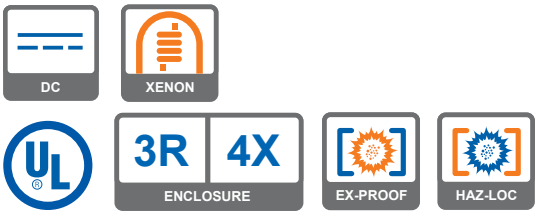
Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	N/A
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT

Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature			
			Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116EXST*-EK	40°C	75°C	T3 (200°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3 (200°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2D (215°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red



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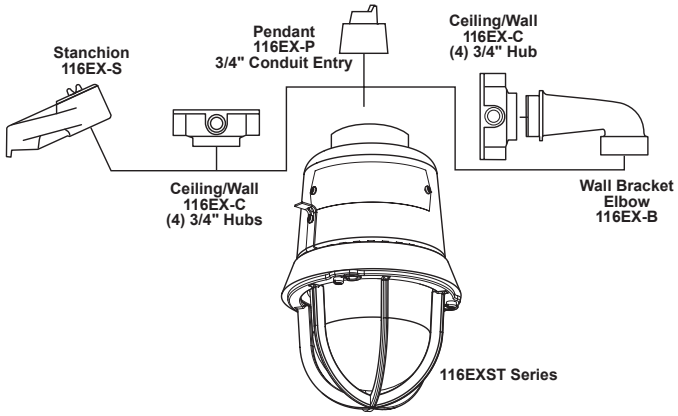
Beacons: Explosionproof
Flashing Xenon
116 Series

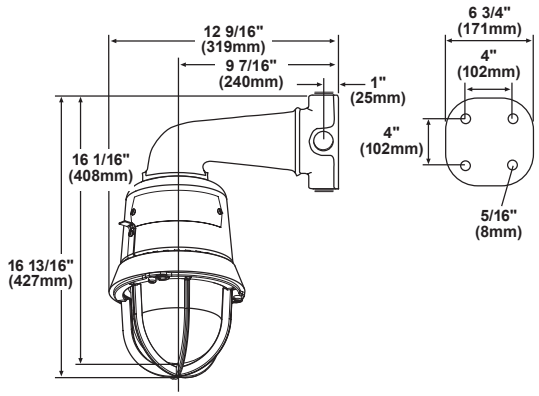
Mounting Options



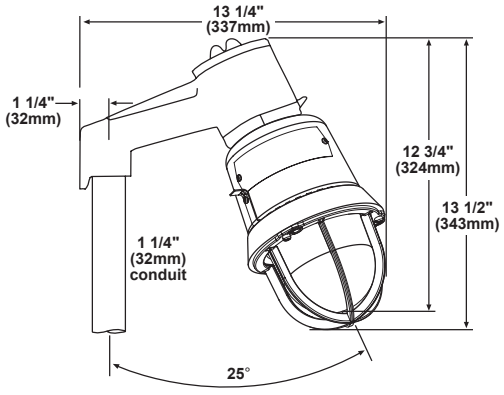
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXSTA-EK	11.40	12.44
116EXSTB-EK	11.40	12.44
116EXSTC-EK	11.40	12.44
116EXSTG-EK	11.40	12.44
116EXSTM-EK	11.40	12.44
116EXSTR-EK	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

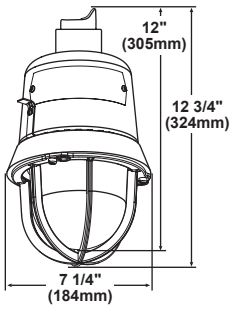
Wall Mount
116EX-B



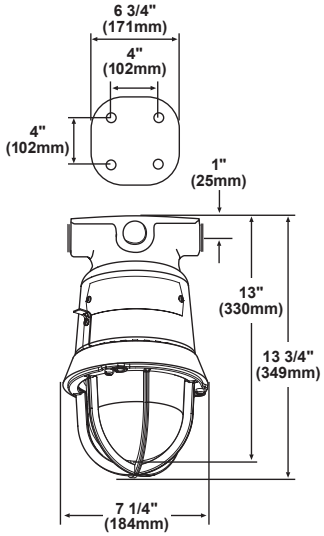
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Beacons: Explosionproof
Flashing Xenon
116 Series

Edwards 116DEXSTC-FJ Series Xenon strobe beacons are explosionproof, signaling devices suitable for use in hazardous indoor or outdoor applications requiring NEMA Type 3R or 4X installations. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

The 116DEXSTC-FJ Series is Diode Polarized for use in electrically supervised circuits, such as fire alarm systems. The strobe, when wall, ceiling or pendant mounted, is UL 1971 listed (ADA) for indoor visual signaling applications for the hearing impaired in non-sleeping areas. The unit can be stanchion mounted as well (non-fire alarm use).

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- Diode Polarized for use in electrically supervised circuits
- Suitable for indoor and outdoor hazardous applications
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- UL 1971 Listed (ADA)
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Groups F and G

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Candela	Replacement	
						Dome	Strobe Tube
Xenon Strobe	**116DEXSTC-FJ**	24V DC FWR	0.802 A (Max. DC) 1.14 A (Max. FWR)	Clear	60[2]	116-Globe	92-ST 3,000 hours.[1]

[1]Calculated at operating power to 75% efficiency.
[2]UL1971 Fire Alarm output rating, 800,000 peak candela for non-fire alarm listing.

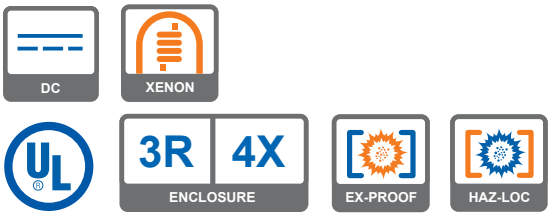
Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	N/A
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module[3]	**116EX-S**	1 1/4" NPT

[3]For non-fire alarm use.

Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature			
			Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group F, G
116DEXSTC-FJ	40°C	75°C	T2D (215°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2C (230°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)



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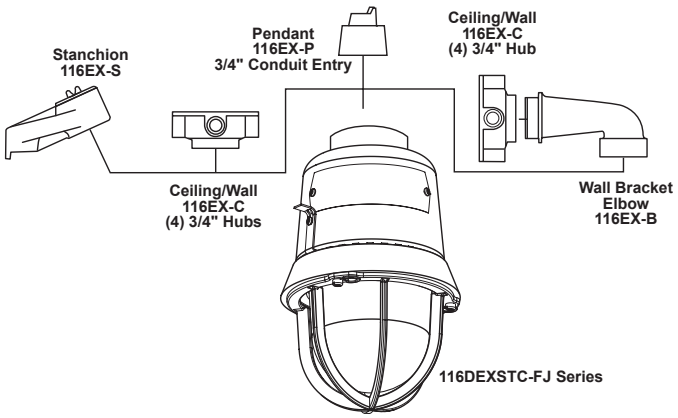
Beacons: Explosionproof
Flashing Xenon
116 Series

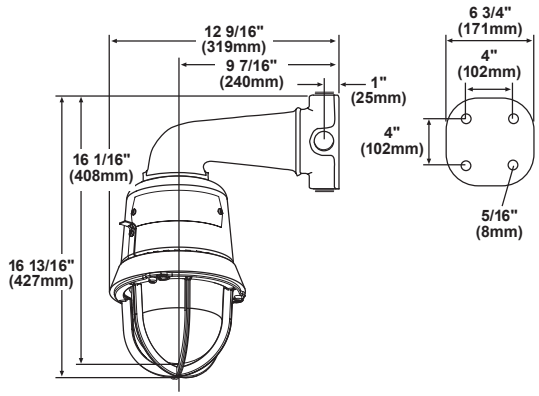
Mounting Options



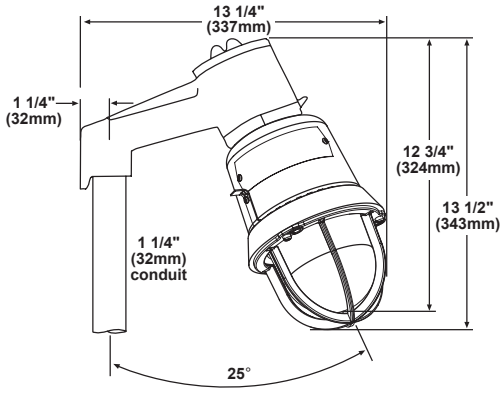
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEXSTC-FJ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

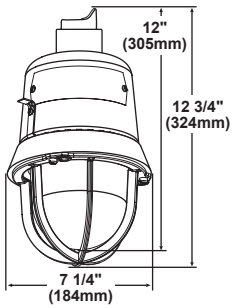
Wall Mount
116EX-B



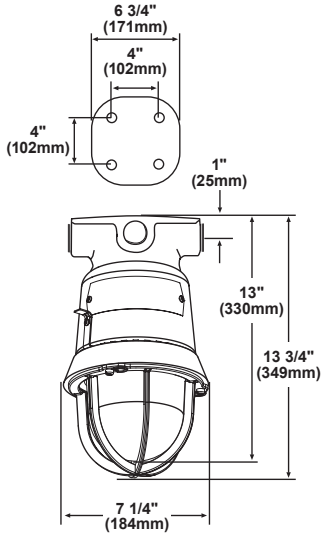
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Beacons: Explosionproof Fire Alarm Flashing Xenon
116 Series

NEW

Edwards 116 Series Genesis fire alarm strobe is designed for use in Class 1, Division 1 and 2 explosionproof and hazardous location applications where electrical supervision is required. The diode-polarized strobe is intended for indoor use in UL 1971 listed compatible fire alarm systems and is ADA compliant for the hearing impaired.

116 Series Genesis strobe provides 125 cd ceiling and 60 cd wall light output. With the guard installed, the strobe flashes with an output of 86 cd ceiling and 51 cd wall.

These units are UL 1638 and cUL listed for outdoor use as a NEMA Type 3R and 4X enclosure; and Canada (cUL) to Canadian standard ULC-S526-07 suitable for indoor or outdoor applications.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

Features and Specifications

- Xenon light source
- Flash rate 60 fpm
- Clear globe with dome guard
- Three mounting options: wall, ceiling, or pendant (ordered separately)
- Negligible in-rush current
- Approved for fire alarm applications
- NEMA Type 3R and 4X enclosures
- Can be synchronized when connected to a compatible Edwards control panel, booster power supply or synchronization module
- UL 1638, UL 1971 and cUL Listed
- Explosionproof: Class I, Div. 2, Groups A and B; Class I, Div. 1 and 2, Groups C and D; Class II, Div. 1, Groups E, F, G and Class III; Class II, Div. 2, Groups F, G and Class III.

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Replacement Dome	Replacement Guard
Explosionproof Fire Alarm Strobe	**116DEGEX-FJ**	24V DC	0.505 A, DC, RMS 0.683 A, FWR, RMS	Clear	116-Globe	116-GRD

[1]Regulated 16 to 33V DC/FWR.

Required Mounting Options[2]

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B[3]**	N/A
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Synchronization Module	**EG1M-RM**	—

[2]Mounting modules must be ordered separately.
[3]Note: Wall mount requires both 116EX-B and 116EX-C.

Hazardous Location Ratings

Cat. No.	Operating Temperature: Ambient Temp.	Supply Wire Temp. Marking	Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II, Div. 1 Groups E, F, G, & Class III	Class II, Div. 2 Groups F, G, & Class III
116 Series	40°C	75°C	T2B (260°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2B (260°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2B (260°C)	T6 (85°C)	T3C (160°C)	T3C (160°C)

DC XENON HAZ-LOC EX-PROOF

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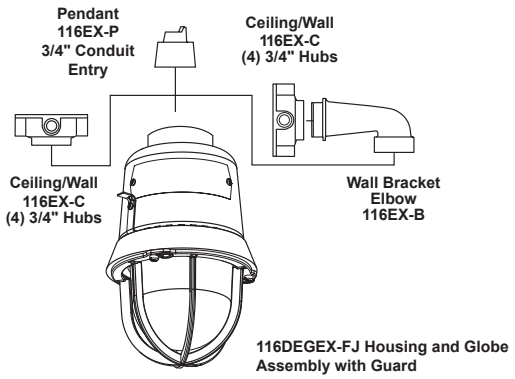
Beacons: Explosionproof Fire Alarm
Flashing Xenon
116 Series

Mounting Options

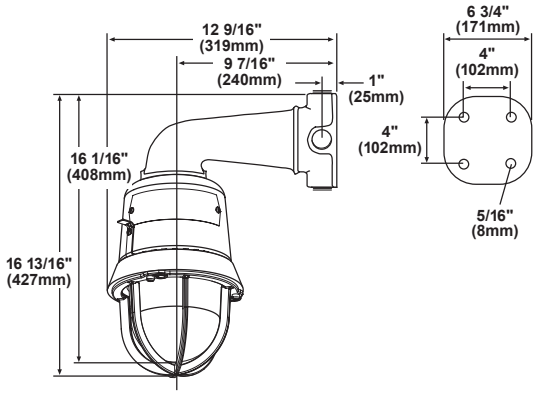


NOTE: 116EX-C must be used when application requires 116EX-B

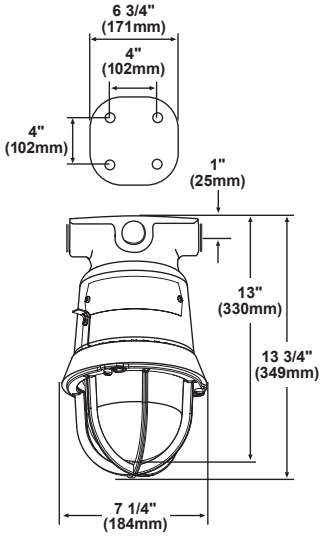
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEGEX-FJ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
EG1M-RM	—	1.25

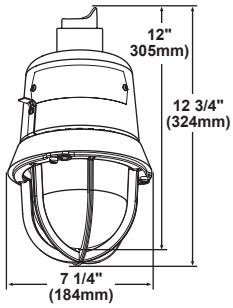
Wall Mount
116EX-B



Ceiling Mount
116EX-C



Pendant Mount
116EX-P



Beacons: Explosionproof
Flashing Xenon
116 Series

NEW

Edwards 116 Series mass notification strobes are designed for use in Class 1, Division 1 and 2 explosionproof and hazardous location (non fire alarm) applications where electrical supervision is required. The units feature two lenses, an outer clear globe, and an inner colored lens available in amber, red, green, blue or magenta.

This diode-polarized unit is UL 1638 and cUL listed for outdoor use as a NEMA Type 3R and 4X enclosure.The strobe has been evaluated to UL 1971 polar plot requirements with on axis light output values.

The 116 Series features an enhanced synchronization circuit to comply with the latest requirements of UL 1971, signaling devices for the hearing impaired, and the Canadian standard CAN/ULC S526. Synchronized operation requires a separately installed synchronization control module, compatible Edwards control panel or booster power supply. See table on the following page for a list of compatible synchronization modules.

Mounting options are available (ordered separately) for wall, ceiling and pendant mounts. The unit is supplied with a guard installed over the clear outer globe for additional protection against impact.

Features and Specifications

- Xenon light source
- Clear globe with dome guard
- Five lens colors
- Flash rate 65 fpm
- Three mounting options: wall, ceiling, or pendant (ordered separately)
- Negligible in-rush current
- Can be synchronized when connected to a compatible Edwards control panel, booster power supply or synchronization module
- NEMA Type 3R and 4X enclosures
- Explosionproof: Class I, Div 1, Groups C and D; Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Groups F and G.

R A M G B

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Light Output UL 1971	Replacement	
						Dome	Guard
Explosionproof Mass Notification Strobe	**116DEGEXA-FJ**	16-33V DC/FWR	0.505 A, DC, RMS 0.683 A, FWR, RMS	Amber	36 cd	116-Globe	116-GRD
	116DEGEXB-FJ	16-33V DC/FWR	0.505 A, DC, RMS 0.683 A, FWR, RMS	Blue	14 cd	116-Globe	116-GRD
	116DEGEXG-FJ	16-33V DC/FWR	0.505 A, DC, RMS 0.683 A, FWR, RMS	Green	19 cd	116-Globe	116-GRD
	116DEGEXM-FJ	16-33V DC/FWR	0.505 A, DC, RMS 0.683 A, FWR, RMS	Magenta	9 cd	116-Globe	116-GRD
	116DEGEXR-FJ	16-33V DC/FWR	0.505 A, DC, RMS 0.683 A, FWR, RMS	Red	6 cd	116-Globe	116-GRD

DC XENON

c UL us 3R 4X ENCLOSURE EX-PROOF HAZ-LOC

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Beacons: Explosionproof
Flashing Xenon
116 Series

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**[1]	N/A
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT

[1]Note: Wall mount requires both 116EX-B and 116EX-C.

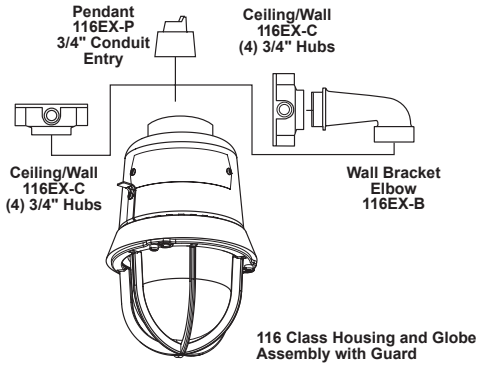
Compatible Synchronization Modules

Description	Cat. No.
Auto-sync Output Module	**SIGA-CC1S**
	SIGA-CC1S-LG
	SIGA-MCC1S
	SIGA-MCC1S-LG
Genesis Signal Master - Remote Mount	**ADTG1M-RM**
	EG1M-RM
	G1M-RM
	G1M-RM-LG
	MG1M-RM
	XLSG1M-RM
	ZG1M-RM

Hazardous Location Ratings

Cat. No.	Operating Temperature					
	Ambient Temp.	Supply Wire Temp. Marking	Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Groups F, G
116 Series	40°C	75°C	T2B (260°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2B (260°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2B (260°C)	T6 (85°C)	T3C (160°C)	T3C (160°C)

Mounting Options



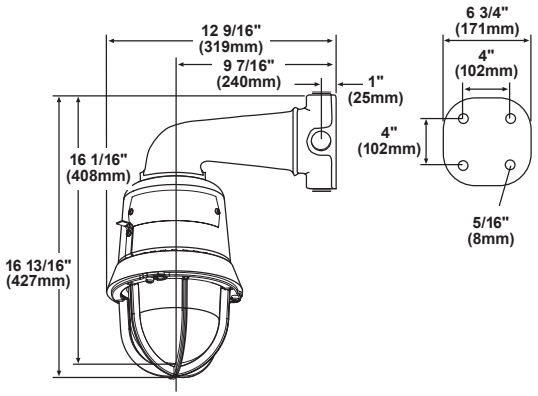
NOTE: 116EX-C must be used when application requires 116EX-B

Beacons: Explosionproof
Flashing Xenon
116 Series

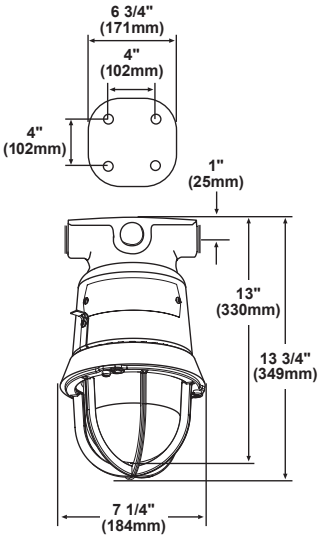
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEGEXA-FJ	11.40	12.44
116DEGEXB-FJ	11.40	12.44
116DEGEXG-FJ	11.40	12.44
116DEGEXM-FJ	11.40	12.44
116DEGEXR-FJ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26

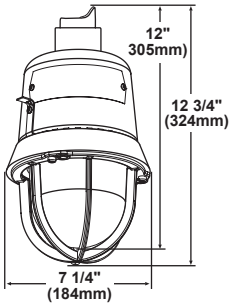
Wall Mount
116EX-B



Ceiling Mount
116EX-C



Pendant Mount
116EX-P



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Beacons
Flashing Xenon
3000 Series

The 3000 Series beacons are surface, flange mounted strobes designed for industrial applications and for applications where warning on a moving vehicle, such as a fork lift or tow motor is required.

The unit draws low current for a 12-48 V DC unit. The twist on-off lens makes for easy strobe tube and/or lens replacement. The 3000 Series beacons also feature a fully gasketed lens.

Features and Specifications

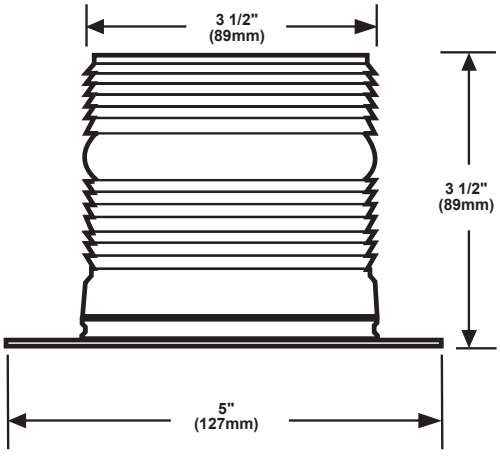
- Xenon light source
- 1.5 Joule Strobe
- 80 Nominal Single Flashes per minute (fpm)
- Flange mount
- 18" wire leads
- Low current draw
- 150,000 peak candela

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Replacement	
					Lens	Strobe Tube
Flashing Beacon	**3000SDR-EK**	12-48V DC	0.275 A - 0.130 A	Red	3000LM-R	91B-ST
	3000SDA-EK	12-48V DC	0.275 A - 0.130 A	Amber	3000LM-A	91B-ST
	3000SDB-EK	12-48V DC	0.275 A - 0.130 A	Blue	3000LM-B	91B-ST
	3000SDG-EK	12-48V DC	0.275 A - 0.130 A	Green	3000LM-G	91B-ST
	3000SDC-EK	12-48V DC	0.275 A - 0.130 A	Clear	3000LM-C	91B-ST

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
3000SDR-EK	0.57	0.72
3000SDA-EK	0.57	0.72
3000SDB-EK	0.57	0.72
3000SDG-EK	0.57	0.72
3000SDC-EK	0.57	0.72



Beacons
Rotating Halogen or Incandescent
52, 53 and 53D Series

Edwards 52, 53 and 53D Series rotating beacons are visual signals suitable for use in indoor or outdoor applications to provide maximum brilliance and long-term durability with minimum maintenance. The polycarbonate dome allows for easy cleaning.

The 52, 53 and 53D Series are ideal for use in high ambient noise applications, including security systems and factory/distribution facilities. The 53D Series is Diode Polarized for use in electrically supervised circuits.

Features and Specifications

- Halogen or Incandescent light source
- Light intensifying reflector
- Bayonet lamp socket for easy replacement
- Cast base can function as a junction box
- 1/2" NPT conduit or surface mounting
- For indoor applications, beacon may be mounted with lens pointing upward or downward
- For outdoor applications, lens should face up
- 52 Series must be conduit mounted for outdoor applications
- 53D is only suitable for indoor applications
- Designed for 4" octagonal box mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Lamp Ratings	Revolution Rate	Replacement Lens	Replacement Lamp
Halogen AC	**52A-G5-20WH**	24V AC	0.80 A	Amber	20 watts 226 lumens[2] 2839 cp 25,000 hours[3]	75 rpm	52-LA	50LMP-20WH or Industry Trade No. 1692[4,5]
	52B-G5-20WH	24V AC	0.80 A	Blue		75 rpm	52-LB	
	52C-G5-20WH	24V AC	0.80 A	Clear		75 rpm	52-LC	
	52G-G5-20WH	24V AC	0.80 A	Green		75 rpm	52-LG	
	52M-G5-20WH	24V AC	0.80 A	Magenta		75 rpm	52-LM	
	52R-G5-20WH	24V AC	0.80 A	Red		75 rpm	52-LR	
	52A-N5-40WH	120V AC	0.35 A	Amber	40 watts 265 lumens[2] 3328 cp 25,000 hours[3]	75 rpm	52-LA	50LMP-40WH
	52B-N5-40WH	120V AC	0.35 A	Blue		75 rpm	52-LB	
	52C-N5-40WH	120V AC	0.35 A	Clear		75 rpm	52-LC	
	52G-N5-40WH	120V AC	0.35 A	Green		75 rpm	52-LG	
	52M-N5-40WH	120V AC	0.35 A	Magenta		75 rpm	52-LM	
	52R-N5-40WH	120V AC	0.35 A	Red		75 rpm	52-LR	
Incandescent AC	**52A-R5**	240V AC	0.10 A	Amber	25 watts 232 lumens[2] 2914 cp 120 hours[3]	75 rpm	52-LA	P-041917-0039 or Industry Trade No. 25T8/240V/DC/CL[5]
	52B-R5	240V AC	0.10 A	Blue		75 rpm	52-LB	
	52C-R5	240V AC	0.10 A	Clear		75 rpm	52-LC	
	52G-R5	240V AC	0.10 A	Green		75 rpm	52-LG	
	52M-R5	240V AC	0.10 A	Magenta		75 rpm	52-LM	
	52R-R5	240V AC	0.10 A	Red		75 rpm	52-LR	
Incandescent DC	**53A-E1**	12V DC	1.8 A	Amber	25 watts 402 lumens[2] 5049 cp 200 hours[3]	75 rpm	52-LA	Industry Trade No. 1076[5]
	53B-E1	12V DC	1.8 A	Blue		75 rpm	52-LB	
	53C-E1	12V DC	1.8 A	Clear		75 rpm	52-LC	
	53G-E1	12V DC	1.8 A	Green		75 rpm	52-LG	
	53R-E1	12V DC	1.8 A	Red		75 rpm	52-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Bulb manufacturer's lumen rating
[3]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[4]Incandescent lamp
[5]User supplied

Beacons
Rotating Halogen or Incandescent
52, 53 and 53D Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Lamp Ratings	Revolution Rate	Replacement Lens	Replacement Lamp
Incandescent DC (continued)	**53A-G1**	24V DC	1.0 A	Amber	25 watts 402 lumens[1] 5049 cp 500 hours[2]	75 rpm	52-LA	Industry Trade No. 1638[3]
	53B-G1	24V DC	1.0 A	Blue		75 rpm	52-LB	
	53C-G1	24V DC	1.0 A	Clear		75 rpm	52-LC	
	53G-G1	24V DC	1.0 A	Green		75 rpm	52-LG	
	53R-G1	24V DC	1.0 A	Red		75 rpm	52-LR	
Incandescent Diode Polarized DC	**53DA-GW**	24 - 28V DC	1.0 A	Amber	25 watts 402 lumens[1] 5049 cp 500 hours[2]	75 rpm	52-LA	Industry Trade No. 1638[3]
	53DB-GW	24 - 28V DC	1.0 A	Blue		75 rpm	52-LB	
	53DC-GW	24 - 28V DC	1.0 A	Clear		75 rpm	52-LC	
	53DG-GW	24 - 28V DC	1.0 A	Green		75 rpm	52-GC	
	53DR-GW	24 - 28V DC	1.0 A	Red		75 rpm	52-LR	

[1]Bulb manufacturer's lumen rating
[2]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[3]User supplied

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

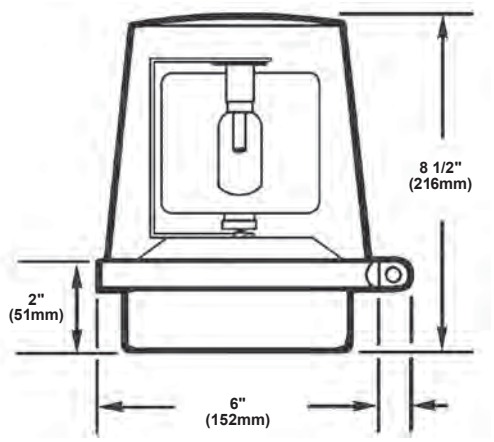
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
52*-G5-20WH	1.88	2.21
52*-N5-40WH	2.40	2.80
52*-R5	1.88	2.21
53†-E1	1.62	1.96
53†-G1	1.62	1.96
53D†-GW	1.62	1.96
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red
†Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green or R - red



Beacons
Rotating Halogen
58 Series

Edwards 58 Series rotating beacons are heavy-duty visual signals suitable for use in hazardous indoor and outdoor applications where a corrosion resistant NEMA Type 4X enclosure is required. Features a bayonet base and a polycarbonate dome allows for easy cleaning. Ideal for use in high ambient noise applications where audible or visual signals are difficult to distinguish.

Features and Specifications

- Halogen light source
- Motor driven reflector
- Bayonet base lamp socket
- 3/4" NPT conduit or surface mounting
- Suitable for indoor or outdoor hazardous applications (with conduit mounting)
- For outdoor use, lens should face up
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III, Div 1
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Lamp Ratings	Revolution Rate	Replacement	
							Dome	Lamp
Rotating Light Halogen	**58A-N5-100WH**	120V AC	1.0 A	Amber	1,800 lumens[2] 1620 cd 1,000 hours[3]	75 rpm	94DV2-DA	100Q/CL/DC/120V
	58B-N5-100WH	120V AC	1.0 A	Blue		75 rpm	94DV2-DB	
	58C-N5-100WH	120V AC	1.0 A	Clear		75 rpm	94DV2-DC	
	58G-N5-100WH	120V AC	1.0 A	Green		75 rpm	94DV2-DG	
	58M-N5-100WH	120V AC	1.0 A	Magenta		75 rpm	94DV2-DM	
	58R-N5-100WH	120V AC	1.0 A	Red		75 rpm	94DV2-DR	

[1]AC voltage frequency is 50/60 Hz
[2]Bulb manufacturer's lumen rating
[3]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

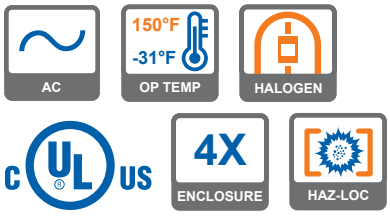
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Hazardous Location Listings

Cat. No.	Class	Division	Group	Operating Temperature Code
58*-N5-100WH	I	2	A,B,C,D	T1 (450°C, 842°F)
	II	2	F,G	T6 (85°C, 185°F)
	III	1		T6 (85°C, 185°F)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red



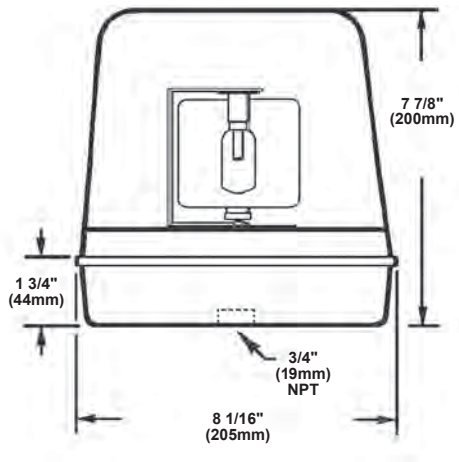
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Rotating Halogen
58 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
58*-N5-100WH	5.60	6.20
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Rotating Incandescent
100SB Series

Edwards 100SB Series rotating beacons are heavy duty visual signals designed with dual sealed beam lamps that rotate 360 degrees within a high impact polycarbonate dome. The PVC coated base allows for greater corrosion resistance and durability. Features a quiet belt drive for simplified maintenance.

Features and Specifications

- Incandescent light source
- Dual sealed beams
- PVC coated base
- Quiet belt drive for simplified maintainence
- 3/4" NPT conduit mounting
- NEMA Type 3R enclosure
- For outdoor applications, lens should face up

R A G B C

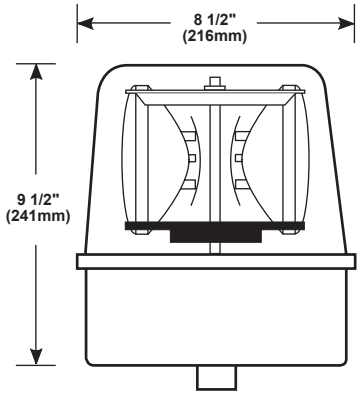
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Dome Colors	Flash Rate	Peak Candela	Replacement		
							Dome	Belt	Lamp
Rotating Light Incandescent	**100SBA-N5**	120V AC	0.8 A	Amber	80 fpm	35,000	100SB-LA	100SB-RB	GE #4416-1 900 hours.[2, 3]
	100SBB-N5	120V AC	0.8 A	Blue	80 fpm	35,000	100SB-LB		
	100SBC-N5	120V AC	0.8 A	Clear	80 fpm	35,000	100SB-LC		
	100SBG-N5	120V AC	0.8 A	Green	80 fpm	35,000	100SB-LG		
	100SBR-N5	120V AC	0.8 A	Red	80 fpm	35,000	100SB-LR		

[1]AC voltage frequency is 50/60 Hz
[2]Projected life based on manufacturer's calculated lamp life.
[3]User supplied

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
100SBA-N5	7.72	8.64
100SBB-N5	7.72	8.64
100SBC-N5	7.72	8.64
100SBG-N5	7.72	8.64
100SBR-N5	7.72	8.64



AC INCAND.

c UL US 3R ENCLOSURE

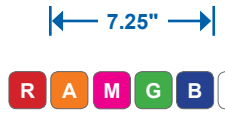
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons: Explosionproof
Rotating Halogen
116 Series

Edwards 116EXMRIN Series rotating beacons are explosionproof, signaling devices suitable for use in hazardous indoor or outdoor applications. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution. The unit can be bracket, ceiling, pendant or stanchion mounted.

Features and Specifications

- Halogen light source
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- Suitable for indoor or outdoor hazardous applications
- 75 rotations per minute
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- Marine rated
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Group G



NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement		
						Dome	Inner Lens	Lamp
Rotating Light Halogen	**116EXMRINHA-N5**	120V AC	0.35 A	Amber	3,328	116-Globe	116-RIN-LA	50LMP-40WH 25,000 hours.[2]
	116EXMRINHB-N5	120V AC	0.35 A	Blue	3,328	116-Globe	116-RIN-LB	
	116EXMRINHC-N5	120V AC	0.35 A	Clear	3,328	116-Globe	116-RIN-LC	
	116EXMRINHG-N5	120V AC	0.35 A	Green	3,328	116-Globe	116-RIN-LG	
	116EXMRINHM-N5	120V AC	0.35 A	Magenta	3,328	116-Globe	116-RIN-LM	
	116EXMRINHR-N5	120V AC	0.35 A	Red	3,328	116-Globe	116-RIN-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Projected life based on manufacturer's calculated lamp life.

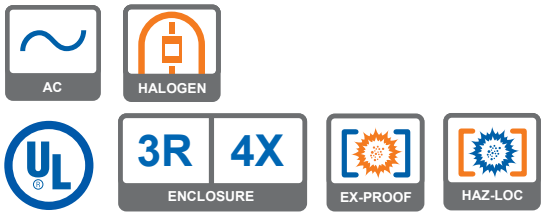
Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	N/A
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT

Hazardous Location Listings

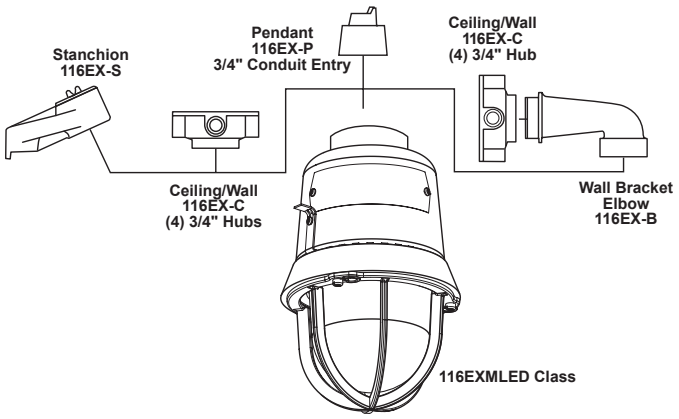
Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature			
			Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116EXMRINH*-N5	40°C	75°C	T1 (450°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T1 (450°C)	T5 (100°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T1 (450°C)	T5 (100°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red



Beacons: Explosionproof
Rotating Halogen
116 Series

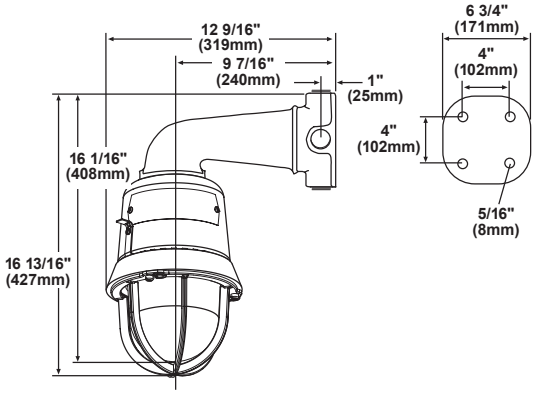
Mounting Options



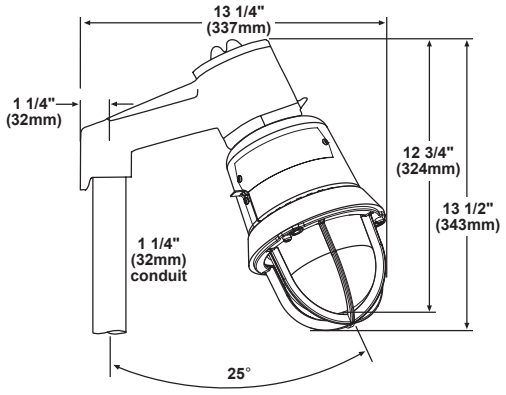
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXMRINHA-N5	11.60	13.00
116EXMRINHB-N5	11.60	13.00
116EXMRINHC-N5	11.60	13.00
116EXMRINHG-N5	11.60	13.00
116EXMRINHM-N5	11.60	13.00
116EXMRINHR-N5	11.60	13.00
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

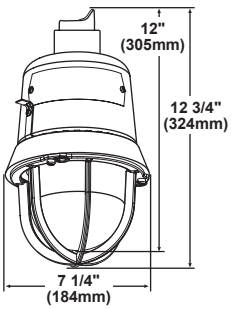
Wall Mount
116EX-B



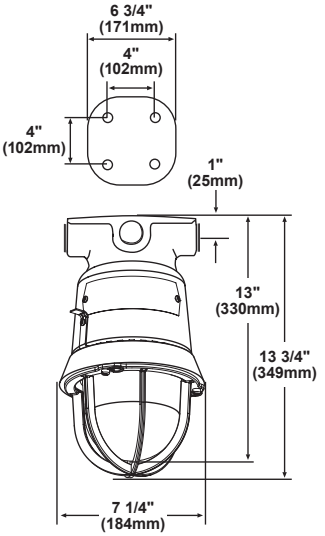
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Beacons: Explosionproof
Rotating Halogen
116 Series

7.25"

R A M G B C

NOTE: Mounting options not included (ordered separately)

Edwards 116DEXMRINH Series, supervised DC, rotating beacons are explosionproof, signaling devices designed for hazardous indoor or outdoor applications. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution. The 116DEXMRINH Series is Diode Polarized for use in electrically supervised circuits and can be bracket, ceiling, pendant or stanchion mounted.

Features and Specifications

- Halogen light source
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- 75 rotations per minute
- Diode Polarized for use in electrically supervised circuits
- Suitable for indoor or outdoor hazardous applications
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- Marine rated
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Group G

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement Dome	Replacement Inner Lens	Replacement Lamp
Rotating Light Halogen	**116DEXMRINHA-GW**	24 - 28V DC	0.8 A	Amber	2838	116-Globe	116-RIN-LA	50LMP-20WH 25,000 hours.[1]
	116DEXMRINHB-GW	24 - 28V DC	0.8 A	Blue	2838	116-Globe	116-RIN-LB	
	116DEXMRINHC-GW	24 - 28V DC	0.8 A	Clear	2838	116-Globe	116-RIN-LC	
	116DEXMRINHG-GW	24 - 28V DC	0.8 A	Green	2838	116-Globe	116-RIN-LG	
	116DEXMRINHM-GW	24 - 28V DC	0.8 A	Magenta	2838	116-Globe	116-RIN-LM	
	116DEXMRINHR-GW	24 - 28V DC	0.8 A	Red	2838	116-Globe	116-RIN-LR	

[1]Projected life based on manufacturer's calculated lamp life.

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	N/A
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT

Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature: Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116DEXMRINH*-GW	40°C	75°C	T3 (200°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3 (200°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2D (215°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

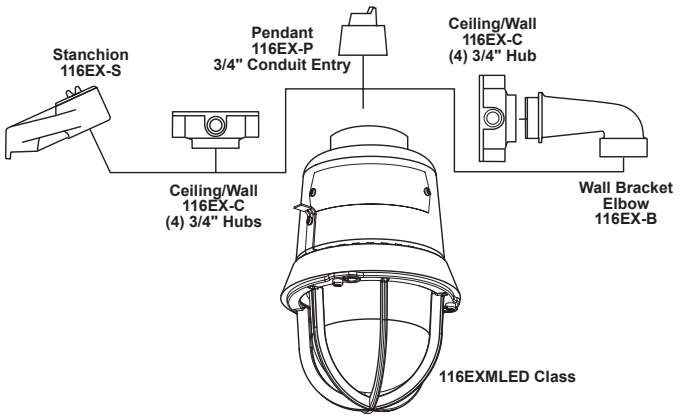
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

DC HALOGEN

UL 3R 4X ENCLOSURE EX-PROOF HAZ-LOC

Beacons: Explosionproof
Rotating Halogen
116 Series

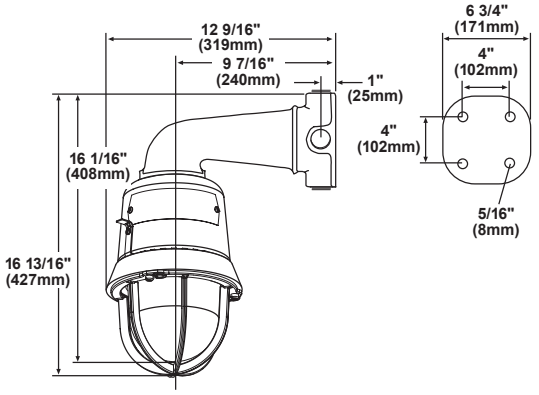
Mounting Options



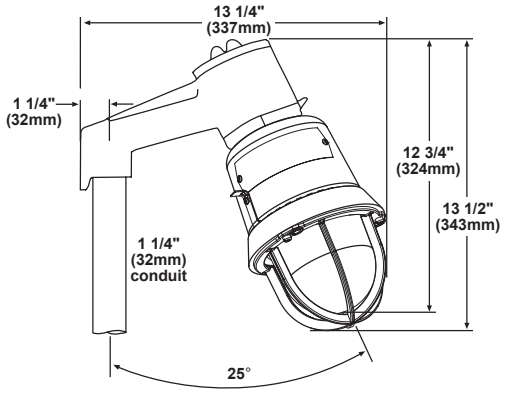
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEXMRINHA-GW	11.60	13.00
116DEXMRINHB-GW	11.60	13.00
116DEXMRINHC-GW	11.60	13.00
116DEXMRINHG-GW	11.60	13.00
116DEXMRINHM-GW	11.60	13.00
116DEXMRINHR-GW	11.60	13.00
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

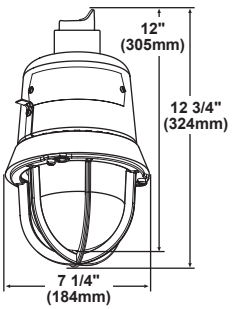
Wall Mount
116EX-B



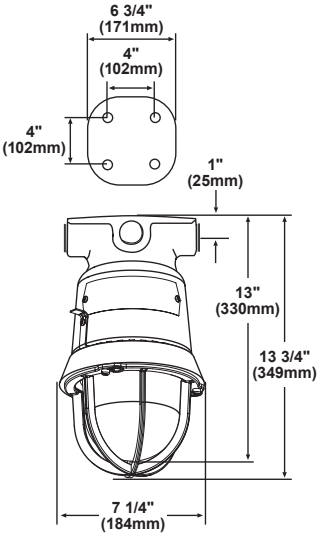
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



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Magnetic Personality

"My job is to make sure everything in our facility operates safely and reliably.

For more than 20 years Sentrol Industrial Magnetic Switches have been a key part of that equation. The way I see it, there is just no substitute for a proven track record.

For applications ranging from machine safety interlocking to positioning, we choose Sentrol from Edwards."

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Magnetic Switches and Contacts

Machine Safeguarding and Position Sensing

Whether it's a new machine design or a retrofit to increase operator safety on an existing machine, GuardSwitches™ provide the best fit for your application.

All GuardSwitches™ are non-contact, magnetic devices consisting of a switch and a magnet actuator. They are extremely tolerant of misalignment and the build-up of dirt, grease and other contaminants.

The typical air gap between actuator and switch is 0.5" to 1.0". This allows easy installation and a margin for the usual "settling out" shift that occurs in machine guard doors and gates.

GuardSwitches™ actuate through wood, aluminum, stainless steel or any other nonferrous material. This allows the interlock switches to be concealed in the machine for added protection against tampering. In addition, all switching elements are hermetically sealed, so they can be installed in dirty or corrosive environments.

The 300-BT Series non-contact GuardSwitches™ offer superior defeat resistance, ease of installation and are fail-safe when used with our INT Safety Monitor Relays. Edwards position sensors have earned their reputation for quality. They are built for durability and dependability. Most are conservatively rated at 100,000 cycles under full load and 10,000,000 cycles under dry circuit. Every reed connection is hand soldered and the reeds in all modes are environmentally sealed.

A Tradition of Excellence

Our reputation for durability and dependability is based on meticulous manufacturing standards and stringent testing procedures. Our worldclass manufacturing has earned ISO 9001 certification for quality. Our manufacturing standards and attention to detail virtually eliminate out-of-box failures.

Edwards Signaling non-contact interlock switches are developed and manufactured by the market leader for industrial applications. We produce a full line of interlock and position sensors providing solutions for your machine guarding and sensing needs.

See our Industrial Contacts Catalog for all contact devices offered by Edwards.

EDWARDS

Smarter Signaling

"Some signaling applications require both audible *and* visual functionality combined in one stand-alone device. This redundant approach provides an extra layer of protection for our *employees while saving time and money on installation costs.*

It's the smart choice for our business."

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Product Index

Seen and heard. With new advanced XBR LED technology, Edwards offers signaling with exceptional brilliance and an integrated audible component that demands attention. Ideal for any industrial or commercial application, Edwards' dual signaling devices produce an unmistakable audible and visual warning.

Audible/Visual Signals

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Audible/Visual Signals
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Beacons with Horn
Flashing LED
51XBR Series

NEW

Edwards 51XBR Series XTRA-BRITE™ LED beacons are combination visual and audible signaling devices, designed for indoor or outdoor applications. The integrated horn is synchronized with the flashing LED. The unit features a cast metal base that can be used as a junction box. The double fresnel lens is made of shatter-resistant polycarbonate, and is designed to magnify the superbright LED.

Features and Specifications

- LED light source with integrated horn
- Flash rate 65fpm
- Shatter-resistant double fresnel polycarbonate lens
- Immune to shock and vibration
- Cast metal base
- Suitable for indoor and outdoor applications
- Horn is 95dB at 1 meter/85dB at 10ft.
- Option for panel, conduit or wall mounting
- Operating temperature range: -31ºF to 150ºF (-35ºC to 66ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	Median LED Life (L70)[1]	Lens Color	Replacement Lens	Replacement Horn	Replacement Flasher
AC	**51XBRFA120A**	120V AC	0.175 A	148,000 hours	Amber	92-LA	123A-N5	P-041917-0026
	51XBRFB120A	120V AC	0.175 A	148,000 hours	Blue	92-LB	123A-N5	P-041917-0026
	51XBRFG120A	120V AC	0.175 A	148,000 hours	Green	92-LG	123A-N5	P-041917-0026
	51XBRFR120A	120V AC	0.175 A	148,000 hours	Red	92-LR	123A-N5	P-041917-0026
	51XBRFW120A	120V AC	0.175 A	148,000 hours	Clear	92-LC	123A-N5	P-041917-0026
DC	**51XBRFA24D**	24V DC	0.275 A	148,000 hours	Amber	92-LA	118-G1	P-041917-0028
	51XBRFB24D	24V DC	0.275 A	148,000 hours	Blue	92-LB	118-G1	P-041917-0028
	51XBRFG24D	24V DC	0.275 A	148,000 hours	Green	92-LG	118-G1	P-041917-0028
	51XBRFR24D	24V DC	0.275 A	148,000 hours	Red	92-LR	118-G1	P-041917-0028
	51XBRFW24D	24V DC	0.275 A	148,000 hours	Clear	92-LC	118-G1	P-041917-0028

[1]Based on LED manufacturer's projections. Refer to http://www.philipslumileds.com/pdfs/WP15.pdf
[2]AC voltage frequency is 50/60 Hz

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage[2]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush / Duration)
51XBRF*120A	120V AC	0.010	0.175	50 A / 260 µSeconds
51XBRF*24D	24V DC	0.010	0.275	10 A / 120 µSeconds

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, or W - clear

c UL us

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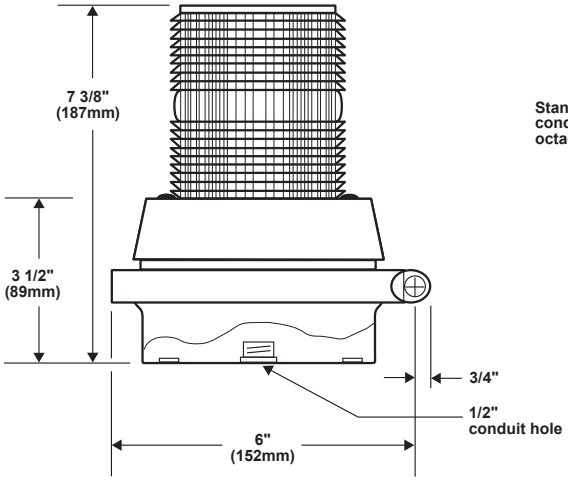
Beacons with Horn
Flashing LED
51XBR Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
51XBRF*120A	1.80	2.14
51XBRF*24D	1.80	2.14

*Letter in this position designates lens color: A - amber, B - blue, G - green, R - red, or W - clear



Standard mounting options are 1/2" (13mm) conduit, direct surface or 4" (102mm) octagonal box.

Beacons with Horn
Steady Incandescent
51 Series

Edwards 51 Series Steady-On Incandescent beacons with integrated horns are combination signaling devices, suitable for indoor or outdoor applications. The base is aluminum cast and can function as a junction box. The double fresnel lens is made of shatter-resistant polycarbonate and optically engineered to maximize light distribution and viewing distance.

Features and Specifications

- Incandescent light source with integrated horn
- Shatter-resistant double fresnel polycarbonate lens
- High resistance to shock and vibration
- Aluminum cast base can function as a junction box
- Suitable for use in indoor and outdoor applications
- Horn is 95dB at 1 meter/85dB at 10ft.
- Option for panel, conduit or box mounting
- Operating temperature range: -31ºF to 150ºF (-35ºC to 66ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[3]	Current	Lamp Ratings	Lens Color	Replacement Lens	Replacement Horn	Replacement Lamp
AC	**51SINA-N5-40W**	120V AC	0.29 A	266 lumens[1] 3341 cp 3,920 hours[2]	Amber	92-LA	123A-N5	50LMP-40W or Industry Trade No. 25T8DC[4]
	51SINB-N5-40W	120V AC	0.29 A		Blue	92-LB	123A-N5	
	51SINC-N5-40W	120V AC	0.29 A		Clear	92-LC	123A-N5	
	51SING-N5-40W	120V AC	0.29 A		Green	92-LG	123A-N5	
	51SINM-N5-40W	120V AC	0.29 A		Magenta	92-LM	123A-N5	
	51SINR-N5-40W	120V AC	0.29 A		Red	92-LR	123A-N5	
DC	**51SINA-G1**	24V DC	0.80 A	402 lumens[1] 5049 cp 3,180 hours[2]	Amber	92-LA	118-G1	Industry Trade No. 1638[4]
	51SINB-G1	24V DC	0.80 A		Blue	92-LB	118-G1	
	51SINC-G1	24V DC	0.80 A		Clear	92-LC	118-G1	
	51SING-G1	24V DC	0.80 A		Green	92-LG	118-G1	
	51SINM-G1	24V DC	0.80 A		Magenta	92-LM	118-G1	
	51SINR-G1	24V DC	0.80 A		Red	92-LR	118-G1	

[1]Bulb manufacturer's lumen rating
[2]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[3]AC voltage frequency is 50/60 Hz.
[4]User supplied

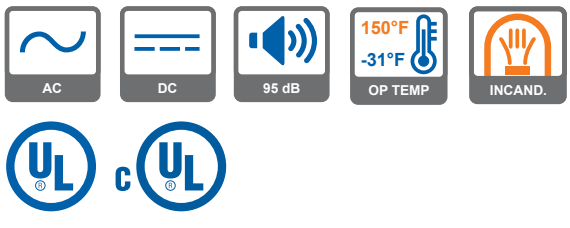
Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**
Lens Guard	**92-GRD**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

92-GRD
Lens Guard



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Beacons with Horn
Steady Incandescent
51 Series

Signal Input Load Characteristics

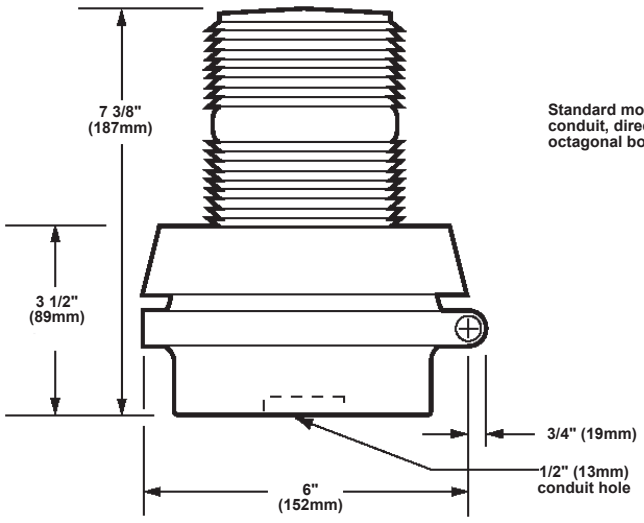
These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush / Duration)
51SIN*-N5-40W	120V AC 60 Hz	0.025	0.29 A	0.47 A / 8 mSeconds
51SIN*-G1	24V DC	0.025	0.80 A	0.9 A / 1 mSeconds

*Letter in this position designates lens color: A - amber, B - blue, C- clear, G - green, M - magenta or R- red

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
51SIN*-N5-40W	1.30	1.64
51SIN*-G1	1.40	1.74



Standard mounting options are 1/2" (13mm) conduit, direct surface or 4" (102mm) octagonal box.

Beacons with Horn
Flashing Incandescent
51 Series

Edwards 51 Series Flashing Incandescent beacons with integrated horns are combination visual and audible signaling devices, designed for indoor or outdoor applications. The integrated horn is synchronized with the flashing incandescent. The base is cast and can function as a junction box. The double fresnel lens is made of shatter-resistant polycarbonate and optically engineered to maximize light distribution and viewing distance.

Features and Specifications

- Incandescent light source with integrated horn
- Flash rate 65 fpm
- Shatter-resistant double fresnel polycarbonate lens
- Cast base can function as a junction box
- Suitable for use in indoor and outdoor applications
- Horn is 95dB at 1 meter/85dB at 10ft.
- Option for panel, conduit or box mounting
- Operating temperature range: -31ºF to 150ºF (-35ºC to 66ºC)

R A M G B C

Ordering Information

Description	Cat. No.	Operating Voltage[4]	Current	Lamp Ratings	Lens Color	Replacement Lens	Replacement Horn	Replacement Flasher	Replacement Lamp
24V AC	**51A-G5-20W**	24V AC	1.1 A	20 watts 402 lumens[1] 5049 candela 3,180 hours	Amber	92-LA	123A-G5	P-041917-0029	Industry Trade No. 1638[5]
	51B-G5-20W	24V AC	1.1 A		Blue	92-LB	123A-G5	P-041917-0029	
	51C-G5-20W	24V AC	1.1 A		Clear	92-LC	123A-G5	P-041917-0029	
	51G-G5-20W	24V AC	1.1 A		Green	92-LG	123A-G5	P-041917-0029	
	51M-G5-20W	24V AC	1.1 A		Magenta	92-LM	123A-G5	P-041917-0029	
	51R-G5-20W	24V AC	1.1 A		Red	92-LR	123A-G5	P-041917-0029	
120V AC	**51A-N5-40W**[3]	120V AC	0.29 A	40 watts 266 lumens[1] 3341 candela 3,920 hours	Amber	92-LA	123A-N5	P-041917-0026	50LMP-40W (P-041695-0108)
	51B-N5-40W[3]	120V AC	0.29 A		Blue	92-LB	123A-N5	P-041917-0026	
	51C-N5-40W[3]	120V AC	0.29 A		Clear	92-LC	123A-N5	P-041917-0026	
	51G-N5-40W[3]	120V AC	0.29 A		Green	92-LG	123A-N5	P-041917-0026	
	51M-N5-40W[3]	120V AC	0.29 A		Magenta	92-LM	123A-N5	P-041917-0026	
	51R-N5-40W[3]	120V AC	0.29 A		Red	92-LR	123A-N5	P-041917-0026	
12V DC	**51A-E1**	12V DC	1.0 A	24 watts 189 lumens[1] 2374 candela 700 hours[2]	Amber	92-LA	118-G1	P-041917-0028	Industry Trade No. 94[5]
	51B-E1	12V DC	1.0 A		Blue	92-LB	118-G1	P-041917-0028	
	51C-E1	12V DC	1.0 A		Clear	92-LC	118-G1	P-041917-0028	
	51G-E1	12V DC	1.0 A		Green	92-LG	118-G1	P-041917-0028	
	51M-E1	12V DC	1.0 A		Magenta	92-LM	118-G1	P-041917-0028	
	51R-E1	12V DC	1.0 A		Red	92-LR	118-G1	P-041917-0028	
24V DC	**51A-G1**	24V DC	1.0 A	24 watts 402 lumens[1] 5049 candela 3,180 hours[2]	Amber	92-LA	118-G1	P-041917-0028	Industry Trade No. 1638[5]
	51B-G1	24V DC	1.0 A		Blue	92-LB	118-G1	P-041917-0028	
	51C-G1	24V DC	1.0 A		Clear	92-LC	118-G1	P-041917-0028	
	51G-G1	24V DC	1.0 A		Green	92-LG	118-G1	P-041917-0028	
	51M-G1	24V DC	1.0 A		Magenta	92-LM	118-G1	P-041917-0028	
	51R-G1	24V DC	1.0 A		Red	92-LR	118-G1	P-041917-0028	

[1]Bulb manufacturer's lumen rating
[2]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[3]Only these are UL listed.
[4]AC voltage frequency is 50/60 Hz
[5]User supplied

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Beacons with Horn
Flashing Incandescent
51 Series

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**
Lens Guard	**92-GRD**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

92-GRD
Lens Guard

Signal Input Load Characteristics

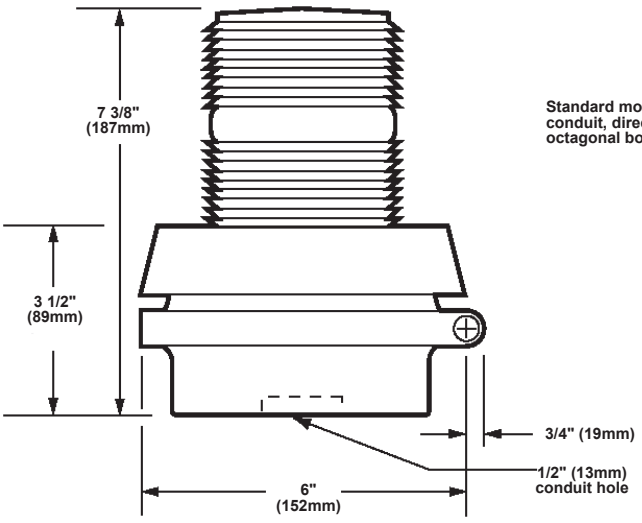
These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush / Duration)
51*-N5-40W	120V AC 60 Hz	0.025	0.350	2 A / 8 mSeconds
51*-G1	24V DC	0.025	1.1	3 A / 100 mSeconds

*Letter in this position designates lens color: A - amber, B - blue, C- clear, G - green, M - magenta or R- red

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
51*-G5-20W	1.72	2.06
51*-N5-40W	1.72	2.06
51*-E1	1.66	2.00
51*-G1	1.66	2.00



Standard mounting options are 1/2" (13mm) conduit, direct surface or 4" (102mm) octagonal box.

Beacons with Horn
Flashing Xenon
95 Series

Edwards 95 Series xenon strobe beacons with integrated horns are combination visual and audible signaling devices, suitable for use in indoor or outdoor applications. The base is cast and can function as a junction box. The double fresnel lens is made of shatter-resistant polycarbonate and optically engineered to maximize light distribution and viewing distance. Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

Features and Specifications

- Strobe light source with integrated horn
- Flash rate 65 fpm
- Shatter-resistant double fresnel polycarbonate lens
- High resistance to shock and vibration
- Cast base can function as a junction box
- Suitable for use in indoor and outdoor applications
- For outdoor applications, must be mounted on conduit with lens facing up.
- Horn is 95dB at 1 meter/85dB at 10ft.
- Option for panel, conduit or wall mounting
- Operating temperature range: -31ºF to 150ºF (-35ºC to 66ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Peak Candela	Lens Color	Replacement Lens	Replacement Strobe Tube
Strobe with Integrated Horn	**95A-N5**	120V AC	0.1 A	1,400,000	Amber	92-LA	92-LST 5,000 hour[2]
	95B-N5	120V AC	0.1 A	1,400,000	Blue	92-LB	
	95C-N5	120V AC	0.1 A	1,400,000	Clear	92-LC	
	95G-N5	120V AC	0.1 A	1,400,000	Green	92-LG	
	95M-N5	120V AC	0.1 A	1,400,000	Magenta	92-LM	
	95R-N5	120V AC	0.1 A	1,400,000	Red	92-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

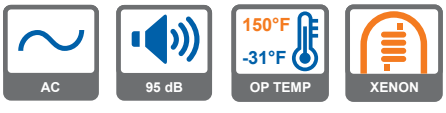
Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**
Lens Guard	**92-GRD**

CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

92-GRD
Lens Guard



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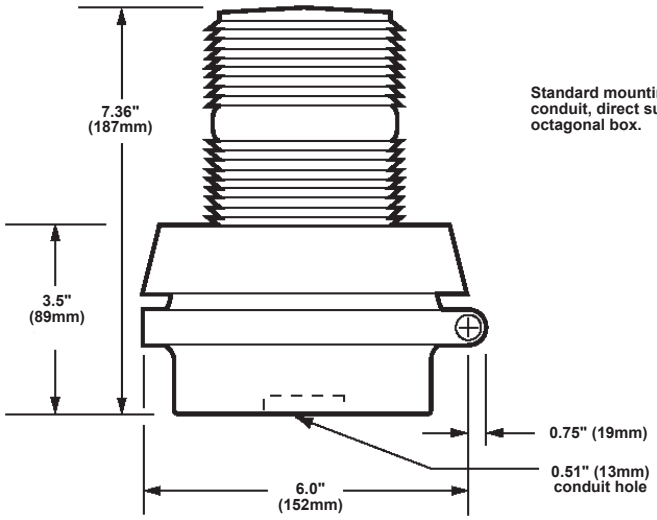
Beacons with Horn
Flashing Xenon
95 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
95*-N5	2.20	2.40

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green M - magenta or R - red



Standard mounting options are 1/2" (13mm) conduit, direct surface or 4" (102mm) octagonal box.

Beacons with Sounder
Multi-Status LED
108 Series

Edwards 108 Series Chameleon™ LED multi-status indicator is a UL listed and IP65 rated multicolor device designed to function as either a steady-on or flashing visual signal. The 108 Series contains three different colored LED signals in one housing, with the option to add an additional lens module and light source – Strobe, Halogen, Incandescent or LED – for a fourth signal. It features a corrosion resistant Type 3R or 4X enclosure, and can be panel or conduit mounted.

The 108 Series features a multi-tone base module with eight available tones that can be operated as an additional signal or used in conjunction with any of the visual signals.

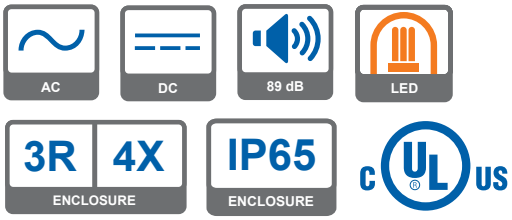
Features and Specifications

- 3 LED visual signals in one compact housing
- Option to add an additional module for a fourth light using one of the 102LM lens modules and the 102LS light sources
- 89dB at 1m / 79dB at 10ft
- Option to add multi-tone base module
- Suitable for indoor and outdoor applications
- NEMA Type 3R and Type 4X, IP65 rated Option for panel or conduit mounting

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	LED Colors
Pipe Mount (w/tone module)	**108I-RGA-N5**	120V AC	0.115 A[2]	Clear	Red, Green, Amber
	108I-RBA-N5	120V AC	0.115 A[2]	Clear	Red, Blue, Amber
	108I-RGA-G1	24V DC	0.105 A[2]	Clear	Red, Green, Amber
	108I-RBA-G1	24V DC	0.105 A[2]	Clear	Red, Blue, Amber
Pipe Mount - short base (Tone module not available)	**108IP-RGA-N5**	120V AC	0.045 A	Clear	Red, Green, Amber
	108IP-RBA-N5	120V AC	0.045 A	Clear	Red, Blue, Amber
	108IP-RGA-G1	24V DC	0.055 A	Clear	Red, Green, Amber
	108IP-RBA-G1	24V DC	0.055 A	Clear	Red, Blue, Amber
Direct Mount (Tone module not available)	**108ID-RGA-N5**	120V AC	0.045 A	Clear	Red, Green, Amber
	108ID-RBA-N5	120V AC	0.045 A	Clear	Red, Blue, Amber
	108ID-RGA-G1	24V DC	0.055 A	Clear	Red, Green, Amber
	108ID-RBA-G1	24V DC	0.055 A	Clear	Red, Blue, Amber

[1]AC voltage frequency is 50/60 Hz.
[2]Includes tone module.



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Beacons with Sounder
Multi-Status LED
108 Series

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens/LED Colors	Peak Candela	Lamp Ratings	Lamp Life Calculated[2]	Lamp Life Projected[3]	Replacement Lamp
Lens Module	**102LM-A**	—	—	Amber	—	—	—	—	—
	102LM-B	—	—	Blue	—	—	—	—	—
	102LM-C	—	—	Clear	—	—	—	—	—
	102LM-G	—	—	Green	—	—	—	—	—
	102LM-R	—	—	Red	—	—	—	—	—
	102LM-Y	—	—	Yellow	—	—	—	—	—
Steady-on Halogen	**102LS-SINH-N5**	120V AC	0.11 A	—	879	12 Watts	20,000 hr.	—	50LMP-12WH
	102LS-SINH-G1	24V DC	0.32 A	—	653	9 Watts	12,000 hr.	—	50LMP-9WH
Steady-on Incandescent	**102LS-SIN-N5**	120V AC	0.08 A	—	829	10 Watts	2,500 hr.	—	50LMP-10W
	102LS-SIN-G1	24V DC	0.32 A	—	829	10 Watts	10,000 hr.	—	Ind. Trade 303[5]
Flashing Halogen	**102LS-FINH-N5**	120V AC	0.11 A	—	879	12 Watts	20,000 hr.	25,000 hr.	50LMP-12WH
	102LS-FINH-G1	24V DC	0.32 A	—	653	9 Watts	12,000 hr.	15,000 hr.	50LMP-9WH
Flashing Incandescent	**102LS-FIN-N5**	120V AC	0.08 A	—	829	10 Watts	2,500 hr.	3,000 hr.	50LMP-10W
	102LS-FIN-G1	24V DC	0.32 A	—	829	10 Watts	10,000 hr.	12,500 hr.	Ind. Trade 303[5]
Strobe	**102LS-ST-N5**	120V AC	0.12 A	—	300,000	3 Joule	3,000 hr.[4]	—	—
	102LS-ST-G1	24V DC	0.30 A	—	300,000	3 Joule	3,000 hr.[4]	—	—
Steady-on LED	**102LS-SLEDA-N5[1]** **102LS-SLEDA-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Amber	—	—	120,000 hr.	—	—
	102LS-SLEDB-N5[1] **102LS-SLEDB-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Blue	—	—	120,000 hr.	—	—
	102LS-SLEDG-N5[1] **102LS-SLEDG-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Green	—	—	120,000 hr.	—	—
	102LS-SLEDR-N5[1] **102LS-SLEDR-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Red	—	—	120,000 hr.	—	—
	102LS-SLEDW-N5[1] **102LS-SLEDW-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Clear/ White	—	—	120,000 hr.	—	—
Flashing LED	**102LS-FLEDA-N5[1]** **102LS-FLEDA-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Amber	—	—	120,000 hr.	—	—
	102LS-FLEDB-N5[1] **102LS-FLEDB-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Blue	—	—	120,000 hr.	—	—
	102LS-FLEDG-N5[1] **102LS-FLEDG-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Green	—	—	120,000 hr.	—	—
	102LS-FLEDR-N5[1] **102LS-FLEDR-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Red	—	—	120,000 hr.	—	—
	102LS-FLEDW-N5[1] **102LS-FLEDW-G1[1]**	120V AC 24V DC	0.022 A 0.062 A	Clear/ White	—	—	120,000 hr.	—	—

[1]NOTE: LED light sources must be used with the corresponding color lens module (e.g., a blue LED light source, 102LS-SLEDB-G1, must be used with a blue lens, 102LM-B).
[2]At nominal operating voltage.
[3]Projected lamp life based on manufacturer's calc. lamp life @ 65 fpm and 50% duty cycle.
[4]Strobe tube life @ operating power to 75% efficiency.
[5]User supplied

Accessories

Description		Cat. No.
Pipe Mount Flange		**102PMF**
Pipe Extensions (for use with Pipe Mount Flange)	4"	**102MP-4**
	10"	**102MP-10**
	15"	**102MP-15**

Beacons with Sounder
Multi-Status LED
108 Series

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush / Duration)
108I-*-G1	24V DC	0.005	0.105	5 A / 1 millisecond
108I-*-N5	120V AC	0.005	0.115	30 A / 0.002 millisecond
108IP-*-G1	24V DC	0.005	0.055	5 A / 1 millisecond
108IP-*-N5	120V AC	0.005	0.045	13 A / 0.002 millisecond
108ID-*-G1	24V DC	0.005	0.055	5 A / 1 millisecond
108ID-*-N5	120V AC	0.005	0.045	13 A / 0.002 millisecond

*Letter in this position designates the colors of the LED clusters: RGA - red, green and amber or RBA - red, blue and amber

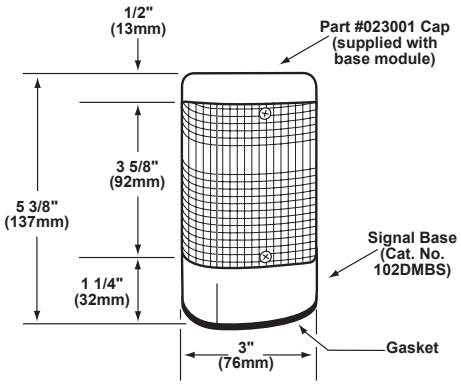
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
108I-RBA-G1	0.89	1.05
108I-RBA-N5	0.89	1.05
108I-RGA-G1	0.89	1.05
108I-RGA-N5	0.89	1.05
108IP-RBA-G1	0.89	1.05
108IP-RBA-N5	0.89	1.05
108IP-RGA-G1	0.89	1.05
108IP-RGA-N5	0.89	1.05
108ID-RGA-N5	0.69	0.88
108ID-RBA-N5	0.69	0.88
108ID-RGA-G1	0.69	0.88
108ID-RBA-G1	0.69	0.88
102LM-*	0.33	0.43
102LS-FIN-G1	0.70	0.80
102LS-FINH-G1	0.70	0.80
102LS-FINH-N5	0.70	0.80
102LS-FIN-N5	0.70	0.80
102LS-FLED*-G1	0.70	0.80
102LS-FLED*-N5	0.70	0.80
102LS-SIN-G1	0.70	0.80

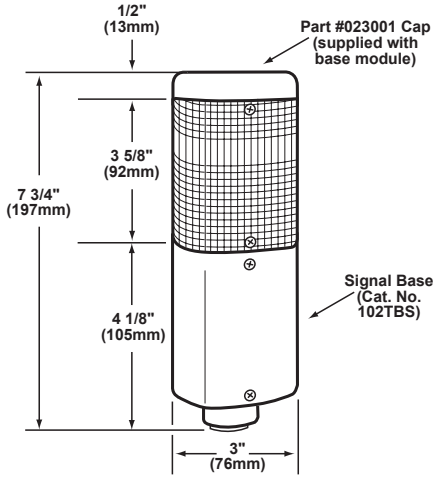
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
102LS-SINH-G1	0.70	0.80
102LS-SINH-N5	0.70	0.80
102LS-SIN-N5	0.70	0.80
102LS-SLED*-G1	0.70	0.80
102LS-SLED*-N5	0.70	0.80
102LS-ST-G1	0.70	0.80
102LS-ST-N5	0.70	0.80
102MP-10	0.83	0.83
102MP-15	1.14	1.14
102MP-4	0.31	0.31
102PMF	0.58	0.68
102SIN-RBA-G1	1.44	1.61
102SIN-RBA-N5	1.44	1.61
102SIN-RGA-G1	1.44	1.61
102SIN-RGA-N5	1.44	1.61

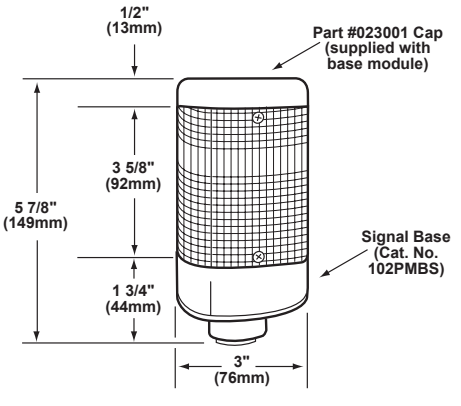
*Letter in this position designates lens/LED color: A - amber, B - blue, G - green, R - red, or W - clear/white



Cat. No. 108ID Series



Cat. No. 108I Series



Cat. No. 108IP Series

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons with Sounder
Multi-Mode LED
155 Class

NEW
Coming Soon

The 155 Class LED sounder is a combination audible and visual signal providing two levels of sensory notification. It features a steady or flashing LED light and a 32-tone audible signal that is divided into two channels. Both features are field programmable. The volume and progression of the sound is programmed by the use of trimmers located under the removable lens. The lenses are made from a self-extinguishing polycarbonate material, and are offered in amber, blue, green, red, yellow and clear. It is housed in an IP65 rated Type 3R enclosure.

Features and Specifications

- Multi-Mode (flashing or steady-on)
- LED light source
- 32 audible tones
- Field programmable
- Flash rate 110 fpm (+/-10)
- NEMA Type 3R enclosure
- IP65 rated
- Operating temperature range: -22ºF to 122ºF (-30ºC to 50ºC)

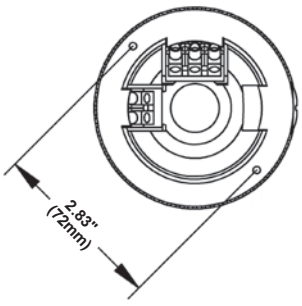
Ordering Information

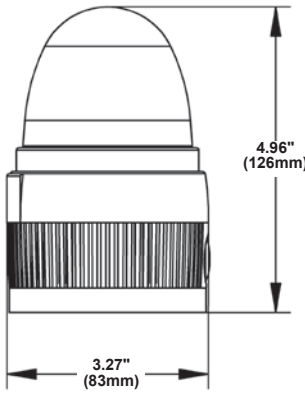
Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	dB at 1m (10 ft.)
155 Class LED Sounder Beacons	155LEDMA1224AD	12V AC/DC	0.615/0.300 A	Amber	97/94.5 (87/84.5)
		24V AC/DC	0.545/0.225 A	Amber	98.5/96 (88.5/86)
	155LEDMB1224AD	12V AC/DC	0.615/0.300 A	Blue	97/94.5 (87/84.5)
		24V AC/DC	0.545/0.225 A	Blue	98.5/96 (88.5/86)
	155LEDMG1224AD	12V AC/DC	0.615/0.300 A	Green	97/94.5 (87/84.5)
		24V AC/DC	0.545/0.225 A	Green	98.5/96 (88.5/86)
	155LEDMR1224AD	12V AC/DC	0.615/0.300 A	Red	97/94.5 (87/84.5)
		24V AC/DC	0.545/0.225 A	Red	98.5/96 (88.5/86)
	155LEDMW1224AD	12V AC/DC	0.615/0.300 A	Clear	97/94.5 (87/84.5)
		24V AC/DC	0.545/0.225 A	Clear	98.5/96 (88.5/86)
	155LEDMY1224AD	12V AC/DC	0.615/0.300 A	Yellow	97/94.5 (87/84.5)
		24V AC/DC	0.545/0.225 A	Yellow	98.5/96 (88.5/86)

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
155LEDMA1224AD	0.70
155LEDMB1224AD	0.70
155LEDMG1224AD	0.70
155LEDMR1224AD	0.70
155LEDMW1224AD	0.70
155LEDMY1224AD	0.70





AC/DC | 94.5-98.5 dB | 122°F -22°F OP TEMP | LED

3R ENCLOSURE | IP65 ENCLOSURE | UL | c UL us

Horn/Strobe
Electronic
860 Series

Edwards 860 Series xenon strobe beacons with horns are bright, low current, high decibel, combination signals designed for use where a distinctive visual or audible signal is required. The housing is made of gray, engineered thermo-plastic. The strobe and horn can be operated independently.

The 867STR (indoor) and 868STR (outdoor) Series can be surface mounted on the supplied surface box. The 869STR and 869DSTR Series beacons can be flush mounted. They are designed to mount in a standard 4" (102mm) square electrical box with extension ring (total min. depth of 3" (76mm) not supplied.)

The 869DSTR Series is Diode Polarized for use in electrically supervised circuits.

Features and Specifications

- Xenon strobe light source with horn
- Flash rate 60 fpm
- 100dB at 1 meter/90dB at 10ft. (measured in anechoic chamber)
- Low current draw
- Terminals for easy wiring
- Gray, engineered thermoplastic housing
- Diode Polarized for use in electrically supervised circuits (869DSTR)
- Versions suitable for indoor and outdoor applications
- Operating indoor temperature range: 85% relative humidity at 86°F (30°C), 32°F to 120°F (0 to 49°C) variable ambient temperature.
- Operating outdoor temperature range: 95% relative humidity at 86°F (30°C), -31°F to 150°F (-35°C to 66°C) variable ambient temperature.

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Strobe Current[2]	Horn Current[2]	Lens Color	Effective Light Output UL 1638	Operating Environment
AC - Indoor Rated Surface Mount	**867STRA-N5**	120V AC	0.115 A (RMS)	0.033 A	Amber	90 cd	Indoor: 85% relative humidity at 86°F (30°C); 32°F to 120°F (0° to 49°C) variable ambient
	867STRB-N5	120V AC		0.033 A	Blue	20 cd	
	867STRC-N5	120V AC		0.033 A	Clear	150 cd	
	867STRG-N5	120V AC		0.033 A	Green	70 cd	
	867STRR-N5	120V AC		0.033 A	Red	21 cd	
AC/DC - Indoor Rated Surface Mount	**867STRA-AQ**	24V AC	0.370 A	0.072 A	Amber	90 cd	Indoor: 85% relative humidity at 86°F (30°C); 32°F to 120°F (0° to 49°C) variable ambient
		24V DC	0.390 A	0.022 A			
	867STRB-AQ	24V AC	0.370 A	0.072 A	Blue	20 cd	
		24V DC	0.390 A	0.022 A			
	867STRC-AQ	24V AC	0.370 A	0.072 A	Clear	150 cd	
		24V DC	0.390 A	0.022 A			
	867STRG-AQ	24V AC	0.370 A	0.072 A	Green	70 cd	
		24V DC	0.390 A	0.022 A			
	867STRR-AQ	24V AC	0.370 A	0.072 A	Red	21 cd	
		24V DC	0.390 A	0.022 A			

[1]Operating voltage: -20% to +10% of nominal voltage.
[2]Horn and strobe currents are additive when connected in parallel.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Horn/Strobe
Electronic
860 Series

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Strobe Current[2]	Horn Current[2]	Lens Color	Effective Light Output UL 1638	Operating Environment
AC - Outdoor Rated Surface Mount	**868STRA-N5**	120V AC	0.115 A	0.033 A	Amber	90 cd	Indoor: 85% relative humidity at 86°F (30°C); 32°F to 120°F (0° to 49°C) variable ambient Outdoor: 95% relative humidity at 86°F (30°C) -31°F to 150°F (-35°C to 66°C) variable ambient
	868STRB-N5	120V AC	0.115 A	0.033 A	Blue	20 cd	
	868STRC-N5	120V AC	0.115 A	0.033 A	Clear	150 cd	
	868STRG-N5	120V AC	0.115 A	0.033 A	Green	70 cd	
	868STRR-N5	120V AC	0.115 A	0.033 A	Red	21 cd	
AC/DC - Outdoor Rated Surface Mount	**868STRA-AQ**	24V AC	0.370 A	0.072 A	Amber	90 cd	
		24V DC	0.390 A	0.022 A			
	868STRB-AQ	24V AC	0.370 A	0.072 A	Blue	20 cd	
		24V DC	0.390 A	0.022 A			
	868STRC-AQ	24V AC	0.370 A	0.072 A	Clear	150 cd	
		24V DC	0.390 A	0.022 A			
	868STRG-AQ	24V AC	0.370 A	0.072 A	Green	70 cd	
		24V DC	0.390 A	0.022 A			
	868STRR-AQ	24V AC	0.370 A	0.072 A	Red	21 cd	
		24V DC	0.390 A	0.022 A			
AC - Indoor Rated Flush Mount	**869STRA-N5**	120V AC	0.115 A	0.033 A	Amber	90 cd	Indoor: 85% relative humidity at 86°F (30°C); 32°F to 120°F (0° to 49°C) variable ambient
	869STRB-N5	120V AC	0.115 A	0.033 A	Blue	20 cd	
	869STRC-N5	120V AC	0.115 A	0.033 A	Clear	150 cd	
	869STRG-N5	120V AC	0.115 A	0.033 A	Green	70 cd	
	869STRR-N5	120V AC	0.115 A	0.033 A	Red	21 cd	
AC/DC - Indoor Rated Flush Mount	**869STRA-AQ**	24V AC	0.370 A	0.072 A	Amber	90 cd	
		24V DC	0.390 A	0.022 A			
	869STRB-AQ	24V AC	0.370 A	0.072 A	Blue	20 cd	
		24V DC	0.390 A	0.022 A			
	869STRC-AQ	24V AC	0.370 A	0.072 A	Clear	150 cd	
		24V DC	0.390 A	0.022 A			
	869STRG-AQ	24V AC	0.370 A	0.072 A	Green	70 cd	
		24V DC	0.390 A	0.022 A			
	869STRR-AQ	24V AC	0.370 A	0.072 A	Red	21 cd	
		24V DC	0.390 A	0.022 A			
DC - Diode Polarized Indoor Rated Surface Mount	**869DSTRA-G1**	24V DC	0.320 A	0.048 A	Amber	90 cd	Indoor: 85% relative humidity at 86°F (30°C); 32°F to 120°F (0° to 49°C) variable ambient
	869DSTRB-G1	24V DC	0.320 A	0.048 A	Blue	20 cd	
	869DSTRC-G1	24V DC	0.320 A	0.048 A	Clear	150 cd	
	869DSTRG-G1	24V DC	0.320 A	0.048 A	Green	70 cd	
	869DSTRR-G1	24V DC	0.320 A	0.048 A	Red	21 cd	

[1]Operating voltage: -20% to +10% of nominal voltage.
[2]Horn and strobe currents are additive when connected in parallel.

Horn/Strobe
Electronic
860 Series

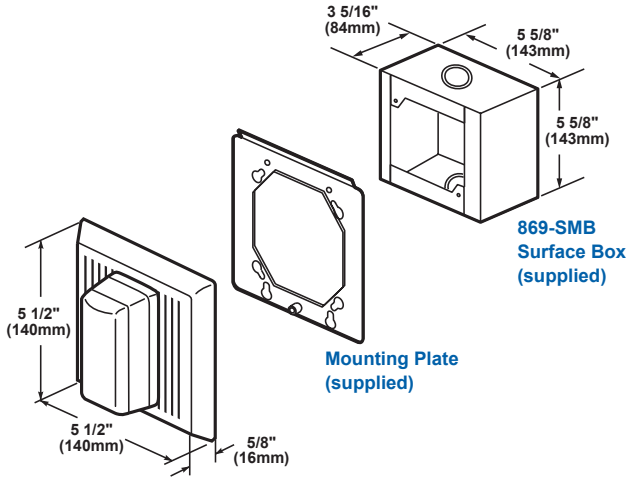
Accessories

Description	Cat. No.
Surface Mount Box, Outdoor Applications	**869-WPB**

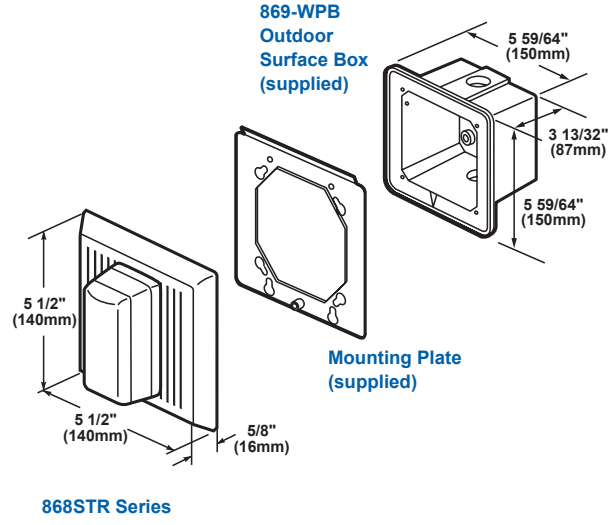
Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
867STR*-N5	3.90
867STR*-AQ	3.90
868STR*-N5	3.60
868STR*-AQ	3.60
869STR*-N5	1.40
869STR*-AQ	1.40
869DSTR*-G1	1.40
869-WPB	2.10

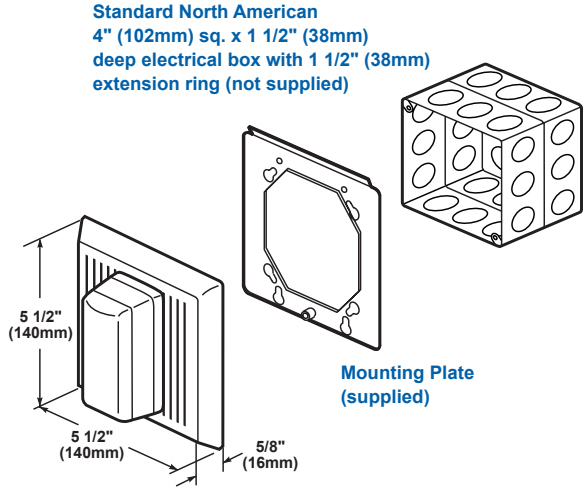
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green or R - red



867STR Series



868STR Series



869STR and
869DSTR Series

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Klaxon Sounder Beacons
Electronic Tone
Sonos Series

R A

A general purpose electronic sounder for fire, security and industrial applications; the Sonos sounder beacon is certified to EN54.

The sounder head 'twists and clicks' into the base on commissioning, avoiding the wiring and connection problems associated with traditional sounders. With a choice of 32 tones including all the major international standards, the Sonos sounder beacon has universal acceptance.

Features and Specifications

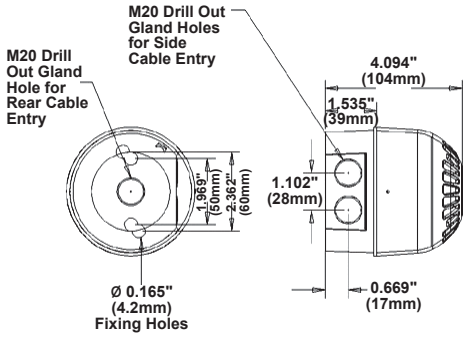
- Low current LED beacon
- Flame retardent polycarbonate construction
- Choice of lens colors
- 32 tones
- Sounder and beacon can be controlled separately
- Tone and volume can be preset or adjusted off-base - 20dB
- Separate connections for sounder and beacon
- EN54-3 Type A (shallow base) and EN54-3 Type B (deep base) compliance
- IP65 (deep base); IP21 (shallow base)
- Operating temperature range: -8ºF to 158ºF (-25ºC to 70ºC)

Ordering Information

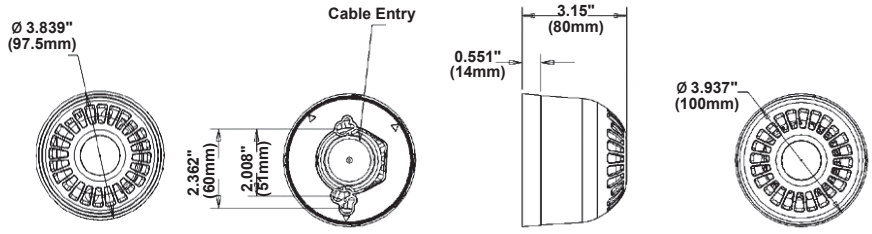
Description	Edwards Cat. No.	Klaxon Cat. No.	Voltage	Sounder Current	Beacon Current	Lens Color	dB at 1m/10ft.
Shallow Base	**18-980500**	**PSC-0002**	17-60V DC	0.004-0.045 A	0.005 A	Red	Up to 106/96
	18-980503	**PSC-0025**	17-60V DC	0.004-0.045 A	0.005 A	Amber	Up to 106/96
Deep Base	**18-980501**	**PSC-0013**	17-60V DC	0.004-0.045 A	0.005 A	Red	Up to 106/96
	18-980504	**PSC-0027**	17-60V DC	0.004-0.045 A	0.005 A	Amber	Up to 106/96

Weights and Dimensions

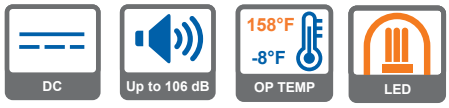
Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
18-980500	**PSC-0002**	0.49
18-980503	**PSC-0025**	0.49
18-980501	**PSC-0013**	0.55
18-980504	**PSC-0027**	0.55



Deep Base



Shallow Base



Deep Base Shallow Base

Klaxon Sounder Beacons
Electronic Tone
Syrex Series

The Syrex IS sounder/beacon is an intrinsically safe alarm which provides an audible and visual warning signal in hazardous area applications.

With three alarm stages and a low current consumption, the Syrex IS sounder/beacon is ideal for both fire and process control applications.

The Syrex IS sounder/beacon must be used with a galvanic isolator specified by the system certificates.

Features and Specifications

- LED light source
- Choice of 49 tones
- Choice of lens colors
- Flash rate 2Hz or 1Hz (double flash)
- Auto synchronized sound output
- ABS flame retardant UL94V0 and 5VA housing
- Volume control
- IP65 rated
- Rated for Category 1
- Ⓔx II 1G EEx ia IIC T4
- Operating temperature range: -40ºF to 140ºF (-40ºC to 60ºC)

Ordering Information

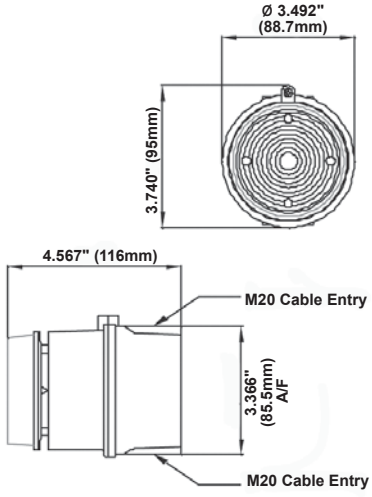
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current (Tone dependent)	Lens Color	dB at 1m/10ft. (Tone dependent)
IS-SB Sounder Beacon	**17-970341**	**TCA-0037**	6-28V DC	0.048 A	Amber	Up to 100/90
	17-970342	**TCA-0038**	6-28V DC	0.048 A	Blue	Up to 100/90
	17-970343	**TCA-0039**	6-28V DC	0.048 A	Green	Up to 100/90
	17-970330	**TCA-0029**	6-28V DC	0.048 A	Red	Up to 100/90

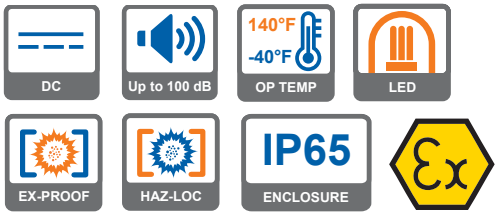
Accessories

Description	Edwards Cat. No.	Klaxon Cat. No.
Single Channel Galvanic Isolator	**17-970362**	**TCA-0042**
Dual Channel Galvanic Isolator	**17-970395**	**TCA-0066**
IS DIN Rail Enclosure, accepts two isolators	**17-970392**	**TCA-0065**

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
17-970341	**TCA-0037**	0.77
17-970342	**TCA-0038**	0.77
17-970343	**TCA-0039**	0.77
17-970330	**TCA-0029**	0.77





Klaxon Sounder Beacons
Electronic Tone
Nexus Series

The Nexus 120 is a very high output sounder beacon designed for industrial applications.

Nexus 120 sounders are IP66 rated, making them suitable for outdoor applications.

Features and Specifications

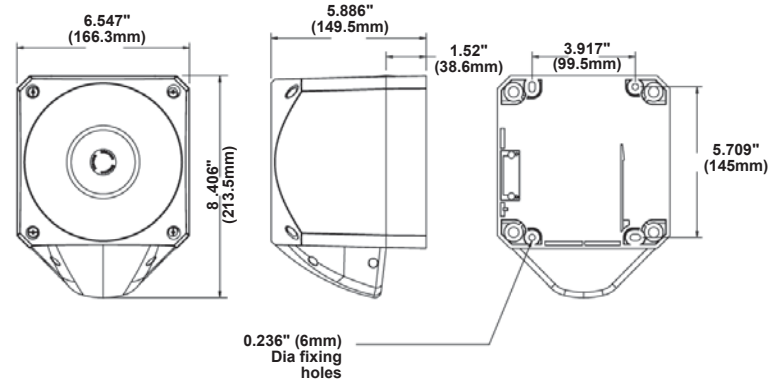
- 5J Xenon beacon
- Three alarm stages
- Quarter turn fasteners for ease of installation
- 120dB at 1 meter/110dB at 10ft.
- Volume control for greater flexibility - 20dB
- 64 tones
- Separate connections for sounder and beacon
- IP66 rated
- Operating temperature range: -13ºF to 151ºF (-25ºC to 55ºC)

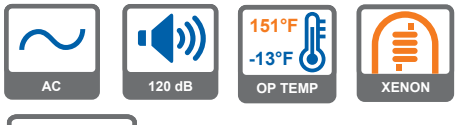
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Sounder Amps	Beacon Amps	Lens Color	dB at 1m/10ft.
AC Sounder with Xenon Beacon	**18-980552**	**PNC-0009**	110-230V	0.200 A	0.070 A	Red	Up to 120/110
	18-980553	**PNC-0011**	110-230V	0.200 A	0.070 A	Amber	Up to 120/110
	18-980592	**PNC-0023**	110-230V	0.200 A	0.070 A	Clear	Up to 120/110
	18-980670	**PNC-0058**	110-230V	0.200 A	0.070 A	Blue	Up to 120/110
	18-980668	**PNC-0056**	110-230V	0.200 A	0.070 A	Green	Up to 120/110

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
18-980552	**PNC-0009**	4.40
18-980553	**PNC-0011**	4.40
18-980592	**PNC-0023**	4.40
18-980670	**PNC-0058**	4.40
18-980668	**PNC-0056**	4.40





Klaxon Sounder Beacons
Electronic Tone
Nexus Series

The Nexus 120 is a very high output sounder beacon designed for industrial applications.

Nexus 120 Sounders are IP66 rated, making them suitable for outdoor applications. The Nexus Sounder Beacon is available with a high efficiency LED or Xenon beacon.

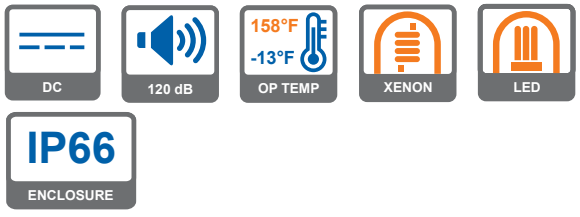
Features and Specifications

- 5J Xenon or high efficiency LED
- Three alarm stages
- Quarter turn fasteners for ease of installation
- 120dB at 1 meter/110dB at 10 ft.
- Volume control for greater flexibility - 20dB
- Low in-rush current (LED only)
- Static/flashing mode (LED only)
- 64 tones
- Separate connections for sounder and beacon
- EN54-3 Type B compliant
- IP66 rated
- Operating temperature range: -13ºF to 158ºF (-25ºC to 70ºC)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Sounder Amps	Beacon Amps	Lens Color	dB at 1m/10ft.
DC Sounder with Xenon Beacon	**18-980546**	**PNC-0003**	10-60V DC	0.120-0.550 A	0.330 @ 24V DC	Red	Up to 120/110
	18-980547	**PNC-0004**	10-60V DC	0.120-0.550 A	0.330 @ 24V DC	Amber	Up to 120/110
	18-980591	**PNC-0022**	10-60V DC	0.120-0.550 A	0.330 @ 24V DC	Clear	Up to 120/110
	18-980669	**PNC-0057**	10-60V DC	0.120-0.550 A	0.330 @ 24V DC	Blue	Up to 120/110
	18-980667	**PNC-0055**	10-60V DC	0.120-0.550 A	0.330 @ 24V DC	Green	Up to 120/110
DC Sounder with LED Beacon	**18-980635**	**PNC-0035**	10-60V DC	0.120-0.550 A	0.018/0.065 A[1]	Red	Up to 120/110
	18-980636	**PNC-0039**	10-60V DC	0.120-0.550 A	0.018/0.065 A[1]	Amber	Up to 120/110
	18-980671	**PNC-0059**	10-60V DC	0.120-0.550 A	0.018/0.065 A[1]	Clear	Up to 120/110
	18-980673	**PNC-0061**	10-60V DC	0.120-0.550 A	0.018/0.065 A[1]	Blue	Up to 120/110
	18-980672	**PNC-0060**	10-60V DC	0.120-0.550 A	0.018/0.065 A[1]	Green	Up to 120/110

[1]Flashing/Static current consumption figures.



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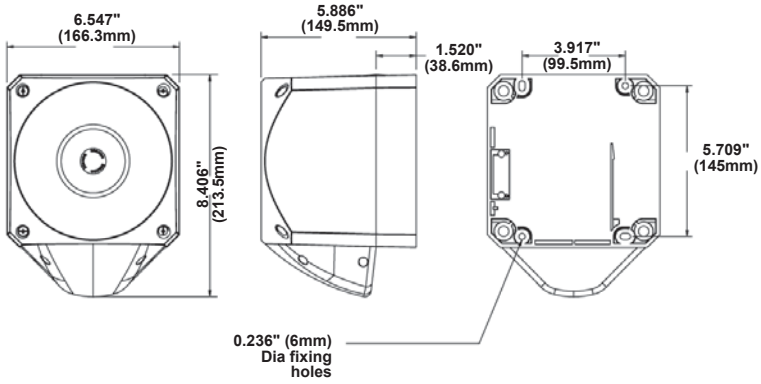
Klaxon Sounder Beacons
Electronic Tone
Nexus Series

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
18-980546	PNC-0003	4.40
18-980547	PNC-0004	4.40
18-980591	PNC-0022	4.40
18-980669	PNC-0057	4.40
18-980667	PNC-0055	4.40
18-980635	PNC-0035	4.40
18-980636	PNC-0039	4.40
18-980671	PNC-0059	4.40
18-980678	PNC-0061	4.40
18-980672	PNC-0060	4.40



Klaxon Sounder Beacons
Electronic Tone
Nexus Series

The Nexus 110 is a very high output sounder beacon designed for industrial applications.

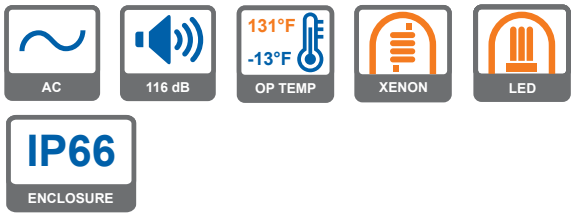
Nexus 110 Sounders are IP66 rated, making them suitable for outdoor applications. The Nexus Sounder Beacon is available with a high efficiency LED or Xenon beacon.

Features and Specifications

- 5J Xenon or high efficiency LED
- Low voltage AC variant
- Three alarm stages
- Quarter turn fasteners for ease of installation
- 116dB at 1 meter/106dB at 10ft. (max); 110dB at 1 meter/100dB at 10ft. (typical)
- Volume control for greater flexibility - 20dB
- 64 tones
- Separate connections for sounder and beacon
- IP66 rated
- Operating temperature range: -13ºF to 131ºF (-25ºC to 55ºC)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Sounder Amps	Beacon Amps	Lens Color	dB at 1m/10ft.
AC Sounder with LED Beacon	**18-980674**	**PNC-0062**	24-48V AC	0.030-0.100 A	–	Red	116/106
	18-980675	**PNC-0063**	24-48V AC	0.030-0.100 A	–	Amber	116/106
AC Sounder with Xenon Beacon	**18-980558**	**PNC-0016**	110-230V AC	0.040 A (max)	0.070 A	Red	116/106
	18-980559	**PNC-0018**	110-230V AC	0.040 A (max)	0.070 A	Amber	116/106
	18-980590	**PNC-0072**	110-230V AC	0.040 A (max)	0.070 A	Clear	116/106
	18-980663	**PNC-0051**	110-230V AC	0.040 A (max)	0.070 A	Blue	116/106
	18-980661	**PNC-0049**	110-230V AC	0.040 A (max)	0.070 A	Green	116/106



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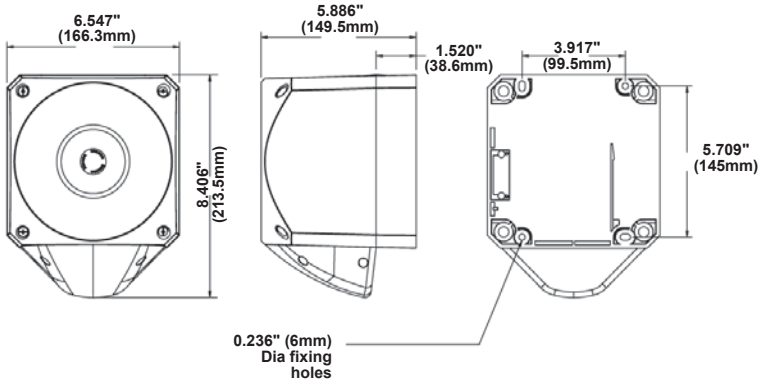
Klaxon Sounder Beacons
Electronic Tone
Nexus Series

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
18-980674	PNC-0062	2.60
18-980675	PNC-0063	2.60
18-980558	PNC-0016	2.60
18-980559	PNC-0018	2.60
18-980590	PNC-0072	2.60
18-980663	PNC-0051	2.60
18-980661	PNC-0049	2.60



Klaxon Sounder Beacons
Electronic Tone
Nexus Series

The Nexus 110 is a high output, low current consumption sounder beacon designed for fire and industrial applications.

Nexus 110 sounders are IP66 rated, making them suitable for outdoor applications. The Nexus sounder beacon is available with either a high efficiency LED or Xenon beacon.

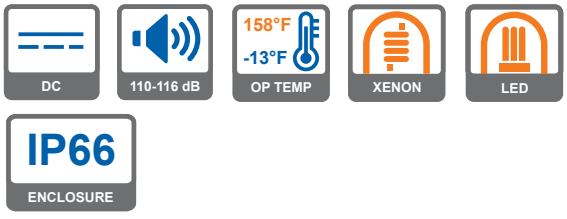
Features and Specifications

- 5J Xenon or high efficiency LED
- Three alarm stages
- Quarter turn fasteners for ease of installation
- Low in-rush current (LED only)
- Static/flashing mode (LED only)
- 116dB at 1 meter/106dB at 10ft. (max); 110dB at 1 meter/100dB at 10ft. (typical)
- Volume control for greater flexibility - 20dB
- 64 tones
- Separate connections for sounder and beacon
- IP66 rated
- EN54-3 Type B compliant
- Operating temperature range: -13ºF to 158ºF (-25ºC to 70ºC)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Sounder Amps	Beacon Amps	Lens Color	dB at 1m/10ft.
DC Sounder with Xenon Beacon	**18-980555**	**PNC-0013**	10-60V DC	0.010-0.050 A	0.033 @ 24V DC	Red	Up to 116/106
	18-980556	**PNC-0015**	10-60V DC	0.010-0.050 A	0.033 @ 24V DC	Amber	Up to 116/106
	18-980589	**PNC-0021**	10-60V DC	0.010-0.050 A	0.033 @ 24V DC	Clear	Up to 116/106
	18-980662	**PNC-0050**	10-60V DC	0.010-0.050 A	0.033 @ 24V DC	Blue	Up to 116/106
	18-980660	**PNC-0048**	10-60V DC	0.010-0.050 A	0.033 @ 24V DC	Green	Up to 116/106
DC Sounder with LED Beacon	**18-980622**	**PNC-0029**	10-60V DC	0.010-0.050 A	0.018/0.065 A[1]	Red	Up to 116/106
	18-980623	**PNC-0034**	10-60V DC	0.010-0.050 A	0.018/0.065 A[1]	Amber	Up to 116/106
	18-980664	**PNC-0052**	10-60V DC	0.010-0.050 A	0.018/0.065 A[1]	Clear	Up to 116/106
	18-980666	**PNC-0054**	10-60V DC	0.010-0.050 A	0.018/0.065 A[1]	Blue	Up to 116/106
	18-980665	**PNC-0053**	10-60V DC	0.010-0.050 A	0.018/0.065 A[1]	Green	Up to 116/106

[1]Flashing/Static current consumption figures.



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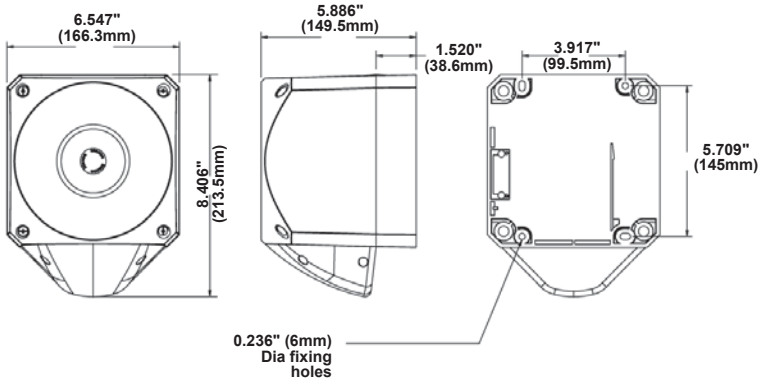
Klaxon Sounder Beacons
Electronic Tone
Nexus Series

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
18-980555	PNC-0013	2.60
18-980556	PNC-0015	2.60
18-980589	PNC-0021	2.60
18-980662	PNC-0050	2.60
18-980660	PNC-0048	2.60
18-980622	PNC-0029	2.60
18-980623	PNC-0034	2.60
18-980664	PNC-0052	2.60
18-980666	PNC-0054	2.60
18-980665	PNC-0053	2.60



Klaxon Sounder Beacons
Electronic Tone
Nexus Series

The Nexus 105 is a high output sounder beacon designed for industrial applications.

Nexus 105 sounders are IP66 rated, making them suitable for outdoor applications. The Nexus sounder beacon is available with a high output Xenon beacon.

Features and Specifications

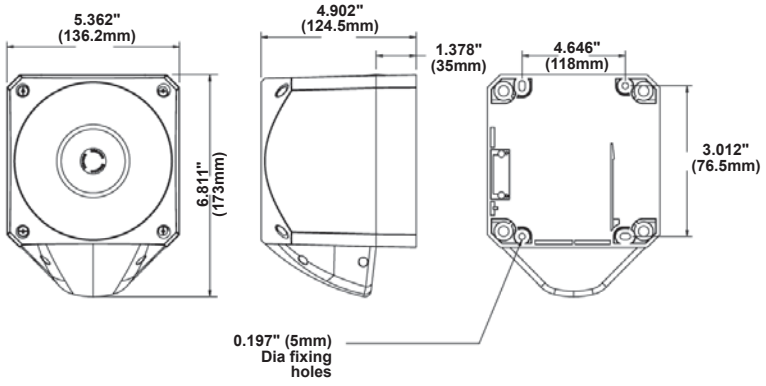
- 5J Xenon beacon
- Quarter turn fasteners for ease of installation
- 113dB at 1 meter/103dB at 10ft. (max); 105dB at 1 meter/95dB at 10ft. (typical)
- Volume control for greater flexibility - 20dB
- 64 tones
- Separate connections for sounder and beacon
- IP66 rated
- Operating temperature range: -13ºF to 131ºF (-25ºC to 55ºC)

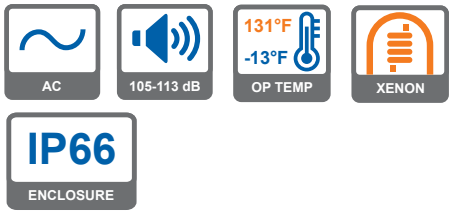
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Sounder Amps	Beacon Amps	Lens Color	dB at 1m/10ft.
AC Sounder with Xenon Beacon	**18-980549**	**PNC-0005**	110/230V AC	0.040 A (max)	0.070 A	Red	Up to 113/103
	18-980550	**PNC-0007**	110/230V AC	0.040 A (max)	0.070 A	Amber	Up to 113/103
	18-980573	**PNC-0019**	110/230V AC	0.040 A (max)	0.070 A	Clear	Up to 113/103
	18-980656	**PNC-0044**	110/230V AC	0.040 A (max)	0.070 A	Blue	Up to 113/103
	18-980654	**PNC-0042**	110/230V AC	0.040 A (max)	0.070 A	Green	Up to 113/103

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
18-980549	**PNC-0005**	1.80
18-980550	**PNC-0007**	1.80
18-980573	**PNC-0019**	1.80
18-980656	**PNC-0044**	1.80
18-980654	**PNC-0042**	1.80





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Klaxon Sounder Beacons
Electronic Tone
Nexus Series

The Nexus 105 is a high output, low current consumption sounder beacon designed for fire and industrial applications.

Nexus 105 sounders are IP66 rated, making them suitable for outdoor applications. The Nexus sounder beacon is available with either a high efficiency LED or high output Xenon beacon.

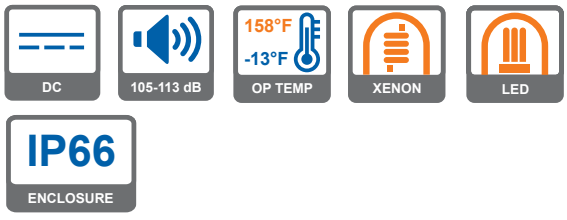
Features and Specifications

- 5J Xenon or high efficiency LED
- Three alarm stages
- Quarter turn fasteners for ease of installation
- Low in-rush current (LED only)
- Static/flashing mode (LED only)
- 113dB at 1 meter/103dB at 10ft. (max); 105dB at 1 meter/95dB at 10ft. (typical)
- Volume control for greater flexibility - 20dB
- 64 tones
- Separate connections for sounder and beacon
- IP66 rated
- EN54-3 Type B compliant
- Operating temperature range: -13ºF to 158ºF (-25ºC to 70ºC)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Sounder Amps	Beacon Amps	Lens Color	dB at 1m/10ft.
DC Sounder with Xenon Beacon	**18-980543**	**PNC-0001**	10-60V DC	0.008-0.040 A	0.330 A @ 24V DC	Red	Up to 113/103
	18-980544	**PNC-0002**	10-60V DC	0.008-0.040 A	0.330 A @ 24V DC	Amber	Up to 113/103
	18-980588	**PNC-0020**	10-60V DC	0.008-0.040 A	0.330 A @ 24V DC	Clear	Up to 113/103
	18-980655	**PNC-0043**	10-60V DC	0.008-0.040 A	0.330 A @ 24V DC	Blue	Up to 113/103
	18-980653	**PNC-0041**	10-60V DC	0.008-0.040 A	0.330 A @ 24V DC	Green	Up to 113/103
DC Sounder with LED Beacon	**18-980620**	**PNC-0024**	10-60V DC	0.008-0.040 A	0.018 A/0.065 A[1]	Red	Up to 113/103
	18-980621	**PNC-0028**	10-60V DC	0.008-0.040 A	0.018 A/0.065 A[1]	Amber	Up to 113/103
	18-980657	**PNC-0045**	10-60V DC	0.008-0.040 A	0.018 A/0.065 A[1]	Clear	Up to 113/103
	18-980659	**PNC-0047**	10-60V DC	0.008-0.040 A	0.018 A/0.065 A[1]	Blue	Up to 113/103
	18-980658	**PNC-0046**	10-60V DC	0.008-0.040 A	0.018 A/0.065 A[1]	Green	Up to 113/103

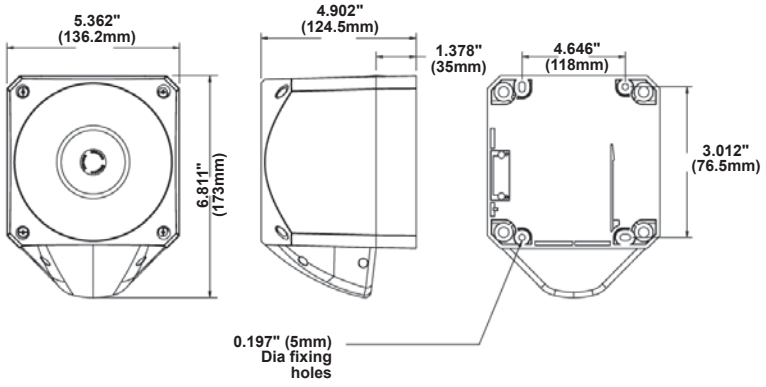
[1]Flashing/Static current consumption figures.



Klaxon Sounder Beacons
Electronic Tone
Nexus Series

Weights and Dimensions

Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
18-980543	PNC-0001	1.80
18-980544	PNC-0002	1.80
18-980588	PNC-0020	1.80
18-980655	PNC-0043	1.80
18-980653	PNC-0041	1.80
18-980620	PNC-0024	1.80
18-980621	PNC-0028	1.80
18-980657	PNC-0045	1.80
18-980659	PNC-0047	1.80
18-980658	PNC-0046	1.80



Built to Last

"You know that old saying, 'Things are just not made the way they used to be'?

While that may be true for some companies, Edwards still builds solid, beefy products that perform where others might not.

Like Edwards' Titan™ Class explosionproof remote speaker/amps – they're tough, durable and smart.

And I'm not someone who would settle for anything less."

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Product Index

From the crisp sound of a vibrating bell in the classroom, to the high decibel tone of the explosionproof horn in a hazardous location, Edwards' audible signals produce sounds designed to alert, warn, communicate and protect. Edwards' horns, bells, buzzers and sirens are the smart choice for safety and communication.

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Bells
Vibrating
340 and 435 Series

Edwards 340 Series and 435 Series are vibrating bells that produce a long, continuous ringing sound. The striker continues to strike the gong in rapid-fire as long as current is applied. Specified for timing, scheduling, paging and general alarm applications.

Features and Specifications

- 4", 6" and 10" gong sizes in AC versions
- 4", 6", 8" and 10" gong sizes in DC versions
- Completely assembled with all hardware supplied
- Die cast housing
- Corrosion resistant heat flowed epoxy finish
- Mounts directly on surface or electrical box
- Optional flush mount grille and wall box available separately
- Full cast grids available for 4" bells
- Self-compensating solenoid plunger
- FM approved (AC Bells only)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	Gong Size	dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**340-4E5**	12V AC	0.620 A	7.4	4" (102mm)	98/88	13
	340-6E5	12V AC	0.700 A	8.4	6" (152mm)	102/92	8
	340-4FM	16V AC	0.460 A	7.4	4" (102mm)	98/88	22
	340-6FM	16V AC	0.500 A	8.0	6" (152mm)	102/92	13
	340-4G5	24V AC	0.310 A	7.4	4" (102mm)	98/88	50
	340-6G5	24V AC	0.350 A	8.4	6" (152mm)	102/92	30
	340-10G5	24V AC	0.350 A	8.4	10" (254mm)	106/96	30
	340-4N5	120V AC	0.062 A	7.4	4" (102mm)	98/88	1300
	340-6N5	120V AC	0.070 A	8.4	6" (152mm)	102/92	700
	340-10N5	120V AC	0.070 A	8.4	10" (254mm)	106/96	700
	340-4R5	240V AC	0.031 A	7.4	4" (102mm)	98/88	5000
	340-6R5	240V AC	0.350 A	8.4	6" (152mm)	102/92	2650
	340-10R5	240V AC	0.350 A	8.4	10" (254mm)	106/96	2650
DC	**435-4C1**	6V DC	0.250 A	1.5	4" (102mm)	100/90	11
	435-6C1	6V DC	0.250 A	1.5	6" (152mm)	102/92	11
	435-8C1	6V DC	0.250 A	1.5	8" (203mm)	103/93	11
	435-4E1	12V DC	0.125 A	1.5	4" (102mm)	100/90	40
	435-6E1	12V DC	0.125 A	1.5	6" (152mm)	102/92	40
	435-8E1	12V DC	0.125 A	1.5	8" (203mm)	103/93	40
	435-10E1	12V DC	0.125 A	1.5	10" (254mm)	104/94	40
	435-4G1	24V DC	0.062 A	1.5	4" (102mm)	100/90	155
	435-6G1	24V DC	0.062 A	1.5	6" (152mm)	102/92	155
	435-8G1	24V DC	0.062 A	1.5	8" (203mm)	103/93	155
	435-10G1	24V DC	0.062 A	1.5	10" (254mm)	104/94	155
	435-4J1	32V DC	0.047 A	1.5	4" (102mm)	100/90	275
	435-6J1	32V DC	0.047 A	1.5	6" (152mm)	102/92	275
	435-6K1	48V DC	0.031 A	1.5	6" (152mm)	102/92	620
	435-4P1	125V DC	0.012 A	1.5	4" (102mm)	100/90	3000
	435-6P1	125V DC	0.012 A	1.5	6" (152mm)	102/92	3000
	435-8P1	125V DC	0.012 A	1.5	8" (203mm)	103/93	3000
	435-10P1	125V DC	0.012 A	1.5	10" (254mm)	104/94	3000
	435-6S1	250V DC	0.008 A	2.0	6" (152mm)	100/90	6100
	435-10S1	250V DC	0.008 A	2.0	10" (254mm)	100/90	6100

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Bells
Vibrating
340 and 435 Series

Accessories

Description	Cat. No.
Grid Kit for 4" Bells	**340-4-GRID**
Outdoor Back Box for 4" AC Bells	**348**
Outdoor Back Box for 6" Bells or 10" AC Bells	**349**
Outdoor Back Box for DC Bells	**449**
Flush Mount Grille for 4" Bells	**511-A**[1]
Flush Mount Grille for 6" Bells	**512-A**[2]
Flush Mount Grille for 10" Bells	**513-A**[3]
Wall Box for 4" Bells	**511-1**
Wall Box for 6" Bells	**512-1**
Wall Box for 10" Bells	**513-1**

[1]511-A must be used with 511-1.
[2]512-A must be used with 512-1.
[3]513-A must be used with 513-1.

340-4-GRID

348

449

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage[4]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Milliseconds
340-4N5	120V AC	0.025	0.062	0.095 / 4
340-6N5	120V AC	0.025	0.070	0.15 / 4
340-10N5	120V AC	0.025	0.070	0.15 / 4
435-4G1	24V DC	0.005	0.062	1.06 / 0.0001
435-6G1	24V DC	0.005	0.062	1.14 / 0.000125
435-10G1	24V DC	0.005	0.062	1.14 / 0.000125

[4]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.[5]	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
340-4	1.64	1.80
340-6	4.20	4.40
340-10	6.45	6.98
435-4	2.40	2.60
435-6	3.00	3.20
435-8	4.80	5.00
435-10	6.20	6.40

[5]Catalog number represents gong size and voltage range category.

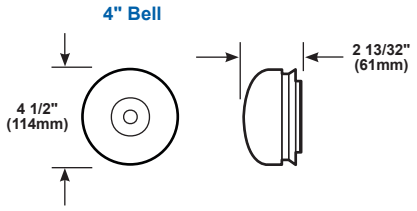
Bells
Vibrating
340 and 435 Series

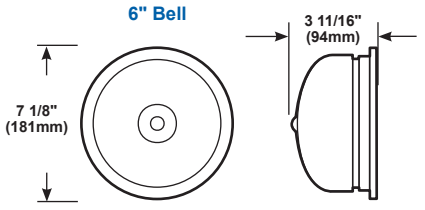
Weights and Dimensions Continued

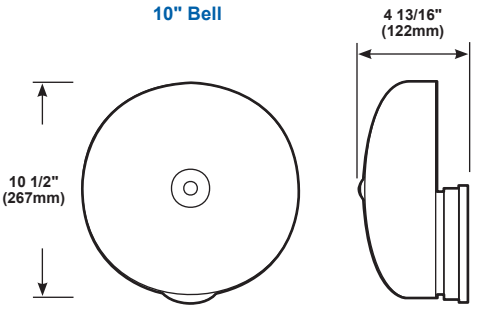
Cat. No.[1]	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions				
			Diameter	Depth	Width	Height	Length
340-4-GRID	0.21	0.50	5 5/8" (143mm)	3 1/2" (89mm)	—	—	—
348	0.92	0.96	5 1/8" (130mm)	1 5/8" (41mm)	—	—	—
349	1.30	1.56	6 1/2" (165mm)	1 5/8" (41mm)	—	—	—
449	1.13	1.18	—	2" (51mm)	4 9/16" (115mm)	4 1/2" (114mm)	—
511-A	2.00	2.50	—	—	—	10" (254mm)	10" (254mm)
512-A	2.00	2.50	—	—	—	12" (305mm)	12" (305mm)
513-A	3.00	3.50	—	—	—	16" (406mm)	16" (406mm)
511-1	4.00	5.00	—	3 7/8" (98mm)	—	8" (203mm)	8" (203mm)
512-1	5.00	6.00	—	4 1/4" (108mm)	—	10" (254mm)	10" (254mm)
513-1	5.00	6.00	—	5" (127mm)	—	14" (357mm)	14" (357mm)

[1]Catalog number represents gong size and voltage range category.

340 Series







NOTE: Mounts directly on surface or fits any single-gang box, 3 1/4" (83mm), 3 1/2" (89mm), or 4" (102mm) octagon box, or any plaster cover with mounting holes on 2 3/4" (70mm) centers. 6" and 10" bells also mount on 4" (102mm) square boxes.

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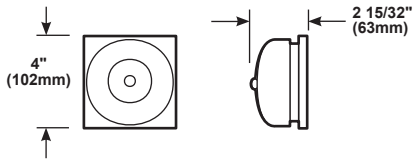
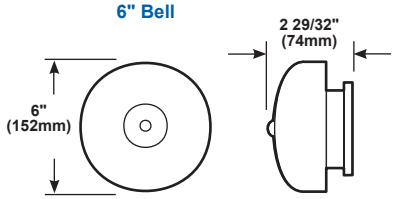
Bells
Vibrating
340 and 435 Series

435 Series

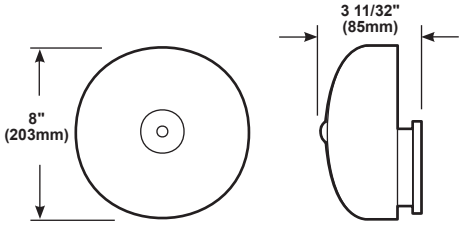
4" Bell



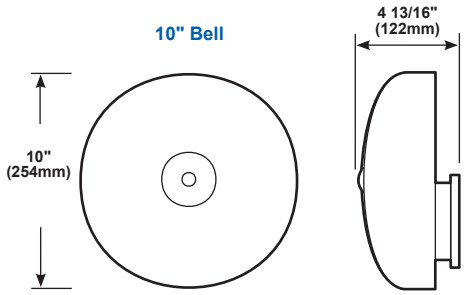
6" Bell



8" Bell



10" Bell



NOTE: Mounts directly on surface or fits any single-gang box, 3 1/4" (83mm), 3 1/2" (89mm), or 4" (102mm) octagon box, or any plaster cover with mounting holes on 2 3/4" (70mm) centers. 6" and 10" bells also mount on 4" (102mm) square boxes.

Bells
Vibrating
650 Class

NEW
Coming Soon

The 650 Class Vibrating Bells are 6.57" (167mm) and designed for use in heavy duty industrial applications as well as many commercial applications. Available in 24V AC, 24V DC and 120V AC, the 650 Class bells provide audible tones that range from 98dB to 100dB at 1 meter. The bells are available in red or gray and carry NEMA 3R and IP66 ratings.

Features and Specifications

- 24V AC, 120V AC and 24V DC
- Available in red or gray
- Up to 100dB @ 1m (90dB @ 10ft.)
- Operating temperature range: -22ºF to 122ºF (-30ºC to 50ºC)
- IP66 and NEMA Type 3R rated

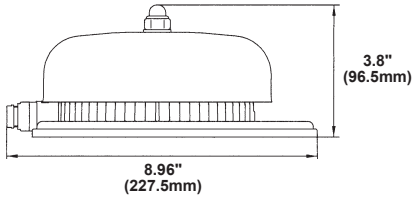
Ordering Information

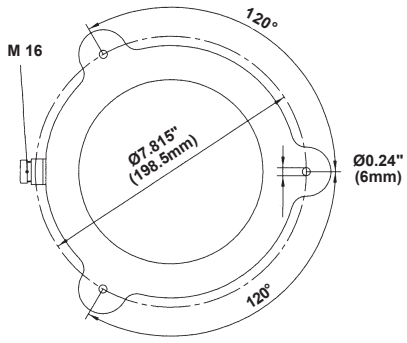
Description	Cat. No.	Operating Voltage[1]	Current	Color	dB at 1m/10ft.
AC	**650I24AG**	24V AC	0.43 A	Gray	100/90
	650I24AR	24V AC	0.43 A	Red	100/90
	650I120AG	120V AC	0.090 A	Gray	100/90
	650I120AR	120V AC	0.090 A	Red	100/90
DC	**650I24DG**	24V DC	0.30 A	Gray	98/88
	650I24DR	24V DC	0.30 A	Red	98/88

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
650I24AG	3.75	4.50
650I24AR	3.75	4.50
650I120AG	3.75	4.50
650I120AR	3.75	4.50
650I24DG	3.97	4.75
650I24DR	3.97	4.75





AC | DC | 90-100 dB | 122°F -22°F OP TEMP

UL | c UL us | CE | 3R ENCLOSURE | IP66 ENCLOSURE

Bells
Vibrating
850 Class

NEW
Coming Soon

The 850 Class bells are heavy duty stainless steel audible signaling devices for industrial environments. They are available with operating voltages of 24V AC, 120V AC and 24V DC. The 850 Class bells are UL 464 listed and carry NEMA 3R and IP66 ratings.

Features and Specifications

- 24V AC, 120V AC and 24V DC
- Vibrating
- Stainless steel
- Up to 100dB @ 1m (90dB @ 10ft.)
- Operating temperature range: -22ºF to 122ºF (-30ºC to 50ºC)
- IP66 and NEMA Type 3R rated

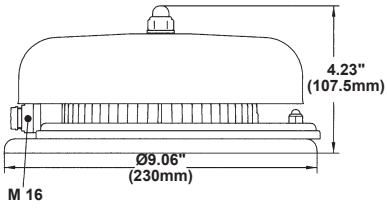
Ordering Information

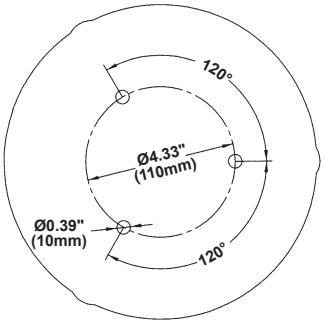
Description	Cat. No.	Operating Voltage[1]	Current	dB at 1m/10ft.
AC	**850ISS24A**	24V AC	0.43 A	100/90
	850ISS120A	120V AC	0.090 A	100/90
DC	**850ISS24D**	24V DC	0.30 A	98/88

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
850ISS24A	5.95	7.00
850ISS120A	5.95	7.00
850ISS24D	6.17	7.00





AC | DC | 90-100 dB | 122°F -22°F OP TEMP | UL | 3R ENCLOSURE | IP66 ENCLOSURE

Bells
Vibrating
156G Series

Edwards 156G Series bells are self-contained underdome monitor bells. These grounded, vibrating bells are insulated, and have a concealed plunger. They are also suitable for AC powered security systems.

Features and Specifications

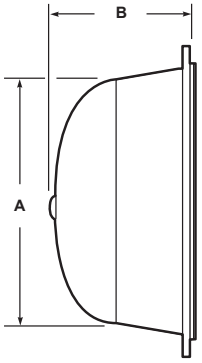
- 3", 4" and 6" gong sizes
- Corrosion resistant gray finish
- Supplied with gasket for outdoor applications
- Low current draw permits long wire runs
- Mounts on 3 3/4" (95mm) bolt circle

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Gong Size	dB at 1m/10ft.
AC	**156G-3G5**	24V AC	0.30 A	3" (76mm)	82/72
	156G-4G5	24V AC	0.30 A	4" (102mm)	86/76
	156G-6G5	24V AC	0.30 A	6" (152mm)	90/80
DC	**156G-3AX**	12-18V DC	0.20 A	3" (76mm)	82/72
	156G-6AW	20-24V DC	0.15 A	6" (152mm)	90/80
	156G-3G1	24V DC	0.15 A	3" (76mm)	82/72
	156G-4G1	24V DC	0.15 A	4" (102mm)	86/76
	156G-6G1	24V DC	0.15 A	6" (152mm)	90/80
	156G-3J1	32V DC	0.11 A	3" (76mm)	82/72
AC/DC	**156G-3AM**	6-8V DC 8-10V AC	0.80 A	3" (76mm)	82/72
	156G-4AM	6-8V DC 8-10V AC	0.80 A	4" (102mm)	86/76
	156G-6AM	6-8V DC 8-10V AC	0.80 A	6" (152mm)	90/80

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions A	Dimensions B
156G-3AM	0.86	0.98	3" (76mm)	1 7/8" (48mm)
156G-3AX	0.86	0.98	3" (76mm)	1 7/8" (48mm)
156G-3G1	0.86	0.98	3" (76mm)	1 7/8" (48mm)
156G-3G5	0.86	0.98	3" (76mm)	1 7/8" (48mm)
156G-3J1	0.86	0.98	3" (76mm)	1 7/8" (48mm)
156G-4AM	1.33	1.53	4" (102mm)	1 7/8" (48mm)
156G-4G1	1.33	1.53	4" (102mm)	1 7/8" (48mm)
156G-4G5	1.33	1.53	4" (102mm)	1 7/8" (48mm)
156G-6AM	1.82	2.10	6" (152mm)	2 5/16" (59mm)
156G-6AW	1.82	2.10	6" (152mm)	2 5/16" (59mm)
156G-6G1	1.82	2.10	6" (152mm)	2 5/16" (59mm)
156G-6G5	1.82	2.10	6" (152mm)	2 5/16" (59mm)



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Bells
Vibrating
55 Series

Edwards 55 Series single magnet vibrating bells feature an exposed striker with an enclosed grounded terminal and case. They are ideal for light duty installations in factory and office environments and OEM applications. They are also suitable for AC powered security systems with a battery standby.

Features and Specifications

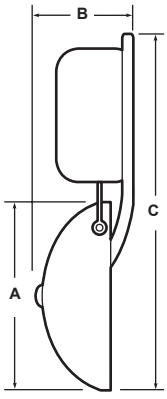
- Gray finish
- Low current drain permits long wire runs
- 4" and 6" gong sizes

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	Gong Size	dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**55-4G5**	24V AC	0.20 A	4.8	4" (102mm)	78/68	20.0
	55-6G5	24V AC	0.20 A	4.8	6" (152mm)	84/74	24.0
AC/DC	**55-4AM**	6V DC	0.85 A	5.1	4" (102mm)	78/68	2.2
		8V AC	1.10 A	8.8			
	55-6AM	6V DC	0.80 A	4.8	6" (152mm)	84/74	1.9
		8V AC	1.00 A	8.0			

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions A	B	C
55-4AM	0.96	1.08	4" (102mm)	2 1/8" (54mm)	7 3/8" (187mm)
55-4G5	0.96	1.08	4" (102mm)	2 1/8" (54mm)	7 3/8" (187mm)
55-6AM	1.13	2.50	6" (152mm)	2 5/8" (67mm)	10 5/8" (270mm)
55-6G5	1.13	2.50	6" (152mm)	2 5/8" (67mm)	10 5/8" (270mm)



Bells
Vibrating
740 and 744

Edwards 740 and 744 bells with an exposed gong are non-adjustable, and are suitable for use in residential, commercial and OEM applications. They may be operated off of a 591 or 592 transformer or DC power. They are also suitable for AC powered security systems with a battery standby.

Features and Specifications

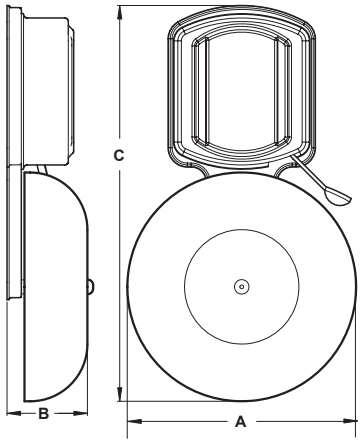
- Exposed gong
- Attractive snap-on covers
- Corrosion resistant chrome finish
- Enclosed binding posts

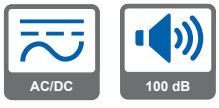
Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
Non Adjustable, Vibrating	**740**	6-8V AC 3-6V DC	1.0 A max	7.0	100/90	1.5
	744	6-8V AC 3-6V DC	1.0 A max	10.0	100/90	1.5

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions A	B	C
740	0.40	0.42	2 1/2" (64mm)	1 1/4" (32mm)	5 3/4" (146mm)
744	0.52	0.58	4" (102mm)	1 3/4" (44mm)	6 7/8" (175mm)





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Bells
Vibrating
720

Edwards 720 fully enclosed, non-adjustable bells are suitable for use in residential, commercial and OEM applications. They may be operated off of a 592 transformer or DC power. They are also suitable for AC powered security systems with a battery standby.

Features and Specifications

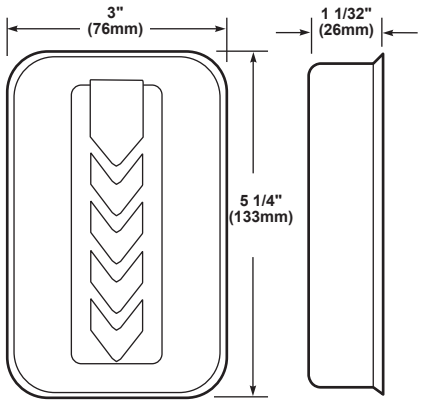
- Attractive snap-on covers
- Corrosion resistant metallic finish
- Enclosed binding posts

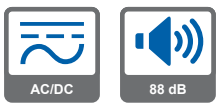
Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
Fully Enclosed, Non Adjustable	**720**	6-8V AC 3-6V DC	1.20 A	7.0	88/78	1.5

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
720	0.44	0.46





Bells
Vibrating
13 Series

Edwards 13 Series bells are compact in size and feature a sound that is suitable for a variety of applications, including offices, apartment houses, intercom and telephone signaling, as well as OEM uses. Models suitable for AC powered security systems are available.

Features and Specifications

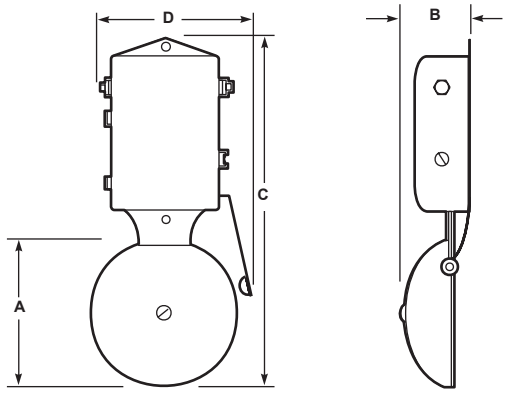
- Chrome plate finish
- Adjustable volume
- 1", 2" and 3" gong sizes
- Grounded frame
- External binding posts

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	Gong Size	dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**13-1G5**	24V AC	0.20 A	4.8	1" (25mm)	74/64	85
	13-2G5	24V AC	0.25 A	6.0	2" (51mm)	75/65	56
	13-3G5	24V AC	0.25 A	6	3" (76mm)	77/67	30
DC	**13-1G1**	24V DC	0.20 A	4.8	1" (25mm)	74/64	120
	13-2G1	24V DC	0.25 A	6.0	2" (51mm)	75/65	90
	13-3G1	24V DC	0.25 A	6	3" (76mm)	77/67	44
AC/DC	**13-1AB**	5-10V DC	0.35 A	2.0	1" (25mm)	74/64	10
		6-12V AC	0.50 A	4.0			
	13-2AB	5-10V DC	0.40 A	2.5	2" (51mm)	75/65	8
		6-12V AC	0.50 A	4.0			
	13-3AB	5-10V DC	0.60 A	3.5	3" (76mm)	77/67	5
		6-12V AC	0.40 A	3.5			

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions A	B	C	D
13-1AB	0.07	0.10	1 1/4" (32mm)	3/4" (19mm)	3 1/8" (79mm)	1 3/4" (44mm)
13-1G1	0.07	0.10	1 1/4" (32mm)	3/4" (19mm)	3 1/8" (79mm)	1 3/4" (44mm)
13-1G5	0.07	0.10	1 1/4" (32mm)	3/4" (19mm)	3 1/8" (79mm)	1 3/4" (44mm)
13-2AB	0.10	0.30	1 3/4" (44mm)	1 1/16" (27mm)	3 29/32" (99mm)	2 1/32" (52mm)
13-2G1	0.10	0.30	1 3/4" (44mm)	1 1/16" (27mm)	3 29/32" (99mm)	2 1/32" (52mm)
13-2G5	0.10	0.30	1 3/4" (44mm)	1 1/16" (27mm)	3 29/32" (99mm)	2 1/32" (52mm)
13-3AB	0.29	0.60	3" (76mm)	1 9/16" (40mm)	5 7/8" (149mm)	3 1/2" (89mm)
13-3G1	0.29	0.60	3" (76mm)	1 9/16" (40mm)	5 7/8" (149mm)	3 1/2" (89mm)
13-3G5	0.29	0.60	3" (76mm)	1 9/16" (40mm)	5 7/8" (149mm)	3 1/2" (89mm)



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Bells
Vibrating
438 and 439 Series

Edwards 438 and 439 Series fire alarm bells are diode polarized, vibrating bells for use with fire alarm equipment. They operate in conjunction with an installed fire alarm panel and detection devices. The steel alloy gongs are epoxy powder finished and produce a loud, resonant tone required in fire alarm systems.

Features and Specifications

- 6", 8" and 10" gong sizes
- Heavy duty die cast housing
- Steel alloy gong with epoxy powder coating
- Back box available for use in outdoor applications
- Under dome mechanism
- Available in red or gray
- Lead length: 10" (25mm)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Gong Size	Color	dB at 1m/10ft.
AC	**438D-6N5**	120V AC	0.034 A	6" (152mm)	Gray	76/66[1]
	438D-6N5-R	120V AC	0.034 A	6" (152mm)	Red	76/66[1]
	438D-8N5	120V AC	0.034 A	8" (203mm)	Gray	85/75[1]
	438D-8N5-R	120V AC	0.034 A	8" (203mm)	Red	85/75[1]
	438D-10N5	120V AC	0.034 A	10" (254mm)	Gray	89/79[1]
	438D-10N5-R	120V AC	0.034 A	10" (254mm)	Red	89/79[1]
DC	**439D-6RAU**	12V DC	0.150 A	6" (152mm)	Red	95/85
	439D-10RAU	12V DC	0.150 A	10" (254mm)	Red	96/86
	439D-6AW	20-24V DC	0.085 A	6" (152mm)	Gray	92/82[1]
	439D-6AW-R	20-24V DC	0.085 A	6" (152mm)	Red	92/82[1]
	439D-8AW	20-24V DC	0.085 A	8" (203mm)	Gray	92/82[1]
	439D-8AW-R	20-24V DC	0.085 A	8" (203mm)	Red	92/82[1]
	439D-10AW	20-24V DC	0.085 A	10" (254mm)	Gray	95/85[1]
	439D-10AW-R	20-24V DC	0.085 A	10" (254mm)	Red	95/85[1]

[1]Anechoic Chamber

Accessories

Description	Cat. No.
Outdoor Back Box for DC Bells	**449**

449

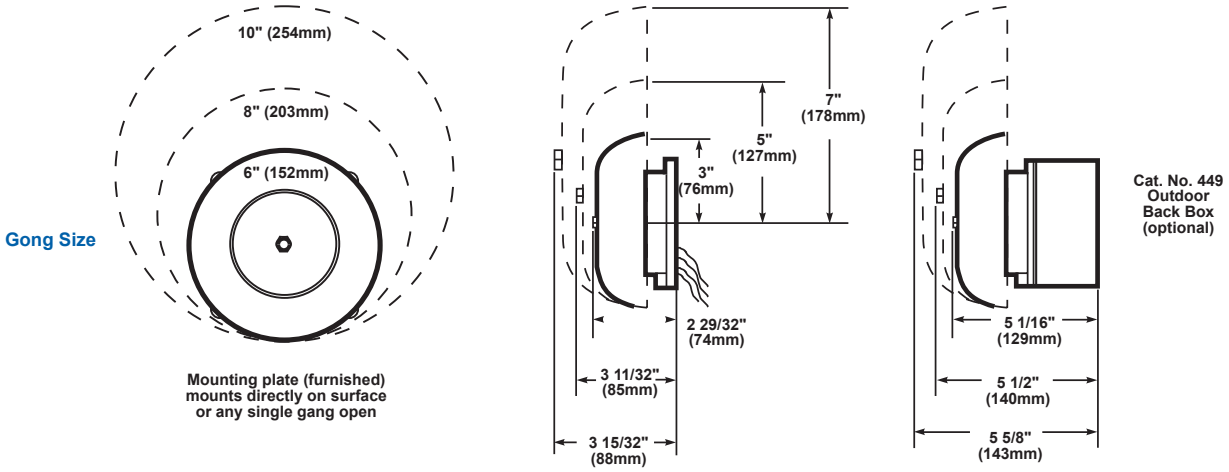
AC DC 76-95 dB

UL FM APPROVED

Bells
Vibrating
438 and 439 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions			
			Depth	Width	Height	Length
438D-6N5	2.67	2.90	See Drawing			
438D-6N5-R	2.67	2.90	See Drawing			
438D-8N5	4.51	4.80	See Drawing			
438D-8N5-R	4.51	4.80	See Drawing			
438D-10N5	5.80	6.20	See Drawing			
438D-10N5-R	5.80	6.20	See Drawing			
439D-6RAU	2.67	2.90	See Drawing			
439D-10RAU	5.80	6.30	See Drawing			
439D-6AW	2.67	2.90	See Drawing			
439D-6AW-R	2.67	2.90	See Drawing			
439D-8AW	4.51	4.80	See Drawing			
439D-8AW-R	4.51	4.80	See Drawing			
439D-10AW	5.80	6.20	See Drawing			
439D-10AW-R	5.80	6.20	See Drawing			
449	1.13	1.18	2" (51mm)	4 9/16" (115mm)	4 1/2" (114mm)	—



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Bells
Vibrating
340EX and 435EX Series

Edwards 340EX and 435EX hazardous location bells are vibrating bells that produce a long, continuous ringing sound. The striker continues to strike the gong in rapid-fire as long as current is applied. They feature an explosionproof, NEMA Type 4 housing.

Features and Specifications

- 6", 8" and 10" gong sizes
- Completely assembled
- Corrosion resistant finish
- Mounts directly on any solid surface
- Low power draw for efficient operation over long runs
- Suitable for use in outdoor applications
- Adjustment free self-compensating solenoid plunger
- UL listed for Class I, Divisions 1 and 2, Groups B, C and D; Class II, Divisions 1 and 2, Groups E, F and G; Class III
- NEMA Type 4 enclosure

Ordering Information

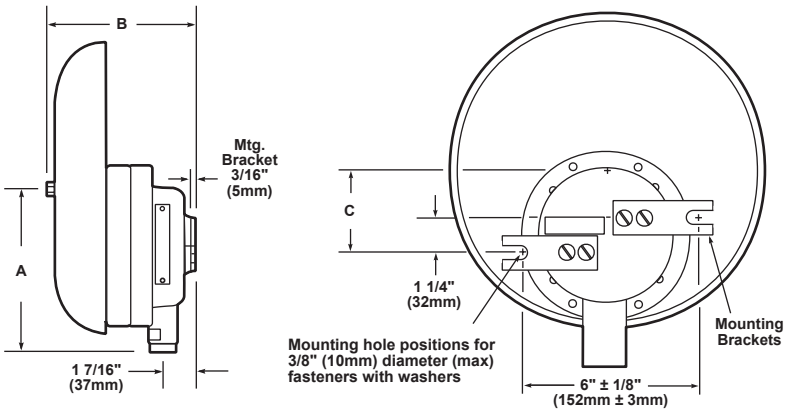
Description	Cat. No.	Operating Voltage[1]	Current	Gong Size	dB at 1m/10ft.
AC	**340EX-6G5**	24V AC	0.210 A	6" (152mm)	94/84
	340EX-10G5	24V AC	0.210 A	10" (254mm)	98/88
	340EX-6N5	120V AC	0.041 A	6" (152mm)	94/84
	340EX-8N5	120V AC	0.041 A	8" (203mm)	99/89
	340EX-10N5	120V AC	0.041 A	10" (254mm)	98/88
	340EX-6R5	240V AC	0.021 A	6" (152mm)	94/84
	340EX-10R5	240V AC	0.021 A	10" (254mm)	98/88
DC	**435EX-6C1**	6V DC	1.520 A	6" (152mm)	93/83
	435EX-6E1	12V DC	0.520 A	6" (152mm)	96/86
	435EX-10E1	12V DC	0.520 A	10" (254mm)	99/89
	435EX-6G1	24V DC	0.240 A	6" (152mm)	93/83
	435EX-8G1	24V DC	0.290 A	8" (203mm)	96/86
	435EX-10G1	24V DC	0.290 A	10" (254mm)	99/89
	435EX-6K1	48V DC	0.110 A	6" (152mm)	93/83
	435EX-8K1	48V DC	0.110 A	8" (203mm)	96/86
	435EX-6P1	125V DC	0.040 A	6" (152mm)	93/83
	435EX-8P1	125V DC	0.040 A	8" (203mm)	96/86
	435EX-10P1	125V DC	0.040 A	10" (254mm)	99/89
	435EX-6S1	250V DC	0.023 A	6" (152mm)	93/83
	435EX-8S1	250V DC	0.023 A	8" (203mm)	96/86
DC, Diode Polarized	**435DEX-6G1**	24V DC	0.290 A	6" (152mm)	93/83
	435DEX-8G1	24V DC	0.290 A	8" (203mm)	96/86
	435DEX-10G1	24V DC	0.290 A	10" (254mm)	99/89

[1] AC voltage frequency is 50/60 Hz.

Bells
Vibrating
340EX and 435EX Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Gong Size	Dimensions		
				A	B	C
340EX-6G5	5.70	8.00	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
340EX-10G5	8.70	10.64	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
340EX-6N5	5.70	8.00	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
340EX-8N5	7.70	8.66	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
340EX-10N5	8.70	10.64	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
340EX-6R5	5.70	8.00	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
340EX-10R5	8.70	10.64	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
435EX-6C1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-6E1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-10E1	8.70	10.60	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
435EX-6G1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-8G1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435EX-10G1	8.70	10.60	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
435EX-6K1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-8K1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435EX-6P1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-8P1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435EX-10P1	8.70	10.60	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
435EX-6S1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-8S1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435DEX-6G1	5.70	6.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435DEX-8G1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435DEX-10G1	8.70	10.40	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)



NOTE: Mounts to any solid surface using 3/8" (10mm) fasteners. Units fitted with a sealing fitting for 3/4" (19mm) conduit and wire leads for power connections.

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Bells
Vibrating
439DEX Series

Edwards 439DEX Series hazardous location fire alarm bells are DC vibrating bells that produce a long, continuous ringing sound. The striker continues to strike the gong in rapid-fire as long as current is applied. Diode polarized models are available for use in electrically supervised circuits.

Features and Specifications

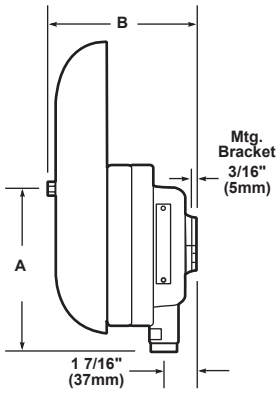
- 6", 8" and 10" gong sizes
- Completely assembled
- Corrosion resistant gray epoxy finish
- Suitable for use in indoor applications
- Mounts directly on any solid surface
- Low power draw for efficient operation over long runs
- Adjustment free self-compensating solenoid plunger
- Wire leads and sealing fitting for connection to 3/4" conduit
- UL listed for Class I, Divisions 1 and 2, Groups B, C and D; Class II, Divisions 1 and 2, Groups E, F and G; Class III

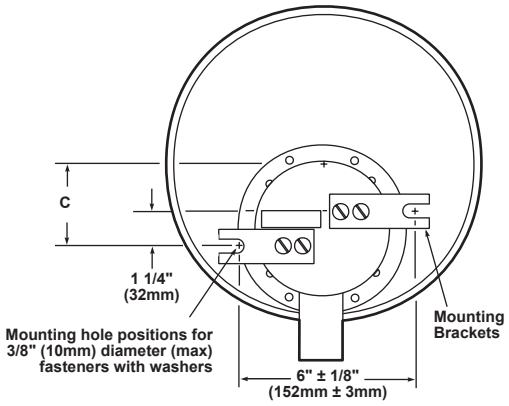
Ordering Information

Description	Cat. No.	Operating Voltage	Current	Gong Size	dB at 1m/10ft.	Color
DC Fire Alarm	**439DEX-6AW**	20-24V DC	0.240 A	6" (152mm)	93/83	Gray
	439DEX-8AW	20-24V DC	0.240 A	8" (203mm)	96/86	Gray
	439DEX-10AW	20-24V DC	0.240 A	10" (254mm)	99/89	Gray
	439DEX-6AW-R	20-24V DC	0.240 A	6" (152mm)	93/83	Red
	439DEX-8AW-R	20-24V DC	0.240 A	8" (203mm)	96/86	Red
	439DEX-10AW-R	20-24V DC	0.240 A	10" (254mm)	99/89	Red

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Gong Size	Dimensions A	Dimensions B	Dimensions C
439DEX-6AW	5.70	7.24	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
439DEX-8AW	7.70	9.67	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
439DEX-10AW	8.70	11.10	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
439DEX-6AW-R	5.70	7.24	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
439DEX-8AW-R	7.70	9.67	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
439DEX-10AW-R	8.70	11.10	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)





NOTE: Mounts to any solid surface using 3/8" (10mm) fasteners. Units fitted with a sealing fitting for 3/4" (19mm) conduit and wire leads for power connections.

Klaxon Bells
Vibrating
Syrex Series

The Klaxon Bell is designed for use in Zone 1 and 2 areas and is suitable for outdoor applications. The Syrex Series Bells are IP66 rated and certified to ATEX II 2G Exd e IIC T6.

With a sound output of up to 105dB, it provides a clear signal which stands out against background noise.

The housing is manufactured from glass fiber reinforced polyester with stainless steel fittings. In addition, all DC versions are equipped with a non-wearing electronic contact breaker.

Features and Specifications

- Clear audible signal designed to penetrate background noise
- Glass fiber reinforced polyester construction with stainless steel fittings
- IP66 rated
- Rated for Category 2 use (formerly Zone 1 & 2)
- ATEX approved
- II 2G Exd e IIC T6
- Operating temperature range: -4°F to 104°F (-20°C to 40°C)

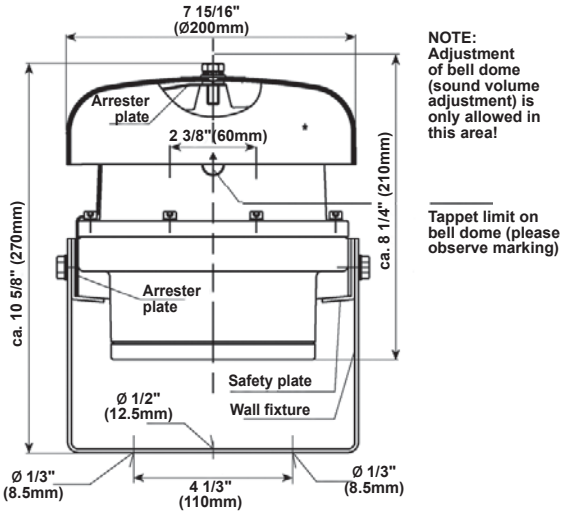
Ordering Information

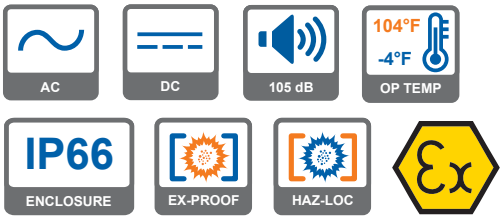
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Current	Color	dB at 1m/10ft.
AC	**17-970233**	**TCA-0003**	110V AC	0.140 A	Black/Gray	105/95
	17-970232	**TCA-0002**	230V AC	0.060 A	Black/Gray	105/95
DC	**17-970234**	**TCA-0004**	24V DC	0.320 A	Black/Gray	105/95

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
17-970233	**TCA-0003**	7.70	10.40
17-970232	**TCA-0002**	7.70	10.40
17-970234	**TCA-0004**	7.70	10.40





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Bells
Single Stroke
330 Series

Edwards 330 Series single stroke bells produce a clearly defined note for timing, scheduling, paging and general event notification. Coded, ntermittent current may be used to cause the striker to gong, pause and strike again for any specified period of time.

Features and Specifications

- Single stroke or coded intermittent stroke
- Completely assembled, all hardware supplied
- Mounts directly on surface or electrical box
- Self-compensating solenoid plunger
- Available with 4", 6" or 10" gongs
- Suitable for use in indoor applications
- Die cast housing with corrosion resistant heat flowed epoxy finish
- FM Approved **(AC bells only)**

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	VA	Gong Size	dB at 1m/10ft.	DC Coil Res (Ohms)
AC Single Stroke	**332-4G5**	24V AC	0.50 A	12	4" (102mm)	94/84	10
	332-6G5	24V AC	0.50 A	12	6" (152mm)	96/86	10
	332-10G5	24V AC	0.70 A	16.8	10" (254mm)	102/92	5
	332-4N5	120V AC	0.10 A	12	4" (102mm)	94/84	250
	332-6N5[1]	120V AC	0.10 A	12	6" (152mm)	96/86	250
	332-10N5[1]	120V AC	0.14 A	16.8	10" (254mm)	102/92	130
	332-6R5[3]	240V AC	0.05 A	12	6" (152mm)	96/86	1000
DC Single Stroke	**333-6E1**	12V DC	0.60 A	7.2	6" (152mm)	96/86	18
	333-4G1	24V DC	0.30 A	7.2	4" (102mm)	94/84	73
	333-6G1	24V DC	0.30 A	7.2	6" (152mm)	96/86	73
	333-10G1	24V DC	0.30 A	7.2	10" (254mm)	102/92	73
	333-6P1	125V DC	0.06 A	7.5	6" (152mm)	96/86	1870
	333-10P1	125V DC	0.06 A	7.5	10" (254mm)	102/92	1870

[1] Diode Polarized models available. Order 332D-6N5, 332D-6N5-R or 332D-10N5-R.
[2] AC voltage frequency is 50/60 Hz.
[3] Red finish.

Accessories

Description	Cat. No.
Grid Kit for 4" Bells	**340-4-GRID**
Flush Mount Grille for 4" Bells	**511-A[3]**
Flush Mount Grille for 6" Bells	**512-A[4]**
Flush Mount Grille for 10" Bells	**513-A[5]**
Wall Box for 4" Bells	**511-1**
Wall Box for 6" Bells	**512-1**
Wall Box for 10" Bells	**513-1**

[3] 511-A must be used with 511-1.
[4] 512-A must be used with 512-1.
[5] 513-A must be used with 513-1.

340-4-GRID

AC DC 94-102 dB

UL FM APPROVED

Bells
Single Stroke
330 Series

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Milliseconds
332-4N5	120V AC	0.025	0.100	0.41 / 4.5
332-6N5	120V AC	0.025	0.100	0.40 / 4.6
332-10N5	120V AC	0.025	0.140	0.53 / 4.5
333-4G1[2]	24V DC	0.005	0.300	1.57 / 0.0001
333-6G1[2]	24V DC	0.005	0.300	1.72 / 0.0001
333-10G1[2]	24V DC	0.005	0.300	1.3 / 0.000182

[1]AC voltage frequency is 50/60 Hz.
[2]Electromechanical devices can produce transient spikes and should only be used on PLC output cards that have inherent transient spike suppression. Consult the PLC manufacturer prior to connecting 24V DC electromechanical devices to PLCs.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions				
			Diameter	Depth	Width	Height	Length
332-4G5	1.85	2.50			See Drawing		
332-4N5	1.85	2.50			See Drawing		
332-6G5	3.40	3.66			See Drawing		
332-6N5	3.40	3.66			See Drawing		
332-6R5	3.40	3.66			See Drawing		
332-10G5	6.45	7.00			See Drawing		
332-10N5	6.45	7.00			See Drawing		
333-4G1	1.85	2.50			See Drawing		
333-6E1	3.40	3.66			See Drawing		
333-6G1	3.40	3.66			See Drawing		
333-6P1	3.40	3.66			See Drawing		
333-10G1	6.45	7.00			See Drawing		
333-10P1	6.45	7.00			See Drawing		
340-4-GRID	0.21	0.50	5 5/8" (143mm)	3 1/2" (89mm)	—	—	—
511-A	2.00	2.50	—	—	—	10" (254mm)	10" (254mm)
512-A	2.00	2.50	—	—	—	12" (305mm)	12" (305mm)
513-A	3.00	3.50	—	—	—	16" (406mm)	16" (406mm)
511-1	4.00	5.00	—	3 7/8" (98mm)	—	8" (203mm)	8" (203mm)
512-1	5.00	6.00	—	4 1/4" (108mm)	—	10" (254mm)	10" (254mm)
513-1	5.00	6.00	—	5" (127mm)	—	14" (357mm)	14" (357mm)

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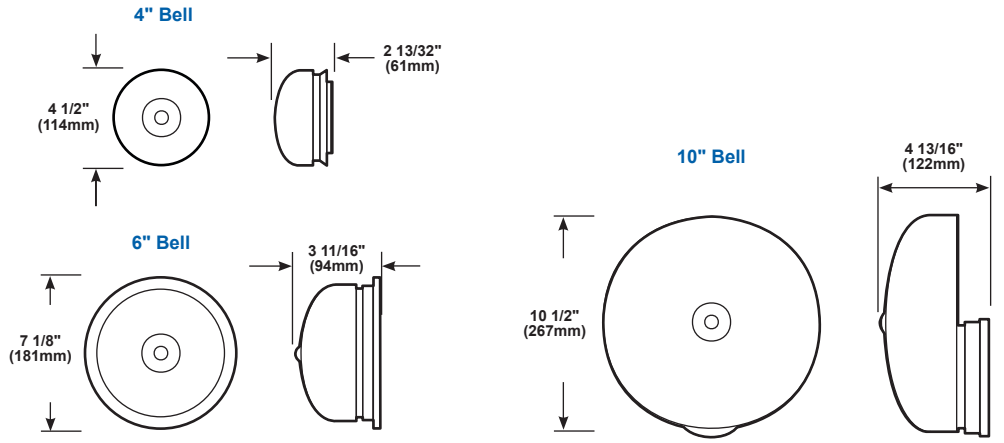
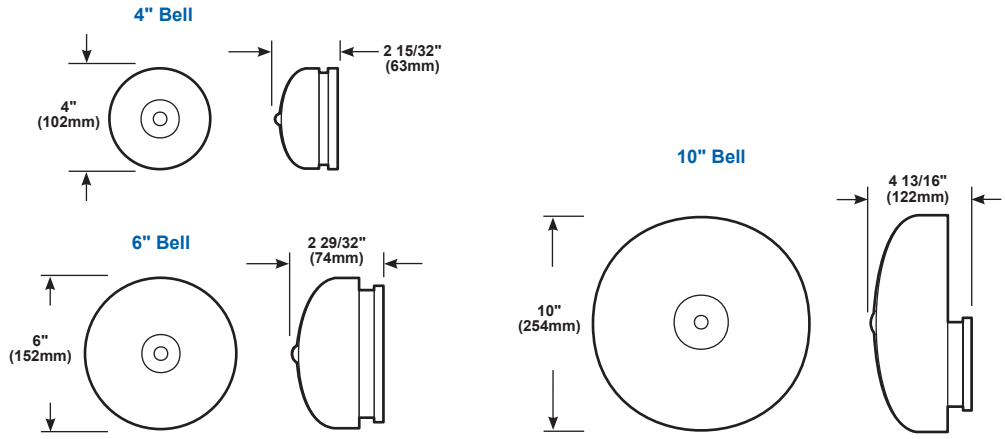
Bells
Single Stroke
330 Series

AC



DC



NOTE: Mounts directly on surface or fits any single-gang box, 3 1/4" (83mm), 3 1/2" (89mm), or 4" (102mm) octagon box, or any plaster cover with mounting holes on 2 3/4" (70mm) centers. 6" and 10" bells also mount on 4" (102mm) square boxes.

Bells
Single Stroke
432 Series

Edwards 432 Series compact single-stroke brass bell produces a crisp clean single tone. It is suitable for use in commercial and OEM applications.

Features and Specifications

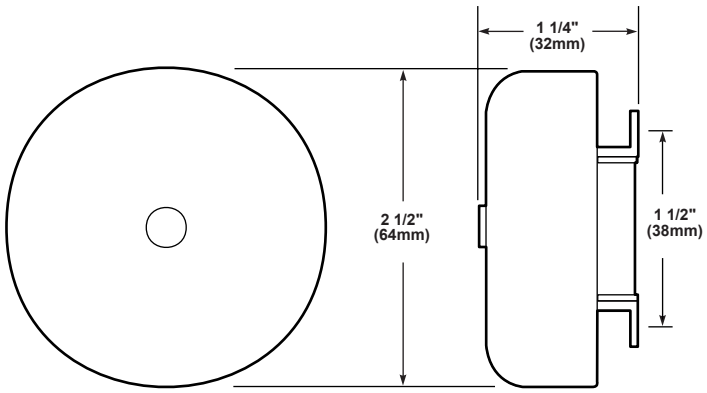
- 2 1/2" solid brass shell
- Economical
- Lower current draw permits long wire runs
- Single stroke

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
Single Stroke	**432-G5**	24V AC	0.350 A	8.4	82/72	33.0
	432-N5	120V AC	0.065 A	7.8	82/72	864.0

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
432-G5	0.26	0.30
432-N5	0.26	0.30



AC

82 dB

Bells
Single Stroke
330EX Series

Edwards 330EX Series single stroke bells produce a clearly defined note for timing, scheduling, paging and general alarm applications. Coded, intermittent current may be used to cause the striker to gong, pause and strike again for any specified period of time. Designed for use in hazardous locations, they have a NEMA Type 4 housing.

Features and Specifications

- Single stroke or coded intermittent stroke
- Completely assembled
- Sealing fitting for 3/4" (19mm) conduit and wire leads for power connections
- Mounts directly on surface
- Self-compensating solenoid plunger
- Low power drain for efficient operation over long wire runs
- Available with 6" or 10" gongs
- Corrosion resistant heat flowed epoxy finish
- Suitable for use in outdoor applications
- NEMA Type 4 housing
- UL Listed for Class I, Divisions 1 and 2, Groups B, C & D; Class II, Divisions 1 and 2, Groups E, F & G; and Class III

Ordering Information

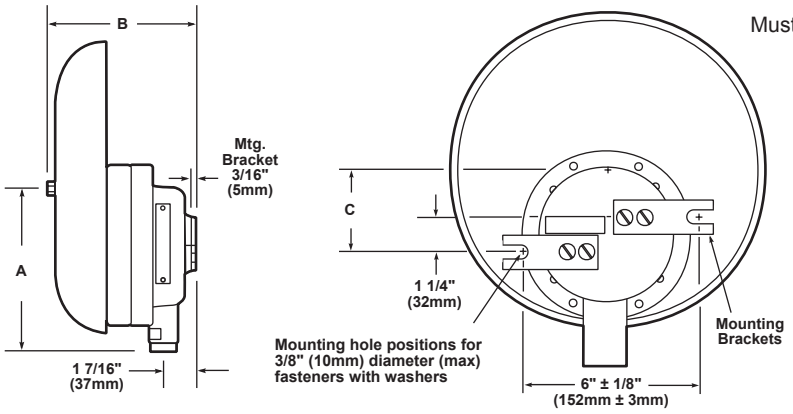
Description	Cat. No.	Operating Voltage[1]	Current[2]	Gong Size	dB at 1m/10ft.
AC Single Stroke	**332EX-6N5**	120V AC	0.43 A	6" (152mm)	96/86
	332EX-10N5	120V AC	0.43 A	10" (254mm)	104/94
	332EX-6R5	240V AC	0.20 A	6" (152mm)	96/86
	332EX-10R5	240V AC	0.20 A	10" (254mm)	104/94
DC Single Stroke	**333EX-6G1**	24V DC	3.50 A	6" (152mm)	96/86
	333EX-10G1	24V DC	3.50 A	10" (254mm)	104/94
	333EX-6P1	125V DC	0.52 A	6" (152mm)	96/86

[1]AC voltage frequency is 50/60 Hz.
[2]Single pulse duration - 8 to 16 milliseconds

Bells
Single Stroke
330EX Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Gong Size	Dimensions		
				A	B	C
332EX-6N5	5.70	7.50	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
332EX-6R5	5.70	7.50	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
332EX-10N5	8.54	9.78	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
332EX-10R5	8.54	9.78	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
333EX-6G1	5.70	7.50	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
333EX-6P1	5.70	7.50	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
333EX-10G1	8.54	9.78	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)



Must be mounted vertically.

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Buzzers
Vibrating
B93 Series

Edwards B93 Series Mineguard™ buzzers are MSHA certified heavy duty buzzers suitable for use on mining equipment. Sound is produced by the hammer action of a vibrating armature against the cast aluminum cover. The one piece cast aluminum cover provides an explosionproof seal. For power connections, the units feature an installed power cord and conduit hose constructed of flame retardant neoprene.

Features and Specifications

- Heavy duty cast aluminum housing and cover
- Corrosion resistant heat flowed powder epoxy finish
- Vibrating armature
- Mounting lugs provided for wall mounting
- MSHA certified No. X/P-3116-1
- Conforms with MSHA 30 CFR, Part 18 for methane and air mixtures
- 33" installed power cord and flame retardant neoprene conduit hose

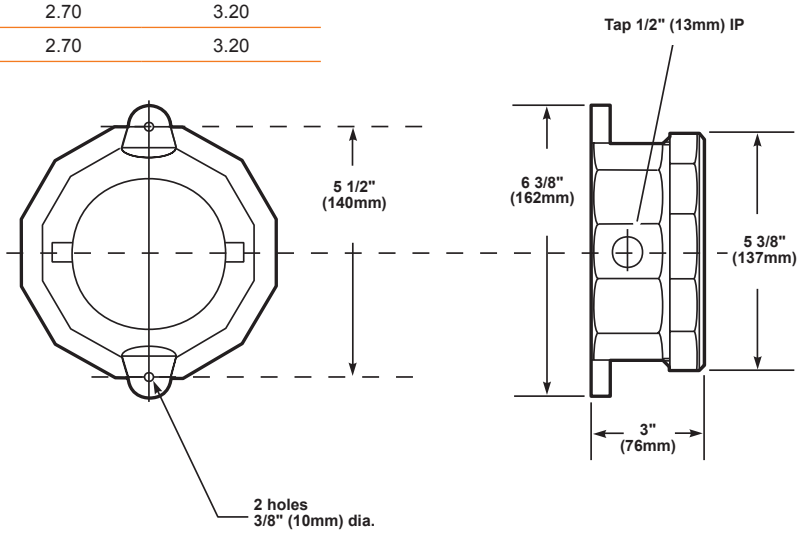
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**B-8140-M-G5**	24V AC	1.1 A	26.4	99/89	5.0
	B-8140-M-N5	120V AC	0.2 A	24	99/89	146
	B-8140-M-R5	240V AC	0.1 A	24	99/89	750
DC	**B-8141-M-G1**	24V DC	0.8 A	19.2	99/89	21.5
	B-8141-M-S1	250V DC	0.1 A	25	99/89	600

[1]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-8140-M-G5	2.70	3.20
B-8140-M-N5	2.70	3.20
B-8140-M-R5	2.70	3.20
B-8141-M-G1	2.70	3.20
B-8141-M-S1	2.70	3.20



MSHA

Buzzers
Vibrating
B93 Series

Edwards B93 Series are heavy duty buzzers that produce sound through the hammer action of a vibrating armature. Wiring connections are made in the base of the units, and the cover assembly plugs into a receptacle in the base.

Features and Specifications

- Heavy gauge steel cover
- Die cast aluminum housing with gray finish
- Vibrating armature
- Mounting lugs provided for wall mounting
- Suitable for outdoor applications
- NEMA 3R enclosure
- UL Approved **(AC buzzers only)**

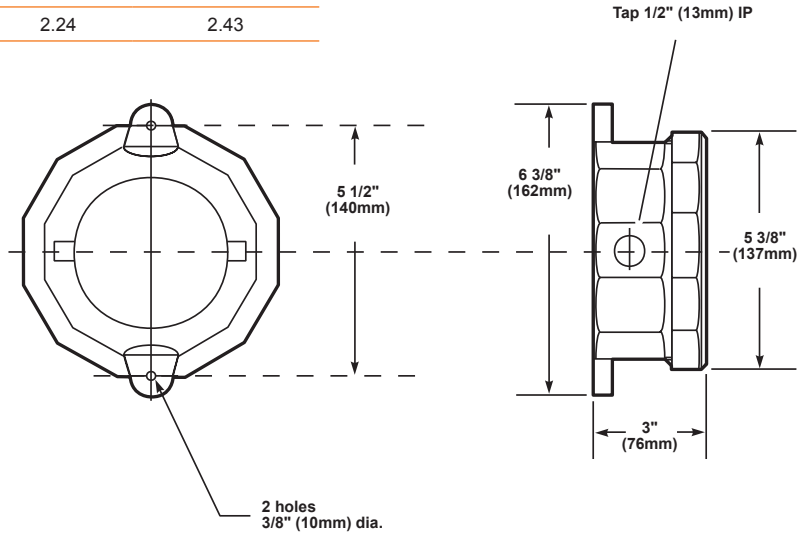
Ordering Information

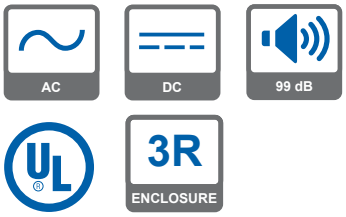
Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
DC	**B-8698-E1**	12V DC	1.5 A	18	99/89	4.8
	B-8698-G1	24V DC	1.0 A	24	99/89	21.5
	B-8698-P1	125V DC	0.2 A	25	99/89	103
	B-8698-S1	250V DC	0.1 A	25	99/89	600
AC	**B-8699-G5**	24V AC	1.1 A	26.4	99/89	5.0
	B-8699-N5	120V AC	0.2 A	24	99/89	146

[1]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-8698-E1	2.24	2.43
B-8698-G1	2.24	2.43
B-8698-P1	2.24	2.43
B-8698-S1	2.24	2.43
B-8699-G5	2.24	2.43
B-8699-N5	2.24	2.43





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Buzzers
Vibrating
B93 Series

The B-KM-8140 and B-8141 series are quality, heavy duty AC and DC buzzers designed for use in hazardous locations. The sound is produced by the hammer action of a vibrating armature against the cover. The buzzers are provided with two mounting lugs for wall mounting.

Features and Specifications

- Cast aluminum housing and cover
- Corrosion resistant heat flowed powder epoxy finish
- UL listed for Class 1, Div. 1 and 2, Groups C and D, Class 1, Zones 1 and 2, Groups II A and II B, Class II, Div. 1 and 2, Groups E, F and G.

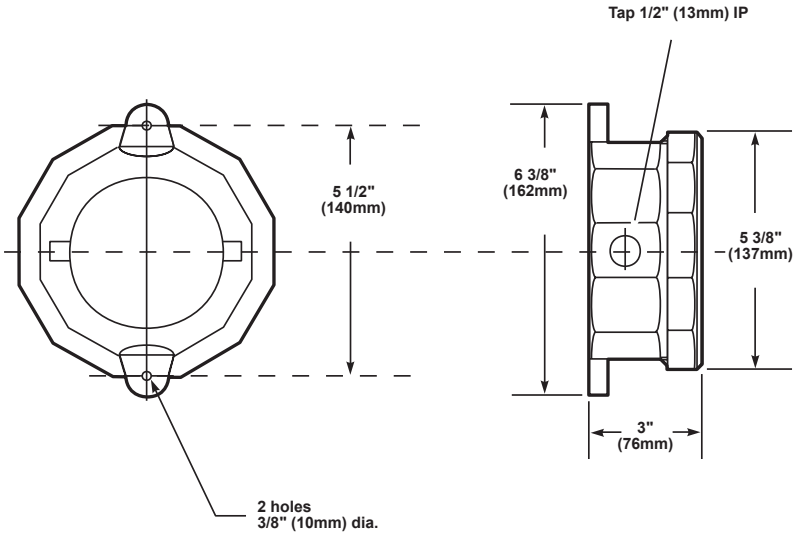
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**B-KM-8140-G5**	24V AC	1.1 A	26.4	99/89	5.0
	B-KM-8140-N5	120V AC	0.2 A	24	99/89	146
DC	**B-8141-G1**	24V DC	0.8 A	19.2	99/89	21.5

[1]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KM-8140-G5	2.74	3.20
B-KM-8140-N5	2.74	3.20
B-8141-G1	2.74	3.20



AC DC 99 dB EX-PROOF HAZ-LOC

Buzzers
Vibrating
340A Series

Edwards 340A Series vibrating buzzers are heavy duty buzzers that mount directly on a solid surface or electrical box.

Features and Specifications

- AC models are volume adjustable
- Vibrating armature
- Convenient plug-in connection
- Corrosion resistant heat flowed epoxy finish
- UL and FM Approved **(AC buzzers only)**

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**340A-G5**	24V AC	0.250 A	6.0	80/70	28
	340A-N5	120V AC	0.050 A	6.0	80/70	725
	340A-R5	240V AC	0.025 A	6.0	80/70	2900
DC	**343A-E1**	12V DC	0.330 A	4.0	72/62	9.4
	343A-G1	24V DC	0.150 A	3.6	72/62	28
	343A-M1	75V DC	0.065 A	4.9	72/62	360
	343A-P1	125V DC	0.070 A	8.8	72/62	1000

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions				
			Diameter	Depth	Width	Height	Length
340A-G5	1.64	1.80			See Drawing		
340A-N5	1.64	1.80			See Drawing		
340A-R5	1.64	1.80			See Drawing		
343A-E1	1.64	1.80			See Drawing		
343A-G1	1.64	1.80			See Drawing		
343A-M1	1.64	1.80			See Drawing		
343A-P1	1.64	1.80			See Drawing		

AC DC 72-80 dB

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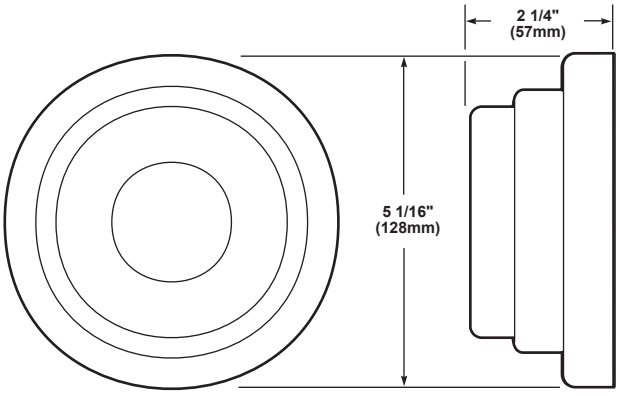
Buzzers
Vibrating
340A Series



NOTE: Mounts directly on any single-gang box, 3 1/4" (83mm), 3 1/2" (89mm), or 4" (102mm) octagon box. Buzzer plugs into receptacle on mounting plate.

Buzzers
Klaxon
Syrex Series

The Klaxon Buzzer is an explosion proof buzzer designed for use in hazardous areas where a distinctive signal is required. Certified to ATEX II 2G Exd e IIC T6, it is suitable for use in Zone 1 and Zone 2 areas.

Producing a tone with low frequency, it cuts through background noise more effectively than many other devices of a similar output.

Mounted in a rugged reinforced polyester case and rated to IP66, it is suitable for use in outdoor applications.

Features and Specifications

- Heavy duty buzzer
- Rugged construction
- Glass Fiber reinforced polyester construction
- IP66 rated case
- Rated for Category 2 use (formerly Zone 1 & 2)
- ATEX approved
- Ex II 2G Exd e IIC T6
- Operating temperature range: -4ºF to 104ºF (-20ºC to 40ºC)

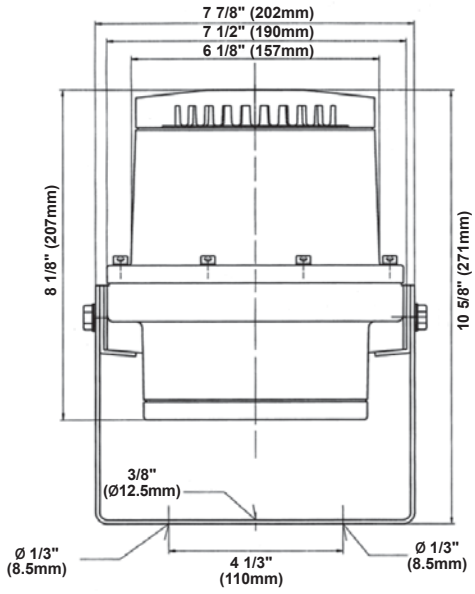
Ordering Information

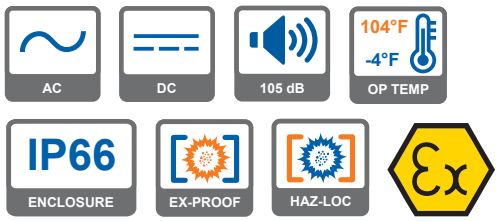
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Current	Color	dB at 1m/10ft.
AC	**17-970235**	**TCA-0069**	110V AC	0.150 A	Black	105/95
	17-970220	**TCA-0001**	230V AC	0.070 A	Black	105/95
DC	**17-970236**	**TCA-0005**	24 DC	0.650 A	Black	105/95

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
17-970235	**TCA-0069**	7.70	9.00
17-970220	**TCA-0001**	7.70	9.00
17-970236	**TCA-0005**	7.70	9.00





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Buzzers
Economy
725 Series

Edwards 725 is a fully insulated, non-adjustable buzzer, suitable for residential, commercial and OEM applications. It is a fully enclosed unit with a snap-on cover.

Features and Specifications

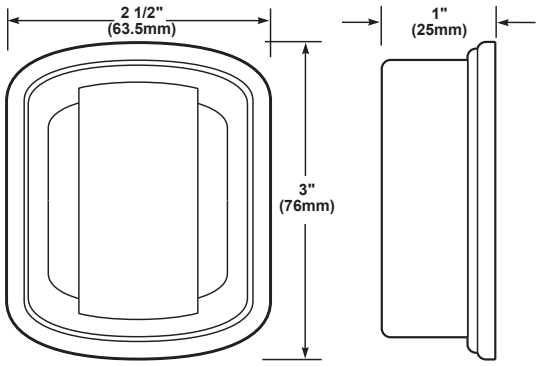
- Fully enclosed
- Bright chrome finish snap-on cover
- Enclosed binding posts

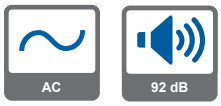
Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
Buzzer	**725**	6V AC	1.2 A max.	7.2	92/82	1.0

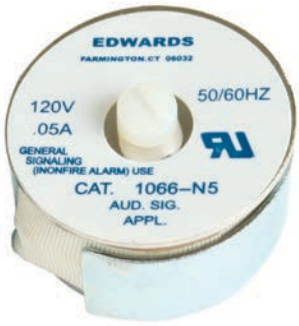
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
725	0.26	0.28





Buzzers
Economy
1066 Series



These economical buzzers are suitable for residential, commercial and OEM applications.

Features and Specifications

- Adjustable volume
- Flying leads
- Lower power draw permits long wire runs
- Zinc-plated finish

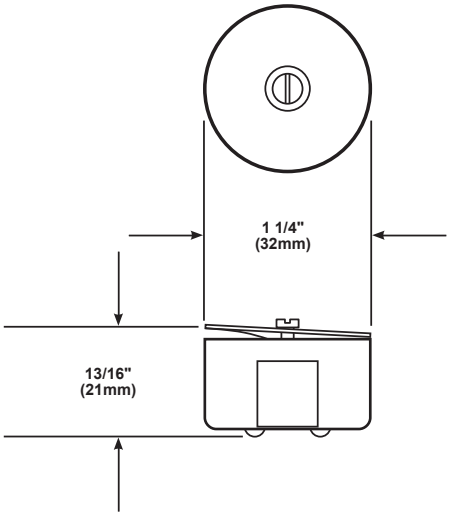
Ordering Information

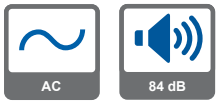
Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
High Voltage Buzzer	**1066-G5**	24V AC	0.25 A	6	84/74	36
	1066-N5	120V AC	0.05 A	6	84/74	925
	1066-R5	240V AC	0.025 A	6	84/74	3600

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
1066-G5	0.14	0.16
1066-N5	0.14	0.16
1066-R5	0.14	0.16





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EDWARDS
www.edwardssignaling.com

Buzzers
Bell Buzzer
730 Series

Edwards 730 Dixie Buzabel™ is a non-adjustable, combination bell and buzzer with a grounded frame, suitable for use in residential, commercial and OEM applications. It may be operated using AC power supplied by a 596 transformer, or from DC power.

Features and Specifications

- Fully enclosed
- Satin aluminum finish
- Attractive snap-on covers
- Enclosed binding posts
- Enclosed terminals

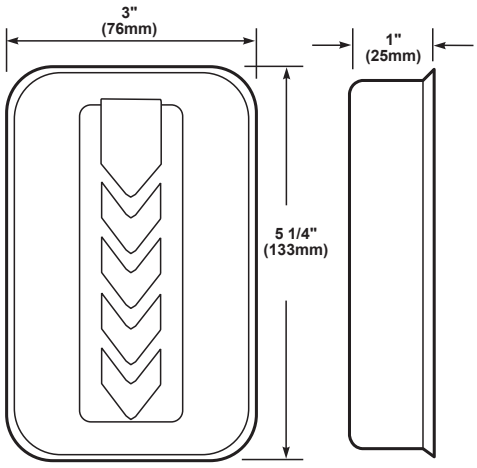
Ordering Information

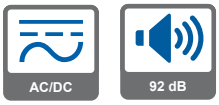
Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
Bell and Buzzer	**730**	6V AC	0.7 A	4.2	92/82	3
		3-6V DC	1.4 A	8	92/82	3
		6-8V AC	1.4 A	8	92/82	3

[1]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
730	0.46	0.48





Buzzers
Miniature
15 and 115 Series

Edwards 15 and 115 Series buzzers are compact, adjustable volume buzzers designed for long-life and trouble-free installations. They are suitable for commercial and OEM applications.

The 15 Series is available in both AC and DC versions, while the contact-less 115 Series is for AC operation.

Features and Specifications

- Adjustable volume
- Chrome cover
- Zinc plated base
- Contact-less **(115 Series)**

Ordering Information

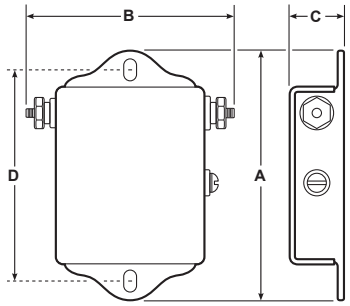
Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
AC Buzzer	**15-0G5**	24V AC	0.2 A	4.8	75.5/65.5	85
	15-1G5	24V AC	0.25 A	6	78/68	56
	15-2G5	24V AC	0.25 A	6	79/69	40
	15-3G5	24V AC	0.25 A	6	84.5/74.5	30
DC Buzzer	**15-1E1**	12V DC	0.2 A	2.4	78/68	20
	15-3E1	12V DC	0.2 A	2.4	84.5/74.5	20
	15-0G1	24V DC	0.1 A	2.4	75.5/65.5	120
	15-1G1	24V DC	0.1 A	2.4	78/68	90
	15-2G1	24V DC	0.15 A	3.6	79/69	60
	15-3G1	24V DC	0.2 A	4.8	84.5/74.5	44
AC/DC Buzzer	**15-0AJ**	5-8V DC	0.2 A	1.2	75.5/65.5	10
		6-10V AC	0.3 A	2.4	75.5/65.5	10
	15-1AB	5-10V DC	0.3 A	2	78/68	8
		6-12V AC	0.45 A	3.5	78/68	8
	15-2AB	5-10V DC	3.5 A	2	79/69	6
		6-12V AC	3.0 A	3	79/69	6
	15-3AB	5-10V DC	0.3 A	2	84.5/74.5	5
		6-12V AC	0.4 A	2.5	84.5/74.5	5
AC Buzzer contact-less	**115-1AC**	8V AC	0.4 A	3.2	83/73	12.5
	115-2AC	8V AC	0.5 A	4	87/77	6.5
	115-4AC	8V AC	0.45 A	4	90/80	3.6
	115-1G5	24V AC	0.2 A	4.8	83/73	80
	115-2G5	24V AC	0.2 A	4.8	87/77	45
	115-4G5	24V AC	0.25 A	6	90/80	28

Buzzers
Miniature
15 and 115 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions			
			A	B	C	D
15-0AJ	0.08	0.10	1 5/8" (41mm)	1 15/32" (37mm)	1/2" (13mm)	1 13/32" (36mm)
15-0G1	0.08	0.10	1 5/8" (41mm)	1 15/32" (37mm)	1/2" (13mm)	1 13/32" (36mm)
15-0G5	0.08	0.10	1 5/8" (41mm)	1 15/32" (37mm)	1/2" (13mm)	1 13/32" (36mm)
15-1AB	0.12	0.15	2 1/8" (54mm)	1 13/16" (46mm)	19/32" (15mm)	1 53/64" (46mm)
15-1E1	0.12	0.15	2 1/8" (54mm)	1 13/16" (46mm)	19/32" (15mm)	1 53/64" (46mm)
15-1G1	0.12	0.15	2 1/8" (54mm)	1 13/16" (46mm)	19/32" (15mm)	1 53/64" (46mm)
15-1G5	0.12	0.15	2 1/8" (54mm)	1 13/16" (46mm)	19/32" (15mm)	1 53/64" (46mm)
15-2AB	0.23	0.26	2 5/8" (66mm)	2 3/8" (60mm)	15/16" (24mm)	2 3/32" (53mm)
15-2G1	0.23	0.26	2 5/8" (66mm)	2 3/8" (60mm)	15/16" (24mm)	2 3/32" (53mm)
15-2G5	0.23	0.26	2 5/8" (66mm)	2 3/8" (60mm)	15/16" (24mm)	2 3/32" (53mm)
15-3AB	0.35	0.36	2 5/8" (66mm)	2 3/8" (60mm)	15/16" (24mm)	2 3/32" (53mm)
15-3E1	0.35	0.36	2 5/8" (66mm)	2 3/8" (60mm)	15/16" (24mm)	2 3/32" (53mm)
15-3G1	0.35	0.36	2 5/8" (66mm)	2 3/8" (60mm)	15/16" (24mm)	2 3/32" (53mm)
15-3G5	0.35	0.36	2 5/8" (66mm)	2 3/8" (60mm)	15/16" (24mm)	2 3/32" (53mm)

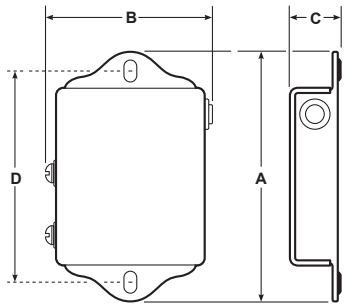
15 Series



Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions			
			A	B	C	D
115-1AC	0.11	0.13	2 5/32" (55mm)	1 9/32" (32mm)	5/8" (16mm)	1 25/32" (45mm)
115-1G5	0.11	0.13	2 5/32" (55mm)	1 9/32" (32mm)	5/8" (16mm)	1 25/32" (45mm)
115-2AC	0.22	0.24	2 5/8" (66mm)	1 11/16" (43mm)	25/32" (20mm)	2 3/32" (53mm)
115-2G5	0.22	0.24	2 5/8" (66mm)	1 11/16" (43mm)	25/32" (20mm)	2 3/32" (53mm)
115-4AC	0.43	0.50	3 7/16" (87mm)	2 3/16" (55mm)	1 1/8" (28mm)	2 27/32" (72mm)
115-4G5	0.43	0.50	3 7/16" (87mm)	2 3/16" (55mm)	1 1/8" (28mm)	2 27/32" (72mm)

115 Series



Buzzers
Strap-Mounted
660 Series

Edwards 660 Series buzzers and bells are compact, strap-mounted devices designed for flush mounting in standard electrical boxes. They require a 598 transformer and push button.

Features and Specifications

- Easy flush mounting
- Cover with a single receptacle outlet cover plate (user supplied)

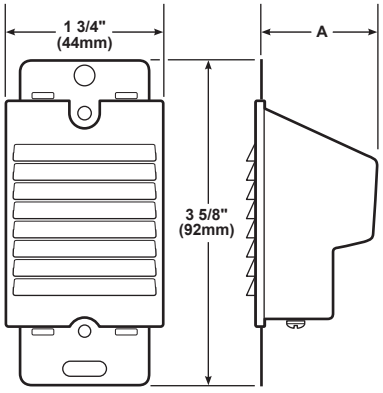
Ordering Information

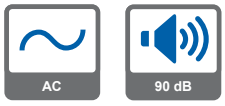
Description	Cat. No.	Operating Voltage	Current[1]	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
Ringcall™ Bell	**660**	8-10V AC	1.5 A	15	90/80	4.75
Buzacall™ Buzzer	**661**	8-10V AC	1.3 A	13	90/80	6
Tucall™ Bell/Buzzer	**662**	8-10V AC	1.5 A	15	90/80	4.75

[1]Ratings at 10V AC

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Depth A
660	0.30	0.32	1 3/8" (35mm)
661	0.30	0.32	7/8" (22mm)
662	0.30	0.32	1 3/8" (35mm)





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Buzzers
Strap-Mounted
1064 and 1065 Series

Edwards 1064 and 1065 Series are economical flush mounted, heavy duty buzzers suitable for residential, commercial and OEM applications.

Features and Specifications

- Adjustable volume
- Terminal connectors **(1064)**
- Flying leads **(1065)**
- Lower power draw permits long wire runs
- Zinc-plated finish

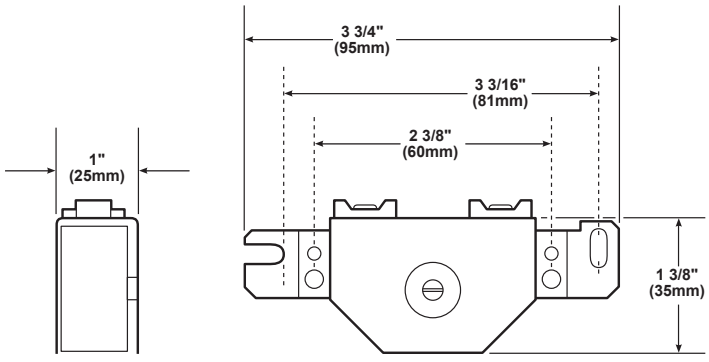
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
Buzzer with Terminals	**1064-G5**	24V AC	0.25 A	6	86/76	36
	1064-N5	120V AC	0.05 A	6	86/76	925
	1064-R5	240V AC	0.025 A	6	86/76	3600
Buzzer with Flying Leads	**1065-G5**	24V AC	0.25 A	6	86/76	36
	1065-N5	120V AC	0.05 A	6	86/76	925
	1065-R5	240V AC	0.025 A	6	86/76	3600

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
1064-G5	0.18	0.20
1064-N5	0.18	0.20
1064-R5	0.18	0.20
1065-G5	0.18	0.20
1065-N5	0.18	0.20
1065-R5	0.18	0.20



Chimes
Single Stroke
338 and 339 Series

The Edwards 338 and 339 are surface mount AC or DC single stroke chimes which can be pulsed up to 10 pulses/second. The chimes are high quality units with underdome construction intended for heavy-duty commercial and industrial use. The chimes require no lubrication, and come complete with a mounting plate.

Features and Specifications

- No exposed terminals
- Tamper-proof cover screw
- Plastic tipped stainless steel striker
- Satin aluminum finish

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.
Single Stroke Chime	**338-G5**	24V AC	0.5 A	12	91/81
	338-N5	120V AC	0.1 A	12	91/81
Single Stroke Chime	**339-E1**	12V DC	0.6 A	7.2	91/81
	339-G1	24V DC	0.3 A	7.2	91/81

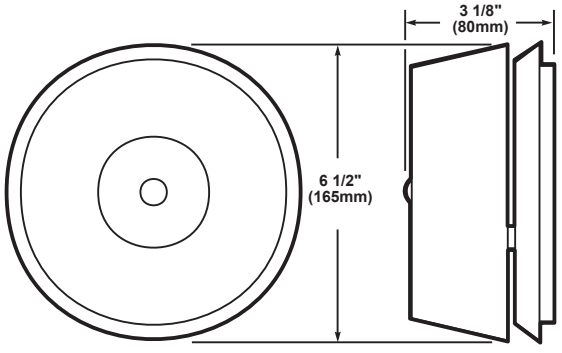
[1]AC voltage frequency is 50/60 Hz.

Accessories

Description	Cat. No.
Flush Mount Grille and Wall Box	**512-A**
Back Box	**512-1**

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
338-G5	2.32	2.68
338-N5	2.32	2.68
339-E1	2.32	2.68
339-G1	2.32	2.68
512-A	2.00	2.50
512-1	5.00	6.00



The mounting plate mounts on any plaster cover with mounting holes on 2 3/4" (70mm) centers, on any single gang opening, on any 3 1/4" (83mm), 3 1/2" (89mm), or 4" (102mm) octagon or square box. Also mounts directly on any wall surface.

For flush mounting use Cat. No. 512-A grille and 512-1 back box.

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Back-up Alarms
Auto Adjust and Single Tone
8001 Series

The 8001 Series heavy duty backup alarms feature a compact size, rugged housing and high decibel output.

They are designed for use in indoor and outdoor applications in a variety of vehicles and heavy equipment.

Features and Specifications

- Solid state, epoxy-sealed electronics
- Conforms to SAE J994 sound level Type C requirements

8001-EG

- Auto adjusts out volume to 10dB above ambient to compensate for background noise
- Die-Cast Construction suitable for outdoor applications

8002-EU

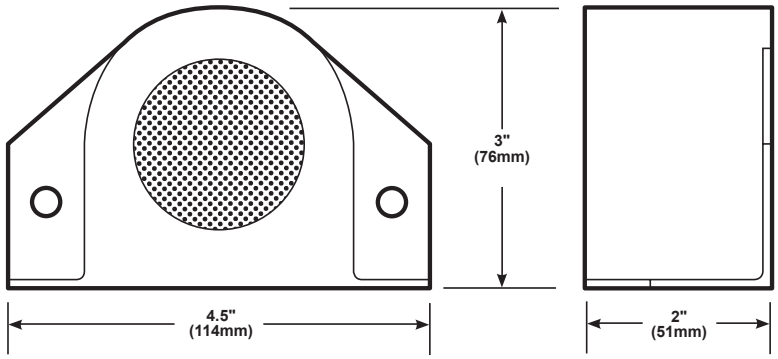
- ABS Plastic Housing suitable for outdoor applications

Ordering Information

Description	Cat. No.	Operating Voltage	dB at 1m/10ft.
Die Cast Housing	**8001-EG**	12-24V DC	112/102
ABS Plastic Housing	**8002-EU**	12-36V DC	107/97

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
8001-EG	1.48	1.56
8002-EU	0.68	0.76



DC

107-112 dB

Electronic Sounders
Audio or Audible/Visual
E Series

Lumatone signals are designed to demand attention in quiet and moderate noise areas. The signal's output can be varied by controlling the applied voltage. The signal's low power consumption makes them suitable for battery operated equipment and allows them to be turned on and off by integrated circuits, SCRs and transistors.

Features and Specifications

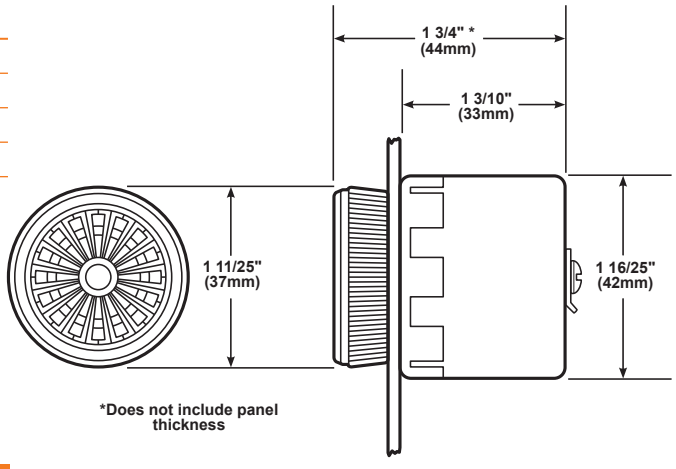
- Low cost and size
- Solid state, long life
- High impact polystyrene case
- Pulsating audio or audio/visual models available
- Terminal connections
- Operating temperature range: 32°F to 131°F (0°C to 55°C)
- Frequency: 2.8 kHz

Ordering Information

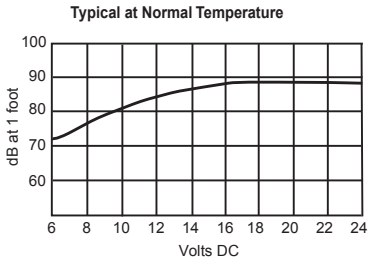
Description	Cat. No.	Operating Voltage	Current	VA	Pulsating Rate	LED Intensity
Steady Audio	**E102A**	12-24V DC	0.010-0.018 A	0.12-0.44	—	—
Pulsating Audio	**E103A**	12-24V DC	0.010-0.018 A	0.12-0.44	90-60	—
Steady Audio/Visual	**E104A**	12-24V DC	0.016-0.030 A	0.20-0.75	—	1.3 mcd
Pulsating Audio/Visual	**E105AE**	12-24V DC	0.016-0.030 A	0.20-0.75	90-60	1.3 mcd

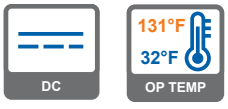
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
E102A	0.08	0.10
E103A	0.08	0.10
E104A	0.08	0.10
E105AE	0.08	0.10



Decibels vs. Voltage for Lumatone Audio Signals





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EDWARDS
www.edwardssignaling.com

Klaxon Sounders
Electronic
Syrex Series

The Syrex IS Sounder is an intrinsically safe alarm sounder which provides an audible warning signal in hazardous area applications.

With three alarm stages and a low current consumption, the Syrex IS Sounder is ideal for both fire and process control applications.

The Syrex IS sounder must be used with a galvanic isolator specified by the system certificates.

Features and Specifications

- Choice of 49 tones
- Auto synchronized sound output
- ABS flame retardant UL94V0 and 5VA housing
- IP65 rated housing
- Volume control
- Operating temperature range: -40ºF to 140ºF (-40ºC to 60ºC)
- Ⓔx II 1G EEx ia IIC T4
- ATEX Zones 0, 1, 2

Ordering Information

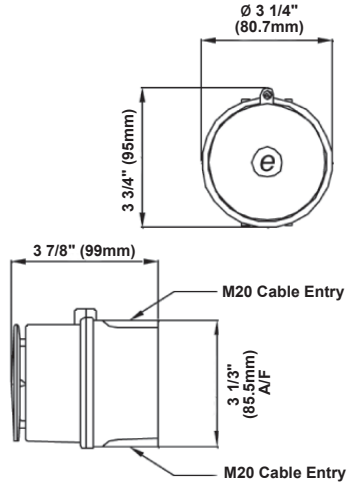
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current (Tone Dependent)	dB at 1m/10ft.	Tones
Alarm Sounder	**17-970328**	**TCA-0023**	6-28V DC	0.025 A	Up to 100/90	Up to 49

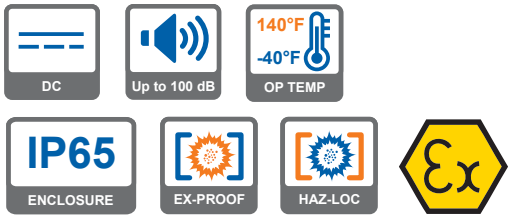
Accessories

Description	Edwards Cat. No.	Klaxon Cat. No.
Single Channel Galvanic Isolator	**17-970362**	**TCA-0042**
Dual Channel Galvanic Isolator	**17-970395**	**TCA-0066**
IS DIN-rail Enclosure, accepts two Isolators	**17-970392**	**TCA-0065**

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
17-970328	**TCA-0023**	0.77	2.00
17-970362	**TCA-0042**	0.77	2.00
17-970395	**TCA-0066**	0.77	2.00
17-970392	**TCA-0065**	0.77	2.00





Klaxon Sounders
Electronic
Syrex Series

The EXD-3 is an electronic sounder designed for potentially explosive atmospheres and harsh environmental conditions. Certified to II 2G EExd IIC T4, it is suitable for use in Zone 1 and 2 areas.

With an ingress protection rating of IP67 and a choice of tones including those covering PFEER/ UKOOA requirements, it is suitable for use in almost any application. The EXD-3 gives the user a choice of the 1st stage alarm tone with stages 2 and 3 fixed at manufacture.

The unit features two 20mm cable entries and has terminals that accept 4mm² cable for ease of installation.

Features and Specifications

- Choice of 32 tones
- Suitable for outdoor applications
- Volume control
- Marine grade LM6 aluminium construction
- Operating temperature range: -58ºF to 131ºF (-50ºC to 55ºC)
- IP67 rated
- ATEX / IECEx Approved
- Rated for Category 2 use (formerly Zone 1 & 2)
- EXII 2G Exd IIC T4

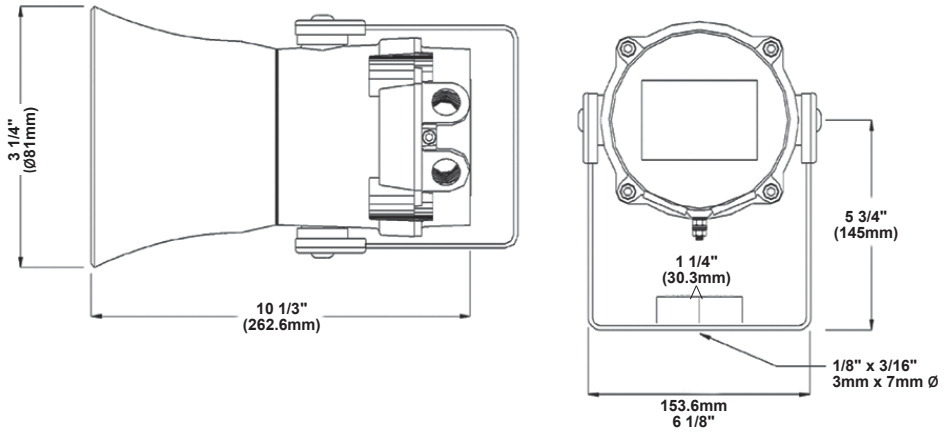
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Current	Color	dB at 1m/10ft.	Tones
AC	**17-970270**	**TCA-0011**	110V AC	0.093 A	Red	117/107	Up to 32
	17-970269	**TCA-0010**	230V AC	0.056 A	Red	117/107	Up to 32
DC	**17-970271**	**TCA-0012**	24V DC	0.265 A	Red	117/107	Up to 32

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
17-970269	**TCA-0011**	7.50	9.00
17-970270	**TCA-0010**	7.50	9.00
17-970271	**TCA-0012**	7.50	9.00



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Klaxon Sounders
Electronic
Sonos Series

Sonos Series are general purpose electronic sounders. They feature the TimeSaver base where connections are made to the base during the initial wiring phase, for faster and more reliable installation. The sounder head 'twists and clicks' into the base on commissioning, avoiding the wiring and connection problems associated with traditional sounders.

Deep base units have an IP65 rating and are suitable for both indoor and outdoor applications.

Sonos Sounder units are available in either red or white and with a choice of deep or shallow TimeSaver bases.

Features and Specifications

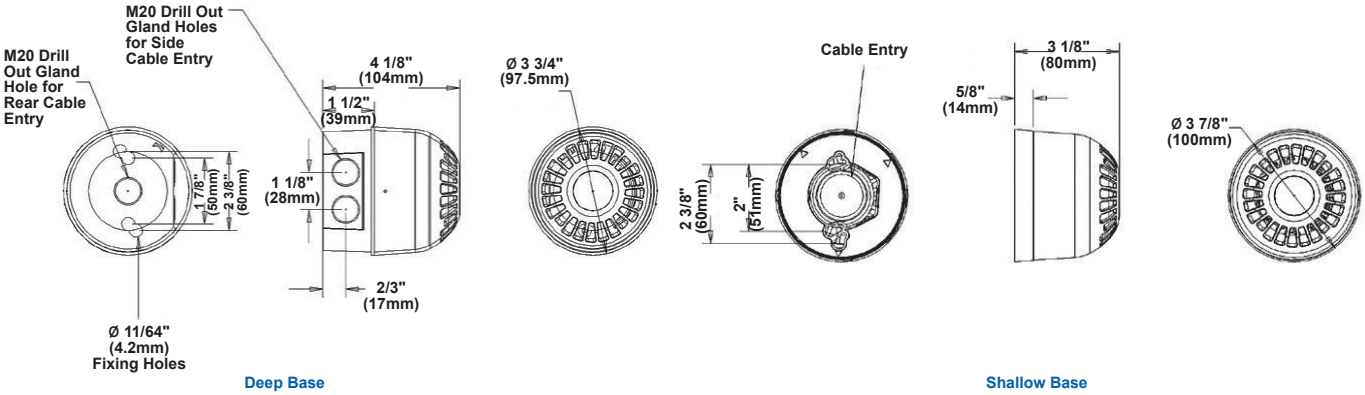
- 2 alarm stages
- 32 tones
- Tone and volume can be preset or adjusted off-base
- Synchronised alarm tones
- Volume control - Typical 8dB Combined
- Polycarbonate construction
- IP65 (deep base) and IP21 (shallow base) housing
- EN54-3 Type A (shallow base) and EN54-3 Type B (deep base) compliance
- Operating temperature range: -8ºF to 158ºF (-25ºC to 70ºC)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Color	dB at 1m/10ft.	Tones
Shallow Base	**18-980450**	**PSS-0003**	9-60V DC	0.004-0.041 A	Red	Up to 106/96	32
	18-980475	**PSS-0039**	9-60V DC	0.004-0.041 A	White	Up to 106/96	32
Deep Base	**18-980451**	**PSS-0020**	9-60V DC	0.004-0.041 A	Red	Up to 106/96	32
	18-980476	**PSS-0050**	9-60V DC	0.004-0.041 A	White	Up to 106/96	32

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980450	**PSS-0003**	0.49	2.00
18-980475	**PSS-0039**	0.49	2.00
18-980451	**PSS-0020**	0.55	2.00
18-980476	**PSS-0050**	0.55	2.00



Deep Base

Shallow Base

Deep Base Shallow Base

Klaxon Sounders
Electronic
Sonos Series

Sonos Series are general purpose AC electronic sounders for industrial applications.

Sonos AC sounders have an IP65 rating and are suitable for both indoor and outdoor applications.

Sonos sounder units are available in either red or white.

Features and Specifications

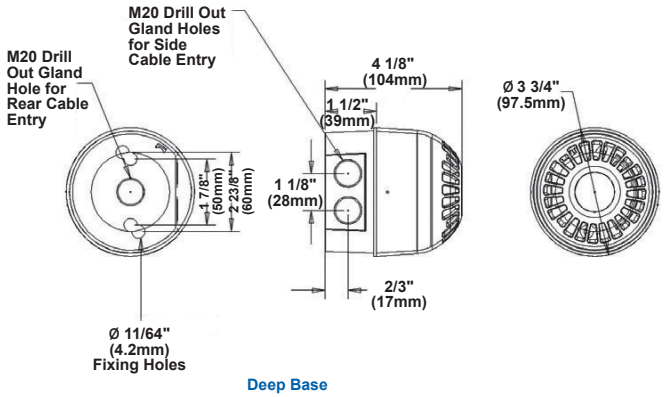
- Dual Voltage 110V AC or 230V AC
- Synchronized alarm tones
- Volume control - 20dB
- Polycarbonate construction
- IP65 rated housing
- Operating temperature range: -8ºF to 131ºF (-25ºC to 55ºC)

Ordering Information

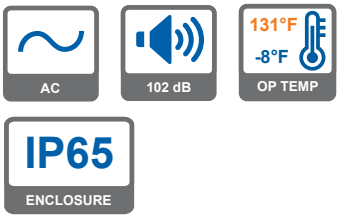
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Color	dB at 1m/10ft.	Tones
Deep Base	**18-980480**	**PSS-0060**	110-230V AC	0.080 A	Red	Up to 102/92	32
	18-980481	**PSS-0063**	110-230V AC	0.080 A	White	Up to 102/92	32

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980480	**PSS-0060**	0.55	1.50
18-980481	**PSS-0063**	0.55	1.50



Deep Base



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Klaxon Sounders
Electronic
Sonos Series

The compact Sonos Series Sounder is suited for alarm applications in areas where an unobtrusive sounder is desirable.

With a choice of 10 tones, compact sounders are available in either red or white.

Features and Specifications

- Flush mount sounder
- 10 distinct alarm tones
- Volume control
- ABS construction
- Operating temperature range:14ºF to 131ºF (-10ºC to 55ºC)

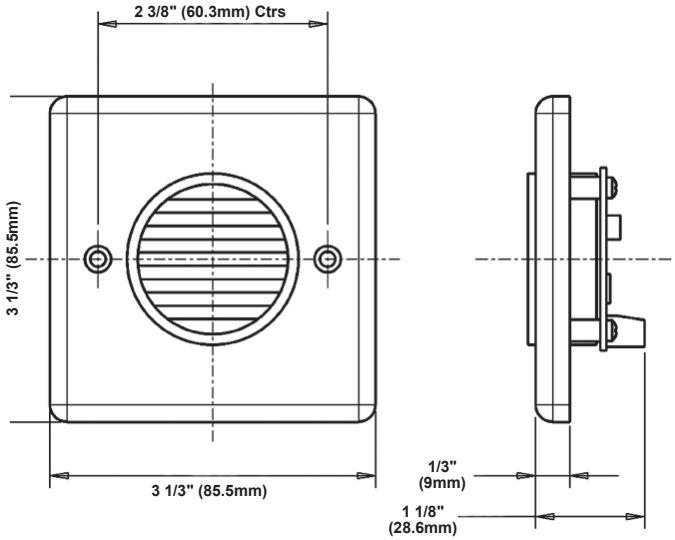
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current (Tone dependent)	Color	dB at 1m/10ft.	Tones[1]
Compact Sounder	**18-980455**	**PSS-0033**	10-30V DC	0.007-0.011 A	Red	Up to 90/80	10
	18-980456	**PSS-0035**	10-30V DC	0.007-0.011 A	White	Up to 90/80	10

[1]Tones 1-9 and tone 13 from the standard 32 tone list

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980455	**PSS-0033**	0.13	0.50
18-980456	**PSS-0035**	0.13	0.50



Klaxon Sounders
Electronic
Nexus Series

The Nexus Series is a high output sounder designed for industrial applications.

Connections are made to the base during the initial wiring phase which results in faster and more reliable installation. In addition, the head is fixed by quarter turn fasteners enabling faster installation and accurate seal compression for outdoor applications.

Features and Specifications

- Three alarm stages
- Volume control for greater flexibility - 20dB
- 64 tones
- IP66 rated
- Compliance to EN54-3 Type B
- Operating temperature range: -13ºF to 158ºF (-25ºC to 70ºC)

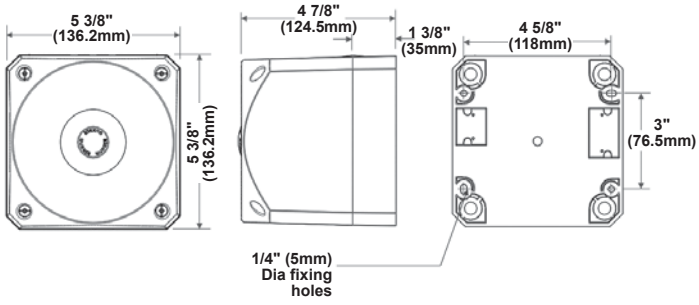
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Color	dB at 1m/10ft.
Nexus 105	**18-980542**	**PNS-0001**	10-60V DC	0.008-0.040 A	Red	105/95
Nexus 110	**18-980554**	**PNC-0002**	10-60V DC	0.010-0.050 A	Red	110/100
Nexus 120	**18-980545**	**PNS-0005**	10-60V DC	0.120-0.550 A	Red	120/110

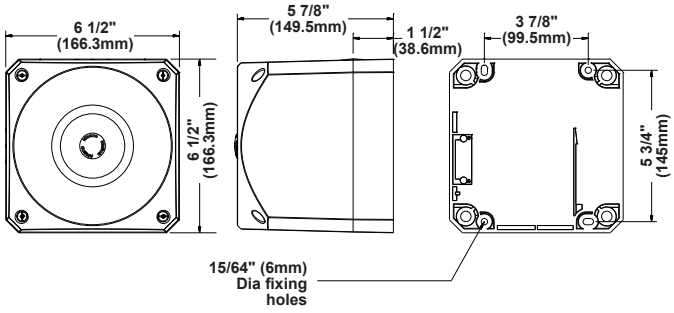
Weights and Dimensions

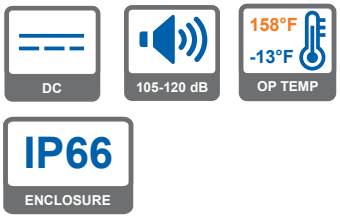
Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980542	**PNS-0001**	1.50	2.00
18-980554	**PNC-0002**	2.40	3.00
18-980545	**PNS-0005**	4.00	5.00

105dB Sounder



110dB and 120dB Sounders





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Klaxon Sounders
Electronic
Nexus Series

The Nexus Series is a high output sounders designed for industrial applications.

They feature first-fix, wire-to-base technology for fast and reliable installation. Nexus Sounders are IP66-rated and are suitable for outdoor applications.

Features and Specifications

- Three alarm stages (110dB and 120dB variants
- Volume control for greater flexibility - 20dB
- 64 tones
- IP66 rated
- Compliance to EN54-3 Type B
- Operating temperature range: -13ºF to 158ºF (-25ºC to 55ºC)

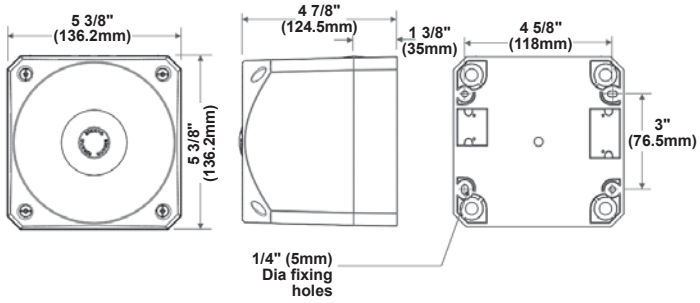
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	dB at 1m/10ft.
Nexus 110	**18-980605**	**PNS-0020**	24-48V AC	0.010-0.050 A	Up to 116/106
Nexus 105	**18-980548**	**PNS-0009**	110-230V AC	0.040 A (max)	Up to 113/103
Nexus 110	**18-980557**	**PNS-0018**	110-230V AC	0.040 A (max)	Up to 116/106
Nexus 120	**18-980551**	**PNS-0011**	110-230V AC	0.200 A (max)	Up to 120/110

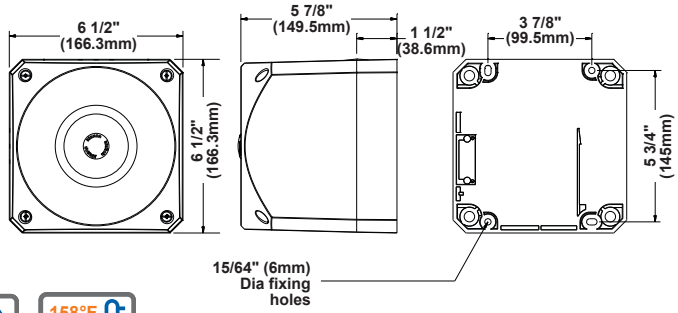
Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980605	**PNS-0020**	2.40	3.00
18-980548	**PNS-0009**	1.50	2.00
18-980557	**PNS-0018**	2.40	3.00
18-980551	**PNS-0011**	4.00	5.00

18-980548



18-980557
18-980605
18-980551



Klaxon Sounders
Electronic
Nexus Series

Nexus voice sounders combine normal sounder signals with a clear, synchronized voice message to help reduce confusion and distress during an active alarm.

Standard units are available with up to 7 pre-programmed messages. Alternative messages can be selected from an extensive message library covering almost any conceivable application. Customized messages are also available on request.

All Nexus voice sounders have a USB port that allows special messages in WAV format to be downloaded onto the sounder from any PC, providing users with the flexibility of adding/removing messages in-field.

Features and Specifications

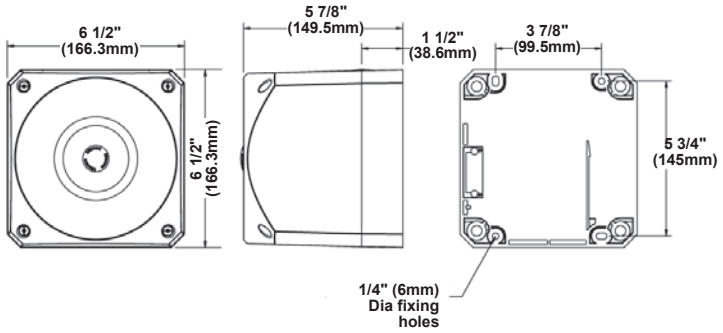
- Choice of up to 7 messages via three volt free contacts
- Extensive message library or bespoke messages available
- Download messages in-field via built in USB port
- Max 116dB tone @ 1m (106dB @ 10ft.) and 90dB @ 1m (80dB @ 10ft.) message outputs
- Automatic synchronization
- IP66 rated for outdoor environments
- Volume control - 20dB
- Operating temperature range: -13ºF to 158ºF (-25ºC to 70ºC)

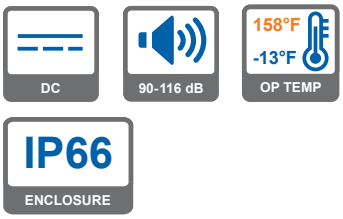
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	dB at 1m/10ft.	Tones	Messages
Sounder Only	**18-980726**	**PNV-0001**	24V DC	0.030 A	116/106	Up to 64	7

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980726	**PNV-0001**	1.10	1.50





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Horns
Vibrating
870 Series

The 870 Series vibrating horns are low-current, high decibel, for heavy-duty use and are UL listed to NEMA 4X, NEMA 12 and NEMA 12K enclosure requirements. The die-cast box is suitable for outdoor use and has a durable, corrosion-resistant, electrostatic heat flowed
powder epoxy gray finish. They may be used for indoor and outdoor applications.

Horn mounts on 3/4" NPT conduit or to any flat surface. Knockouts are located on the bottom and rear of the unit.

Features

- Convenient plug-in assembly
- Corrosion resistant finish
- Volume adjustable
- Completely assembled
- NEMA 4X, NEMA 12 and NEMA 12K rated enclosure
- Operating range: -20% to +10% of nominal volt

876 AC

- Adjustable output: 88 to 113dB @ 1m (78 to 103dB @ 10ft.)

877 DC

- Adjustable output: 88 to 111dB @ 1m (78 to 101dB @ 10ft.)

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	VA	dB at 1m/10ft.[1]	DC Coil Res (Ohms)
AC	**876-E5**	12V AC	1.25 A	15	113/103	1.5
	876-G5	24V AC	0.63 A	15.1	113/103	5.2
	876-N5[3]	120V AC	0.13 A	15.6	113/103	150
	876-R5	240V AC	0.07 A	16.8	113/103	580
DC Horn	**877-E1**	12V DC	0.27 A	3.2	111/101	6
	877-G1	24V DC	0.16 A	3.8	111/101	24
	877-J1	32V DC	0.13 A	4.2	111/101	40
	877-K1	48V DC	0.07 A	3.5	111/101	96
	877-P1	125V DC	0.025 A	3.1	111/101	600

[1]Measured in an anechoic chamber.
[2]AC voltage frequency is 50/60 Hz.
[3]Diode Polarized version available in red, order **886D-N5**.

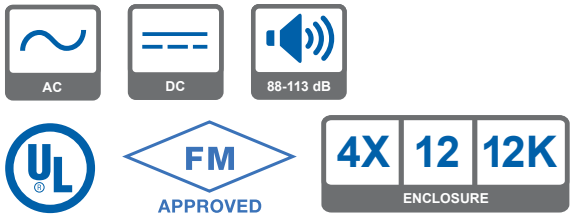
Accessories

Description	Cat. No.
Plastic Projector	**872-PO**

Signal Input Load Characteristics

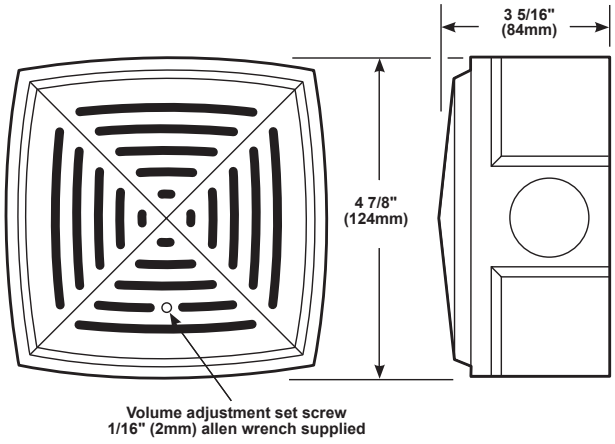
These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Seconds
876-N5	120V AC	0.025	0.120	1.02/.000026
877-G1	24V DC	0.025	0.150	1.7/.000042



Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
876-E5	3.20	3.40
876-G5	3.20	3.40
876-N5	3.20	3.40
876-R5	3.20	3.40
877-E1	3.20	3.40
877-G1	3.20	3.40
877-J1	3.20	3.40
877-K1	3.20	3.40
877-P1	3.20	3.40
872-PO	0.34	0.58



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Horns
Vibrating
870 Series

The 870 Series flush mount vibrating horns are low-current, high decibel for heavy-duty indoor use. Designed for wall or panel installation and projects less than 1" (25mm) from the mounting surface. A trim plate is included and a back box is required.

Features and Specifications

- Corrosion resistant finish
- Volume adjustable
- Completely assembled
- Heavy duty die-cast housing
- Operating voltage range: -20% to +10% of nominal voltage

870 AC

- Adjustable output: 88 to 113dB @ 1m (78 to 103dB @ 10ft.)

871 DC

- Adjustable output: 88 to 101dB @ 1m (78 to 91dB @ 10ft.)

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	VA	dB at 1m/10ft.[1]	DC Coil Res (Ohms)
Flush Mount AC	**870-G5**	24V AC	0.63 A	15.1	113/103	5.2
	870-N5[3]	120V AC	0.13 A	15.6	113/103	150
	870-R5	240V AC	0.07 A	16.8	113/103	580
Flush Mount DC	**871-E1**	12V DC	0.27 A	3.2	111/101	6.0
	871-G1	24V DC	0.16 A	3.8	111/101	24
	871-K1	48V DC	0.07 A	3.4	111/101	96
	871-P1	125V DC	0.025 A	3.1	111/101	600
	871-S1	250V DC	0.014 A	3.5	111/101	2640

[1]dB rating measured in anechoic chamber.
[2]AC voltage frequency is 50/60 Hz.
[3]Diode Polarized version available in red, order **880D-N5**.

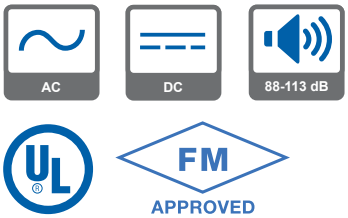
Accessories

Description	Cat. No.
Wall Box	**870-B**
Plastic Projector	**872-PO**

Signal Input Load Characteristics

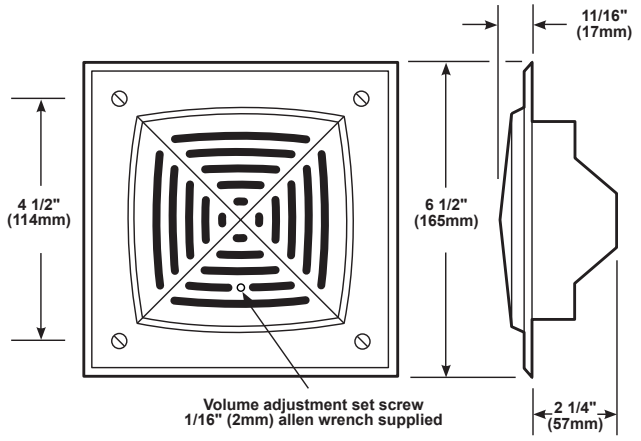
These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Seconds
870-N5	120V AC @ 60 Hz	0.025	0.120	1.02/.000026
871-G1	24V DC	0.025	0.150	1.7/.000042



Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
870-G5	2.06	2.30
870-N5	2.06	2.30
870-R5	2.06	2.30
871-E1	2.06	2.30
871-G1	2.06	2.30
871-K1	2.06	2.30
871-P1	2.06	2.30
871-S1	2.06	2.30
870-B	1.26	1.28
872-PO	0.34	0.58



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EDWARDS
www.edwardssignaling.com

Horns
Vibrating
870 Series

The 870 Series panel mount vibrating horns are low current, high decibel for heavy-duty use. They come complete with gasket and are UL listed to NEMA 4X, NEMA 12 and NEMA 12K enclosure requirements.

Designed for semi-flush panel mounting, using supplied mounting template, or installation on a 4" square box. For NEMA 4X installation, mount to a NEMA 4X enclosure using the supplied gasket.

Features and Specifications

- Corrosion resistant finish
- Volume adjustable
- Completely assembled
- Heavy duty die-cast housing
- NEMA Type 4X, NEMA Type 12 and Type 12K Rated
- Operating range: -20% to +10% of nominal voltage

870P AC

- Adjustable output: 88 to 113dB @ 1m (78 to 103dB @ 10ft.)

871P DC

- Adjustable output: 88 to 101dB @ 1m (78 to 91dB @ 10ft.)

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	VA	dB at 1m/10ft.[1]	DC Coil Res (Ohms)
Panel Mount, AC	**870P-E5**	12V AC	1.25 A	15.0	113/103	1.5
	870P-G5	24V AC	0.63 A	15.1	113/103	5.2
	870P-N5	120V AC	0.13 A	15.6	113/103	150
	870P-R5	240V AC	0.07 A	16.8	113/103	580
Panel Mount, DC	**871P-C1**	6V DC	0.7 A	4.2	101/91	1.4
	871P-E1	12V DC	0.27 A	3.2	101/91	6
	871P-G1	24V DC	0.16 A	3.8	101/91	24
	871P-J1	32V DC	0.11 A	3.52	101/91	40
	871P-P1	125V DC	0.025 A	3.1	101/91	600
	871P-S1	250V DC	0.014 A	3.5	101/91	2640

[1]dB rating measured in anechoic chamber.
[2]AC voltage frequency is 50/60 Hz.

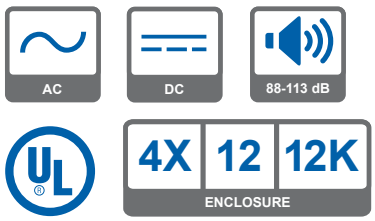
Accessories

Description	Cat. No.
Plastic Projector	**872-PO**

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

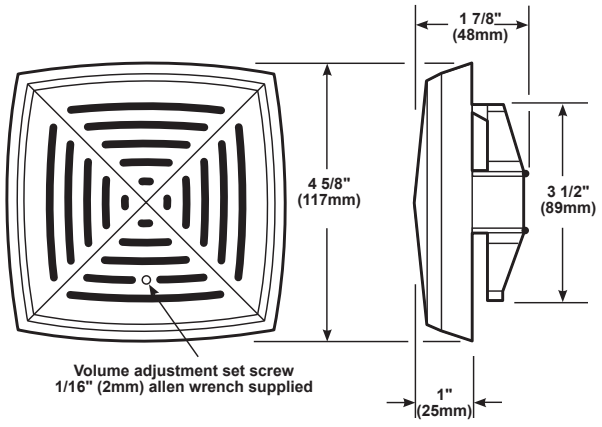
Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Seconds
870P-N5	120V AC	0.025	0.120	1.02/.000026
871P-G1	24V DC	0.025	0.150	1.7/.000042



Horns
Vibrating
870 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
870P-E5	1.80	2.05
870P-G5	1.80	2.05
870P-N5	1.80	2.05
870P-R5	1.80	2.05
871P-C1	1.80	2.05
871P-E1	1.80	2.05
871P-G1	1.80	2.05
871P-J1	1.80	2.05
871P-P1	1.80	2.05
871P-S1	1.80	2.05
872-PO	0.34	0.58



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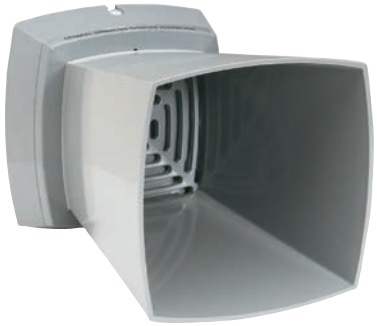
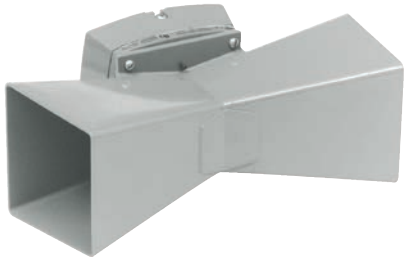
Horns
Vibrating
870 Series





The 870 Series projector vibrating horns are low-current, high decibel single and double horns for heavy-duty, indoor use. The single projector is designed to channel sound in one direction without decibel loss. The double projectors are designed for bi-directional signaling without decibel loss. Supplied complete with mounting plate for easy installation.

Features and Specifications

- Corrosion resistant finish
- Volume adjustable
- Completely assembled
- Heavy duty die-cast housing
- Operating range: -20% to +10% of nominal voltage

872 AC and 872DPO AC

- Adjustable output: 88 to 113dB @ 1m (78 to 103dB @ 10ft.) **(872 AC)**
- Adjustable output: 88 to 111dB @ 1m (78 to 101dB @ 10ft.) **(872DPO AC)**
- FM Approved

873 DC and 873DPO DC

- Adjustable output: 88 to 101dB @ 1m (78 to 91dB @ 10ft.) **(873 DC)**
- Adjustable output: 88 to 99dB @ 1m (78 to 89dB @ 10ft.) **(873DPO DC)**

Ordering Information

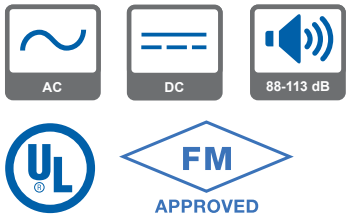
Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.[1]	DC Coil Res (Ohms)
Single Projector, AC	**872-G5**	24V AC	0.63 A	15.1	113/103	5.2
	872-N5[2]	120V AC	0.13 A	15.6	113/103	150
	872-R5	240V AC	0.07 A	16.8	113/103	580
Single Projector, DC	**873-G1**	24V DC	0.16 A	3.8	101/91	24
	873-P1	125V DC	0.025 A	3.1	101/91	600
	873-S1	250V DC	0.014 A	3.5	101/91	2640
Double Projector, AC	**872DPO-G5**	24V AC	0.63 A	15.1	111/101	5.2
	872DPO-N5	120V AC	0.13 A	15.6	111/101	150
	872DPO-R5	240V AC	0.07 A	16.8	111/101	580
Double Projector, DC	**873DPO-G1**	24V DC	0.16 A	3.8	99/89	24
	873DPO-P1	125V DC	0.025 A	3.1	99/89	600
	873DPO-S1	250V DC	0.014 A	3.5	99/89	2640

[1] Measured in an anechoic chamber.
[2] Diode Polarized version available in red, order **882D-N5**.

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Seconds
872-N5	120V AC	0.025	0.120	1.02/.000026
873-G1	24V DC	0.025	0.150	1.7/.000042
872DPO-N5	120V AC	0.025	0.120	1.02/.000026
873DPO-G1	24V DC	0.025	0.150	1.7/.000042

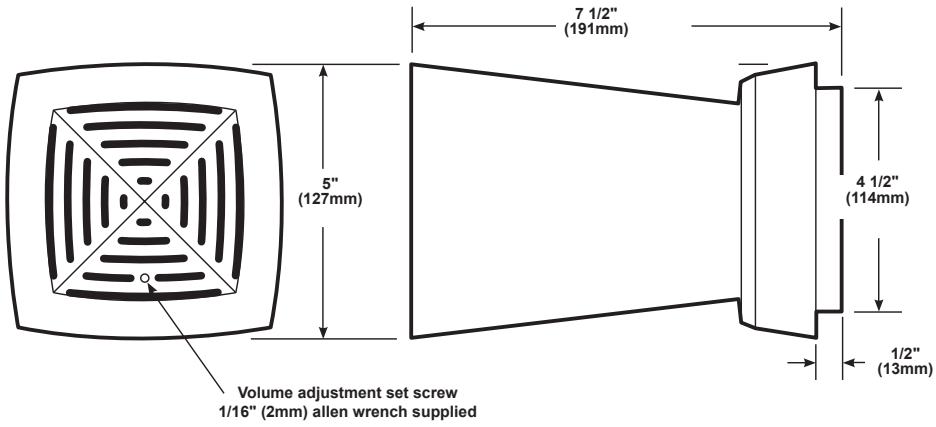


Horns
Vibrating
870 Series

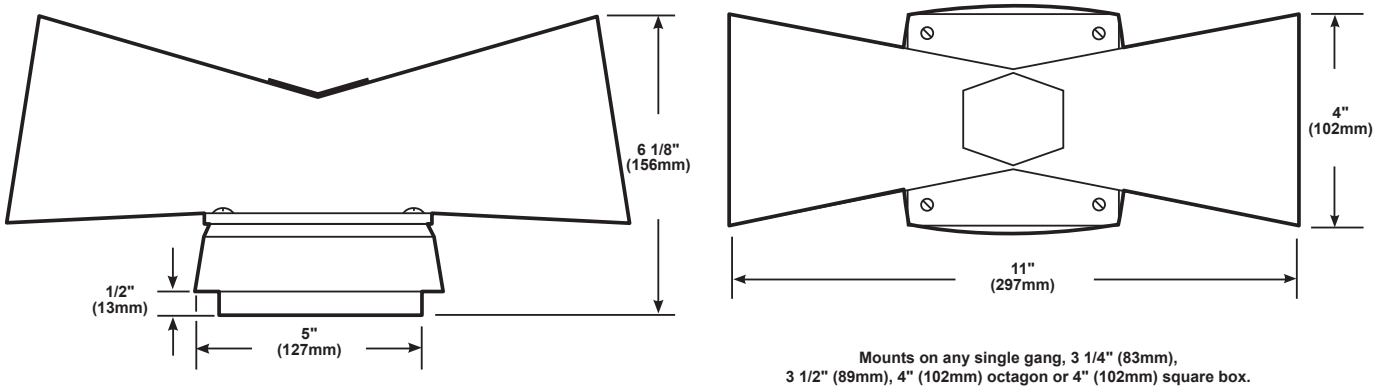
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
872-G5	2.90	3.24
872-N5	2.90	3.24
872-R5	2.90	3.24
873-G1	2.99	2.80
873-P1	2.99	2.80
873-S1	2.99	2.80
872DPO-G5	4.10	5.00
872DPO-N5	4.10	5.00
872DPO-R5	4.10	5.00
873DPO-G1	4.10	5.00
873DPO-P1	4.10	5.00
873DPO-S1	4.10	5.00

872 and 873 Series



872DPO and 873DPO Series



Mounts on any single gang, 3 1/4" (83mm),
3 1/2" (89mm), 4" (102mm) octagon or 4" (102mm) square box.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Horns
Vibrating
870 Series

The 870 Series surface mount vibrating horns are low-current, high decibel horns for heavy-duty indoor use. Supplied complete with mounting plate for easy installation.

Features and Specifications

- Corrosion resistant finish
- Volume adjustable
- Completely assembled
- Heavy duty die-cast housing
- Operating range: -20% to +10% of nominal voltage
- Projects only 2" (51mm) from mounting surface

874 AC

- Adjustable output: 88 to 113dB @ 1m (78 to 103dB @ 10ft.)
- 400 hour rating at 50% duty cycle
- FM Approved

875 DC

- Adjustable output: 88 to 111dB @ 1m (78 to 101dB @ 10ft.)

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	VA	dB at 1m/10ft.[1]	DC Coil Res (Ohms)
Surface Mount, AC	**874-E5**	12V AC	1.25 A	15.0	113/103	1.5
	874-G5	24V AC	0.63 A	15.1	113/103	5.2
	874-N5[3]	120V AC	0.13 A	15.6	113/103	150
	874-R5	240V AC	0.06 A	14.4	113/103	580
Surface Mount, DC	**875-C1**	6V DC	0.70 A	4.2	111/101	1.6
	875-E1	12V DC	0.27 A	3.2	111/101	6
	875-G1	24V DC	0.16 A	3.8	111/101	24
	875-P1	125V DC	0.025 A	3.1	111/101	600
	875-S1	250V DC	0.014 A	3.5	111/101	2640

[1]Measured in anechoic chamber.
[2]AC voltage frequency is 50/60 Hz.
[3]Diode Polarized version available in red, order **884D-N5**.

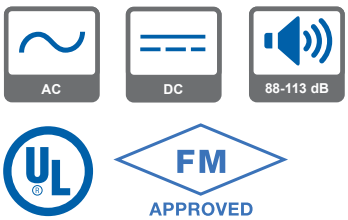
Accessories

Description	Cat. No.
Plastic Projector	**872-PO**

Signal Input Load Characteristics

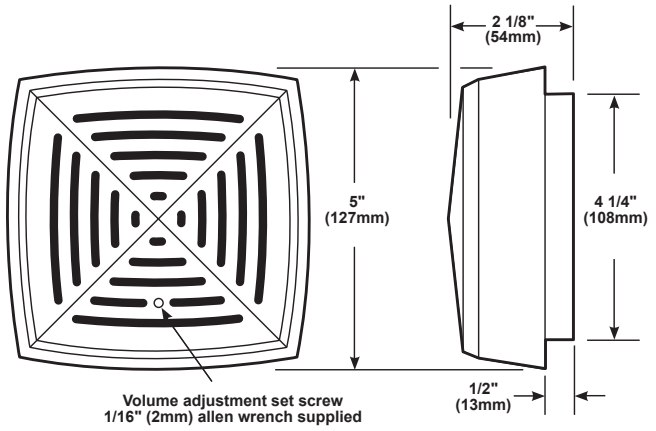
These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Seconds
874-N5	120V AC	0.025	0.120	1.02/.000026
875-G1	24V DC	0.025	0.150	1.7/.000042



Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
874-E5	2.60	2.82
874-G5	2.60	2.82
874-N5	2.60	2.82
874-R5	2.60	2.82
875-C1	2.60	2.82
875-E1	2.60	2.82
875-G1	2.60	2.82
875-P1	2.60	2.82
875-S1	2.60	2.82
872-PO	0.34	0.58



Mounts on any single gang, 3 1/4" (83mm),
3 1/2" (89mm), 4" (102mm) octagon or 4" (102mm) square box.

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Horns
Vibrating
870EX Series

The 870EX Series vibrating horns are heavy-duty, explosion-proof, high decibel horns designed for use in hazardous locations.

Diode polarized versions are also available. They are intended for use in hazardous locations requiring electrical supervision of signaling circuit field wiring. May also be used for unsupervised signaling applications.

Two mounting brackets are provided on either side of the unit for wall mounting. The housing is tapped on one side for 3/4" conduit to allow for field wiring installation.

Features and Specifications

- Corrosion resistant heat flowed epoxy finish
- Low current drain
- Operating voltage range -20% to +10% of nominal voltage
- Power connection wires embedded in sealing compound
- Not recommended for temperatures below 25°F (-3.9°C)
- Diode Polarized versions
- NEMA Type 4X rated
- UL listed for Class I, Div. 1 and 2, Groups B, C and D; Class II, Div. 1 and 2, Groups E, F and G; and Class III locations

Ordering Information

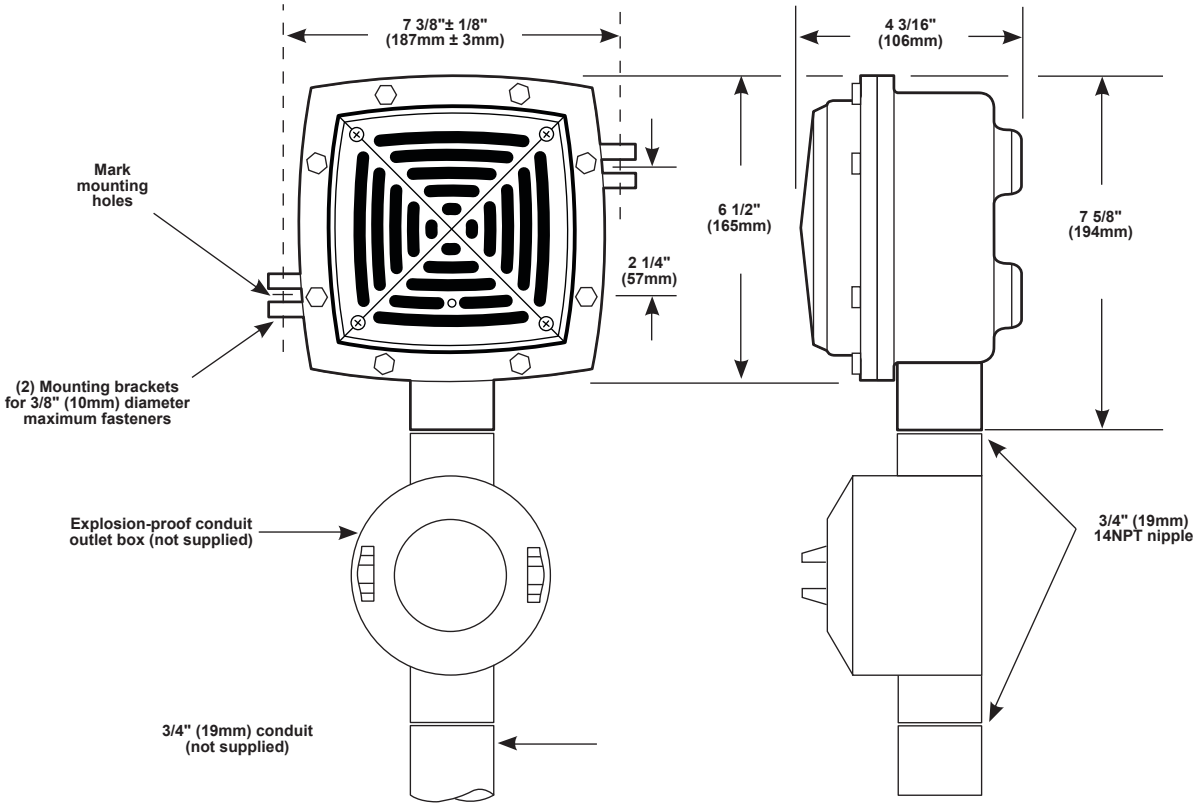
Description	Cat. No.	Operating Voltage[2]	Current	VA	Average dB at 1m/10ft.[1]	DC Coil Res (Ohms)
AC	**878EX-E5**	12V AC	1.25 A	15	110/100	1.45
	878EX-G5	24V AC	0.625 A	15	110/100	5.2
	878EX-N5	120V AC	0.13 A	15	110/100	150.0
	878EX-R5	240V AC	0.065 A	15.6	110/100	580.0
DC	**879EX-C1**	6V DC	0.70 A	4.2	107/97	1.4
	879EX-E1	12V DC	0.27 A	3.2	107/97	6.0
	879EX-G1	24V DC	0.16 A	3.8	107/97	24.0
	879EXP-G1[3]	24V DC	0.16 A	3.8	107/97	24.0
	879EX-J1	32V DC	0.13 A	3.2	107/97	40.0
	879EX-K1	48V DC	0.07 A	3.4	107/97	96.0
	879EX-P1	125V DC	0.025 A	3.1	107/97	600.0
AC, Diode Polarized	**878DEX-N5**	120V AC	0.165 A	19.8	110/100	150.0
DC, Diode Polarized	**879DEX-G1**[4]	24V DC	0.16 A	3.8	107/97	20.0

[1]Measured in an anechoic chamber.
[2]AC voltage frequency is 50/60 Hz.
[3]ATEX approved.
[4]Diode Polarized version available in red, order **889D-AW**.

Horns
Vibrating
870EX Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
878EX-E5	7.10	8.38
878EX-G5	7.10	8.38
878EX-N5	7.10	8.38
878EX-R5	7.10	8.38
879EX-C1	7.10	8.38
879EX-E1	7.10	8.38
879EX-G1	7.10	8.38
879EXP-G1	7.10	8.38
879EX-J1	7.10	8.38
879EX-K1	7.10	8.38
879EX-P1	7.10	8.38
878DEX-N5	7.10	8.38
879DEX-G1	7.10	8.38



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Horns
Vibrating
870EX Series

The Edwards 870EX Series are diode polarized, heavy-duty, high decibel, vibrating horns. They are intended for use in hazardous locations requiring electrical supervision of signaling circuit field wiring, including fire alarm systems. May also be used for unsupervised signaling applications.

Two mounting brackets are provided on either side of the unit for wall mounting.

Features and Specifications

- Diode polarized
- Red corrosion resistant heat flowed epoxy finish
- Low current drain
- Operating voltage range -20% to +10% of nominal voltage
- Not recommended for temperatures below 25°F (-3.9°C)
- Power connection wires embedded in sealing compound
- UL listed for Class 1, Div. 1 and 2, Groups B, C and D; Class II, Div. 1 and 2, Groups E, F and G; Class III locations

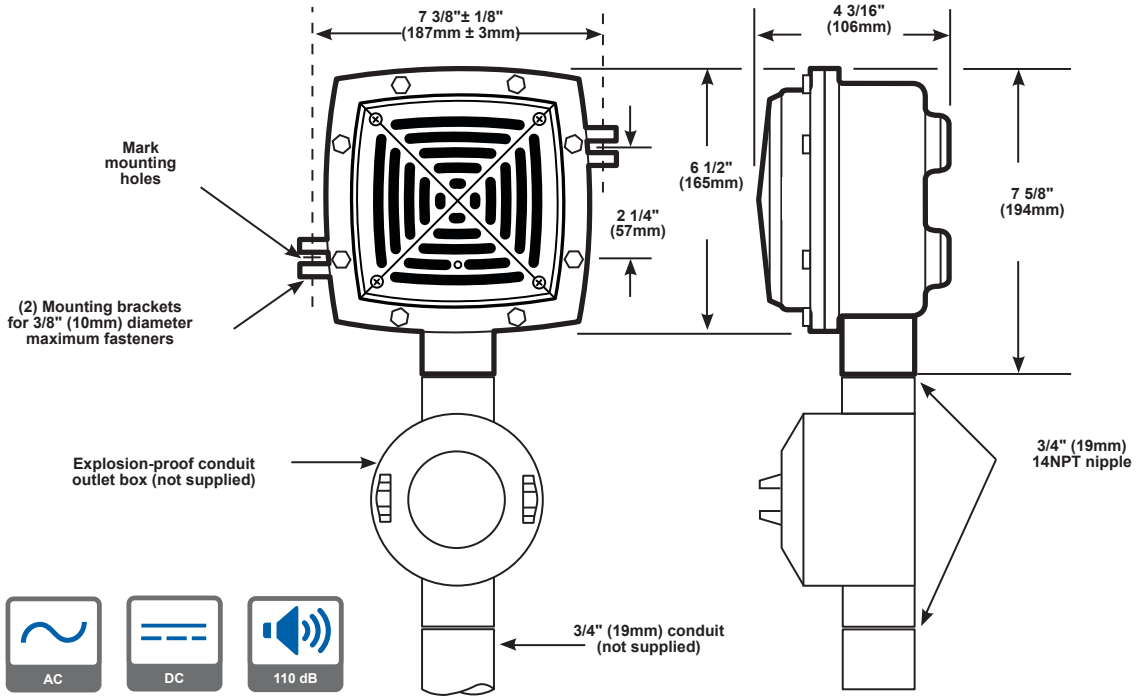
Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	Average dB at 1m/10ft.[1]	DC Coil Res (Ohms)
Hazardous Location, Horn	**888D-N5**	120V AC	0.165 A	19.8	100/90	150.0
Diode Polarized	**889D-AW**	20-24V DC	0.16 A	3.8	94/84	20.0

[1]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
888D-N5	7.50	8.60
889D-AW	7.50	8.60



Horns
Vibrating
870EX2 Series

NEW
Coming Soon

The 870EX2 Series are heavy-duty, high decibel, Class 1, Div. 2 vibrating horns designed for use in indoor or outdoor hazardous locations.

Diode polarized versions are also available. They are intended for use in hazardous locations requiring electrical supervision of signaling circuit field wiring. May also be used for unsupervised signaling applications.

Two mounting brackets are provided on either side of the unit for wall mounting. The housing is tapped on one side for 3/4" conduit to allow for field wiring installation.

Features and Specifications

- Corrosion resistant heat flowed epoxy finish
- Suitable for use in indoor or outdoor hazardous locations
- 100-107dB @ 1m (90-97dB @ 10ft.)
- Low current drain
- Operating voltage range -20% to +10% of nominal voltage
- Power connection wires embedded in sealing compound
- Diode Polarized versions
- NEMA Type 4X rated **(878DDIV2, 879DDIV2, 878DIV2, 879DIV2)**
- UL listed for Class I, Div. 2, Groups B, C and D; Class II, Groups F and G; and Class III locations
- Operating temperature range: 25ºF to 104ºF (-4ºC to 40ºC)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	Average dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**878DIV2-12A**	12V AC	1.25 A	15	107/97	1.45
	878DIV2-24A	24V AC	0.625 A	15	107/97	5.2
	878DIV2-120A	120V AC	0.13 A	15	107/97	150
	878DIV2-240A	240V AC	0.065 A	15	107/97	580
DC	**879DIV2-6D**	6V DC	0.7 A	4.2	107/97	1.4
	879DIV2-12D	12V DC	0.27 A	3.2	107/97	6
	879DIV2-24D	24V DC	0.16 A	3.8	107/97	24
	879DIV2-32D	32V DC	0.13 A	4.2	107/97	40
	879DIV2-48D	48V DC	0.07 A	3.4	107/97	96
	879DIV2-125D	125V DC	0.03 A	4.2	107/97	600
AC, Diode Polarized	**878DDIV2-120A**	120V AC	0.13 A	15	107/97	150
	888DDIV2-120A	120V AC	0.13 A	15	100/90[1]	150
DC, Diode Polarized	**889DDIV2-20-24D**	20-24V DC	0.16 A	3.8	100/90[1]	20
	879DDIV2-24D	24V DC	0.16 A	3.8	107/97	20

[1]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.

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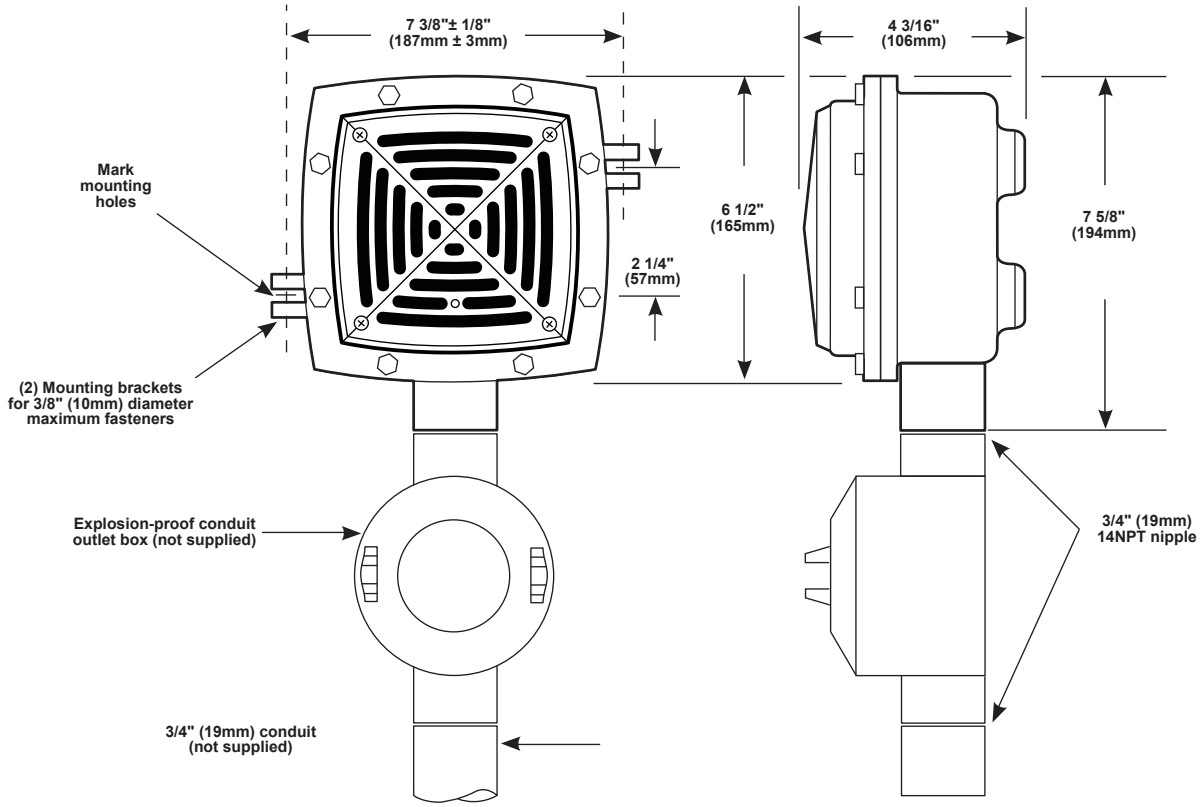
Horns
Vibrating
870EX2 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
878DIV2-12A	7.10	8.38
878DIV2-24A	7.10	8.38
878DIV2-120A	7.10	8.38
878DIV2-240A	7.10	8.38
879DIV2-6D	7.10	8.38
879DIV2-12D	7.10	8.38
879DIV2-24D	7.10	8.38
879DIV2-32D	7.10	8.38
879DIV2-48D	7.10	8.38
879DIV2-125D	7.10	8.38
878DDIV2-120A	7.10	8.38
888DDIV2-120A	7.10	8.38
889DDIV2-20X24D	7.10	8.38
879DDIV2-24D	7.10	8.38



Horns
Vibrating
118 and 123A Series

118 Series DC and 123A Series AC Midi Vibrating Horns are designed primarily for security systems and for signaling devices on an OEM basis. Supplied with mounting bracket and simply attaches to mounting surface using #8-32 screw.

Features and Specifications

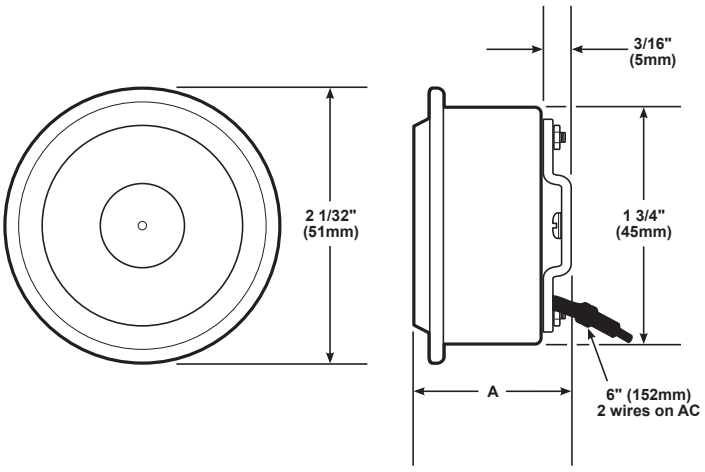
- Low power drain
- Compact size
- Shock resistant
- Easy surface mount installation
- Operating temperature range: -40°F to 180°F (-40°C to 82°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
DC	**118-E1**	12V DC	0.07 A	0.84	96/86	25.5
	118-G1	24V DC	0.03 A	0.72	96/86	102.0
AC 60 Hz	**123A-E5**	12V AC	0.4 A	4.8	96/86	10.0
	123A-G5	24V AC	0.2 A	4.8	96/86	40.0
	123A-N5	120V AC	0.04 A	4.8	96/86	1200.0

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions (A)
118-E1	0.19	0.25	1 11/64" (30mm)
118-G1	0.19	0.25	1 11/64" (30mm)
123A-E5	0.19	0.25	1 3/16" (30mm)
123A-G5	0.19	0.25	1 3/16" (30mm)
123A-N5	0.19	0.25	1 3/16" (30mm)



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Horns
Projector/Double Projector
B93 Class

The B93 Class are designed for use where a loud and distinctive signal is needed. The sound mechanism of the signal starts and stops instantly with current impulse. The projector is connected to the heavy duty die cast aluminum housing by a cast aluminum, threaded ring.

Two mounting lugs are provided on either side of the unit for wall mounting. The housing is tapped on one side for 1/2" (13mm) conduit to allow for field wiring installation.

Features and Specifications

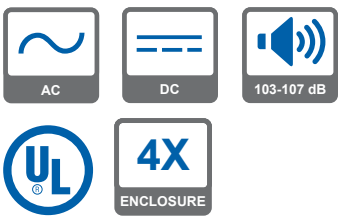
- Convenient plug-in assembly
- Corrosion resistant heat flowed epoxy finish
- Completely assembled
- Gasket sealed
- External volume control screw
- Heavy duty die cast aluminum
- 7" (178mm) seamless steel projector
- Vibrating diaphragm
- Tungsten contacts with arc suppressor **(B-8526 and B-8599)**
- NEMA Type 4X enclosure

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
Single Projector, AC	**B-N-8546-E5**	12V AC	1.6 A	19.2	107/97	3
	B-N-8546-G5	24V AC	1.1 A	26.4	107/97	5
	B-N-8546-N5	120V AC	0.2 A	24	107/97	146
	B-N-8546-R5	240V AC	0.1 A	24	107/97	750
Single Projector, DC	**B-8526-G1**	24V DC	1 A	24	105/95	1.5
	B-8526-P1	125V DC	0.2 A	25	105/95	103
	B-8526-S1	250V DC	0.1 A	25	105/95	600
Double Projector, AC	**B-N-8590-E5**	12V AC	1.6 A	19.2	105/95	3
	B-N-8590-G5	24V AC	1.1 A	26.4	105/95	5
	B-N-8590-N5	120V AC	0.2 A	24	105/95	146
Double Projector, DC	**B-8599-E1**	12V DC	1.5 A	18	103/93	3
	B-8599-G1	24V DC	1 A	24	103/93	21.5
	B-8599-P1	125V DC	0.2 A	25	103/93	103

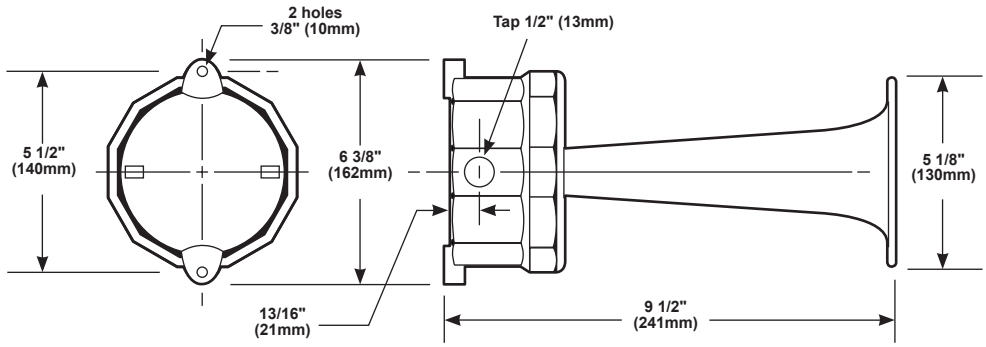
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-N-8546-E5	2.81	3.13
B-N-8546-G5	2.81	3.13
B-N-8546-N5	2.81	3.13
B-N-8546-R5	2.81	3.13
B-8526-G1	2.81	3.13
B-8526-P1	2.81	3.13
B-8526-S1	2.81	3.13
B-N-8590-E5	4.00	5.10
B-N-8590-G5	4.00	5.10
B-N-8590-N5	4.00	5.10
B-8599-E1	4.00	5.10
B-8599-G1	4.00	5.10
B-8599-P1	4.00	5.10

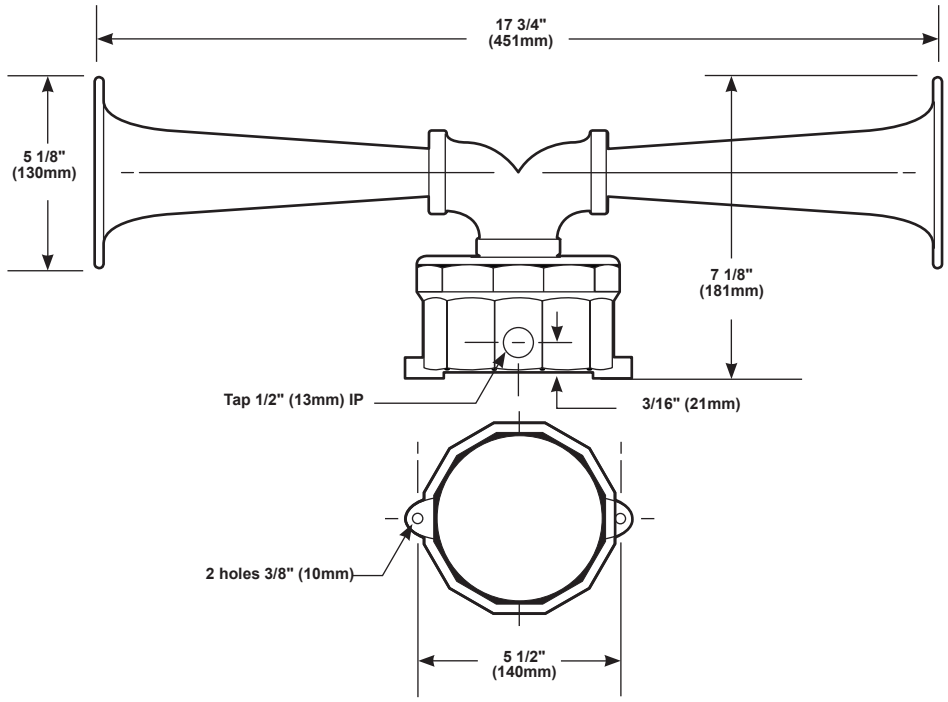


Horns
Projector/Double Projector
B93 Class

B-8526 and B-N-8546 Series



B-N-8590 and B-8599 Series



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Horns
Projector
B93 Class

The B-KM-8130 Series is a heavy-duty, high decibel, vibrating horn signal designed for use in hazardous locations.

Two mounting lugs are provided on either side of the unit for wall mounting. The housing is tapped on one side for 1/2" (13mm) conduit to allow for field wiring installation.

Features and Specifications

- Intermittent Duty Cycle: 5 minutes on/ 5 minutes off
- Corrosion resistant electrostatic heat flowed epoxy finish
- Cast aluminum housing and ring
- Seamless steel projector
- 5" (127mm) spring steel diaphragm
- 5 1/2" (140mm) projector
- UL listed for Class 1, Div. 1 and 2, Groups C and D; Class II Div. 1 and 2, Groups E, F and G; and Class 1, Groups A and B, Div. 2 locations

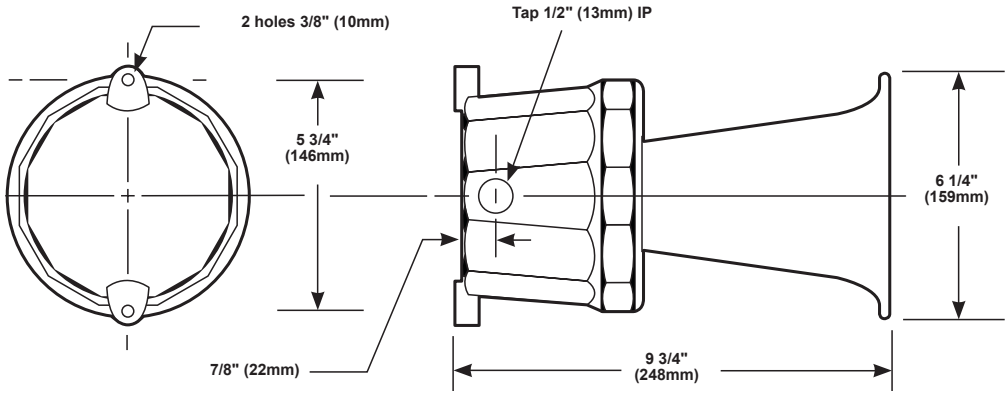
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	Coil Res (Ohms)
Single Projector	**B-KM-8130-G5**	24V AC	2 A	48	115/105	1
	B-KM-8130-N5	120V AC	0.45 A	54	115/105	24

[1]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KM-8130-G5	7.00	8.00
B-KM-8130-N5	7.00	8.00



Horns
Electronic
860 Series

The 860 Series are low current, high decibel, surface mount, flush or panel mount electronic horns for indoor use.

The 867 has been designed for surface mounting with the gray, corrosion resistant, surface mount box supplied with the unit. The 869 and 869D Series are designed for flush or panel mounting. The 868 Series is a low current, high decibel, surface mount, electronic horn suitable for outdoor or indoor use. It has been designed for mounting with the back box supplied.

The 868 mounts, using the supplied gasket, to the gray, corrosion resistant surface box supplied with the unit.

Features and Specifications

- Diode polarized **(869D)**
- Low current draw
- High dB output
- Terminals for easy wiring
- May be used in outdoor applications by using with 869-WPB back box
- Complete with surface back box **(867)**
- Complete with gasket and surface back box **(868)**
- Gray flame resistant housing
- Engineered thermoplastic housing
- Operating voltage: -20% to +10% of nominal voltage
- Indoor Operating Environment: 93% relative humidity at 104ºF (40ºC); 32ºF to 120ºF (0ºC to 49ºC) variable ambient **(867, 869, 869D)**
- Outdoor Operating Environment: 98% relative humidity at 104ºF (40ºC); -31ºF to 150ºF (-35ºC to 66ºC) variable ambient **(868)**
- cUL listed **(869D only)**

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	dB at 1m/10ft.[1]
Surface Mount	**867-AQ**	24V AC	0.072 A	106/96
		24V DC	0.022 A	106/96
	867-N5	120V AC	0.024 A	106/96
Flush or Panel Mount	**869-AQ**	24V AC	0.072 A	106/96
		24V DC	0.022 A	106/96
	869-N5	120V AC	0.024 A	106/96
Flush or Panel Mount, Diode Polarized	**869D-G1**	24V DC	0.020 A	112/102
		24V DC	0.040 A	112/102
Surface Mount, Suitable for Outdoor Applications	**868-AQ**	24V AC	0.060 A	106/96
		24V DC	0.020 A	106/96
	868-N5	120V AC	0.021 A	106/96

[1]Measured in an Anechoic chamber
[2]AC voltage frequency is 50/60 Hz.

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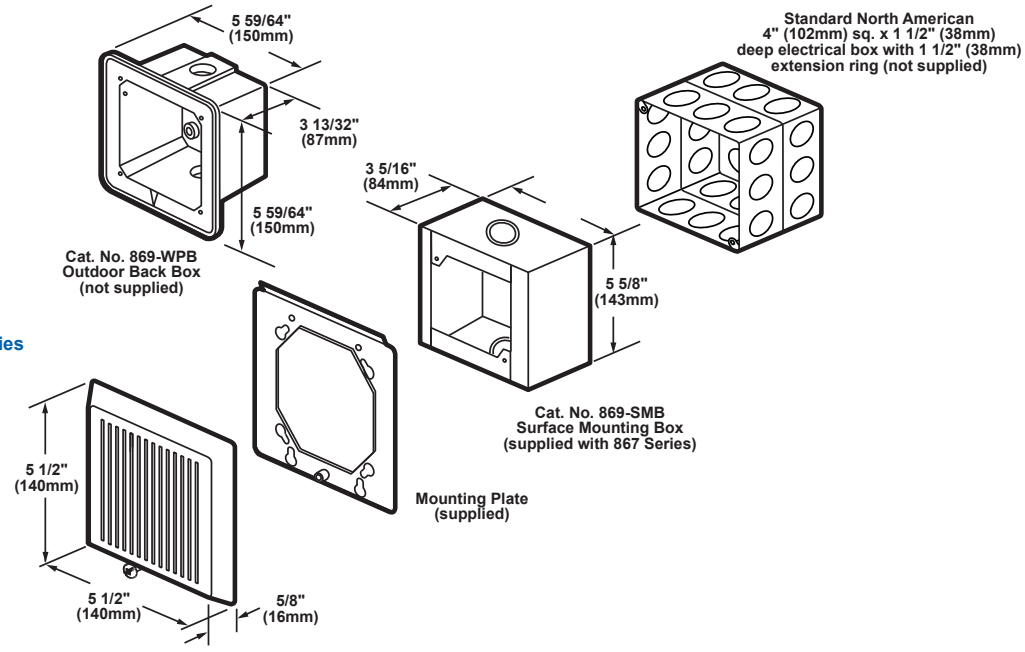
Horns
Electronic
860 Series

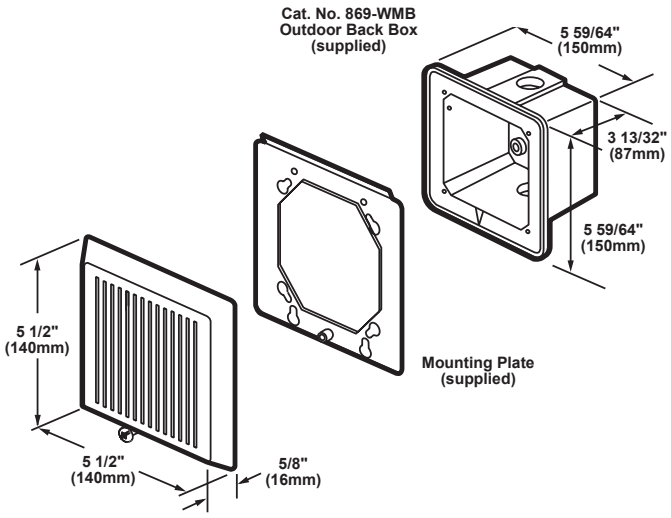
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
867-AQ	2.80	3.04
867-N5	2.80	3.04
869-AQ	2.80	3.04
869-N5	2.80	3.04
869D-G1	2.80	3.04
868-AQ	2.80	3.04
868-N5	2.80	3.04

867, 869 and 869D Series



868 Series



Horns
Electronic
Titan Class

The Titan Class are low current, high performance, high decibel audible signals designed for hazardous locations. They can be mounted on any surface using three bolts. Flying leads allow for quick installation.

The 5522MD is diode polarized and primarily intended for use in hazardous location applications requiring electrical supervision of signaling circuit field wiring. These signals may also be used for unsupervised signaling applications.

Features and Specifications

- Corrosion resistant electrostatic heat flowed powder epoxy gray finish
- Fitted with factory sealed 1/2" (13mm) threaded pipe nipple for quick installation
- Diode polarized versions for supervised circuits
- Speaker swivels 180° vertically or horizontally depending on orientation of mounting bracket **(5522MD-AW)**
- 30" (762mm) wire leads
- Horn frequency - 982 Hz
- UL listed for Class I, Div. 1 and 2, Groups B, C and D

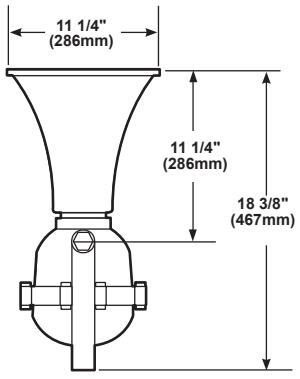
Ordering Information

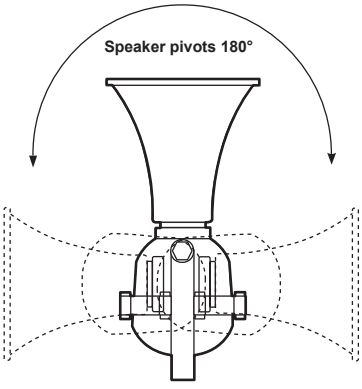
Description	Cat. No.	Operating Voltage[1]	Current	dB at 1m/10ft.
Horn	**5522M-AQ**	24V DC	0.25 A	119/109
		24V AC	0.95 A	
	5522M-Y6	120-240V AC	0.260 A	119/109
		125-250V DC	0.130 A	
Horn, Diode Polarized	**5522MD-AW**	24V DC	0.950 A	119/109

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5522M-AQ	16.50	23.50
5522M-Y6	16.50	23.50
5522MD-AW	16.50	23.50





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Horns
Motor Driven
Klaxet Series

The Klaxet is a motor driven horn with the unique 'Klaxon' sound. The high output, changing frequency note delivers a powerful warning tone which can be heard above background noise in industrial applications. The Klaxet is suitable for time signaling, process control alarms, telephone extension ringing and cranes. Manufactured with a cast iron housing, the Klaxet is suitable for outdoor applications.

Features and Specifications

- Powerful, high output
- 111dB @ 1m (101dB @ 10ft.)
- Cast iron construction
- IP54 rated
- Operating temperature range: -4ºF to 104ºF (-20ºC to 40ºC)

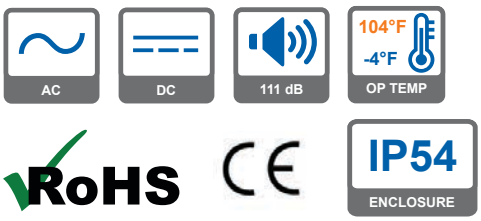
Photo Not Available

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Frequency	dB at 1m/10ft.
Motor Driven Horn	**KH1008**	115V AC	0.50 A	470 Hz	111/101
	KH1010	230V AC	0.33 A	470 Hz	111/101
	KH1000	12V DC	2.50 A	470 Hz	111/101
	KH1001	24V DC	1.00 A	470 Hz	111/101

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
			Length (in.)	Width (in.)	Diameter (in.)
KH1008	3.53	4.00	10 5/8	4 3/8	3 1/4
KH1010	3.53	4.00	10 5/8	4 3/8	3 1/4
KH1000	3.53	4.00	10 5/8	4 3/8	3 1/4
KH1001	3.53	4.00	10 5/8	4 3/8	3 1/4



Horns
Motor Driven
A1 Series

The A1 is a motor driven horn with the unique 'Klaxon' sound. The high output, low frequency resonating sound provides a powerful warning tone. With a sound output of 120dB, it is ideal for use as a time signaling alarm or process alarm in a factory environment. In addition, the A1 is suitable for use in marine applications.

Features and Specifications

- Powerful, high output
- Rated for 2 minutes on, 5 minutes off
- 120dB @ 1m (110dB @ 10ft.)
- IP65 rated
- Die cast aluminium, zinc and mild steel construction
- ABS plastic
- Suitable for outdoor and marine applications
- Operating temperature range: -31ºF to 150.8ºF (-35ºC to 66ºC)

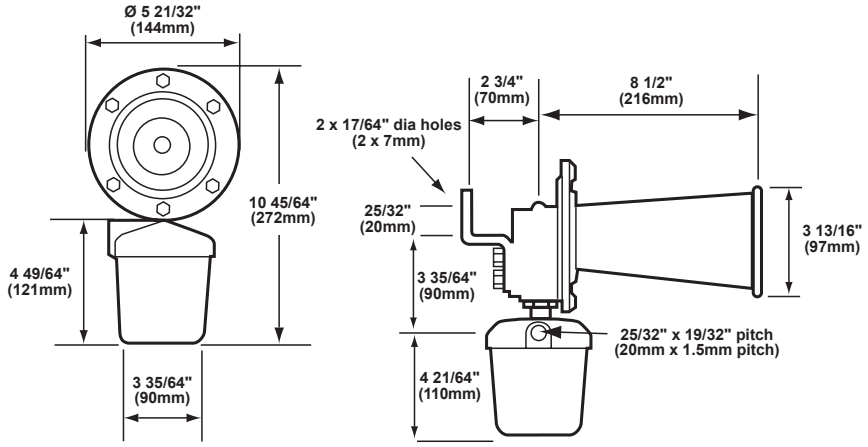
Ordering Information

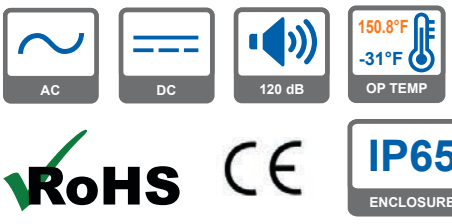
Description	Cat. No.	Operating Voltage[1]	Current	Frequency	dB at 1m/10ft.
Motor Driven Horn	**KH2004**	115V AC	0.84 A	420 Hz	120/110
	KH2006	230V AC	0.76 A	420 Hz	120/110
	KH2000	12V DC	5.0 A	420 Hz	120/110
	KH2001	24V DC	2.30 A	420 Hz	120/110

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
KH2004	4.41	5.00
KH2006	4.41	5.00
KH2000	4.41	5.00
KH2001	4.41	5.00





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EDWARDS
www.edwardssignaling.com

Horns
Manual Operation
ES Series

The ES is a manually operated horn producing the unique 'Klaxon' sound for applications where a power supply is unavailable. The ES features a low frequency tone, and is an effective warning device.

Features and Specifications

- Manual operation – no power supply required
- Lightweight and compact
- Mild steel housing
- IP54 rated

Ordering Information

Description	Cat. No.	Frequency	dB at 1m/10ft.
Manual Horn	**KH1290**	150-350 Hz	103/93

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
			Length (in.)	Width (in.)	Diameter (in.)
KH1290	2.65	3.00	5	4 7/8	6 3/4

103 dB

RoHS CE IP54 ENCLOSURE

Horns and Sirens
Electronic
D2 Class

Edwards D2 Class devices are low current, high performance, high decibel audible signals which may be coded from an external source or used as a continuous alarm. They are designed to function as either a horn or siren by setting an internal, tamper proof switch.

The 5520D is primarily intended for use in applications requiring electrical supervision of signaling circuit field wiring. These signals may also be used for unsupervised signaling applications.

Features and Specifications

- 124dB audible signal at 1m (114dB @ 10ft.)
- Suitable for outdoor applications using 349 Back Box
- Switchable horn or siren or horn models
- Easy mounting plate speeds installation
- Diode polorized for supervised circuits **(5520D)**
- Horn frequency of 1.1 KHz
- Siren frequency rises and falls from 600 to 1300 Hz every 3 seconds
- Speaker swivels 180° horizontally and 90° vertically

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.
Horn and Siren[1]	**5520-AS**	12V AC	1.3 A	15.6	124/114 (Horn) / 122/112 (Siren)
		12V DC	0.7 A	8.4	124/114 (Horn) / 122/112 (Siren)
	5520-AQ	24V AC	0.85 A	20.4	124/114 (Horn) / 122/112 (Siren)
		24V DC	0.35 A	8.4	124/114 (Horn) / 122/112 (Siren)
	5520-N5	120V AC	0.35 A	42	124/114 (Horn) / 122/112 (Siren)
	5520-P1	125V DC	0.1 A	12.5	124/114 (Horn) / 122/112 (Siren)
	5520-R5[3]	240V AC	0.1 A	24.0	124/114 (Horn) / 122/112 (Siren)
Horn and Siren, Diode Polarized[2]	**5520D-N5**	120V AC	0.35	42.0	124/114 (Horn) / 122/112 (Siren)
	5520D-AW	20-24V DC	0.35	8.4	124/114 (Horn) / 122/112 (Siren)
Horn Only	**5521-S1**	250V DC	0.065 A	16.3	124/114

[1]AC voltage frequency is 60 Hz.
[2]AC voltage frequency is 50/60 Hz.
[3]Uses separately mounted 598Y transformer (included).

Accessories

Description	Cat. No.
Back Box	**349**

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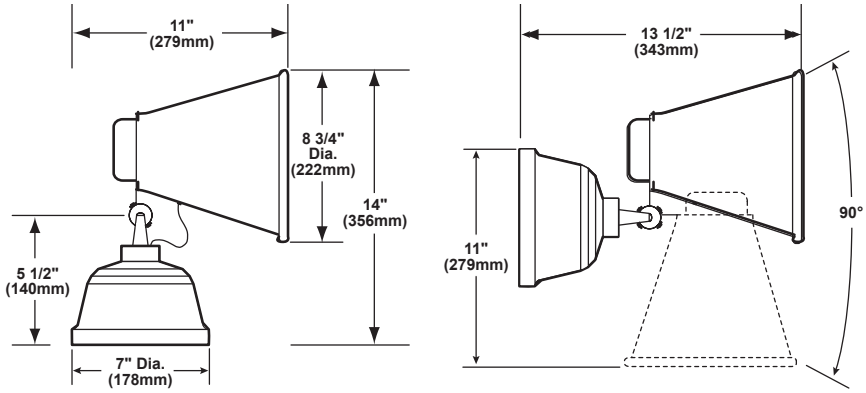
Horns and Sirens
Electronic
D2 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5520-AS	7.90	10.72
5520-AQ	7.90	10.72
5520-N5	7.90	10.72
5520-P1	7.90	10.72
5520-R5	7.90	10.72
5520D-N5	7.90	10.72
5520D-AW	7.90	10.72
5521-S1	7.80	12.30
349	1.30	1.56



Mounts on any single gang, 3 1/4" (83mm),
3 1/2" (89mm), 4" (102mm) octagon or 4" (102mm) square box.

Sirens
Motor Driven
315A Series

The 315A Series is a heavy duty, motor driven siren that emits a continuous loud piercing wail. It mounts to any solid surface using two bolts and may be swiveled through 180°, vertically or horizontally, depending on orientation of bracket.

Features and Specifications

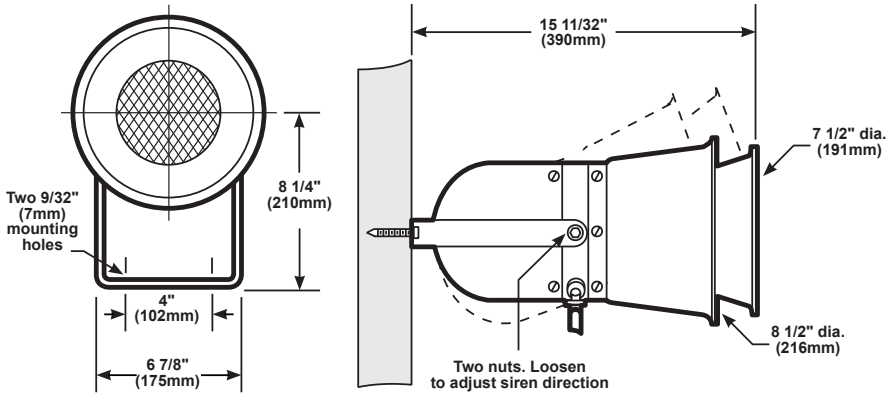
- Fully enclosed motor
- Suitable for outdoor applications
- Adjustable siren direction
- AC or DC operation
- 2.5 amp motor
- Heavy gauge aluminum construction
- Frequency 1100 Hz
- Rated for 2 minutes on, 1 minute off duty cycle

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	dB at 1m/10ft.
Industrial Siren	**315A-AH**	120V AC/DC	2.5 A	300	120/110

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
315A-AH	9.50	11.40



AC/DC

120 dB

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Sirens
Electronic
Titan Class

The Titan Class devices are low current, high performance, high decibel audible signals designed for hazardous locations. They can be mounted on any surface using three bolts. Flying leads allow for quick installation.

5523M Series are primarily intended for use in hazardous location applications requiring electrical supervision of signaling circuit field wiring. These signals may also be used for unsupervised signaling applications.

Features and Specifications

- Corrosion resistant electrostatic heat flowed powder epoxy gray finish
- Fitted with factory sealed 1/2" (13mm) threaded pipe nipple for quick installation
- Diode polarized version for supervised circuits
- Speaker swivels 180° vertically or horizontally depending on orientation of mounting bracket **(5523MD-AW)**
- 30" (762mm) wire leads
- Siren frequency - rises and falls from 600 to 1250 Hz every 8 seconds
- UL listed for Class I, Div. 1 and 2, Groups B, C and D

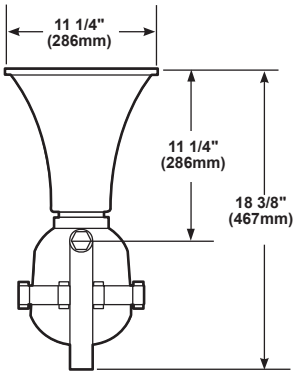
Ordering Information

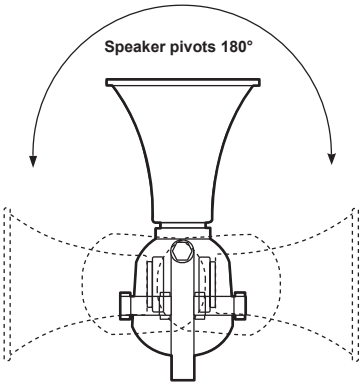
Description	Cat. No.	Operating Voltage[1]	Current	dB at 1m/10ft.
Siren	**5523M-AQ**	24V DC	0.25 A	115/105
		24V AC	0.95 A	
	5523M-Y6	120-240V AC	0.260 A	115/105
		125-250V DC	0.130 A	
Siren, Diode Polarized	**5523MD-AW**	24V DC	0.950 A	115/105

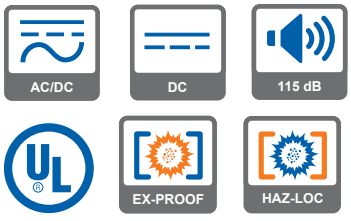
[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5523M-AQ	16.50	23.50
5523M-Y6	16.50	23.50
5523MD-AW	16.50	23.50







Klaxon Sirens
Motor Driven
SO4 Series

The SO4 is a motor driven siren designed for vertical mounting and is suitable for outdoor applications.

Manufactured from cast aluminum, it is rugged in construction and has a continuous rating.

Features and Specifications

- High sound output (up to 125dB)
- Powerful low frequency sound
- Vertical siren for easy mounting
- Cast aluminum body
- IP55 rated
- Operating temperature range: -22ºF to 113ºF (-30ºC to 45ºC)

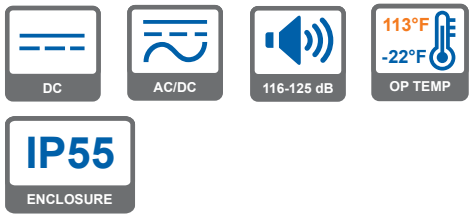
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Amps Tone Dependent	dB at 1m/10ft.	Frequency
DC	**18-980041**	**SLC-0003**	24V DC	8 A	Up to 116/106	900 Hz
AC/DC	**18-980036**	**SLC-0001**	110V AC/DC	3 / 2.7 A	Up to 125/115	900 Hz
	18-980038	**SLC-0002**	230V AC/DC	1.4 / 1.2 A	Up to 125/115	900 Hz

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions	
				Diameter (in.)	Height (in.)
18-980041	**SLC-0003**	9.90	12.00	6 7/8	9 3/4
18-980036	**SLC-0001**	9.90	12.00	6 7/8	9 3/4
18-980038	**SLC-0002**	9.90	12.00	6 7/8	9 3/4



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Klaxon Sirens
Manual Operation
Lightweight Series

The lightweight hand operated siren is designed to provide effective warning in applications where there is no power supply such as camp sites, civil defense, mountain rescue and coast guard warning.

The siren is lightweight, can be easily transported to remote locations and folds up to a small and compact size for ease of handling.

This model comes complete with carry case, making it the ideal choice where portability is crucial.

Features and Specifications

- No power supply required
- Lightweight model for portability
- Powerful low frequency sound
- Universally recognized signal
- Carry case included
- 2 tones: continuous and warble
- 600 Hz nominal frequency (Dependent on rotation speed)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Colors	dB at 1m/10ft.	Tones
Hand Operated Siren	**17-970322**	**SLF-0001**	Black	Up to 116/106	Up to 2

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions	
				Max. Height (in.)	Min. Height (in.)
17-970322	**SLF-0001**	8.80	14.00	39.40	23.60

Klaxon Sirens
Manual Operation
Heavy Duty Series

Photo Not Available

The heavy duty hand operated siren is designed to provide effective warning in applications where there is no power supply such as camp sites, civil defense, mountain rescue and coast guard warning.

Powered by rotating the handle, this siren has a plate to shut off the sound once up to speed, giving it the ability to produce three different tones

Robust and compact, the siren can be easily transported to remote locations and folds up to a small size for ease of handling.

Features and Specifications

- No power supply required
- Robust and compact for portability
- Powerful low frequency sound
- Universally recognized signal
- Shutter mechanism to provide three or more signals
- Frequency: 400 Hz Nominal (Dependent on rotation speed)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Color	dB at 1m/10ft.	Tones
Hand Operated Siren	**17-970356**	**SLF-0003**	Gray	Up to 120/110	3+

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
				Height (in.)	Width (in.)	Depth (in.)
17-970356	**SLF-0003**	24.30	27.00	33	14 1/2	18 7/8

Klaxon Sirens
Motor Driven
Duplo Series

The Duplo is a powerful rugged motor driven siren which produces a very high sound output despite its physically compact construction.

Suitable for outdoor applications, the Duplo can be used for general safety warning.

Features and Specifications

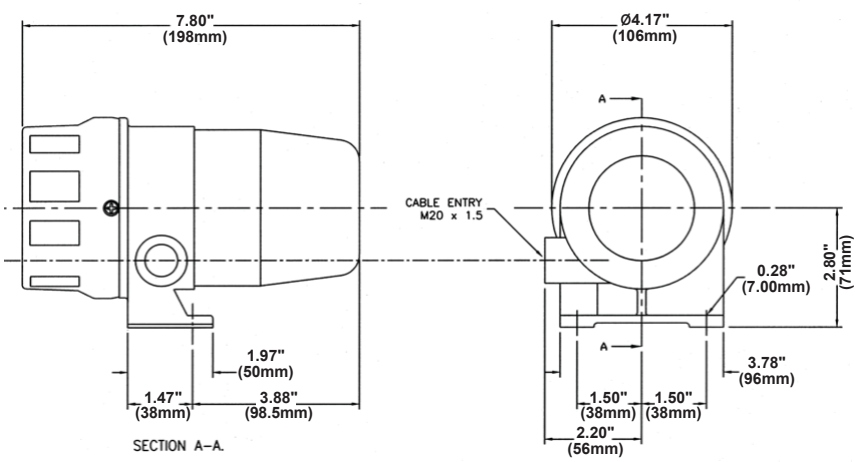
- High output siren sound (127dB @ 1m/117dB @ 10ft.)
- Cast aluminum body
- ABS rotor, stator and cover
- Rugged construction for use in indoor and outdoor environments
- IP65 rated
- Long life and run time
- Mounting bracket for ease of installation
- Operating temperature range: -22ºF to 113ºF (-30ºC to 45ºC)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Amps (Tone dependent)	Colors	dB at 1m/10ft.	Tones	Frequency
Motor Driven Siren	**18-980214**	**SLB-0001**	110V AC/DC	2.7 A	Gray/Black	Up to 127/117	1	1600 Hz
	18-980217	**SLB-0002**	230V AC/DC	1.0 A	Gray/Black	Up to 127/117	1	1600 Hz

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions	
				Diameter (in.)	Length (in.)
18-980214	**SLB-0001**	4.40	6.50	4.17	7.80
18-980217	**SLB-0002**	4.40	6.50	4.17	7.80



AC/DC

Up to 127 dB

113°F
-22°F
OP TEMP

IP65
ENCLOSURE

Klaxon Sirens
Motor Driven
Mono Series

The Mono 72 is a powerful motor driven siren which produces a clear, high output siren sound.

Suitable for indoor and outdoor applications, the Mono 72 can be used for general safety warning.

Due to its rugged construction, the Mono 72 can be used in applications such as mining and quarrying.

Features and Specifications

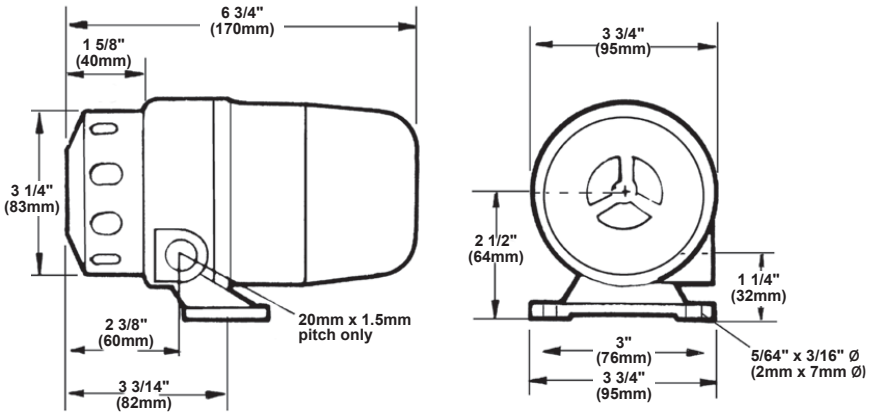
- High output siren sound (120dB)
- Rugged construction for use in all environments
- IP65 rated
- Mounting bracket for ease of installation
- Construction is cast aluminum body, ABS Rotor, Stator and cover
- Operating temperature range: -22ºF to 113ºF (-30ºC to 45ºC)

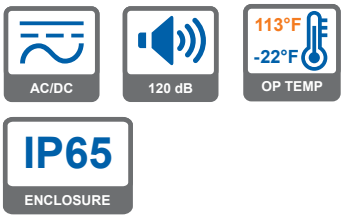
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Color	dB at 1m/10ft.	Frequency	Tones
Motor Driven Siren	**18-980203**	**SLA-0001**	110V AC/DC	3.0/2.7 A	Red/Black	Up to 120/110	1800 Hz	1
	18-980205	**SLA-0002**	230V AC/DC	1.4/1.2 A	Red/Black	Up to 120/110	1800 Hz	1

Weights and Dimensions

Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980203	**SLA-0001**	3.80	5.50
18-980205	**SLA-0002**	3.80	5.50





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Klaxon Sirens
Motor Driven
Mono Series

The Mini Mono P is a small motor driven siren designed for fire and general alarm signalling.

Designed for ease of mounting, it has a separate mounting plate which connects to the main body with a bayonet locking action and has a locking screw for additional security.

The mounting plate is suitable for surface mounting or for use with a conduit box depending on installation requirements.

Features and Specifications

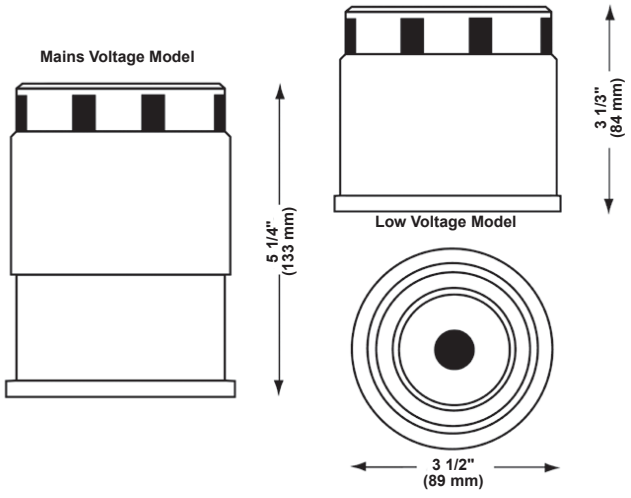
- High quality siren sound
- Bayonet mounting plate for ease of installation
- High impact ABS
- IP44 rated
- Operating temperature range: -22ºF to 131ºF (-30ºC to 55ºC)

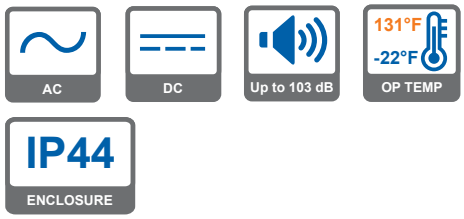
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Color	dB at 1m/10ft.	Tones	Frequency
Motor Driven Siren	**18-980226**	**SLE-0002**	24V DC	0.5 A	Gray	Up to 103/93	1	1000 Hz
	18-980228	**SLE-0004**	110/230V AC	0.130-0.09 A	Gray	Up to 103/93	1	1000 Hz

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980226	**SLE-0002**	0.44	0.85
18-980228	**SLE-0004**	1.10	1.60





Klaxon Sirens
Motor Driven
Super M Series

The Super M Series are powerful motor driven sirens which emit a very high sound output. Designed for surface mounting, they have a separate mounting bracket which may be secured in position first to allow for easy installation. In addition, they come pre-wired with 1 meter of cable.

They are suitable for outdoor applications when wall mounted.

The Super M is ideal for applications where a higher sound output is required, such as in areas of high background noise.

Features and Specifications

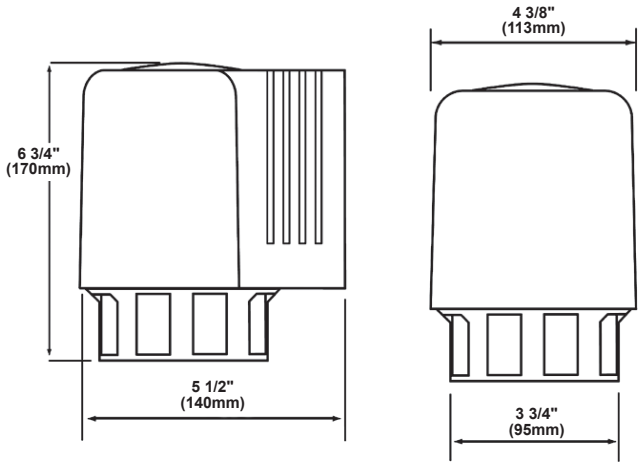
- High output siren sound (127dB)
- Separate mounting bracket for easy installation
- Long life and run time
- Suitable for use in indoor and outdoor applications
- ABS construction
- Operating temperature range: -22ºF to 113ºF (-30ºC to 45ºC)

Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Amps (Tone dependent)	Color	dB at 1m/10ft.	Frequency	Tones
Motor Driven Siren	**18-980047**	**SLD-0001**	110V AC/DC	2.7 A	Yellow	Up to 127/117	1600 Hz	1
	18-980049	**SLD-0002**	230V AC/DC	1.0 A	Yellow	Up to 127/117	1600 Hz	1

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
18-980047	**SLD-0001**	4.00	5.70
18-980049	**SLD-0002**	4.00	5.70



Electronic Audible Signals
Multi-Tone Signal – Single Input, Single Output
Millennium Class

The Millennium Class are heavy-duty industrial, tone-selectable, signaling devices capable of producing volume-controlled, high-decibel tones. Selected models are designed to serially connect to RS485 networks. The 5530MV-485Y6 additionally has a field recordable voice feature that allows activation of voice messages over the RS485 network.

Features and Specifications

- User selectable 55 tone capability - No additional tone modules needed
- Output up to 120dB @ 1m (110dB @ 10ft.)
- Output up to 123dB @ 1m (113dB @ 10ft.) **(5530MHV Series)**
- Captive components
- RS485 models supervised
- Diode polarized for supervisory circuits **(5530MD-24AW)**
- Speaker can be rotated and locked in any horizontal direction
- 24V DC battery backup terminals provided
- NEMA Type 3R
- UL listed for Class 1, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Input Activation Voltage	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
Single output, 15 Watt Standard Volume	**5530M-24AQ**	24V DC	24V DC	0.10 A	0.74 A
		24V AC	24V DC	0.10 A	1.3 A
	5530M-24N5	120V AC	24V DC	0.10 A	0.36 A
	5530M-120N5	120V AC	120V AC	0.10 A	0.38 A
	5530M-24Y6	120V-240V AC	24V DC	0.10 A	0.31-0.20 A
	5530M-120Y6	125-250V DC	120V AC	0.10-0.02 A	0.21-0.10 A
Single output, RS485	**5530M-485Y6**	120-240V AC	RS485	0.10 A	0.32-0.20 A
		125-250V DC	RS485	0.10-0.02 A	0.21-0.10 A
Single output, RS485 Field recordable voice model	**5530MV-485Y6**	120-240V AC	RS485	0.10 A	0.31-0.20 A
		125-250V DC	RS485	0.10-0.02 A	0.20-0.10 A
Single output, 30 Watt High Volume	**5530MHV-24AQ**	24V DC	24V DC	0.10 A	1.5 A
		24V AC	24V DC	0.10 A	2.3 A
	5530MHV-24Y6	120-240V AC	24V DC	0.10 A	0.56-0.34 A
	5530MHV-120Y6	125-250V DC	120V AC	0.10-0.02 A	0.39-0.19 A
Single output, RS485 Connection 30 Watt High Volume	**5530MHV-485Y6**	120V AC-240V AC	RS485	0.10 A	0.56-0.34 A
		125-250V DC	RS485	0.10-0.02 A	0.39-0.19 A
Single output, Diode Polarized	**5530MD-24AW[2]**	20-31V DC	—	—	0.63-1.0 A

[1]AC voltage frequency is 50/60 Hz.
[2]Red finish

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

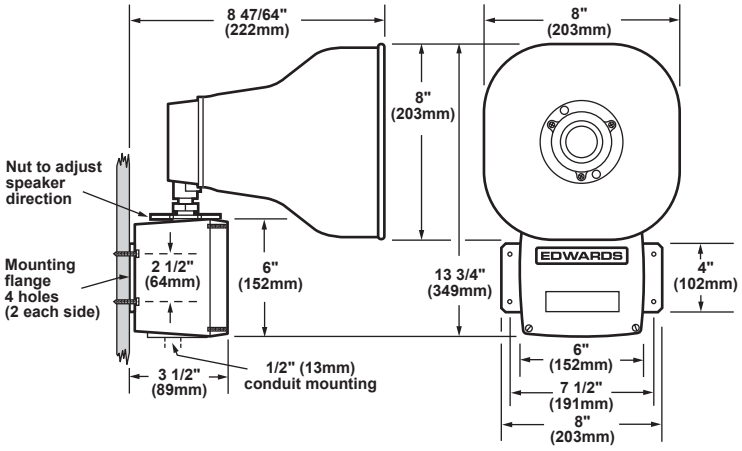
Cat. No.	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Milliseconds
5530M-24AQ	24V DC only	0.002	0.740	8/4
5530M-24N5	120V	0.002	0.360	2.82/4
5530M-120N5	120V	0.005	0.380	2.82/4
5530MHV-24AQ	24V DC only	0.002	1.500	8/4

Electronic Audible Signals
Multi-Tone Signal – Single Input, Single Output
Millennium Class

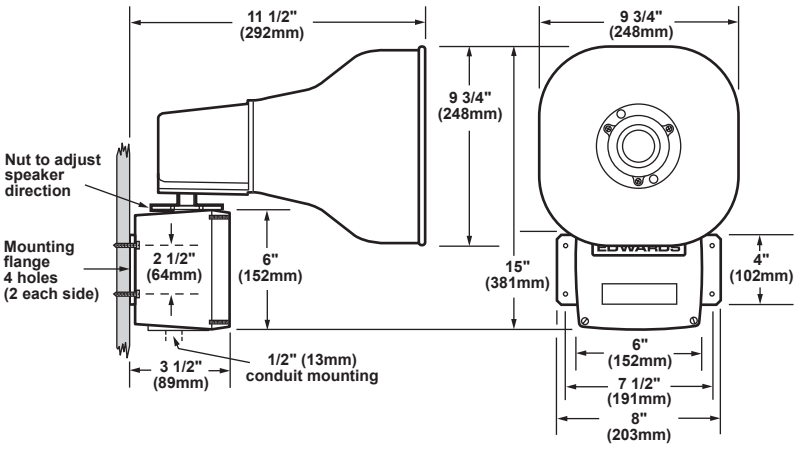
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5530M-24AQ	10.60	13.20
5530M-24N5	10.60	13.20
5530M-120N5	10.60	13.20
5530M-24Y6	10.60	13.20
5530M-120Y6	10.60	13.20
5530M-485Y6	10.60	13.20
5530MV-485Y6	10.60	13.20
5530MHV-24AQ	10.60	13.20
5530MHV-24Y6	10.60	13.20
5530MHV-120Y6	10.60	13.20
5530MHV-485Y6	10.60	13.20
5530MD-24AW	10.60	13.20

5530M, 5530MV, and 5530MD-24AW Series



5530MHV Series



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Electronic Audible Signals
Multi-Tone Signal – Four Input, Four Output
Millennium Class

The Millennium Class are heavy-duty industrial, tone-selectable, audible signaling devices capable of producing volume-controlled, high-decibel tones. In addition, the 5531MV Series can produce up to 20 seconds of field recorded voice messages.

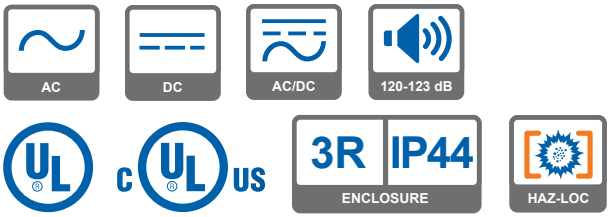
Features and Specifications

- User selectable 55 tone capability - No additional tone modules needed
- Output up to 120dB @ 1m (110dB @ 10ft.) **(5531M and 5531MV)**
- Output up to 123dB @ 1m (113dB @ 10ft.) **(5531MHV)**
- Suitable for Division 2 Locations
- Built-in cascading priority system
- Captive components
- Speaker can be rotated and locked in any horizontal direction
- NEMA Type 3R and IP44 rated
- UL listed for Class 1, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Input Activation Voltage	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
Four Outputs, 15 Watt	**5531M-24AQ**	24V DC	24V DC	0.10 A	0.74 A
		24V AC	24V DC	0.10 A	1.3 A
	5531M-24N5	120V AC	24V DC	0.10 A	0.36 A
	5531M-120N5	120V AC	120V AC	0.10 A	0.36 A
	5531M-24Y6	120-240V AC	24V DC	0.10 A	0.32-0.20 A
		125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A
	5531M-120Y6	120-240V AC	120V AC	0.10 A	0.32-0.20 A
		125-250V DC	120V AC	0.10-0.02 A	0.21-0.10 A
Four Outputs, 30 Watt	**5531MHV-24AQ**	24V DC	24V DC	0.10 A	1.5 A
		24V AC	24V DC	0.10 A	2.3 A
	5531MHV-24Y6	120-240V AC	24V DC	0.10 A	0.62-0.34 A
		125-150V DC	24V DC	0.10-0.02 A	0.40-0.19 A
	5531MHV-120Y6	120-240V AC	120V AC	0.10 A	0.62-0.34 A
		125-150V DC	120V AC	0.10-0.02 A	0.40-0.19 A
Field Recordable Device Model	**5531MV-24N5**	120V AC	24V DC	0.10 A	0.38 A
	5531MV-120N5	120V AC	120V AC	0.10 A	0.38 A
	5531MV-24Y6	125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A
		120-240V DC	24V DC	0.10 A	0.32-0.20 A

[1]AC voltage frequency is 50/60 Hz.



Electronic Audible Signals
Multi-Tone Signal – Four Input, Four Output
Millennium Class

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

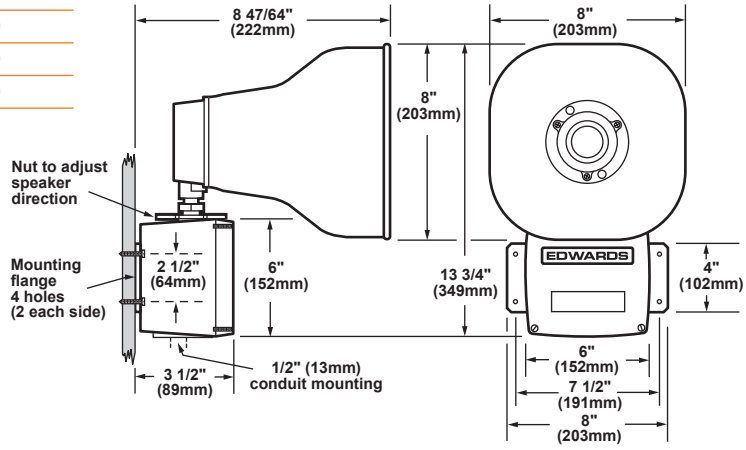
Cat. No.	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Milliseconds
5531M-24AQ	24V DC only	0.002	0.740	8/4
5531M-24N5	120V AC	0.002	0.360	2.82/4
5531M-120N5	120V AC	0.005	0.380	2.82/4
5531MHV-24AQ	24V DC only	0.002	1.5	8/4
5531MV-24N5	120V AC	0.002	0.360	2.82/4
5531MV-120N5	120V AC	0.005	0.380	2.82/4

[1]AC voltage frequency is 50/60 Hz.

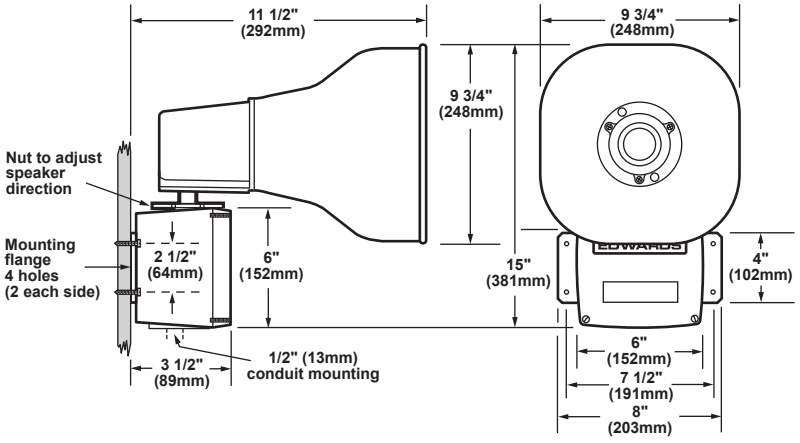
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5531M-24AQ	10.60	13.20
5531M-24N5	10.60	13.20
5531M-120N5	10.60	13.20
5531M-24Y6	10.60	13.20
5531M-120Y6	10.60	13.20
5531MHV-24AQ	10.60	13.20
5531MHV-24Y6	10.60	13.20
5531MHV-120Y6	10.60	13.20
5531MV-24N5	10.60	13.20
5531MV-120N5	10.60	13.20
5531MV-24Y6	10.60	13.20

5531M and 5531MV Series



5531MHV Series



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Electronic Audible Signals
Multi-Tone Signal – Two Input, Two Output
Titan Class

The 5533M and 5533MD signals are explosion-proof, heavy-duty industrial, tone-selectable, audible signaling devices capable of producing volume-controlled, high-decibel tones. The signal accepts up to two contact closures and delivers one or two audible output signals selected from the 55 tones available.

Features and Specifications

- User selectable 55 tone capability - No additional tone modules needed
- Internal volume control
- Corrosion resistant heat flowed epoxy finish
- Supplied with factory sealed 1/2" (13mm) threaded fitting for quick installation
- Diode polarized for supervised circuits **(5533MD)**
- Speaker swivels 180° vertically or horizontally depending on orientation of mounting bracket
- 30" (762mm) numbered wire leads
- Heavy duty zinc cast construction
- UL listed for Class 1, Div. 1 and 2, Groups B, C and D, hazardous locations

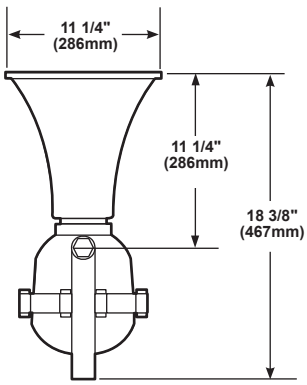
Ordering Information

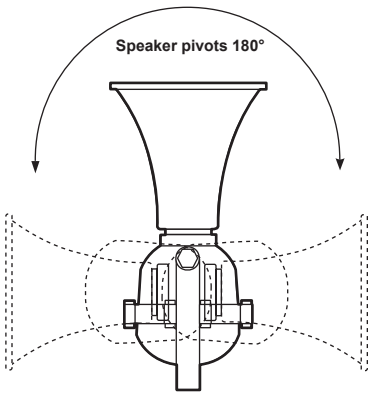
Description	Cat. No.	Operating Voltage[1]	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)	dB at 1m/10ft.
Two Outputs, Explosionproof	**5533M-AQ**	24V DC	0.061 A	0.470 A	100/90
		24V AC	0.250 A	0.95 A	100/90
	5533M-Y6	120-240V AC	0.88 A	0.260 A	100/90
		125-250V DC	0.31-0.019 A	0.130-0.070 A	100/90
One Output, Explosionproof, Diode Polarized	**5533MD-AW**	24V DC	—	0.470 A	96/86

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5533M-AQ	16.50	23.50
5533M-Y6	16.50	23.50
5533MD-AW	16.50	23.50



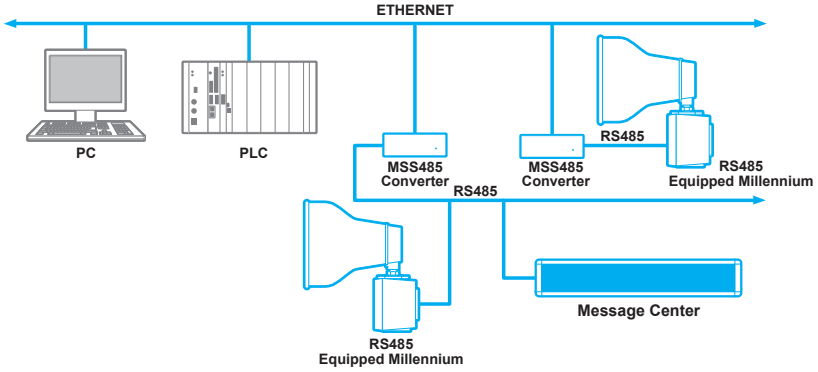


Electronic Audible Signals
Connectivity and Activation
Millennium Class

5530MV Series
Millennium

PLC Connectivity

The Millennium Class products are designed to be directly connected to a PLC (Programmable Logic Controller) that utilize the most common control voltages—24V DC and 120V AC @ 60 Hz. Each of the Millennium products list the specific signal load characteristics such as the Operating Voltage, Continuous On Input Current, Off State Leakage Current Maximum and Surge current (inrush/duration).



RS485 Activation

Select Millennium Units have been designed for serial communication and activation in RS485 networks. Refer to the list below for model numbers.

Activation Voltages

Depending on the model no., the inputs to the Millennium Class products can be activated by closing a dry contact, such as a relay or switch or by applying an externally generated voltage to the input terminals. In addition, the units may accept either 24V DC or 120V AC inputs.

The 120V AC input configuration is used on all models with "-120xx" in the suffix (where xx = the operating voltage code) and the 24V DC input configurations on models with "-24xx" in the suffix of the catalog number (where xx = the operating voltage code). When using dry contact inputs the models configured for 24V DC ("-24xx" suffix) inputs should be used. Reference "Model Activation Voltage" table below for the activation voltage for each model.

Model Activation Voltage

Dry Contact or 24V DC	120V AC
5530M-24xx	**5530M**-120xx
5530MHV-24xx	**5530MHV**-120xx
5531M-24xx	**5531M**-120xx
5531MHV-24xx	**5531MHV**-120xx
5536M-24xx	**5540M**-120xx
5540M-24xx	**5531MV**-120xx
5540MV-24xx	—
5531MV-24xx	—

XX denotes the voltage code

RS485 Activation

Models
5530M-485Y6
5530MHV-485Y6
5530MV-485Y6
5532M-485Y6
5532MHV-485Y6
5540M-485Y6
5540MV-485Y6
5560M with 556T-M485

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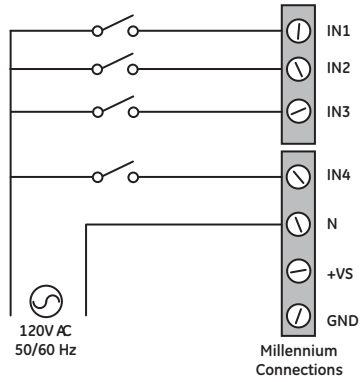
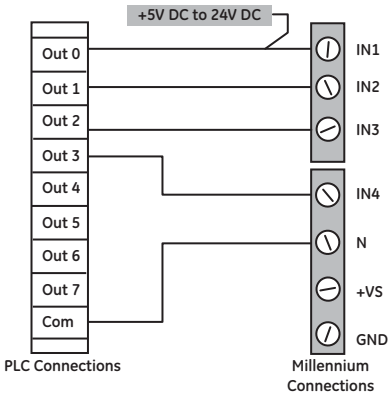
Electronic Audible Signals
Connectivity and Activation
Millennium Class

Technical Information

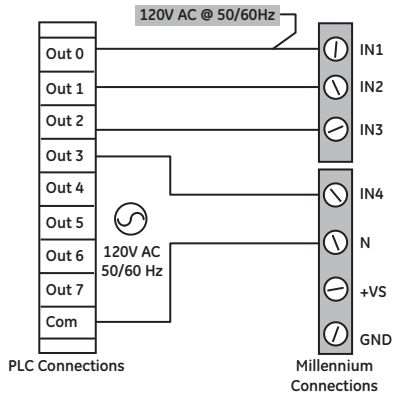
Dry contact wiring for 120V Input Units (5531M-120xx)



24V DC PLC Connection*



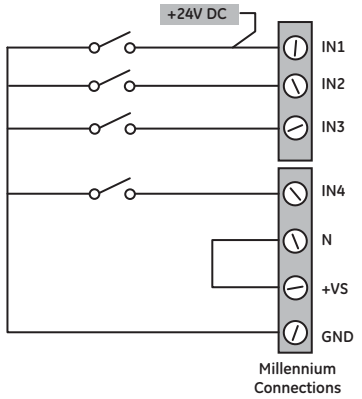
120V DC PLC Connection*



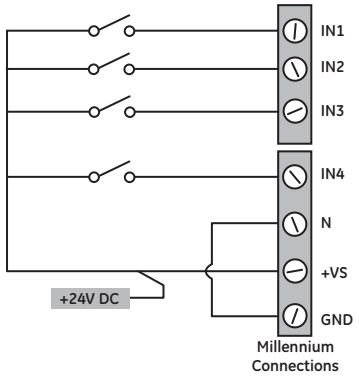
* The installer should consult the PLC manufacturer's output card data sheet and the Millennium PLC compatibility chart when connecting to a PLC.

Dry Contact Wiring for 24V Input Units (5531M-24xx)

Method A - Pull Down (Recommended)



Method B - Pull Up



Electronic Audible Signals
System Components
Millennium Class

Millennium Class components are designed to connect to a Central Tone Generator or Voice Priority Multiple Tone units. Local power operation allows system components to connect to power sources of different voltages.

Components

Description	Cat. No.
Central Tone Generator	**5540M**
Central Tone Generator with Field Recorded Voice Messages	**5540MV**
Remote Speaker Amplifier	**5532M (15 Watt)**
Remote Speaker Amplifier	**5532MHV (30 Watt)**
Hazardous Location Remote Speaker	**5545M**

Retrofit Kits

Description	Cat. No.
10V RMS Audio Kit	**AUDIO-10-M**
25V RMS Audio Kit	**AUDIO-25-M**
70 V RMS Audio Kit	**AUDIO-70-M**
RS485 Network Kit	**RS-485-M**
Voice Module Kit	**VOICE-M**
1 input 24V DC PCB Kit	**Input-1-24**
4 input 24V DC PCB Kit	**Input-4-24**
1 input 120V AC PCB Kit	**Input-1-120**
4 input 120V AC PCB Kit	**Input-4-120**
Pager Board	**7990031**

Cat. No. 5532M

Cat. No. 5532MHV

Cat. No. 5545M

Cat. No's. 5540M, 5540MV

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Electronic Audible Signals
System Master Panel
Millennium Class

The 5541M Millennium System Master is a fully supervised personnel notification control system for both emergency facility evacuation, and non-emergency process control and plant-wide signaling communications.

The System Master may be used for ancilliary Fire Alarm evacuation by tying into an existing fire alarm system.

The 5532M Series Speaker/Amplifier is used for sound output. Up to 200 speaker/amplifiers can be connected to the system master.

Features and Specifications

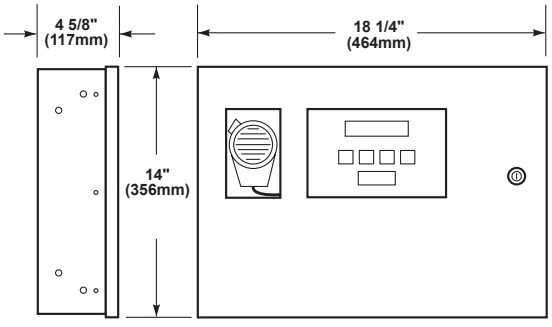
- 67 tones
- 4 zone control with zone paging
- Audio, voice and power supervision
- Microphone and external input supervision
- Up to four 5-second voice messages or one 20-second message
- Remote programming and diagnostics
- Phone paging from PBX systems
- Up to 64 satellite units addressable through RS485
- Output and trouble relays designed for fail-safe operation
- Top, side and bottom knockouts for easy wire entry
- LED alarm, standby power and status indications
- Activates LED text displays
- Easy to adjust audio output

Ordering Information

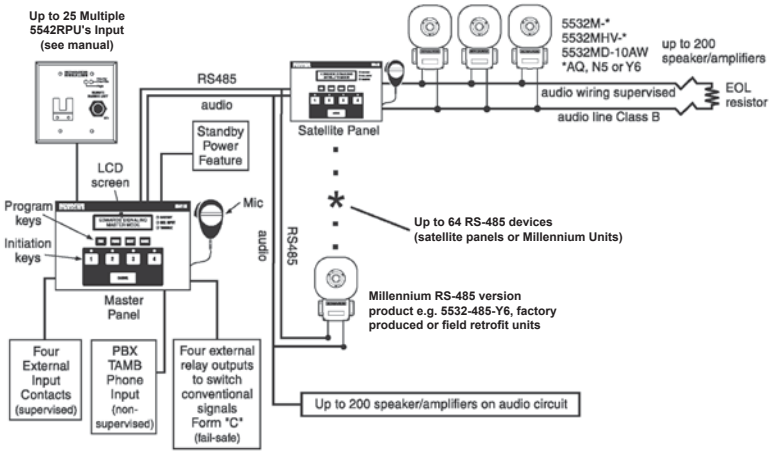
Description	Cat. No.	Operating Voltage	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
System Master	**5541M-Y6**	120V AC @ 60 Hz	0.14 A	0.37 A
		240V AC @ 50 Hz	0.10 A	0.22 A

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5541M-Y6	24.00	25.30



Typical System Master Configuration



AC

UL OSHA Approved

Electronic Audible Signals
Tone Generator
Millennium Class

The 5540M Millennium Central Tone Generator provides simultaneous signaling of a high decibel, heavy duty signal. The tone generator assures a synchronous signaling sound from all remote speakers.

The 5540MV Millennium Central Tone Generator features pre-recorded voice messaging and can store 20 seconds of field recorded voice messages.

The 5540MP Millennium Central Tone Generator, when used with the 5542RPU Remote Paging Unit, provides voice paging and other audio output. The paging/voice signal is inputed into the Remote Paging Unit via either an audio pair or the 5542MIC series microphone.

Features and Specifications

- User Selectable 55 tone capability– No additional tone modules needed
- Captive Components
- Centralized programmable tone selection
- System-wide priority tone selection
- RS485 models available
- 24V DC battery backup terminals
- Short Circuit protected
- 20 sec. of field recorded Voice **(5540MV)**
- Built in Presignal tone option on first message location **(5540MV)**
- Voice paging **(5540MP)**
- NEMA Type 3R and IP44 rated
- UL listed for Class I, Div. 2, Groups A, B, C and D; Class II, Div.2, Groups F and G; and Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Input Activation Voltage	Signal Off Operating Current (Amps)	Signal On Operating Current (Amps)
Four Outputs, Tone Only	**5540M-24AQ**	24V DC	24VDC	0.10 A	0.74 A
		24V AC	24V DC	0.10 A	1.3 A
	5540M-24N5	120V AC	24V DC	0.10 A	0.36 A
	5540M-120N5	120V AC	120V AC	0.10 A	0.38 A
Four Outputs, Tone Only	**5540M-24Y6**	120-240V AC	24V DC	0.10 A	0.32-0.20 A
		125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A
	5540M-120Y6	120-240V AC	120V AC	0.10 A	0.31-0.20 A
		125-250V DC	120V AC	0.10-0.02 A	0.20-0.10 A
Four Outputs, RS485 Connection, Tone Only	**5540M-485Y6**	120-240V AC	RS485	0.10 A	0.31-0.20 A
		125-250V DC	RS485	0.10-0.02 A	0.20-0.10 A
Four Outputs, Tone and Voice Messaging	**5540MV-24N5**	120V AC	24VDC	0.10 A	0.36 A
	5540MV-24Y6	120-240V AC	24V DC	0.10 A	0.32-0.20 A
		125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A
Four Outputs, RS485 Connection Tone and Voice Messaging	**5540MV-485Y6**	120-240V AC	RS485	0.10 A	0.32-0.20 A
		125-250V DC	RS485	0.10-0.02 A	0.21-0.10 A
Tone and Voice Paging	**5540MP-24Y6[2]**	120-240V AC	24V DC	0.10 A	0.32-0.20 A
		125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A

[1]AC voltage frequency is 50/60 Hz.
[2]Must be connected to 5542RPU to operate

AC AC/DC

3R IP44 ENCLOSURE HAZ-LOC

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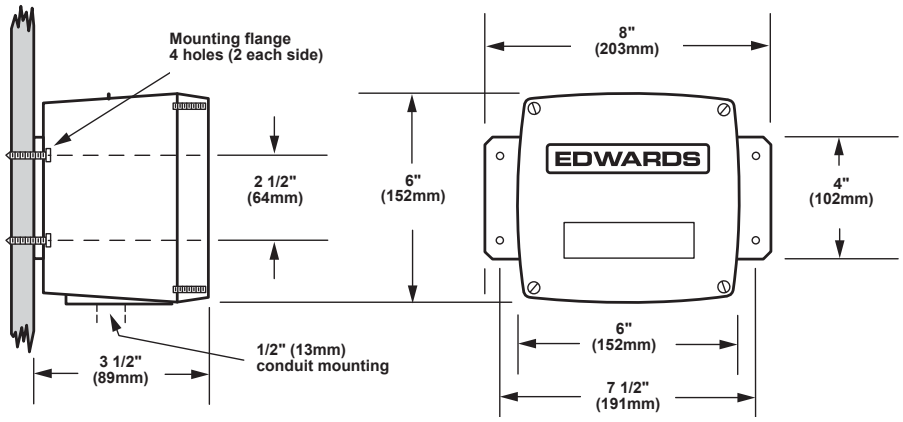
Electronic Audible Signals
Tone Generator
Millennium Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5540M-24AQ	8.00	8.40
5540M-24N5	8.00	8.40
5540M-120N5	8.00	8.40
5540M-24Y6	8.00	8.40
5540M-120Y6	8.00	8.40
5540M-485Y6	8.00	8.40
5540MV-24N5	8.00	8.40
5540MV-24Y6	8.00	8.40
5540MV-485Y6	8.00	8.40
5540MP-24Y6	8.00	8.40



Electronic Audible Signals
System Speaker Amplifier
Millennium Class

Millennium Class System Speaker Amplifiers have been designed for high decibel system operation when connected to the 5540M Central Tone Generator or 5541M System Master Panel.

The 5532M-485Y6 and 5532MHV-485Y6 are designed to be connected to RS485 networks, allowing full signaling communication control.

The 5532MD-70AW is a diode polarized units designed for use in applications requiring electrical supervision of signaling circuit field wiring.

Features and Specifications

- Output up to 120dB @ 1m (110dB @ 10ft.) **(5532M and 5532MD)**
- Output up to 123dB @ 1m (113dB @ 10ft.) **(5532MHV)**
- Corrosion resistant electrostatic heat flowed epoxy finish
- Individual volume control
- Suitable for Division 2 Locations
- Captive Components
- RS485 model available
- Diode Polarized models **(5532MD)**
- 24V DC battery backup terminals
- NEMA Type 3R and IP44 rated
- UL listed for Class 1, Div. 2, Groups A, B,C and D; Class II, Div. 2, Groups F and G; and Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
High Decibel	**5532M-25Y6**	120-240V AC	0.10 A	0.32-0.20 A
		125-250V DC	0.10-0.02 A	0.21-0.10 A
	5532M-70Y6	120-240V AC	0.10 A	0.32-0.20 A
		125-250V DC	0.10-0.02 A	0.21-0.10 A
High Decibel, RS485	**5532M-485Y6**	120-240V AC	0.10 A	0.32-0.20 A
		125-250V DC	0.10-0.02 A	0.21-0.10 A
High Decibel, Diode Polarized	**5532MD-10AW[2]**	20-31V DC	0.10 A	0.63-1.0 A
	5532MD-70AW[2]	20-31V DC	0.10 A	0.63-1.0 A
High Decibel, RS485, 30 Watt	**5532MHV-485Y6**	120-240V AC	0.10 A	0.56-0.34 A
		125-250V DC	0.10 A	0.39-0.19 A

[1]AC voltage frequency is 50/60 Hz.
[2]Red finish.

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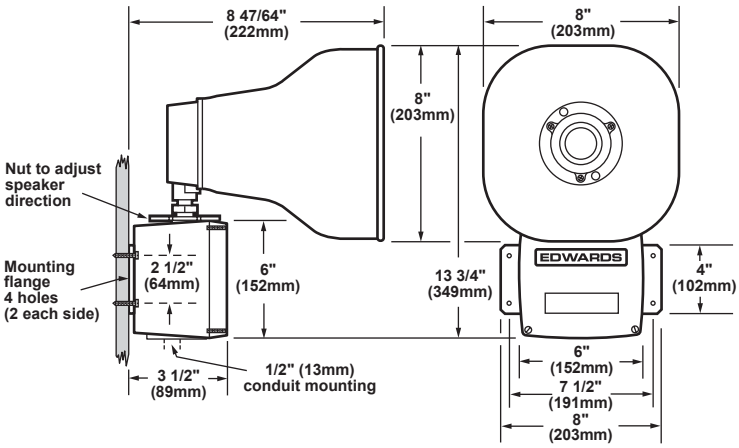
Electronic Audible Signals
System Speaker Amplifier
Millennium Class

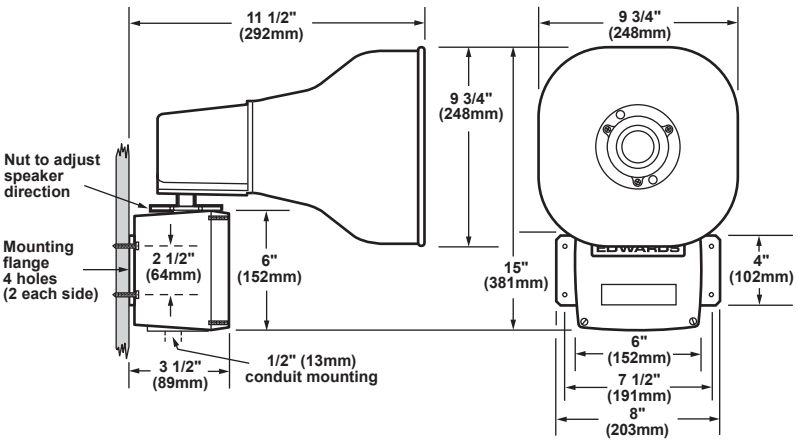
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5532M-25Y6	10.60	13.20
5532M-70Y6	10.60	13.20
5532M-485Y6	10.60	13.20
5532MD-10AW	10.60	13.20
5532MD-70AW	10.60	13.20
5532MHV-485Y6	10.60	13.20

5532M and 5532MD Series



5532MHV Series



Speaker/Amp
Remote Speaker Amplifier
Millennium Class

Millennium Class System Speaker Amplifiers have been designed for high decibel system operation when connected to the 5540M Central Tone Generator or 5541M System Master Panel.

Features and Specifications

- Output up to 120dB @ 1m (110dB @ 10ft.) **(5532M)**
- Output up to 123dB @ 1m (113dB @ 10ft.) **(5532MHV)**
- Corrosion resistant electrostatic heat flowed epoxy finish
- Individual volume control
- Suitable for Division 2 Locations
- Captive Components
- RS485 model available
- 24V DC battery backup terminals
- NEMA Type 3R and IP44 rated
- UL listed for Class 1, Div. 2, Groups A, B,C and D; Class II, Div. 2, Groups F and G; and Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
High Decibel	**5532M-AQ**	24V DC	0.10 A	0.7 A
		24V AC	0.10 A	1.3 A
	5532M-N5	120V AC	0.10 A	0.36 A
	5532M-Y6	120-240V AC	0.10 A	0.32-0.20 A
		125-250V DC	0.10-0.02 A	0.21-0.10 A
High Decibel, 30 Watt	**5532MHV-AQ**	24V DC	0.10 A	1.5 A
		24V AC	0.10 A	2.3 A
	5532MHV-Y6	120-240V AC	0.10 A	0.56-0.34 A
		125-250V DC	0.10 A	0.39-0.19 A

[1]AC voltage frequency is 50/60 Hz.

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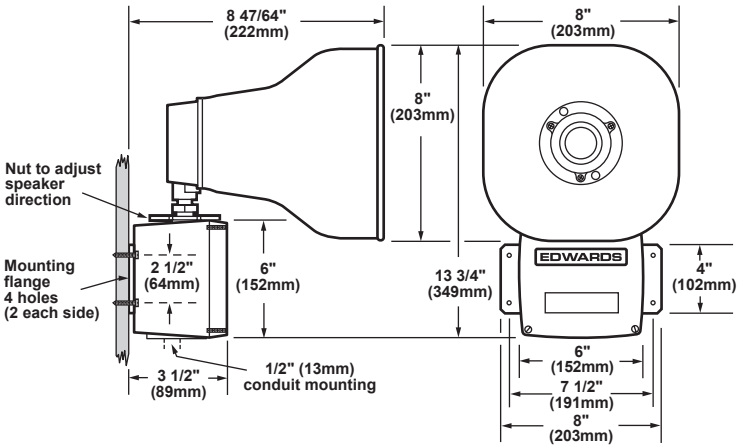
Speaker/Amp
Remote Speaker Amplifier
Millennium Class

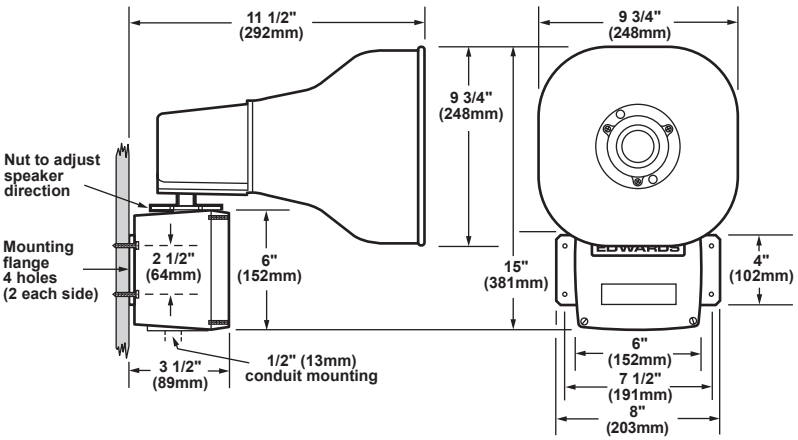
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5532M-AQ	10.60	13.20
5532M-N5	10.60	13.20
5532M-Y6	10.60	13.20
5532MHV-AQ	10.60	13.20
5532MHV-Y6	10.60	13.20

5532M Series



5532MHV Series



Electronic Audible Signals
Speaker Amp
Millennium Class

The 5560M Millennium Mini-Mi™ is a compact tone and voice generator which is completely modular in construction. The 5560M base unit is supplied with or without a 110 candela strobe. The strobe turns on when power is supplied. One of five optional modules may be installed in the base unit.

The 5560M is configured for stand-alone operation when installed with the 556T-M Tone Module Board. One tone may be dipswitch selected from a field of 55 tones and will be played whenever power is applied to the unit. When installed with the 556T-M485 Tone Module Board, any of the available 55 tones can be activated over a RS485 Network.

Features and Specifications

- Compact, modular design allows unit to be configured with tone, voice, audio coupling or RS485
- 10, 25 or 70.7VRMS audio input boards available
- Internal volume control
- Strobe and diode polarized fire alarm models
- Suitable for outdoor applications when mounted to outdoor back box
- Rugged Lexan construction tone, voice, audio coupling or RS485
- NEMA Type 3R **(Mini-Mi models only)**
- 90dB @ 1m (80dB @ 10ft.)

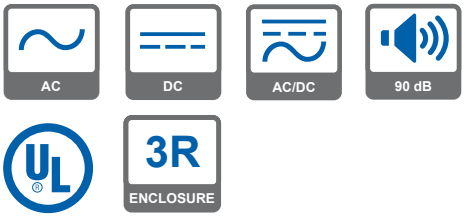
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Typical Current (A)		Max. RMS-mA Operating Current	Color
			Standby	Tone On	Tone On	
Base Model	**5560M-AQ**	24V DC	0.03	0.07	—	White
		24V AC	0.08	0.28	—	
Base Model	**5560M-N5**	120V AC	0.03	0.09	—	White
Diode Polarized	**5560MD-FJ**	24V DC[3]	—	—	0.13	White
Diode Polarized	**5560MDR-FJ**	24V DC[3]	—	—	0.13	Red
With Strobe	**5560MS-AQ**	24V DC	0.03	0.27	—	White
		24V AC	0.08	0.36	—	
With Strobe	**5560MS-N5**	120V AC	0.03	0.10	—	White
With Strobe - Diode Polarized	**5560MDS-FJ**	24V DC[3]	—	—	0.13	White
With Strobe - Diode Polarized	**5560MDSR-FJ**	24V DC[3]	—	—	0.13	Red
Audio Coupler Module Board[2]	**556A-M**	—	—	—	—	—
Audio Coupler Module Board with RS485 Connectivity[2]	**556A-M485**	—	—	—	—	—
Tone Module Board[2]	**556T-M**	—	—	—	—	—
Tone Module Board with RS485 Connectivity[2]	**556T-M485**	—	—	—	—	—
Voice Module Board[2]	**556V-M**	—	—	—	—	—

[1]AC voltage frequency is 50/60 Hz.
[2]Not NEMA 3R
[3]Regulated

Accessories

Description	Cat. No.
Outdoor Back Box	**449**



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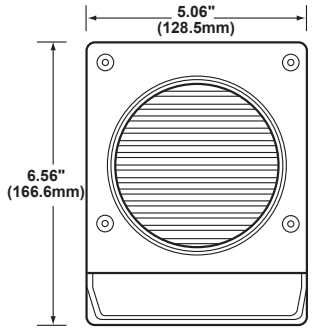
Electronic Audible Signals
Speaker Amp
Millennium Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5560M-AQ	1.50	2.20
5560M-N5	1.50	2.20
5560MD-FJ	1.50	2.20
5560MDR-FJ	1.50	2.20
5560MS-AQ	1.90	2.50
5560MS-N5	2.30	2.70
5560MDS-FJ	1.80	2.30
5560MDSR-FJ	1.80	2.30
556A-M	0.10	0.30
556A-M485	0.10	0.30
556T-M	0.10	0.30
556T-M485	0.10	0.30
556V-M	0.10	0.30
449	1.13	1.18



Electronic Audible Signals
Speaker Amp
Titan Class

The 5545M Hazardous Location Remote Speaker/ Amplifier has been designed for high decibel system operation when connected to the 5540M Central Tone Generator or 5541M System Master Panel.

Features and Specifications

- Corrosion resistant electrostatic heat flowed epoxy finish
- Individual volume control
- Speaker swivels 180° vertically or horizontally depending on orientation of mounting bracket
- 30" (762mm) numbered wire leads
- Supplied with factory sealed 1/2" (13mm) threaded fitting for quick installation
- Heavy duty zinc cast construction
- 100dB @ 1m (90dB @ 10ft.)
- UL listed for Class 1, Div. 1 and 2, Groups B, C and D harzardous locations

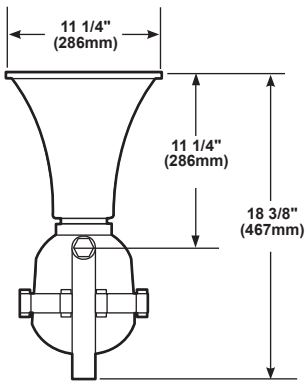
Ordering Information

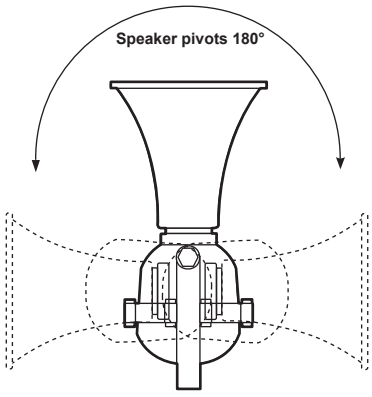
Description	Cat. No.	Operating Voltage[1]	Typical Current	
			Standby	Tone On
High Decibel, Explosionproof	5545M-AQ	24V DC	0.061 A	0.47 A
		24V AC	0.25 A	0.95 A
	5545M-Y6	120-240V AC	0.10 A	0.28-0.15 A
		125-250V DC	0.11-0.02 A	0.15-0.08 A
	5545M-25Y6	120-240V AC	0.10 A	0.28-0.15 A
		125-250V DC	0.11-0.02 A	0.15-0.08 A
	5545M-70Y6	120-240V AC	0.10 A	0.28-0.15 A
		125-250V DC	0.11-0.02 A	0.15-0.08 A

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5545M-AQ	16.50	23.50
5545M-Y6	16.50	23.50
5545M-25Y6	16.50	23.50
5545M-70Y6	16.50	23.50





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EDWARDS
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Electronic Audible Signals
Paging Devices
Millennium Class

5542RPU Remote Paging Unit
Sends audio page to, and is powered by the 5540MP-24Y6. Input is received from a microphone input or audio pair signal source such as phone PBX. Indoor, Type 2 enclosure when flush wall mounted. Indoor, Type 12 or 2 when mounted to outdoor listed 4" square utility box. Outdoor, Type 3R and Indoor Type 12 or 2 when mounted with 5542WPK to outdoor listed 4" square utility box.

5542RPU-M Remote Paging Unit
Same as 5542RPU but includes 5542MIC-H Hand Held Microphone.

5542MIC-H Hand Held Microphone
Optional. May be plugged into 5542 RPU either permanently or as needed.

5542MIC-D Desktop Microphone
Optional. May be plugged into 5542RPU either permanently or as needed.

5542WPK Mounting Kit Optional. Intended for use with 5542RPU or 5542RPU-M to provide Type 3R outdoor protection for the 5542RPU series.

Mounting kit for use with the 5542 Series Remote Paging Unit. The mounting kit is UL Listed, CSA Certified and has a Type 3R rating when mounted to the box (included).

MR-201/C Relay
Optional. Used to enable the audio output from the 5540MP-24Y6 to override output from other sources to the same 5532B or 5532BHV series, 5532M or 5532MHV series, 5536M or 5536MHV series, and 5545B series products in the system.

Features and Specifications

- Suitable for outdoor applications when mounted with 5542WPK
- Optional Desk Microphone
- Removeable Microphones
- UL 464 and cUL C22.2 listed No. 205
- NEMA Type 3R

Ordering Information

Description	Cat. No.
Remote Paging Unit	**5542RPU**
Remote Paging Unit	**5542RPU-M**

Accessories

Description	Cat. No.
Hand Held Microphone	**5542MIC-H**
Desktop Microphone	**5542MIC-D**
Mounting Kit	**5542WPK**
Relay	**MR-201/C**

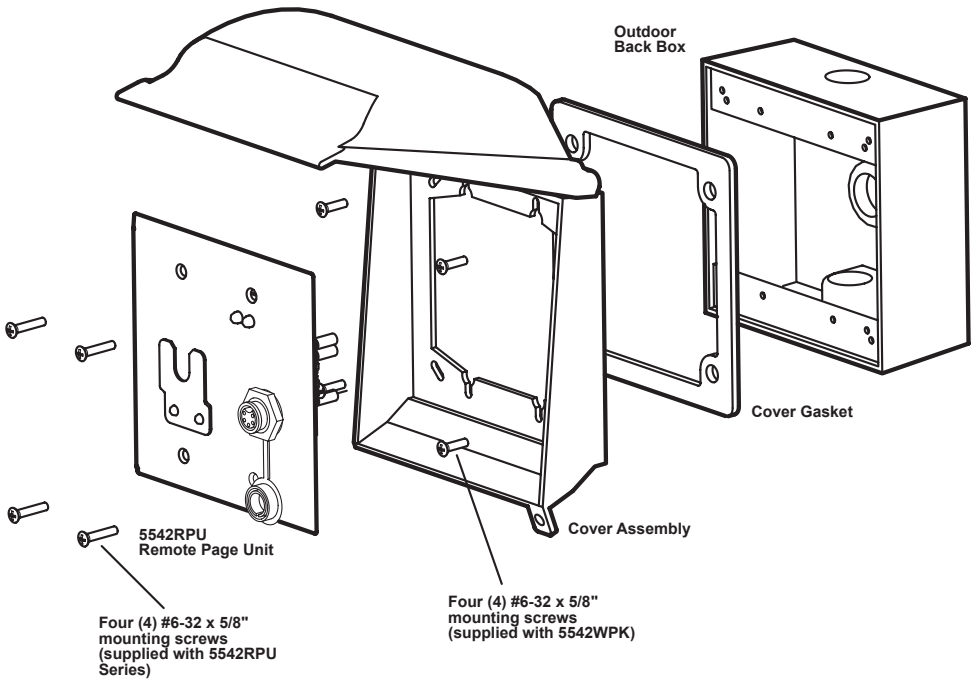
3R ENCLOSURE

Electronic Audible Signals
Paging Devices
Millennium Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5542RPU	0.50	0.70
5542RPU-M	1.31	1.88
5542MIC-H	0.81	1.18
5542MIC-D	1.75	2.31
5542WPK	0.42	0.70
MR-201/C	0.50	0.85

5542RPU with 5542WPK Mounting Kit (suitable for outdoor applications)



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Electronic Audible Signals
Tone Selection
Millennium Class

Tones

Tone	Description	HEX	27 Tone Models	55 Tone Models	Standard Volume	High Volume
Ding-Dong	Percussive pairs of 700 & 570 Hz tones, damped to zero	01	X	X	98	101
Warble	575 & 770 Hz alternately, 87 ms each	02	X	X	104	107
Siren	600-1250 Hz up & down sweep in 8 seconds & repeat	03	X	X	99	102
Stutter	Percussive 470 Hz, 83 ms on, 109 ms off	04	X	X	103	106
Slow Whoop	600-1250 Hz upward sweep in 4 seconds & repeat	05	X	X	110	113
Beep	470 Hz, 0.55 seconds on, 0.55 seconds off	06	X	X	102	105
Chime 1	700 Hz percussive repeat at 1 Hz	07	X	X	98	101
Fast Whoop	600-1250 Hz upward sweep in 1 second & repeat	08	X	X	110	113
Hi/Lo	780 to 600 Hz alternately, 0.52 seconds each	09	X	X	105	108
Rapid Siren	600-1250 Hz up & down sweep in 0.25 seconds & repeat	0A	X	X	107	110
Yeow	1250-600 Hz downward sweep in 1.6 seconds and repeat	0B	X	X	110	113
Horn	470 Hz continuous	0C	X	X	102	105
Air Horn	370 Hz continuous	0D	X	X	102	105
Dual Tone	450-500 Hz, 0.4 to 0.5 second cycle	0E	X	X	103	106
Chime 2	575 Hz percussive repeat at 1 Hz	0F	X	X	96	99
Westminster	Two measures, 411 Hz, 520 Hz, 407 Hz, 312 Hz	10	X	X	98	101
Three Blind Mice	Four measures, 787 Hz, 714 Hz, 625 Hz, 952 Hz, 333 Hz	11	X	X	101	104
Phasor	416-625 Hz up and down sweep in 13 ms and repeat	12	X	X	102	105
Telephone	570 & 770 Hz alt., 50 ms each for 1.2s, 1.5s delay & repeat	13	X	X	103	106
Staircase	440-2000 Hz up & down steps, 750 ms delay & repeat	14	X	X	107	110
3 Tone Alert	463, 641 & 896 Hz, 200 ms each, 1 second delay & repeat	15	X	X	106	109
Presignal Chime	470 Hz percussive repeat at 1.5 Hz, followed by Message 1	16	X	X	95	98
NFPA Whoop	Three 422-775 Hz upward sweeps, 850 ms ea., 1s delay & repeat	1B	X	X	104	107
3 Pulse Horn	470 Hz, 3 0.5 sec. pulses separated by 0.5 sec. followed by a 1.5 second delay & repeat — For Evacuation Use Only	1C	X	X	107	110
3 Pulse Air Horn	370 Hz, 3 0.5 sec. pulses separated by 0.5 sec. followed by a 1.5 second delay and repeat	1D	X	X	107	110
3 Pulse Dual Tone	450-500 Hz, 0.4 to 0.5 sec. cycle, 3 0.5 sec. pulses — **For Evacuation Use Only**	1E	X	X	105	108
3 Pulse Chime 2	575 Hz, 3 0.5 sec. pulses separated by 0.5 sec. followed by a 1.5 second delay & repeat — For Evacuation Use Only	1F	X	X	95	9
European Police	969 Hz and 800 Hz alternately 0.250 seconds each	20		X		
European Fire	982 Hz and 864 Hz downward sweep in 0.134 seconds	21		X		
European Slow Whoop	658 Hz to 1312 Hz upward sweep in 3 seconds followed by 0.5 second delay & repeat	22		X		
European General	1087 Hz for 0.5 seconds followed by 0.5 second delay & repeat	23		X		
European Toxic	982 Hz continuous	24		X		
European Police 2	554 Hz & 440 Hz alternately 0.800 seconds each	25		X		
European Stutter	3876 Hz for 0.146 sec. followed by 0.102 sec. delay & rep.	26		X		
European Sweep	1315 Hz to 413 Hz downward sweep in 1.17 sec. & repeat	27		X		
Telephone 2	Alternate tones at 567 Hz & 326 Hz, for 0.052 seconds each	28		X		
Buzzer 1	1315 Hz & 746 Hz alternating for 0.003 seconds each	29		X		
Genesis Horn Continuous	Continuous Genesis horn	2A		X		
Genesis Horn Temporary	Temporal Genesis horn	2B		X		
Warning 1	1207 Hz & 493 Hz, alternately 0.002 seconds each	2C		X		
Warning 2	2336 Hz & 493 Hz, alternately 0.005 seconds each	2D		X		
Warning 2 Beep	0.500 second of 2336 Hz & 493 Hz, each alternating for 0.005 seconds, followed by 1 second delay	2E		X		
Caution	453 Hz for 0.040s, 235 Hz for 0.020s, 235 Hz for 0.160s, 260 Hz for 0.050s, 260 Hz for 0.1009s, 235 Hz for 0.050s	2F		X		
Multi-Tone	376, 357, 352, 382, 355, 375, 384, 375 & 364 Hz alternately on for 0.050 seconds	30		X		
Attention	2232, 4545, 3704, 2777, 4347, 3704, 2500 Hz alternately on for 0.003 seconds	31		X		
High Frequency Steady Alert	2500 Hz continuous	32		X		
High Frequency Fast Siren	2500 to 3048 Hz up & down sweep in 0.130 seconds	33		X		
High Frequency Slow Siren	2500 to 3048 Hz up & down sweep in 0.500 seconds	34		X		
DIN PFEER	Ramp downward from 1336 to 522 Hz in 1.2 sec. & repeat	35		X		
NFS 32 001	584 Hz for 0.100 seconds & 461 Hz for 0.400 seconds	36		X		
Ode to Joy	6.45 seconds of melody followed by 1 sec. delay & repeat	37		X		
Twinkle Twinkle Little Star	13.2 sec. of melody followed by 1 sec. delay & repeat	38		X		
Dueling Banjos	10.84 sec. of melody followed by 1 sec. delay & repeat	39		X		
La Cucaracha	7.10 sec. of melody followed by 1 sec. delay & repeat	3A		X		
Yellow Rose of Texas	19.34 sec. of melody followed by 1 sec. delay & repeat	3B		X		

EDWARDS

Safety: Priority 1

"With lives at stake, there is no room for error.

In our facility, ensuring employee safety is ALWAYS our top priority.

That's why when it comes to choosing hazardous location signaling products, we always turn to Edwards.

It's that simple."

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Product Index

Working in a hazardous environment is not a challenge to be taken lightly. Designed for Division 1 and 2 hazardous locations, Edwards offers UL and cUL listed signaling devices for just about any facility installation. Rigid specifications, flexibility and state-of-the-art technology provide for high performance and low maintenance operation – creating the ideal signaling solution.

Hazardous Location Signals

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Hazardous Location Signals
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Beacons: Explosionproof
Multi-Mode LED
116 Series

NEW

The 116 Series LED Beacon is suitable for use in explosionproof and hazardous location applications such as oil platforms, refineries, granaries and chemical plants. UL and cUL listed for use in Class 1, Division 1 and 2 applications, this beacon is designed for areas requiring high visibility and notification as well as low maintenance. The long life LEDs reduce maintenance requirements by up to 90% when compared to a Xenon strobe tube. The LED light emits a 360-degree beam of light with 13 user selectable flash patterns in addition to a steady-on mode.

These beacons are UL and cUL listed for outdoor use as NEMA Type 3R, 4X, and Marine Rated enclosures. Mounting options are available (ordered separately) for ceiling, wall, pendant and stanchion mounts. The unit is supplied with a guard installed over the clear dome for additional protection against impact.

Features and Specifications

- Multi-mode LED (steady-on plus thirteen flash patterns)
- LED light source
- Five lens colors
- Ceiling, pendant, wall or stanchion mounting options (ordered separately)
- NEMA Type 3R, 4X and Marine Rated enclosures
- Explosionproof: Class I, Div 1, Groups C and D; Class I, Div 2, Groups A, B, C and D; Class II, Div 1 and 2, Groups E, F and G;Class III, Div 1 and 2

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	LED/Lens Colors	Flash Rate
Multi-mode LED	**116EXMLEDA-Y6**	120-240V AC 125-250V DC	0.215 A 0.176 A	Amber	Adjustable See Flash Mode Selection
	116EXMLEDB-Y6	120-240V AC 125-250V DC	0.215 A 0.176 A	Blue	Adjustable See Flash Mode Selection
	116EXMLEDW-Y6	120-240V AC 125-250V DC	0.215 A 0.176 A	White/Clear[2]	Adjustable See Flash Mode Selection
	116EXMLEDG-Y6	120-240V AC 125-250V DC	0.215 A 0.176 A	Green	Adjustable See Flash Mode Selection
	116EXMLEDR-Y6	120-240V AC 125-250V DC	0.215 A 0.176 A	Red	Adjustable See Flash Mode Selection
	116EXMLEDA-AQ	24V AC/DC	1.18A AC 0.79A DC	Amber	Adjustable See Flash Mode Selection
	116EXMLEDB-AQ	24V AC/DC	1.18A AC 0.79A DC	Blue	Adjustable See Flash Mode Selection
	116EXMLEDG-AQ	24V AC/DC	1.18A AC 0.79A DC	Green	Adjustable See Flash Mode Selection
	116EXMLEDR-AQ	24V AC/DC	1.18A AC 0.79A DC	Red	Adjustable See Flash Mode Selection
	116EXMLEDW-AQ	24V AC/DC	1.18A AC 0.79A DC	White/Clear[2]	Adjustable See Flash Mode Selection

[1]AC voltage frequency is 50/60 Hz
[2]For most LED beacons, the LED color and lens color are the same. White LEDs are used with a clear inner lens for the White model.

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Beacons: Explosionproof
Multi-Mode LED
116 Series

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**[1]	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT

[1]Note: Wall mount requires both 116EX-B and 116EX-C.

Hazardous Location Ratings

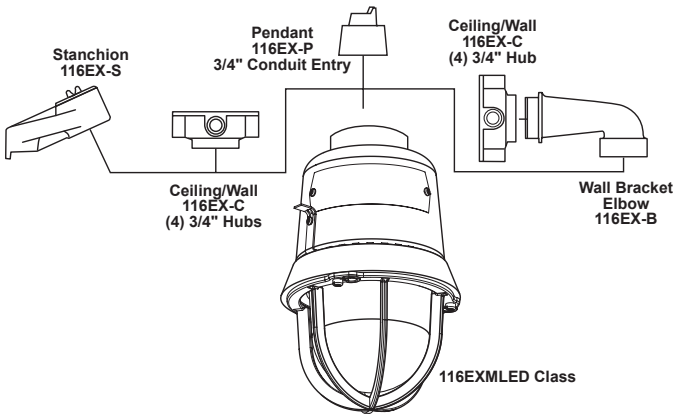
Cat. No.	Operating Temperature						
	Ambient Temp.	Supply Wire Temp. Marking	Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II, Div. 1 Groups E, F, G	Class II, Div. 2 Groups F, G	Class III, Div. 1 & 2
116 Series LED Beacon	40°C	75°C	T4 (135°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3C (160°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T3C (160°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)	T4 (135°C)

Flash Mode Selection

Pattern	Description	Switch S4	Switch S3	Switch S2	Switch S1
Steady-On	Steady	OFF	OFF	OFF	OFF
Multiburst 1	7 Bursts - Delay- Repeat	OFF	OFF	OFF	ON
Multiburst 2	5 Bursts - Delay - Repeat	OFF	OFF	ON	OFF
Multiburst 3	10 Bursts - 3 Bursts - Repeat	OFF	OFF	ON	ON
Multiburst 4	8 Bursts - delay w/slight illumination - Repeat	OFF	ON	OFF	OFF
Flash 1	65 FPM 10% Duty Cycle	OFF	ON	OFF	ON
Flash 2	65 FPM 25% Duty Cycle	OFF	ON	ON	OFF
Flash 3	65 FPM 50% Duty Cycle	OFF	ON	ON	ON
Flash 4	65 FPM 75% Duty Cycle	ON	OFF	OFF	OFF
Flash 5	80 FPM 10% Duty Cycle	ON	OFF	OFF	ON
Flash 6	80 FPM 25% Duty Cycle	ON	OFF	ON	OFF
Flash 7	80 FPM 50% Duty Cycle	ON	OFF	ON	ON
Flash 8	80 FPM 75% Duty Cycle	ON	ON	OFF	OFF
Ramper	Ramps up and then ramps down	ON	ON	OFF	ON

Beacons: Explosionproof
Multi-Mode LED
116 Series

Mounting Options



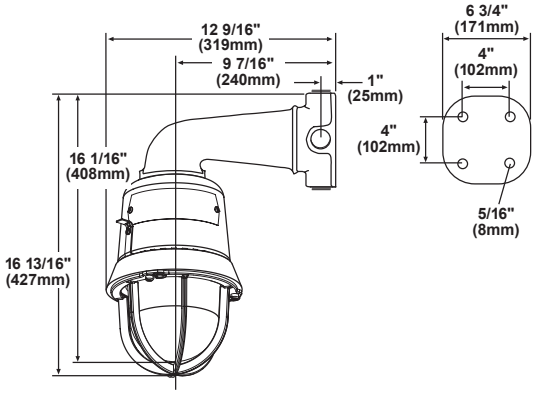
NOTE: 116EX-C must be used when application requires 116EX-B

Weights and Dimensions

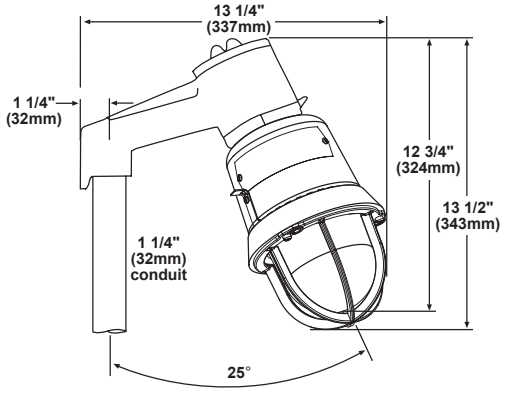
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXMLEDA-Y6	11.40	12.44
116EXMLEDB-Y6	11.40	12.44
116EXMLEDW-Y6	11.40	12.44
116EXMLEDG-Y6	11.40	12.44
116EXMLEDR-Y6	11.40	12.44
116EXMLEDA-AQ	11.40	12.44
116EXMLEDB-AQ	11.40	12.44
116EXMLEDG-AQ	11.40	12.44
116EXMLEDR-AQ	11.40	12.44
116EXMLEDW-AQ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

NOTE: For most LED beacons, the LED color and lens color are the same. White LEDs are used with a clear inner lens for the clear model.

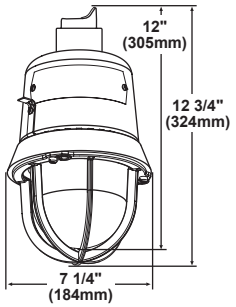
Wall Mount
116EX-B



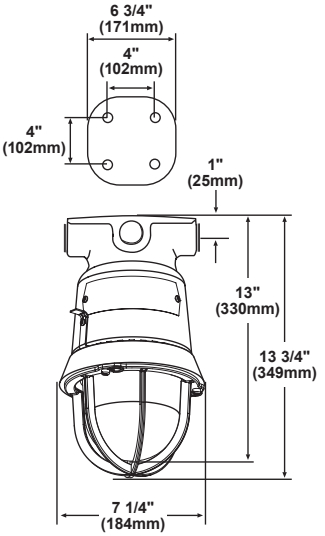
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons: Intrinsically Safe
Flashing LED
Klaxon Syrex Series

The Syrex IS beacon is an intrinsically safe visual beacon suitable for use in hazardous area applications.

With a low current consumption, the Syrex IS beacon is ideal for both warning and process control applications.

The Syrex IS beacon must be used with a galvanic isolator specified by the system certificates.

Features and Specifications

- LED light source
- Rated for Category 1
- ATEX approved
- Ⓔx II 1G EEx ia IIC T4
- ABS flame retardant UL94V0 and 5VA housing
- IP65 rated
- Flash rate 2 Hz or 1 Hz (double flash)
- Operating temperature range: -40ºF to 140ºF (-40ºC to 60ºC)

R A G B

Ordering Information

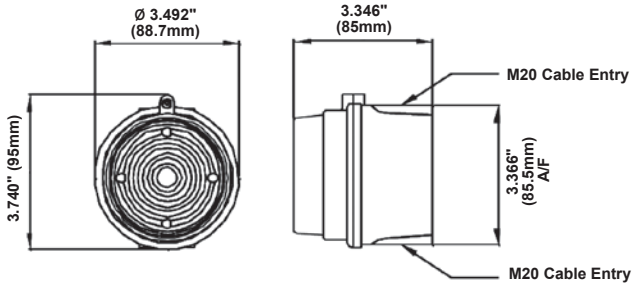
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Lens Color
IS-XN Beacon	**17-970329**	**TCA-0026**	6-28V DC	0.025 A	Red
	17-970337	**TCA-0033**	6-28V DC	0.025 A	Amber
	17-970338	**TCA-0034**	6-28V DC	0.025 A	Blue
	17-970339	**TCA-0067**	6-28V DC	0.025 A	Green

Accessories

Description	Edwards Cat. No.	Klaxon Cat. No.
Single Channel Galvanic Isolator	**17-970362**	**TCA-0042**
Dual Channel Galvanic Isolator	**17-970395**	**TCA-0066**
IS DIN Rail Enclosure (will accept 2X isolators)	**17-970392**	**TCA-0065**

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
17-970329	**TCA-0026**	0.77
17-970337	**TCA-0033**	0.77
17-970338	**TCA-0034**	0.77
17-970339	**TCA-0067**	0.77
17-970362	**TCA-0042**	0.50
17-970395	**TCA-0066**	0.50
17-970392	**TCA-0065**	0.50



DC | 140°F -40°F OP TEMP | LED | EX-PROOF | HAZ-LOC | IP65 ENCLOSURE | Ex

Beacons: Explosionproof
Flashing Xenon
116 Series

NOTE: Mounting options not included (ordered separately)

Edwards 116DEXMST-FJ and 116EXMST Series Xenon strobe beacons are explosionproof, signaling devices suitable for use in hazardous indoor or outdoor applications requiring NEMA Type 3R or 4X installations. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

The 116DEXMST-FJ Series is Diode Polarized for use in electrically supervised circuits. Both versions can be bracket, ceiling, pendant or stanchion mounted.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- Diode Polarized for use in electrically supervised circuits (116DEXMST-FJ Series only)
- Suitable for indoor and outdoor hazardous applications
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- Explosionproof: Class I, Div 2, Groups A and B, Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Groups F and G

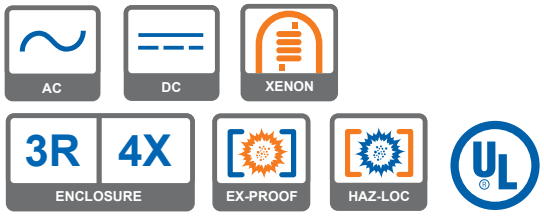
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement Dome	Replacement Inner Lens	Replacement Strobe Tube
Xenon Strobe AC	**116EXMSTA-N5**	120V AC	0.1 A	Amber	800,000	116-Globe	116-ST-LA	92-ST 3,000 hours.[2]
	116EXMSTB-N5	120V AC	0.1 A	Blue	800,000	116-Globe	116-ST-LB	
	116EXMSTC-N5	120V AC	0.1 A	Clear	800,000	116-Globe	116-ST-LC	
	116EXMSTG-N5	120V AC	0.1 A	Green	800,000	116-Globe	116-ST-LG	
	116EXMSTM-N5	120V AC	0.1 A	Magenta	800,000	116-Globe	116-ST-LM	
	116EXMSTR-N5	120V AC	0.1 A	Red	800,000	116-Globe	116-ST-LR	
Diode Polarized DC	**116DEXMSTA-FJ**	16 - 33V DC	0.95 A - 0.55 A	Amber	800,000	116-Globe	116-ST-LA	92-ST 3,000 hours.[2]
	116DEXMSTB-FJ	16 - 33V DC	0.95 A - 0.55 A	Blue	800,000	116-Globe	116-ST-LB	
	116DEXMSTC-FJ	16 - 33V DC	0.95 A - 0.55 A	Clear	800,000	116-Globe	116-ST-LC	
	116DEXMSTG-FJ	16 - 33V DC	0.95 A - 0.55 A	Green	800,000	116-Globe	116-ST-LG	
	116DEXMSTM-FJ	16 - 33V DC	0.95 A - 0.55 A	Magenta	800,000	116-Globe	116-ST-LM	
	116DEXMSTR-FJ	16 - 33V DC	0.95 A - 0.55 A	Red	800,000	116-Globe	116-ST-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT



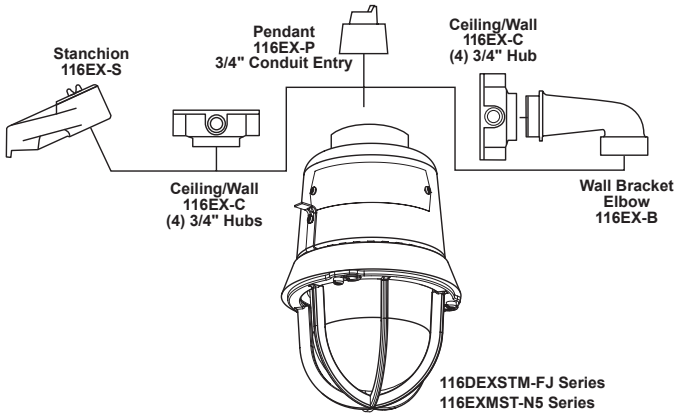
Beacons: Explosionproof
Flashing Xenon
116 Series

Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature			
			Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group F, G
116DEXSTM*-FJ	40°C	75°C	T2D (215°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2C (230°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
116EXMST*-N5	40°C	75°C	T4 (135°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3C (160°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T3C (160°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

Mounting Options

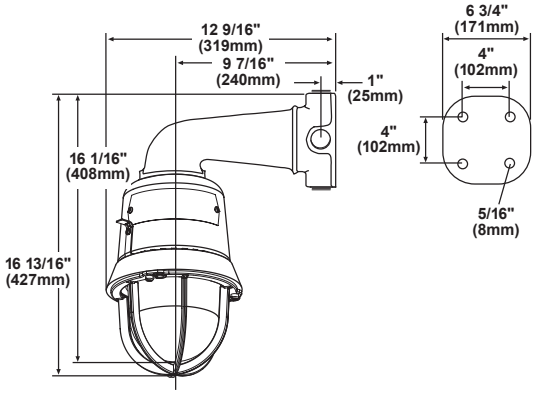


Beacons: Explosionproof
Flashing Xenon
116 Series

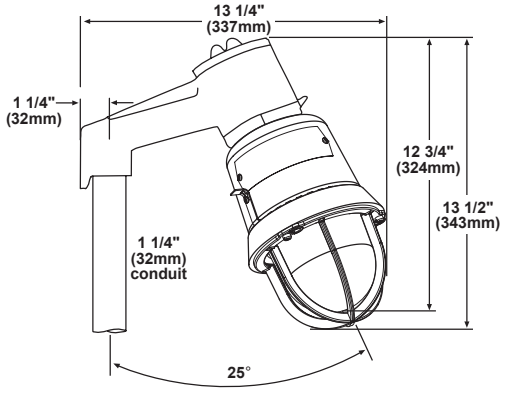
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXMSTA-N5	11.40	12.44
116EXMSTB-N5	11.40	12.44
116EXMSTC-N5	11.40	12.44
116EXMSTG-N5	11.40	12.44
116EXMSTM-N5	11.40	12.44
116EXMSTR-N5	11.40	12.44
116DEXMSTA-FJ	11.40	12.44
116DEXMSTB-FJ	11.40	12.44
116DEXMSTC-FJ	11.40	12.44
116DEXMSTG-FJ	11.40	12.44
116DEXMSTM-FJ	11.40	12.44
116DEXMSTR-FJ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

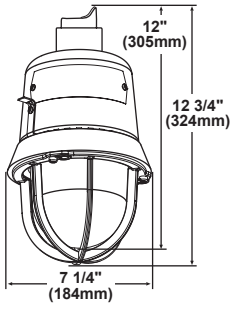
Wall Mount
116EX-B



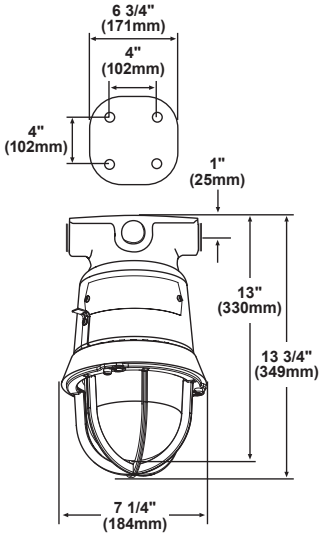
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C

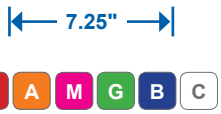


Beacons: Explosionproof
Flashing Xenon
116 Series

Edwards 116EXST-EK Series Xenon strobe beacons are explosionproof, signaling devices suitable for use in hazardous indoor or outdoor applications requiring NEMA Type 3R or 4X installations. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- Suitable for indoor and outdoor hazardous applications
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Groups F and G



NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement Dome	Replacement Inner Lens	Replacement Strobe Tube
Xenon Strobe	**116EXSTA-EK**	12 - 48V DC	1.2 - 0.38 A	Amber	800,000	116-Globe	116-ST-LA	92-ST 3,000 hr.[1]
	116EXSTB-EK	12 - 48V DC	1.2 - 0.38 A	Blue	800,000	116-Globe	116-ST-LB	
	116EXSTC-EK	12 - 48V DC	1.2 - 0.38 A	Clear	800,000	116-Globe	-	
	116EXSTG-EK	12 - 48V DC	1.2 - 0.38 A	Green	800,000	116-Globe	116-ST-LG	
	116EXSTM-EK	12 - 48V DC	1.2 - 0.38 A	Magenta	800,000	116-Globe	116-ST-LM	
	116EXSTR-EK	12 - 48V DC	1.2 - 0.38 A	Red	800,000	116-Globe	116-ST-LR	

[1]Calculated at operating power to 75% efficiency.

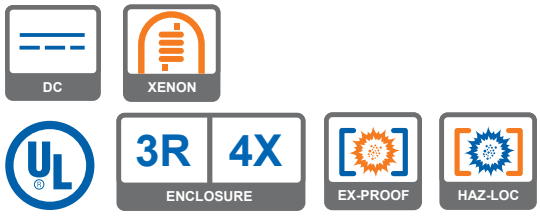
Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT

Hazardous Location Listings

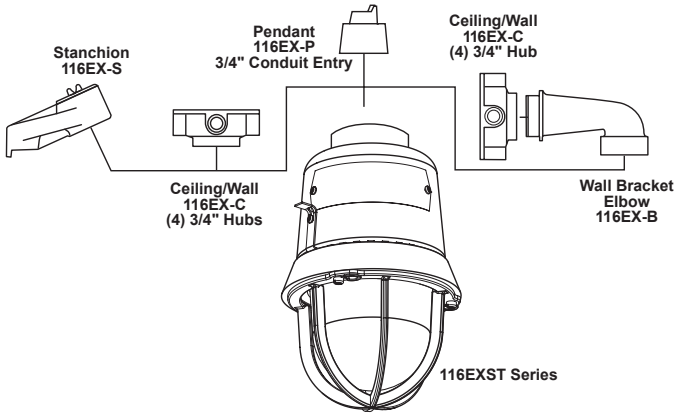
Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature: Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116EXST*-EK	40°C	75°C	T3 (200°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3 (200°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2D (215°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red



Beacons: Explosionproof
Flashing Xenon
116 Series

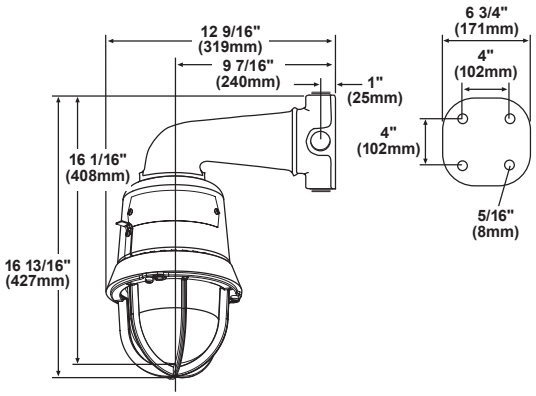
Mounting Options



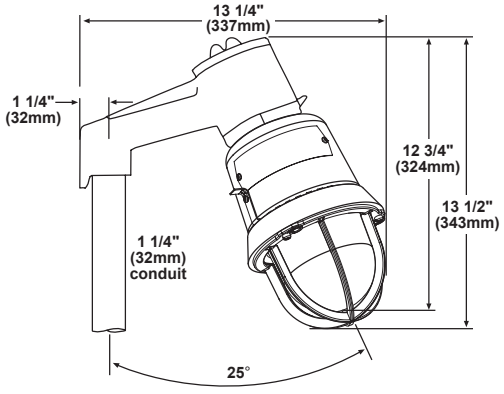
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXSTA-EK	11.40	12.44
116EXSTB-EK	11.40	12.44
116EXSTC-EK	11.40	12.44
116EXSTG-EK	11.40	12.44
116EXSTM-EK	11.40	12.44
116EXSTR-EK	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

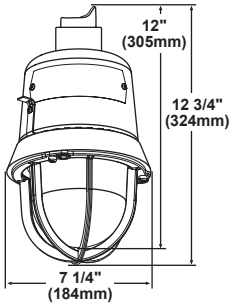
Wall Mount
116EX-B



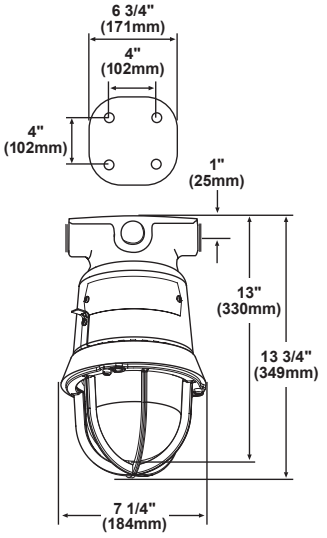
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



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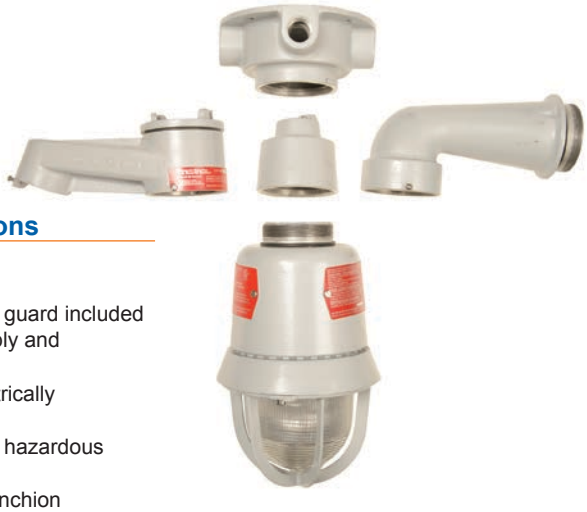
Beacons: Explosionproof
Flashing Xenon
116 Series



Edwards 116DEXSTC-FJ Series Xenon strobe beacons are explosionproof, signaling devices suitable for use in hazardous indoor or outdoor applications requiring NEMA Type 3R or 4X installations. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

The 116DEXSTC-FJ Series is Diode Polarized for use in electrically supervised circuits, such as fire alarm systems. The strobe, when wall, ceiling or pendant mounted, is UL 1971 listed (ADA) for indoor visual signaling applications for the hearing impaired in non-sleeping areas. The unit can be stanchion mounted as well (non-fire alarm use).

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- Diode Polarized for use in electrically supervised circuits
- Suitable for indoor and outdoor hazardous applications
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- UL 1971 Listed (ADA)
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Groups F and G

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Candela	Replacement	
						Dome	Strobe Tube
Xenon Strobe	**116DEXSTC-FJ**	24V DC	0.774 A (Max. DC) 1.14 A (Max. FWR)	Clear	60[2]	116-Globe	92-ST 3,000 hours.[3]

[1]UL Regulated 16V to 33V DC/FWR.
[2]UL1971 Fire Alarm output rating, 800,000 peak candela for non-fire alarm listing.
[3]Calculated at operating power to 75% efficiency.

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B[4]**	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module[5]	**116EX-S**	1 1/4" NPT

[4]Wall mount requires both 116EX-B and 116EX-C.
[5]For non-fire alarm use.

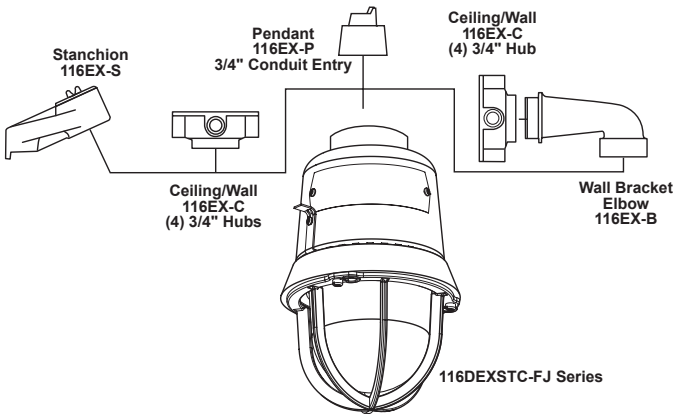
Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature			
			Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group F, G
116DEXSTC-FJ	40°C	75°C	T2D (215°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2C (230°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

DC XENON UL 3R 4X ENCLOSURE EX-PROOF HAZ-LOC

Beacons: Explosionproof
Flashing Xenon
116 Series

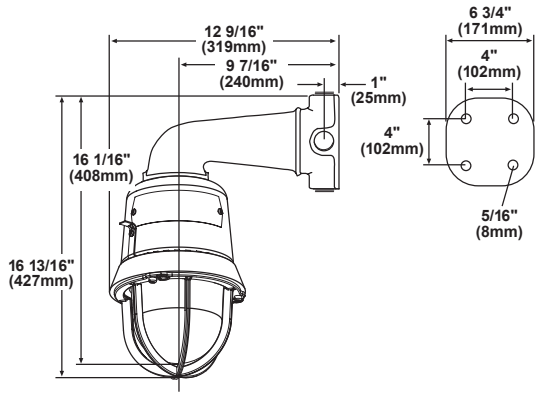
Mounting Options



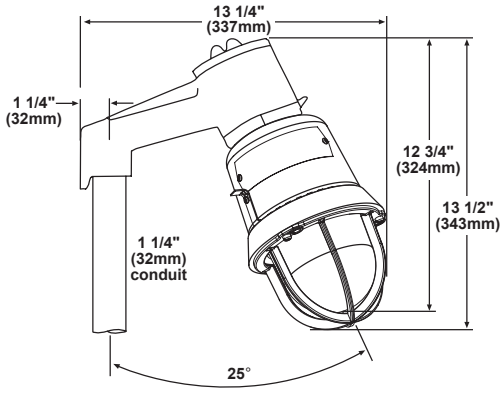
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEXSTC-FJ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

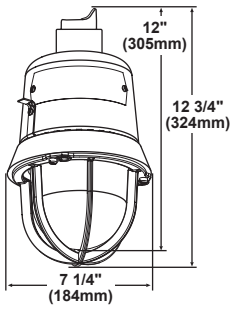
Wall Mount
116EX-B



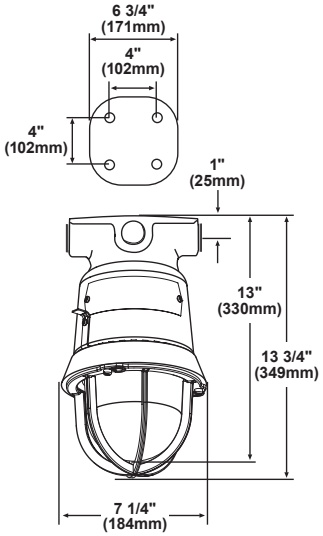
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



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Beacons: Explosionproof Fire Alarm
Flashing Xenon
116 Series

NEW

NOTE: Mounting options not included (ordered separately)

Edwards 116 Series Genesis fire alarm strobe is designed for use in Class 1, Division 1 and 2 explosionproof and hazardous location applications where electrical supervision is required. The diode-polarized strobe is intended for indoor use in UL 1971 listed compatible fire alarm systems and is ADA compliant for the hearing impaired.

116 Series Genesis strobe provides 125 cd ceiling and 60 cd wall light output. With the guard installed, the strobe flashes with an output of 86 cd ceiling and 51 cd wall.

These units are UL 1638 and cUL listed for outdoor use as a NEMA Type 3R and 4X enclosure; and Canada (cUL) to Canadian standard ULC-S526-07 suitable for indoor or outdoor applications.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

Features and Specifications

- Xenon light source
- Flash rate 60 fpm
- Clear globe with dome guard
- Three mounting options: wall, ceiling, or pendant (ordered separately)
- Negligible in-rush current
- Approved for fire alarm applications
- NEMA Type 3R and 4X enclosures
- Can be synchronized when connected to a compatible Edwards control panel, booster power supply or synchronization module
- UL 1638, UL 1971 and cUL Listed
- Explosionproof: Class I, Div. 2, Groups A and B; Class I, Div. 1 and 2, Groups C and D; Class II, Div. 1, Groups E, F, G and Class III; Class II, Div. 2, Groups F, G and Class III.

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Replacement Dome	Replacement Guard
Explosionproof Fire Alarm Strobe	**116DEGEX-FJ**	24V DC	0.505 A, DC, RMS 0.683 A, FWR, RMS	Clear	116-Globe	116-GRD

[1]Regulated 16 to 33V DC/FWR.

Required Mounting Options[2]

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B[3]**	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT

[2]Mounting modules must be ordered separately.
[3]Note: Wall mount requires both 116EX-B and 116EX-C.

Accessories

Description	Cat. No.	Conduit Size
Synchronization Module	**EG1M-RM**	—

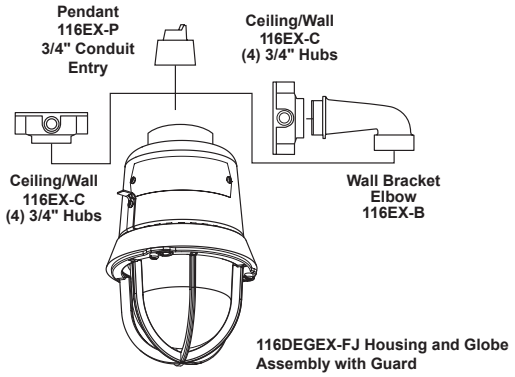
Hazardous Location Ratings

Cat. No.	Operating Temperature: Ambient Temp.	Supply Wire Temp. Marking	Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II, Div. 1 Groups E, F, G, & Class III	Class II, Div. 2 Groups F, G, & Class III
116 Series	40°C	75°C	T2B (260°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2B (260°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2B (260°C)	T6 (85°C)	T3C (160°C)	T3C (160°C)

DC XENON HAZ-LOC EX-PROOF

Beacons: Explosionproof Fire Alarm
Flashing Xenon
116 Series

Mounting Options

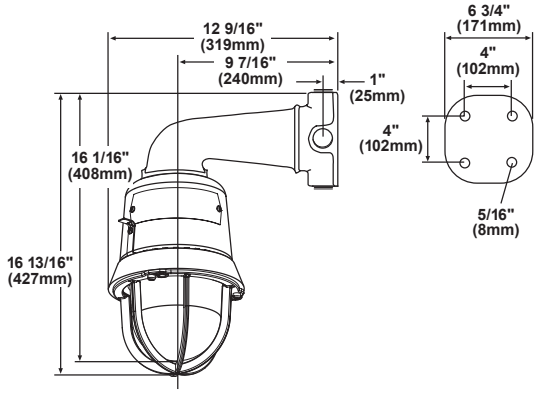


NOTE: 116EX-C must be used when application requires 116EX-B

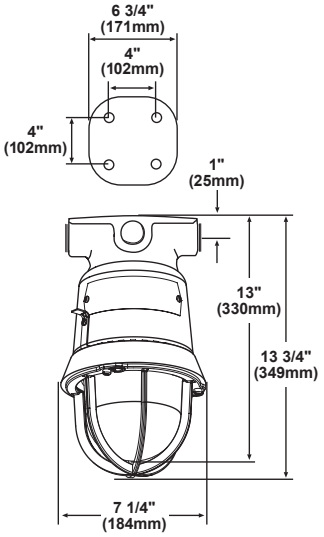
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEGEX-FJ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
EG1M-RM	1.00	1.25

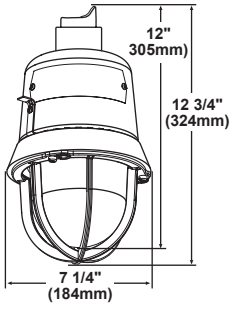
Wall Mount
116EX-B



Ceiling Mount
116EX-C



Pendant Mount
116EX-P



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Beacons: Explosionproof
Flashing Xenon
116 Series

NEW

Edwards 116 Series mass notification strobes are designed for use in Class 1, Division 1 and 2 explosionproof and hazardous location (non fire alarm) applications where electrical supervision is required. The units feature two lenses, an outer clear globe, and an inner colored lens available in amber, red, green, blue or magenta.

This diode-polarized unit is UL 1638 and cUL listed for outdoor use as a NEMA Type 3R and 4X enclosure.The strobe has been evaluated to UL 1971 polar plot requirements with on axis light output values.

The 116 Series features an enhanced synchronization circuit to comply with the latest requirements of UL 1971, signaling devices for the hearing impaired, and the Canadian standard CAN/ULC S526. Synchronized operation requires a separately installed synchronization control module, compatible Edwards control panel or booster power supply.

Mounting options are available (ordered separately) for wall, ceiling and pendant mounts. The unit is supplied with a guard installed over the clear outer globe for additional protection against impact.

Features and Specifications

- Xenon light source
- Clear globe with dome guard
- Five lens colors
- Flash rate 60 fpm
- Three mounting options: wall, ceiling, or pendant (ordered separately)
- Negligible in-rush current
- Can be synchronized when connected to a compatible Edwards control panel, booster power supply or synchronization module
- NEMA Type 3R and 4X enclosures
- Explosionproof: Class I, Div 1, Groups C and D; Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Groups F and G.

R A M G B

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Light Output UL 1971	Replacement	
						Dome	Guard
Explosionproof Mass Notification Strobe	**116DEGEXA-FJ**	24V DC	0.505 A, DC, RMS 0.683 A, FWR, RMS	Amber	36 cd	116-Globe	116-GRD
	116DEGEXB-FJ	24V DC	0.505 A, DC, RMS 0.683 A, FWR, RMS	Blue	14 cd	116-Globe	116-GRD
	116DEGEXG-FJ	24V DC	0.505 A, DC, RMS 0.683 A, FWR, RMS	Green	19 cd	116-Globe	116-GRD
	116DEGEXM-FJ	24V DC	0.505 A, DC, RMS 0.683 A, FWR, RMS	Magenta	9 cd	116-Globe	116-GRD
	116DEGEXR-FJ	24V DC	0.505 A, DC, RMS 0.683 A, FWR, RMS	Red	6 cd	116-Globe	116-GRD

[1]Regulated 16V to 33V DC/FWR.

DC XENON

UL c UL US 3R 4X ENCLOSURE EX-PROOF HAZ-LOC

Beacons: Explosionproof
Flashing Xenon
116 Series

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**[1]	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT

[1]Note: Wall mount requires both 116EX-B and 116EX-C.

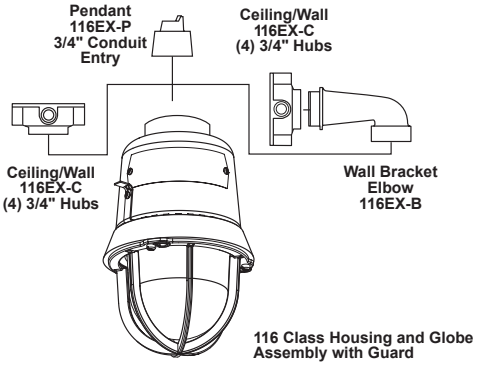
Accessories

Description	Cat. No.	Conduit Size
Synchronization Module	**EG1M-RM**	—

Hazardous Location Ratings

Cat. No.	Operating Temperature					
	Ambient Temp.	Supply Wire Temp. Marking	Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Groups F, G
116 Series	40°C	75°C	T2B (260°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2B (260°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2B (260°C)	T6 (85°C)	T3C (160°C)	T3C (160°C)

Mounting Options



NOTE: 116EX-C must be used when application requires 116EX-B

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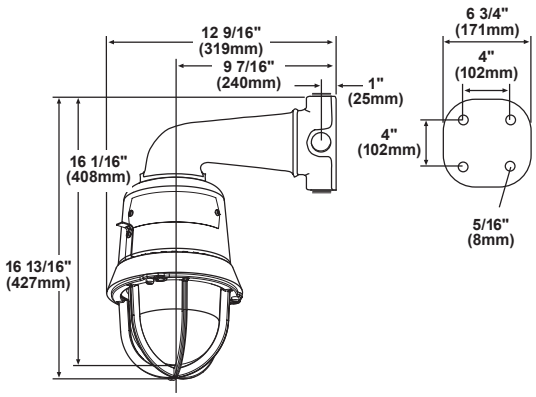
Beacons: Explosionproof
Flashing Xenon
116 Series

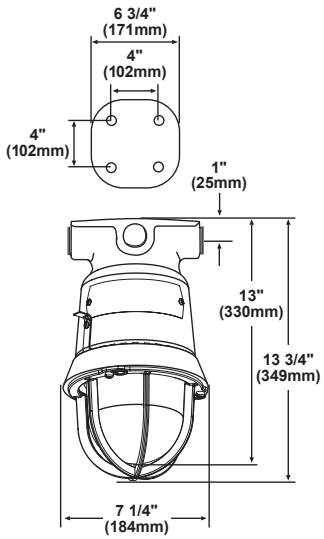
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEGEXA-FJ	11.40	12.44
116DEGEXB-FJ	11.40	12.44
116DEGEXG-FJ	11.40	12.44
116DEGEXM-FJ	11.40	12.44
116DEGEXR-FJ	11.40	12.44
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
EG1M-RM	1.00	1.25

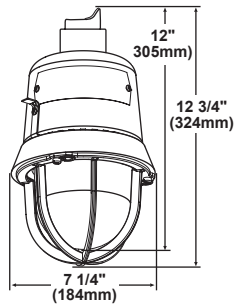
Wall Mount
116EX-B



Ceiling Mount
116EX-C



Pendant Mount
116EX-P



Beacons: Explosionproof
Flashing Xenon
Klaxon Syrex Series

The Exd Beacon is a powerful Xenon beacon suitable for use in hazardous area applications. Certified to II 2G Exd IIC T6, it is suitable for use in Zone 1 and Zone 2 areas. With a choice of two lens colors (red and amber), IP67 ingress protection and rugged design, it is suitable for use in indoor and outdoor applications.

The unit is fitted with two 20mm cable entries and has terminals that accept 4mm² cable for ease of installation. Dual In/Out terminals are also available on request.

Features and Specifications

- Xenon light source
- Marine Grade LM6 aluminum construction
- Lens guard included with beacon
- IP67 rated
- Rated for Category 2 use (formerly Zone 1 & 2)
- ATEX / IECEx Approved
- Ⓔx II 2G Exd IIC T6
- Operating temperature range: -58°F to 104°F (-50°C to 40°C)

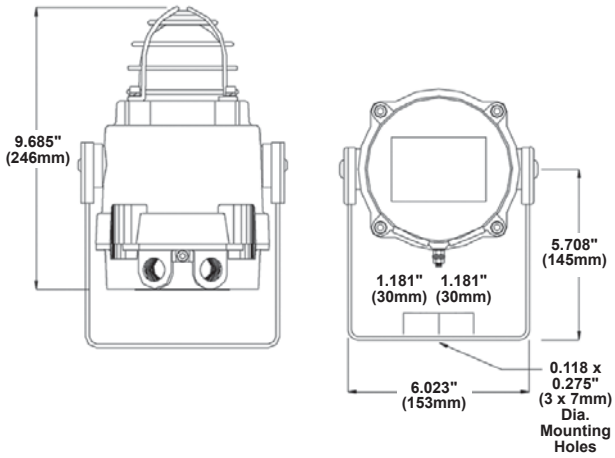
Ordering Information

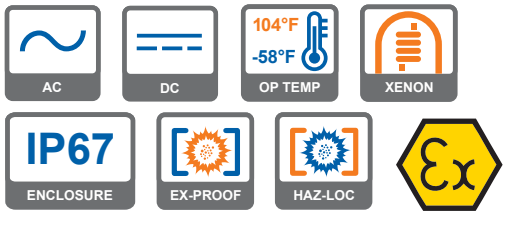
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current	Lens Colors	Light Output
Exd Beacon Xenon Strobe	**17-970273**	**TCA-0068**	110V AC @ 50 Hz[1]	0.140 A	Red	5J
	17-970276	**TCA-0018**	110V AC @ 50 Hz[1]	0.140 A	Amber	5J
	17-970272	**TCA-0014**	230V AC @ 50 Hz[1]	0.055 A	Red	5J
	17-970275	**TCA-0017**	230V AC @ 50 Hz[1]	0.055 A	Amber	5J
	17-970274	**TCA-0015**	24V DC	0.300 A	Red	5J
	17-970277	**TCA-0019**	24V DC	0.300 A	Amber	5J

[1]AC voltage frequency is 50 Hz only.
NOTE: AC models not for U.S. use.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
17-970272	**TCA-0068**	5.40
17-970273	**TCA-0018**	5.40
17-970274	**TCA-0014**	5.40
17-970275	**TCA-0017**	5.40
17-970276	**TCA-0015**	5.40
17-970277	**TCA-0019**	5.40





Beacons: Explosionproof
Rotating Halogen
116 Series

Edwards 116EXMRIN Series rotating beacons are explosionproof, signaling devices suitable for use in hazardous indoor or outdoor applications. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution. The unit can be bracket, ceiling, pendant or stanchion mounted.

Features and Specifications

- Halogen light source
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- Suitable for indoor or outdoor hazardous applications
- 75 rotations per minute
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- Marine rated
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Group G

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement		
						Dome	Inner Lens	Lamp
Rotating Light Halogen	**116EXMRINHA-N5**	120V AC	0.35 A	Amber	3,328	116-Globe	116-RIN-LA	50LMP-40WH 25,000 hours.[2]
	116EXMRINHB-N5	120V AC	0.35 A	Blue	3,328	116-Globe	116-RIN-LB	
	116EXMRINHC-N5	120V AC	0.35 A	Clear	3,328	116-Globe	116-RIN-LC	
	116EXMRINHG-N5	120V AC	0.35 A	Green	3,328	116-Globe	116-RIN-LG	
	116EXMRINHM-N5	120V AC	0.35 A	Magenta	3,328	116-Globe	116-RIN-LM	
	116EXMRINHR-N5	120V AC	0.35 A	Red	3,328	116-Globe	116-RIN-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Projected life based on manufacturer's calculated lamp life.

Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT

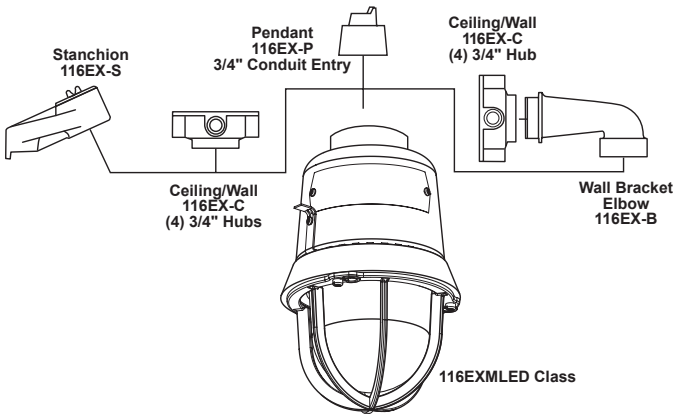
Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature			
			Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116EXMRINH*-N5	40°C	75°C	T1 (450°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T1 (450°C)	T5 (100°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T1 (450°C)	T5 (100°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

Beacons: Explosionproof
Rotating Halogen
116 Series

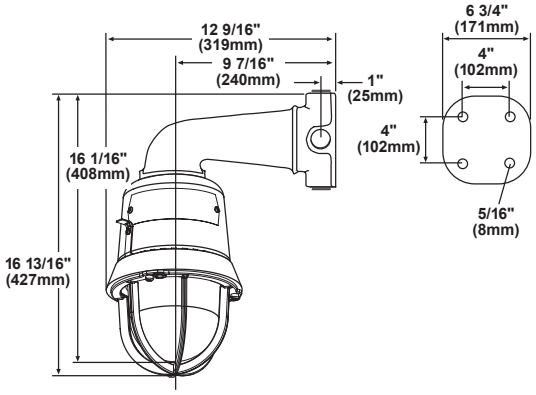
Mounting Options



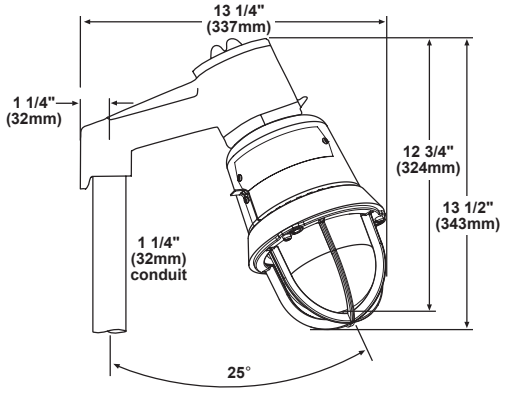
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXMRINHA-N5	11.60	13.00
116EXMRINHB-N5	11.60	13.00
116EXMRINHC-N5	11.60	13.00
116EXMRINHG-N5	11.60	13.00
116EXMRINHM-N5	11.60	13.00
116EXMRINHR-N5	11.60	13.00
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

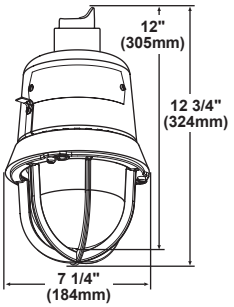
Wall Mount
116EX-B



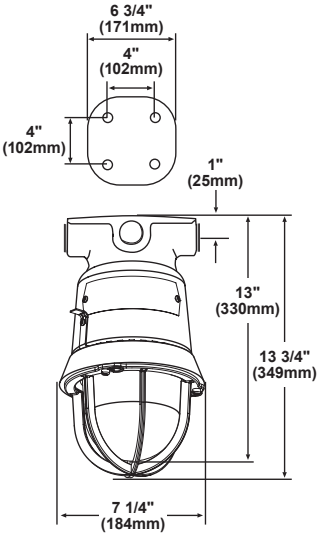
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons: Explosionproof
Rotating Halogen
116 Series

Edwards 116DEXMRINH Series, supervised DC, rotating beacons are explosionproof, signaling devices designed for hazardous indoor or outdoor applications. The housing is cast aluminum with a corrosion resistance epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution. The 116DEXMRINH Series is Diode Polarized for use in electrically supervised circuits and can be bracket, ceiling, pendant or stanchion mounted.

Features and Specifications

- Halogen light source
- High impact glass dome, dome guard included
- Quick connect for easy assembly and installation
- 75 rotations per minute
- Diode Polarized for use in electrically supervised circuits
- Suitable for indoor or outdoor hazardous applications
- Bracket, ceiling, pendant or stanchion mounting options (ordered separately)
- NEMA Type 3R and 4X enclosure
- Marine rated
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Group G

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement Dome	Replacement Inner Lens	Replacement Lamp
Rotating Light Halogen	**116DEXMRINHA-GW**	24 - 28V DC	0.8 A	Amber	2838	116-Globe	116-RIN-LA	50LMP-20WH 25,000 hours.[1]
	116DEXMRINHB-GW	24 - 28V DC	0.8 A	Blue	2838	116-Globe	116-RIN-LB	
	116DEXMRINHC-GW	24 - 28V DC	0.8 A	Clear	2838	116-Globe	116-RIN-LC	
	116DEXMRINHG-GW	24 - 28V DC	0.8 A	Green	2838	116-Globe	116-RIN-LG	
	116DEXMRINHM-GW	24 - 28V DC	0.8 A	Magenta	2838	116-Globe	116-RIN-LM	
	116DEXMRINHR-GW	24 - 28V DC	0.8 A	Red	2838	116-Globe	116-RIN-LR	

[1]Projected life based on manufacturer's calculated lamp life.

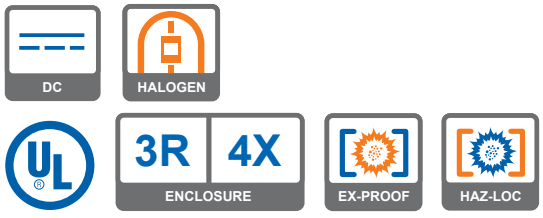
Required Mounting Options

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**	—
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Stanchion Mounting Module	**116EX-S**	1 1/4" NPT

Hazardous Location Listings

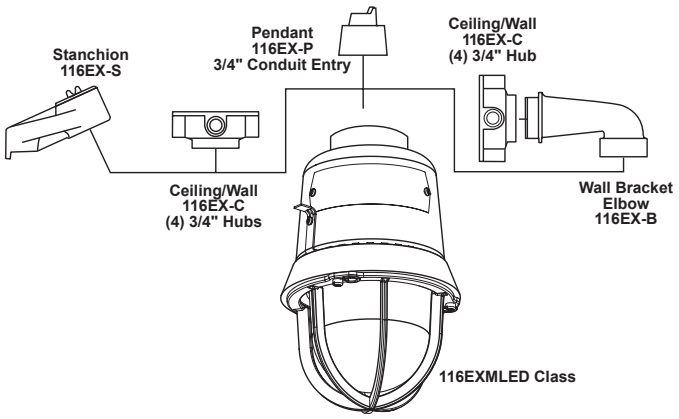
Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature: Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116DEXMRINH*-GW	40°C	75°C	T3 (200°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3 (200°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2D (215°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red



Beacons: Explosionproof
Rotating Halogen
116 Series

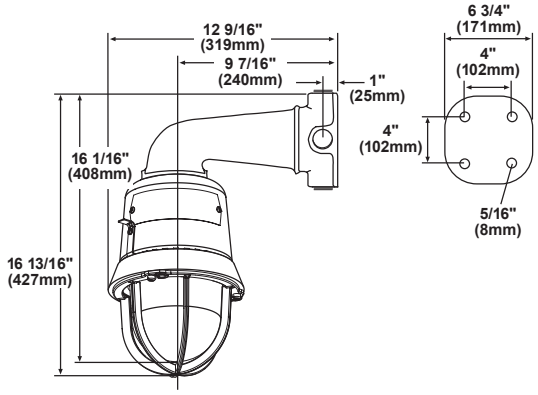
Mounting Options



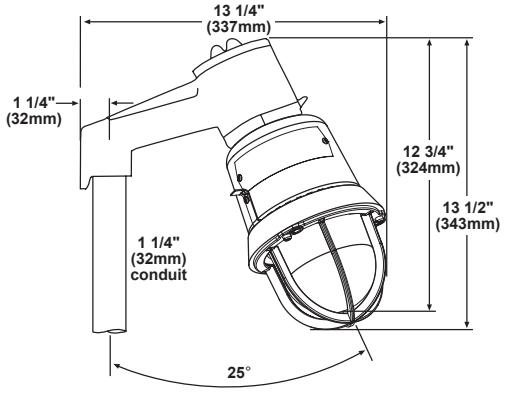
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEXMRINHA-GW	11.60	13.00
116DEXMRINHB-GW	11.60	13.00
116DEXMRINHC-GW	11.60	13.00
116DEXMRINHG-GW	11.60	13.00
116DEXMRINHM-GW	11.60	13.00
116DEXMRINHR-GW	11.60	13.00
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

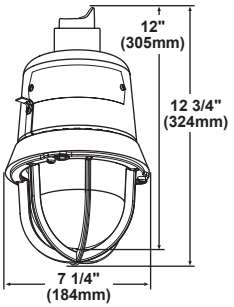
Wall Mount
116EX-B



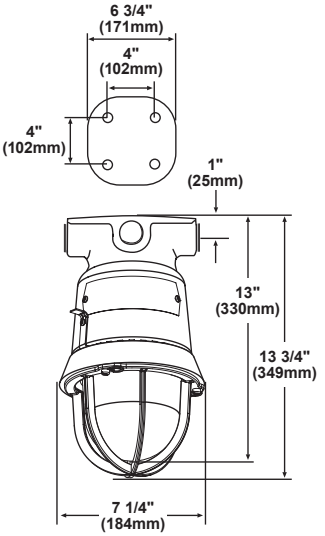
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons: Explosionproof
Steady-On Halogen
116 Series

Edwards 116 Series steady-on beacons are explosionproof signaling devices, suitable for hazardous indoor or outdoor applications. The housing is cast aluminum with a corrosion-resistant epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

Features and Specifications

- Halogen light source
- Cast aluminum housing with epoxy powder coat and dome guard
- Quick connect for easy assembly and installation
- Suitable for use in indoor, outdoor, hazardous and marine applications
- NEMA Type 3R and Type 4X – Marine Rated
- Diode polarized for use on supervised circuits
- Cast aluminum housing
- Pendant, ceiling, bracket or stanchion mounting options (ordered separately)
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Group G

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Peak Candela	Lens Colors	Dome Guard	Replacement Dome	Replacement Inner Lens	Replacement Lamp
Steady-on Beacon Halogen	**116DEXMSINHA-GW**	24 - 28V DC	0.8 A	2838	Amber	116-GRD	116-Globe	116-RIN-LA	50LMP-20WH 20W Halogen Bulb 25,000 hours.[1] or Ind. Trade No. 1692[2]
	116DEXMSINHB-GW	24 - 28V DC	0.8 A	2838	Blue	116-GRD	116-Globe	116-RIN-LB	
	116DEXMSINHC-GW	24 - 28V DC	0.8 A	2838	Clear	116-GRD	116-Globe	116-RIN-LC	
	116DEXMSINHG-GW	24 - 28V DC	0.8 A	2838	Green	116-GRD	116-Globe	116-RIN-LG	
	116DEXMSINHM-GW	24 - 28V DC	0.8 A	2838	Magenta	116-GRD	116-Globe	116-RIN-LM	
	116DEXMSINHR-GW	24 - 28V DC	0.8 A	2838	Red	116-GRD	116-Globe	116-RIN-LR	

[1]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[2]Incandescent lamp, user supplied

Required Mounting Options

Description	Cat. No.
Wall Bracket Mounting Elbow	**116EX-B**
Ceiling/Wall Mounting Module	**116EX-C**
Pendant Mounting Module	**116EX-P**
Stanchion Mounting Module	**116EX-S**

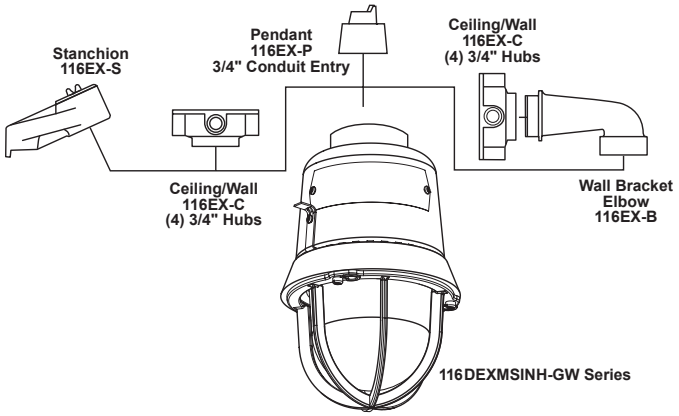
Hazardous Location Listings

Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature: Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116DEXMSINH*-GW	40°C	75°C	T3 (200°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T3 (200°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2D (215°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

Beacons: Explosionproof
Steady-On Halogen
116 Series

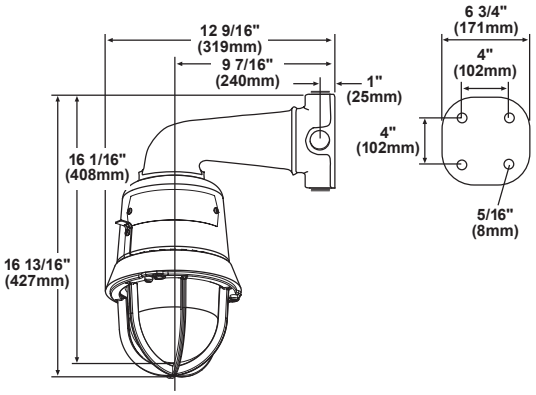
Mounting Options



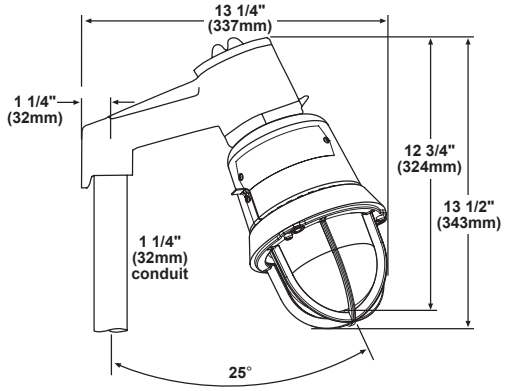
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116DEXMSINHA-GW	11.60	13.0
116DEXMSINHB-GW	11.60	13.0
116DEXMSINHC-GW	11.60	13.0
116DEXMSINHG-GW	11.60	13.0
116DEXMSINHM-GW	11.60	13.0
116DEXMSINHR-GW	11.60	13.0
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

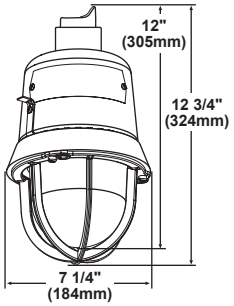
Wall Mount
116EX-B



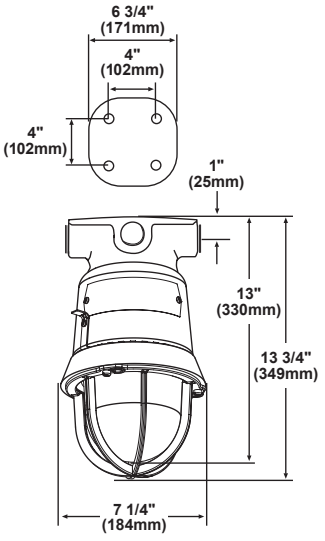
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons: Explosionproof
Steady-On Halogen
116 Series

Edwards 116 Series steady-on beacons are explosionproof signaling devices, suitable for hazardous indoor or outdoor applications. The housing is cast aluminum with a corrosion-resistant epoxy powder coat, and includes a dome guard. The fluted, high-impact glass dome provides even light distribution.

Features and Specifications

- Halogen light source
- Cast aluminum housing with epoxy powder coat and dome guard
- Quick connect for easy assembly and installation
- Suitable for use in indoor, outdoor, hazardous and marine applications
- NEMA Type 3R and Type 4X – Marine Rated
- Cast aluminum housing
- Pendant, ceiling, bracket or stanchion mounting options (ordered separately)
- Explosionproof: Class I, Div 2, Groups A and B; Class I, Div 1 and 2, Groups C and D; Class II and III, Div 1, Groups E, F and G; Class II and III, Div 2, Group G

NOTE: Mounting options not included (ordered separately)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Peak Candela	Lens Colors	Replacement Dome Guard	Replacement Dome	Replacement Inner Lens	Replacement Lamp
Steady-on Beacon Halogen	**116EXMSINHA-N5**	120V AC	0.35 A	3328	Amber	116-GRD	116-Globe	116-RIN-LA	50LMP-40WH 25,000 hours.[2]
	116EXMSINHB-N5	120V AC	0.35 A	3328	Blue	116-GRD	116-Globe	116-RIN-LB	
	116EXMSINHC-N5	120V AC	0.35 A	3328	Clear	116-GRD	116-Globe	116-RIN-LC	
	116EXMSINHG-N5	120V AC	0.35 A	3328	Green	116-GRD	116-Globe	116-RIN-LG	
	116EXMSINHM-N5	120V AC	0.35 A	3328	Magenta	116-GRD	116-Globe	116-RIN-LM	
	116EXMSINHR-N5	120V AC	0.35 A	3328	Red	116-GRD	116-Globe	116-RIN-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Projected life based on manufacturer's calculated lamp life.

Required Mounting Options

Description	Cat. No.
Wall Bracket Mounting Elbow	**116EX-B**
Ceiling/Wall Mounting Module	**116EX-C**
Pendant Mounting Module	**116EX-P**
Stanchion Mounting Module	**116EX-S**

Hazardous Location Listings

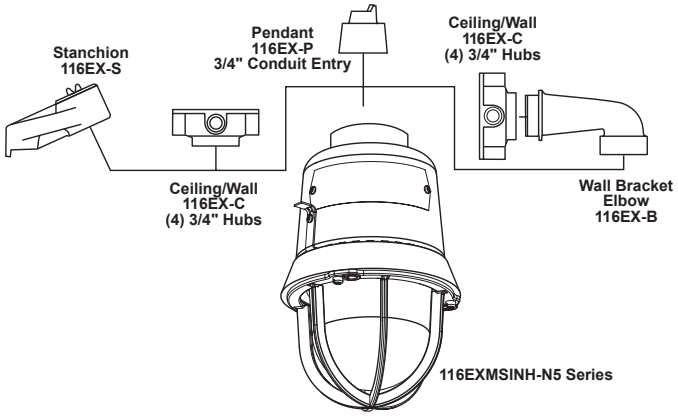
Cat. No.	Ambient Temp.	Supply Wire Temp. Marking	Operating Temperature: Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II & III, Div. 1 Groups E, F, G	Class II & III, Div. 2 Group G
116EXMSINH*-N5	40°C	75°C	T1 (450°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T1 (450°C)	T5 (100°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T1 (450°C)	T5 (100°C)	T4 (135°C)	T4 (135°C)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

AC HALOGEN UL 3R 4X ENCLOSURE EX-PROOF HAZ-LOC

Beacons: Explosionproof
Steady-On Halogen
116 Series

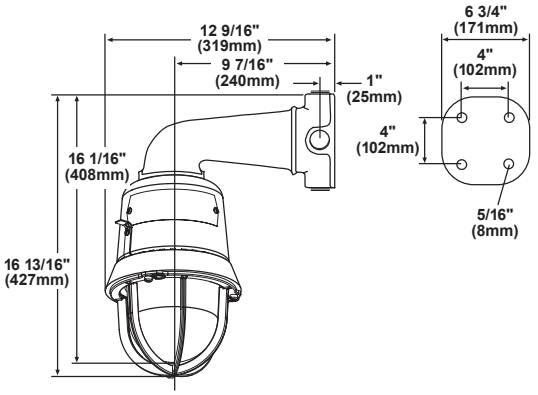
Mounting Options



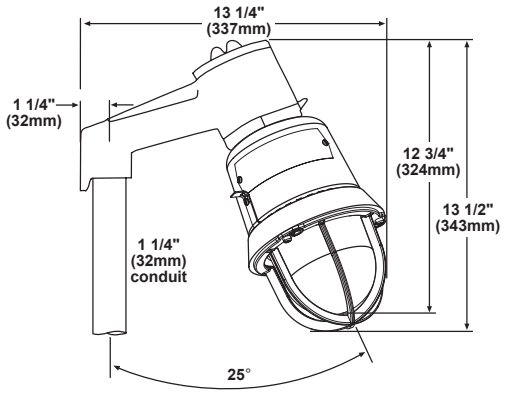
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
116EXMSINHA-N5	11.60	13.0
116EXMSINHB-N5	11.60	13.0
116EXMSINHC-N5	11.60	13.0
116EXMSINHG-N5	11.60	13.0
116EXMSINHM-N5	11.60	13.0
116EXMSINHR-N5	11.60	13.0
116EX-B	2.02	2.28
116EX-C	2.50	2.80
116EX-P	1.10	1.26
116EX-S	2.62	2.90

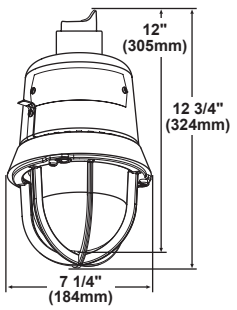
Wall Mount
116EX-B



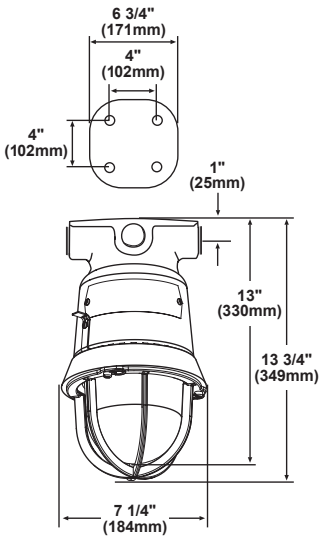
Stanchion Mount
116EX-S



Pendant Mount
116EX-P



Ceiling Mount
116EX-C



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Multi-Status LED
105XBRi Series

NEW

Edwards 105XBRi Series XTRA-BRITE™ LED multi-status indicator is a UL and cUL listed, multicolor visual signaling device. It features a corrosion resistant NEMA Type 4X enclosure, listed for Marine use, and can be wall, surface or pipe mounted. The base is manufactured from from glass-reinforced thermoplastic polyester resin, providing high resistance to heat and high chemical resistivity. The double Fresnel lens is made of shatter resistant polycarbonate.

Features and Specifications

- LED light source
- Screw on, high-impact polycarbonate lens
- Gray Rynite® (PET) base
- XTRA-SAFE™ Technology[1] enables status indication for those who are color blind
- Dip switch settings for use with or without external control
- Flash rates
  - – Red 240 fpm
  - – Amber 120 fpm
  - – Green/Blue 65 fpm
- NEMA Type 4X enclosure
- Class I, Div. 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III
- Suitable for indoor and outdoor applications
- Option for wall, surface or pipe mounting
- Optional mounting not included
- Operating temperature range: -31F° to 150°F (-35°C to 66°C)

Ordering Information

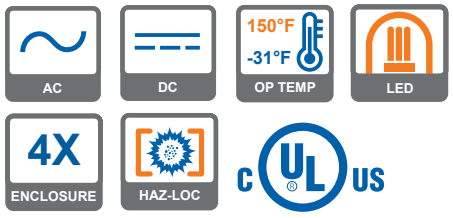
Description	Cat. No.	Operating Voltage[2]	Current	LED Colors	Projected LED Life (L70)[3]	Replacement Lens
Multi-status Indicator LED	**105XBRiRGA120A**	120V AC	0.100 A	Red, Green, Amber	148,000 hours	105-LC
	105XBRiRGA24D	24V DC	0.150 A	Red, Green, Amber	148,000 hours	105-LC
	105XBRiRBA120A	120V AC	0.100 A	Red, Blue, Amber	148,000 hours	105-LC
	105XBRiRBA24D	24V DC	0.150 A	Red, Blue, Amber	148,000 hours	105-LC

[1]NOTE: See website for more information on our XTRA-SAFE Technology
[2]AC voltage frequency is 50/60 Hz.
[3]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85°C and $T_{junction}$ 98°C). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage[2]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (inrush / duration)
105XBRiRGA120A	120 VAC	0.005	0.100	28.5 A / 212 µSeconds
105XBRiRGA24D	24 VDC	0.005	0.150	28 A / 65 µSeconds
105XBRiRBA120A	120 VAC	0.005	0.100	28.5 A / 212 µSeconds
105XBRiRBA24D	24 VDC	0.005	0.150	28 A / 65 µSeconds



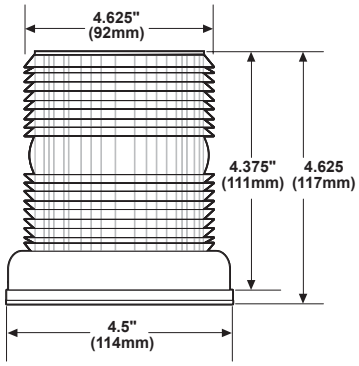
Beacons
Multi-Status LED
105XBRi Series

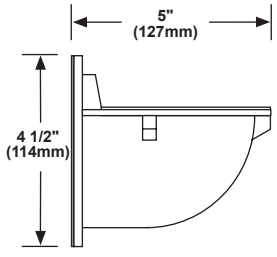
Hazardous Location Ratings

Cat. No.	Class	Division	Group	Operating Temperature
105XBRiRGA120A 105XBRiRGA24D	I	2	A, B, C, D	T5 (100°C, 212°F)
	II	2	F, G	T5 (100°C, 212°F)
	III			T5 (100°C, 212°F)
105XBRiRBA120A 105XBRiRBA24D	I	2	A, B, C, D	T6 (85°C, 185°F)
	II	2	G	T6 (85°C, 185°F)
	III			T6 (85°C, 185°F)

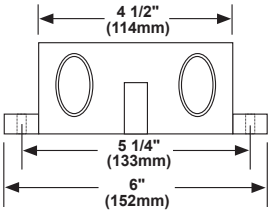
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105XBRiRGA120A	1.6	1.8
105XBRiRGA24D	1.6	1.8
105XBRiRBA120A	1.6	1.8
105XBRiRBA24D	1.6	1.8

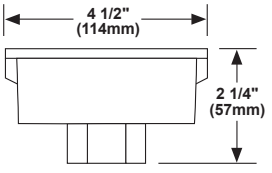




Cat. No. 105BM Mounting Bracket
(Must be used with 105BX)



Cat. No. 105BX
Outlet Box Attachment
(4) 3/4" Threaded Hubs



Cat. No. 105PM
Pipe Mount Attachment
(Pipe mount is 3/4" NPT)

Beacons
Multi-Mode LED
107XBR Series

NEW

The 107XBR hazardous location XTRA-BRITE™ LED visual signals are NEMA Type 3R and Type 4 heavy-duty visual signals suitable for use in indoor or outdoor applications. The units are available in 24V DC or 120V AC and are field configurable for steady-on or flashing (65 fpm). The inner, double fresnel lens is made of a high grade polycarbonate and is designed to magnify the super-bright LEDs inside. A clear, outer, impact-resistant glass globe also covers the lens and an optional dome guard fits over the glass dome to protect it against accidental impacts with machinery or falling objects.

The 107XBR has three different mounting configurations including the pendant mount, bracket mount and ceiling mount and can be mounted on 3/4" NPT threaded conduit.

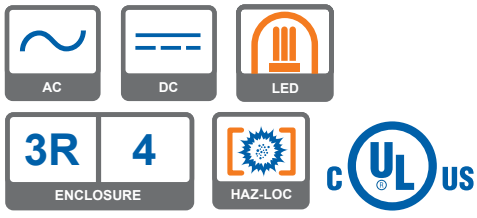
Features and Specifications

- Multi-mode (flashing or steady-on)
- LED XTRA-BRITE™ light source
- Flash rate 65 fpm
- Five lens colors
- 3/4" NPT threaded conduit
- High level of immunity to shock and vibration
- Three mounting options: pendant, bracket or ceiling
- UL Listed for Class I, Div 2, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class II, Div 2, Groups F and G; Class III, Div 1

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Median LED Life (L70)[2]	Flash Rate[3]
Pendant Mount AC	**107XBRPMA120A**	120V AC	0.115 A	Amber	148,000 hours	65 fpm
	107XBRPMB120A	120V AC	0.115 A	Blue	148,000 hours	65 fpm
	107XBRPMG120A	120V AC	0.115 A	Green	148,000 hours	65 fpm
	107XBRPMR120A	120V AC	0.115 A	Red	148,000 hours	65 fpm
	107XBRPMW120A	120V AC	0.115 A	Clear	148,000 hours	65 fpm
Bracket Mount AC	**107XBRBMA120A**	120V AC	0.115 A	Amber	148,000 hours	65 fpm
	107XBRBMB120A	120V AC	0.115 A	Blue	148,000 hours	65 fpm
	107XBRBMG120A	120V AC	0.115 A	Green	148,000 hours	65 fpm
	107XBRBMR120A	120V AC	0.115 A	Red	148,000 hours	65 fpm
	107XBRBMW120A	120V AC	0.115 A	Clear	148,000 hours	65 fpm
Ceiling Mount AC	**107XBRCMA120A**	120V AC	0.115 A	Amber	148,000 hours	65 fpm
	107XBRCMB120A	120V AC	0.115 A	Blue	148,000 hours	65 fpm
	107XBRCMG120A	120V AC	0.115 A	Green	148,000 hours	65 fpm
	107XBRCMR120A	120V AC	0.115 A	Red	148,000 hours	65 fpm
	107XBRCMW120A	120V AC	0.115 A	Clear	148,000 hours	65 fpm

[1]AC voltage frequency is 50/60 Hz
[2]Based on LED manufacturer's projections. Refer to http://www.philipslumileds.com/pdfs/WP15.pdf
[3]Only if activated by third yellow wire



Beacons
Multi-Mode LED
107XBR Series

NEW

Ordering Information
Continued

Description	Cat. No.	Operating Voltage	Current	Lens Color	Median LED Life (L70)[1]	Flash Rate[2]
Pendant Mount DC	**107XBRPMA24D**	24V DC	0.220 A	Amber	148,000 hours	65 fpm
	107XBRPMB24D	24V DC	0.220 A	Blue	148,000 hours	65 fpm
	107XBRPMG24D	24V DC	0.220 A	Green	148,000 hours	65 fpm
	107XBRPMR24D	24V DC	0.220 A	Red	148,000 hours	65 fpm
	107XBRPMW24D	24V DC	0.220 A	Clear	148,000 hours	65 fpm
Bracket Mount DC	**107XBRBMA24D**	24V DC	0.220 A	Amber	148,000 hours	65 fpm
	107XBRBMB24D	24V DC	0.220 A	Blue	148,000 hours	65 fpm
	107XBRBMG24D	24V DC	0.220 A	Green	148,000 hours	65 fpm
	107XBRBMR24D	24V DC	0.220 A	Red	148,000 hours	65 fpm
	107XBRBMW24D	24V DC	0.220 A	Clear	148,000 hours	65 fpm
Ceiling Mount DC	**107XBRCMA24D**	24V DC	0.220 A	Amber	148,000 hours	65 fpm
	107XBRCMB24D	24V DC	0.220 A	Blue	148,000 hours	65 fpm
	107XBRCMG24D	24V DC	0.220 A	Green	148,000 hours	65 fpm
	107XBRCMR24D	24V DC	0.220 A	Red	148,000 hours	65 fpm
	107XBRCMW24D	24V DC	0.220 A	Clear	148,000 hours	65 fpm

[1]Based on LED manufacturer's projections. Refer to http://www.philipslumileds.com/pdfs/WP15.pdf
[2]Only if activated by third yellow wire

Hazardous Locations Listings

Cat. No.	Operating Temperature				
	Pendant, Bracket and Ceiling Mount		Pendant Mount Only		
	Ambient Temp.	Class I, Div. 2, Groups A, B, C and D	Class II, Div. 1, Groups E, F, G	Class II, Div. 2, Groups F, G	Class III, Div. 1 & 2
107XBR	40°C	135°C (T4)	85°C (T6)	85°C (T6)	85°C (T6)
	55°C	135°C (T4)	85°C (T6)	85°C (T6)	85°C (T6)
	65°C	135°C (T4)	85°C (T6)	85°C (T6)	85°C (T6)

Note: Class II and Class III only apply to Pendant Mount with clear globes

Accessories

Description	Cat. No.
Optional Dome Guard	**EDVPGU1**

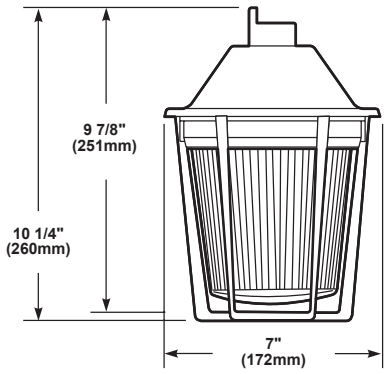
Beacons
Multi-Mode LED
107XBR Series

Weights and Dimensions

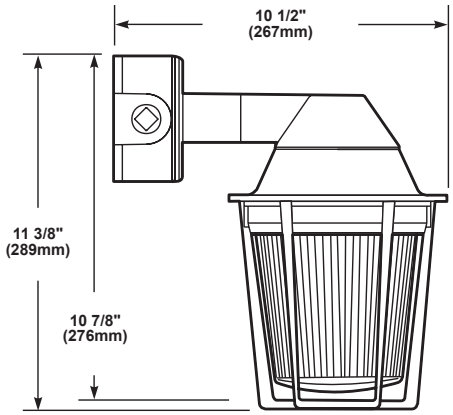
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
107XBRBM*120A	6.40	10.87
107XBRCM*120A	5.40	9.87
107XBRPM*120A	4.50	8.97
107XBRBM*24D	6.40	10.87
107XBRCM*24D	5.40	9.87
107XBRPM*24D	4.50	8.97

*Letter in this position designates lens color: A - amber, B - blue, G - green, R- red, W - clear

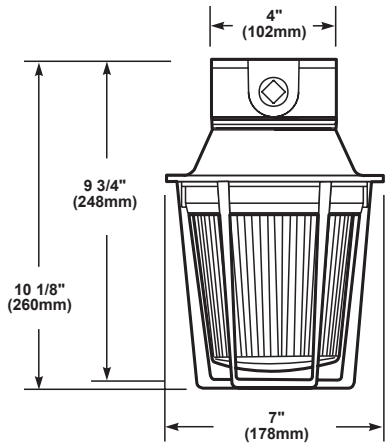
Pendant Mounting



Bracket Mounting



Ceiling Mounting



Beacons
Multi-Mode LED
105XBR Series

NEW

Edwards 105XBR Series XTRA-BRITE™ LED beacons are heavy-duty, multi-mode signaling devices, available in steady-on with the built-in option of switching to flashing mode via dipswitch. These signals are designed for use in industrial applications or applications where a NEMA Type 4X enclosure is required. The base is manufactured from glass-reinforced thermoplastic polyester resin and the double fresnel lens is made of shatter resistant polycarbonate. The unit can be panel, conduit or wall mounted.

Features and Specifications

- Multi-mode (flashing or steady-on)
- LED light source
- Flash rate 65 fpm
- Gray Rynite® (PET) base
- Option for panel, conduit or wall mounting
- NEMA Type 4X enclosure
- UL Listed for Marine applications
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III
- Operating temperature range: -31F° to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	LED Colors	Projected LED Life (L70)[2]	Replacement Lens
LED Multi-mode AC	**105XBRMA120A**	120V AC	0.108 A	Amber	148,000 hours	105-LA
	105XBRMB120A	120V AC	0.108 A	Blue	148,000 hours	105-LB
	105XBRMG120A	120V AC	0.108 A	Green	148,000 hours	105-LG
	105XBRMR120A	120V AC	0.108 A	Red	148,000 hours	105-LR
	105XBRMW120A	120V AC	0.108 A	White	148,000 hours	105-LC
LED Multi-mode DC	**105XBRMA24D**	24V DC	0.215 A	Amber	148,000 hours	105-LA
	105XBRMB24D	24V DC	0.215 A	Blue	148,000 hours	105-LB
	105XBRMG24D	24V DC	0.215 A	Green	148,000 hours	105-LG
	105XBRMR24D	24V DC	0.215 A	Red	148,000 hours	105-LR
	105XBRMW24D	24V DC	0.215 A	White	148,000 hours	105-LC

[1]AC voltage frequency is 50/60 Hz
[2]LED Manufacturer's Median Projected LED Life for LUXEON Rebel LEDs (L70 at 85ºC and $T_{junction}$ 98ºC). Actual LED life will vary inversely with ambient temperature, voltage, driver current, junction temperature and duty-cycle at which the signaling device is operated. Please refer to http://www.philipslumileds.com/pdfs/WP15.pdf.

Accessories

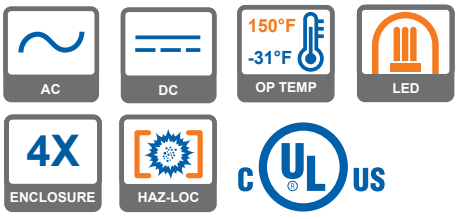
Description	Cat. No.
Mounting Bracket	**105BM**[3]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

[3]Must be used with the 105BX

Mounting Bracket

Outlet Box Attachment

Pipe Mount Attachment



Beacons
Multi-Mode LED
105XBR Series

Hazardous Location Listings

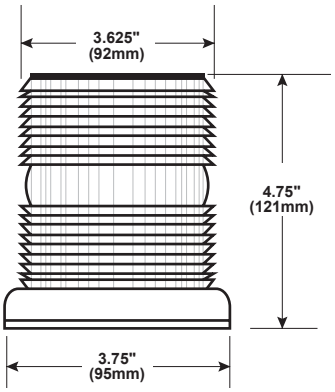
Cat. No.	Class	Division	Group	Operating Temperature
105XBRM*120A 105XBRM*24D	I	2	A, B, C, D	T4A (120°C, 248°F)
	II	2	F, G	T4A (120°C, 248°F)
	III			T4A (120°C, 248°F)

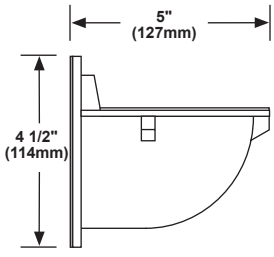
*Letter in this position designates LED color: A - amber, B - blue, G - green, R - red, or W - white

Weights and Dimensions

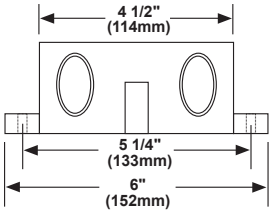
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105XBRM*120A	1.20	1.40
105XBRM*24D	1.20	1.40
105BX	0.80	1.00
105BM	1.00	1.20
105PM	0.80	1.00

*Letter in this position designates LED color: A - amber, B - blue, G - green, R - red or W - white

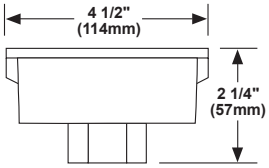




Cat. No. 105BM Mounting Bracket
(use with 105BX)



Cat. No. 105BX
Outlet Box Attachment



Cat. No. 105PM
Pipe Mount Attachment
(Pipe mount is 3/4" NPT)

Beacons
Flashing Xenon
105 Series

Edwards 105 Series Xenon strobe beacons are heavy-duty visual signals suitable for use in indoor and outdoor applications where a corrosion resistant NEMA Type 4X enclosure is required. Base material is gray, manufactured from glass-reinforced thermoplastic polyester resin and features brass hardware. The double fresnel lens is made of shatter-resistant polycarbonate.

The 105DHISTC-FJ high intensity strobe is designed for use in compatible fire alarm system and other applications requiring electrical supervision of signaling circuit field wiring.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Shatter-resistant double fresnel polycarbonate lens
- Gray Rynite® (PET) base with brass hardware
- Suitable for indoor, outdoor and marine applications
- For outdoor use, lens should face up
- Option for panel, conduit or wall mounting
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
Xenon Strobe 3 Joule	**105STA-N5**	120V AC	0.1 A	Amber	300,000	105-LA	91B-ST 3,000 hours[1]
	105STB-N5	120V AC	0.1 A	Blue	300,000	105-LB	
	105STC-N5	120V AC	0.1 A	Clear	300,000	105-LC	
	105STG-N5	120V AC	0.1 A	Green	300,000	105-LG	
	105STM-N5	120V AC	0.1 A	Magenta	300,000	105-LM	
	105STR-N5	120V AC	0.1 A	Red	300,000	105-LR	
	105STA-R5	240V AC	0.02 A	Amber	300,000	105-LA	91B-ST 3,000 hours[1]
	105STB-R5	240V AC	0.02 A	Blue	300,000	105-LB	
	105STC-R5	240V AC	0.02 A	Clear	300,000	105-LC	
	105STG-R5	240V AC	0.02 A	Green	300,000	105-LG	
	105STM-R5	240V AC	0.02 A	Magenta	300,000	105-LM	
	105STR-R5	240V AC	0.02 A	Red	300,000	105-LR	
	105STA-G1	24V DC	0.3 A	Amber	300,000	105-LA	91B-ST 3,000 hours[1]
	105STB-G1	24V DC	0.3 A	Blue	300,000	105-LB	
	105STC-G1	24V DC	0.3 A	Clear	300,000	105-LC	
	105STG-G1	24V DC	0.3 A	Green	300,000	105-LG	
	105STM-G1	24V DC	0.3 A	Magenta	300,000	105-LM	
	105STR-G1	24V DC	0.3 A	Red	300,000	105-LR	
High Intensity 8 Joule Strobe	**105HISTA-EK**	12-48V DC	0.8 A @ 24V	Amber	800,000	105H-LA	92-ST 3,000 hours[1]
	105HISTB-EK	12-48V DC	0.8 A @ 24V	Blue	800,000	105H-LB	
	105HISTC-EK	12-48V DC	0.8 A @ 24V	Clear	800,000	105H-LC	
	105HISTG-EK	12-48V DC	0.8 A @ 24V	Green	800,000	105H-LG	
	105HISTM-EK	12-48V DC	0.8 A @ 24V	Magenta	800,000	105H-LM	
	105HISTR-EK	12-48V DC	0.8 A @ 24V	Red	800,000	105H-LR	
	105HISTA-N5	120V AC	0.1 A	Amber	800,000	105H-LA	92-ST 3,000 hours[1]
	105HISTB-N5	120V AC	0.1 A	Blue	800,000	105H-LB	
	105HISTC-N5	120V AC	0.1 A	Clear	800,000	105H-LC	
	105HISTG-N5	120V AC	0.1 A	Green	800,000	105H-LG	
	105HISTM-N5	120V AC	0.1 A	Magenta	800,000	105H-LM	
	105HISTR-N5	120V AC	0.1 A	Red	800,000	105H-LR	

[1]Strobe tube life at operating power to 75% efficiency.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Beacons
Flashing Xenon
105 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
High Intensity 8 Joule Strobe (continued)	**105HISTA-R5**	240V AC	0.05 A	Amber	800,000	105H-LA	92-ST 3,000 hours[1]
	105HISTB-R5	240V AC	0.05 A	Blue	300,000	105H-LB	
	105HISTC-R5	240V AC	0.05 A	Clear	300,000	105H-LC	
	105HISTG-R5	240V AC	0.05 A	Green	300,000	105H-LG	
	105HISTM-R5	240V AC	0.05 A	Magenta	300,000	105H-LM	
	105HISTR-R5	240V AC	0.05 A	Red	300,000	105H-LR	
	105DHISTA-FJ	20-30V DC	1.08 - 0.83 A	Amber	800,000	105H-LA	92-ST 3,000 hours[1]
	105DHISTB-FJ	20-30V DC	1.08 - 0.83 A	Blue	300,000	105H-LB	
	105DHISTG-FJ	20-30V DC	1.08 - 0.83 A	Green	300,000	105H-LG	
	105DHISTM-FJ	20-30V DC	1.08 - 0.83 A	Magenta	300,000	105H-LM	
	105DHISTR-FJ	20-30V DC	1.08 - 0.83 A	Red	300,000	105H-LR	
Fire Alarm (UL 1971) 8 Joule Strobe	**105DHISTC-FJ**	20-30V DC	1.08 - 0.83 A	Clear	26 cd wall (dome out) 24 cd wall (dome down) 26 cd ceiling	105H-LC	92-ST

[1]Strobe tube life at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Wall Mount Bracket	**105BM**[2]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

[2]Must be used with the 105BX

Wall Mount Bracket

Outlet Box Attachment

Pipe Mount Attachment

Hazardous Location Listings

Cat. No.	Class	Division	Group	Operating Temperature
105HIST*-N5 **105HIST*-R5**	I	2	A, B, C, D	T2 (300ºC, 572ºF)
	II	2	F, G	T3B (165ºC, 329ºF)
	III			T3B (165ºC, 329ºF)
105HIST*-EK **105DHISTC-FJ** **105DHIST*-FJ**	I	2	A, B, C, D	T2A (280ºC, 536ºF)
	II	2	F, G	T3B (165ºC, 329ºF)
	III			T3B (165ºC, 329ºF)
105ST*-G1 **105ST*-N5** **105ST*-R5**	I	2	A, B, C, D	T3 (200ºC, 392ºF)
	II	2	F, G	T4A (120ºC, 248ºF)
	III			T4A (120ºC, 248ºF)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

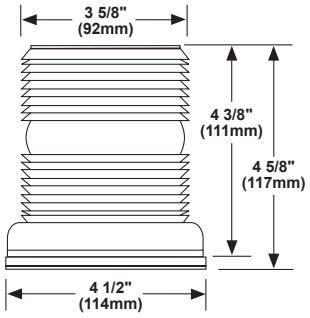
Beacons
Flashing Xenon
105 Series

Weights and Dimensions

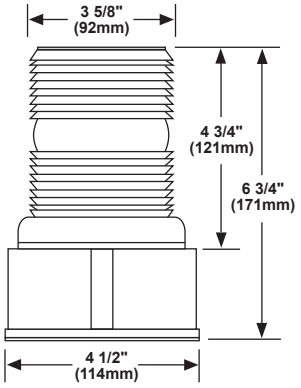
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105ST*-G1	1.06	1.22
105ST*-N5	1.01	1.17
105ST*-R5	1.01	1.17
105DHIST*-FJ	1.30	1.63
105HIST*-N5	1.30	1.63
105HIST*-R5	1.30	1.63
105HIST*-EK	1.30	1.63
105PM	0.80	1.00
105BM	1.00	1.20
105BX	0.80	1.00

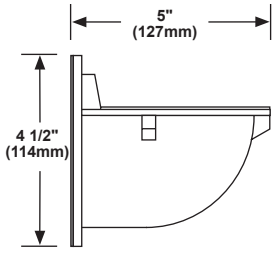
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

Cat. No's. 105ST

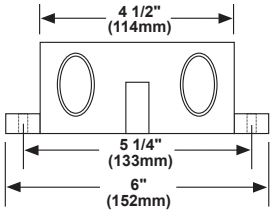


Cat. No's. 105HIST 105DHIST

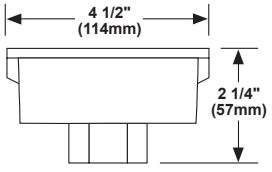




Cat. No. 105BM Mounting Bracket (use with 105BX)



Cat. No. 105BX Outlet Box Attachment (Four 3/4" Threaded Hubs)



Cat. No. 105PM Pipe Mount Attachment (3/4" NPT Conduit Size)

Beacons
Flashing Xenon
96 Series

Edwards 96DV2 Series Xenon strobe beacons are light duty visual signals suitable for use in industrial, commercial and institutional applications where short term intermittent visual signaling is required. Optically designed fresnel lenses improve viewer perception for indoor, outdoor and wet locations requiring Division 2 and NEMA Type 4X specifications.

The 96DV2 Series can be panel or conduit mounted. Trigger and timing circuits are included as integral parts of the power supply. Replacement costs are reduced, as it is necessary to replace only the strobe tube.

Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- Optically designed fresnel lenses
- Resistant to shock and vibration
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III
- Option for panel or conduit mounting
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

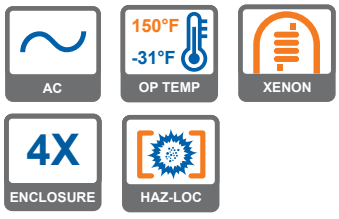
Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Peak Candela	Replacement Lens	Replacement Strobe Tube
Xenon Strobe	**96DV2A-N5**	120V AC	0.03 A	Amber	300,000	96-LA	91B-ST 3,000 hour[2]
	96DV2B-N5	120V AC	0.03 A	Blue	300,000	96-LB	
	96DV2C-N5	120V AC	0.03 A	Clear	300,000	96-LC	
	96DV2G-N5	120V AC	0.03 A	Green	300,000	96-LG	
	96DV2M-N5	120V AC	0.03 A	Magenta	300,000	96-LM	
	96DV2R-N5	120V AC	0.03 A	Red	300,000	96-LR	

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Hazardous Location Listings

Cat. No.	Class	Division	Group	Operating Temperature Code
96DV2*-N5	I	2	A,B,C,D	T3C (160°C, 320°F)
	II	2	F,G	T6 (85°C, 185°F)
	III	—	—	T6 (85°C, 185°F)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

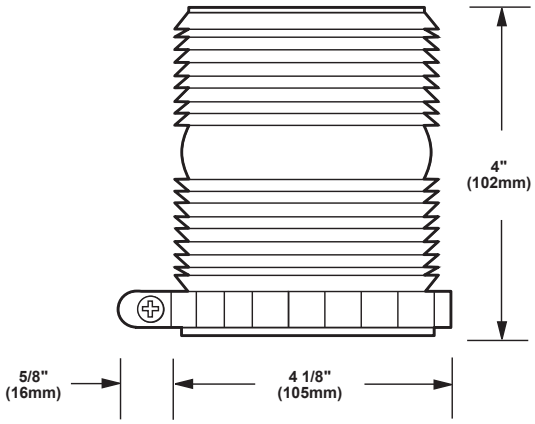


Beacons
Flashing Xenon
96 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
96DV2*-N5	1.29	1.45

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
94 Series

Edwards 94 Series Xenon strobe beacons are heavy-duty visual signals suitable for use where more frequent and longer lasting signaling cycles may be required. Optically designed fresnel lenses improve viewer perception for indoor and outdoor applications. The base is cast metal and can be utilized as a junction box.

The 94DV2 Series Division 2 Xenon strobe beacons are high profile visual signals suitable for outdoor and wet locations requiring a UL Listed, NEMA Type 4X enclosure. The 94DDV2 Series is Diode Polarized for use in electrically supervised circuits. Both versions can be conduit mounted.

Features and Specifications

- Xenon strobe light source
- Cast base can function as a junction box
- Optically designed fresnel lenses
- Suitable for indoor and outdoor applications
- For outdoor use, lens should face up
- Conduit mounting
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III

Ordering Information

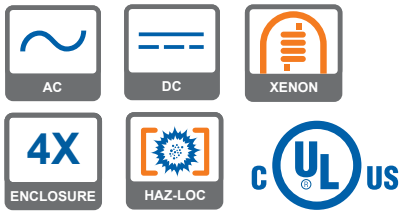
Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Flash Rate	Peak Candela	Replacement Lens	Replacement Dome	Replacement Strobe Tube
Xenon Strobe Haz Loc AC	**94DV2A-N5**	120V AC	0.1 A	Amber	65 fpm	800,000	93-LA	94DV2-DC	92-ST 3,000 hour[2]
	94DV2B-N5	120V AC	0.1 A	Blue	65 fpm	800,000	93-LB		
	94DV2C-N5	120V AC	0.1 A	Clear	65 fpm	800,000	93-LC		
	94DV2G-N5	120V AC	0.1 A	Green	65 fpm	800,000	93-LG		
	94DV2M-N5	120V AC	0.1 A	Magenta	65 fpm	800,000	93-LM		
	94DV2R-N5	120V AC	0.1 A	Red	65 fpm	800,000	93-LR		
Xenon Strobe Haz Loc DC Diode Polarized	**94DDV2A-G1**	24V DC	1.2 A	Amber	65 fpm	800,000	93-LA	94DV2-DC	92-ST 3,000 hour[2]
	94DDV2B-G1	24V DC	1.2 A	Blue	65 fpm	800,000	93-LB		
	94DDV2C-G1	24V DC	1.2 A	Clear	65 fpm	800,000	93-LC		
	94DDV2G-G1	24V DC	1.2 A	Green	65 fpm	800,000	93-LG		
	94DDV2M-G1	24V DC	1.2 A	Magenta	65 fpm	800,000	93-LM		
	94DDV2R-G1	24V DC	1.2 A	Red	65 fpm	800,000	93-LR		

[1]AC voltage frequency is 50/60 Hz
[2]Calculated at operating power to 75% efficiency.

Hazardous Location Listings

Cat. No.	Class	Division	Group	Operating Temperature Code
94DV2*-N5	I	2	A, B, C, D	T3 (200ºC, 392ºF)
	II	2	F, G	T6 (85ºC, 185ºF)
	III			T6 (85ºC, 185ºF)
94DDV2*-G1	I	2	A, B, C, D	T3 (200ºC, 392ºF)
	II	2	F, G	T6 (85ºC, 185ºF)
	III			T6 (85ºC, 185ºF)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta , or R - red

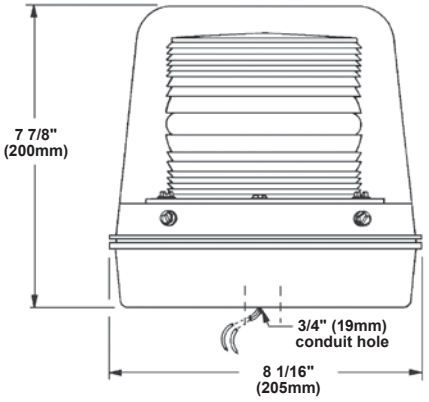


Beacons
Flashing Xenon
94 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
94DV2*-N5	5.53	6.10
94DDV2*-G1	5.60	6.18

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Beacons
Flashing Xenon
107 Series

Edwards 107DDV2 and 107DV2 Series Xenon strobe beacons are signaling devices designed for installation in Division 2 environments requiring a NEMA Type 3R or 4X installation. Rigid specifications and state-of-the-art technology provide for high visual output and low maintenance.

The 107DDV2 Series is Diode Polarized for use in electrically supervised circuits. Both versions can be bracket, ceiling or pendant mounted.

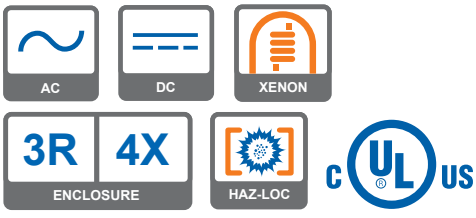
Features and Specifications

- Xenon strobe light source
- Flash rate 65 fpm
- High impact glass dome
- Dome Guard (Optional)
- NEMA Type 3R and 4X enclosure
- Suitable for indoor, outdoor and marine applications
- Option for bracket, ceiling or pendant mount
- Class I, Div 2, Groups A, B, C and D; Class II, Div 1, Groups E, F and G; Class II, Div 2, Groups F and G; Class III

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Peak Candela	Replacement		
						Inner Lens	Dome	Strobe Tube
Bracket Mount AC	**107DV2BSTA-N5**	120V AC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2BSTB-N5	120V AC	0.1 A	Blue	800,000	96-LB		
	107DV2BSTC-N5	120V AC	0.1 A	Clear	800,000	96-LC		
	107DV2BSTG-N5	120V AC	0.1 A	Green	800,000	96-LG		
	107DV2BSTM-N5	120V AC	0.1 A	Magenta	800,000	96-LM		
	107DV2BSTR-N5	120V AC	0.1 A	Red	800,000	96-LR		
	107DV2BSTA-R5	240V AC	0.05 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2BSTB-R5	240V AC	0.05 A	Blue	800,000	96-LB		
	107DV2BSTC-R5	240V AC	0.05 A	Clear	800,000	96-LC		
	107DV2BSTG-R5	240V AC	0.05 A	Green	800,000	96-LG		
	107DV2BSTM-R5	240V AC	0.05 A	Magenta	800,000	96-LM		
	107DV2BSTR-R5	240V AC	0.05 A	Red	800,000	96-LR		
Bracket Mount DC	**107DV2BSTA-EK**	12 - 48V DC	1.2 A - 0.38 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2BSTB-EK	12 - 48V DC	1.2 A - 0.38 A	Blue	800,000	96-LB		
	107DV2BSTC-EK	12 - 48V DC	1.2 A - 0.38 A	Clear	800,000	96-LC		
	107DV2BSTG-EK	12 - 48V DC	1.2 A - 0.38 A	Green	800,000	96-LG		
	107DV2BSTM-EK	12 - 48V DC	1.2 A - 0.38 A	Magenta	800,000	96-LM		
	107DV2BSTR-EK	12 - 48V DC	1.2 A - 0.38 A	Red	800,000	96-LR		
	107DV2BSTA-S1	250V DC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2BSTB-S1	250V DC	0.1 A	Blue	800,000	96-LB		
	107DV2BSTC-S1	250V DC	0.1 A	Clear	800,000	96-LC		
	107DV2BSTG-S1	250V DC	0.1 A	Green	800,000	96-LG		
	107DV2BSTM-S1	250V DC	0.1 A	Magenta	800,000	96-LM		
	107DV2BSTR-S1	250V DC	0.1 A	Red	800,000	96-LR		

[1]AC voltage frequency is 60 Hz
[2]Calculated at operating power to 75% efficiency.



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Beacons
Flashing Xenon
107 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Peak Candela	Replacement		
						Inner Lens	Dome	Strobe Tube
Ceiling Mount AC	**107DV2CSTA-N5**	120V AC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2CSTB-N5	120V AC	0.1 A	Blue	800,000	96-LB		
	107DV2CSTC-N5	120V AC	0.1 A	Clear	800,000	96-LC		
	107DV2CSTG-N5	120V AC	0.1 A	Green	800,000	96-LG		
	107DV2CSTM-N5	120V AC	0.1 A	Magenta	800,000	96-LM		
	107DV2CSTR-N5	120V AC	0.1 A	Red	800,000	96-LR		
	107DV2CSTA-R5	240V AC	0.05 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2CSTB-R5	240V AC	0.05 A	Blue	800,000	96-LB		
	107DV2CSTC-R5	240V AC	0.05 A	Clear	800,000	96-LC		
	107DV2CSTG-R5	240V AC	0.05 A	Green	800,000	96-LG		
	107DV2CSTM-R5	240V AC	0.05 A	Magenta	800,000	96-LM		
	107DV2CSTR-R5	240V AC	0.05 A	Red	800,000	96-LR		
Ceiling Mount DC	**107DV2CSTA-EK**	12 - 48V DC	1.2 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2CSTB-EK	12 - 48V DC	1.2 A	Blue	800,000	96-LB		
	107DV2CSTC-EK	12 - 48V DC	1.2 A	Clear	800,000	96-LC		
	107DV2CSTG-EK	12 - 48V DC	1.2 A	Green	800,000	96-LG		
	107DV2CSTM-EK	12 - 48V DC	1.2 A	Magenta	800,000	96-LM		
	107DV2CSTR-EK	12 - 48V DC	1.2 A	Red	800,000	96-LR		
	107DV2CSTA-S1	250V DC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2CSTB-S1	250V DC	0.1 A	Blue	800,000	96-LB		
	107DV2CSTC-S1	250V DC	0.1 A	Clear	800,000	96-LC		
	107DV2CSTG-S1	250V DC	0.1 A	Green	800,000	96-LG		
	107DV2CSTM-S1	250V DC	0.1 A	Magenta	800,000	96-LM		
	107DV2CSTR-S1	250V DC	0.1 A	Red	800,000	96-LR		
Pendant Mount AC	**107DV2PSTA-N5**	120V AC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2PSTB-N5	120V AC	0.1 A	Blue	800,000	96-LB		
	107DV2PSTC-N5	120V AC	0.1 A	Clear	800,000	96-LC		
	107DV2PSTG-N5	120V AC	0.1 A	Green	800,000	96-LG		
	107DV2PSTM-N5	120V AC	0.1 A	Magenta	800,000	96-LM		
	107DV2PSTR-N5	120V AC	0.1 A	Red	800,000	96-LR		
	107DV2PSTA-R5	240V AC	0.05 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2PSTB-R5	240V AC	0.05 A	Blue	800,000	96-LB		
	107DV2PSTC-R5	240V AC	0.05 A	Clear	800,000	96-LC		
	107DV2PSTG-R5	240V AC	0.05 A	Green	800,000	96-LG		
	107DV2PSTM-R5	240V AC	0.05 A	Magenta	800,000	96-LM		
	107DV2PSTR-R5	240V AC	0.05 A	Red	800,000	96-LR		
Pendant Mount DC	**107DV2PSTA-EK**	12 - 48V DC	1.2 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2PSTB-EK	12 - 48V DC	1.2 A	Blue	800,000	96-LB		
	107DV2PSTC-EK	12 - 48V DC	1.2 A	Clear	800,000	96-LC		
	107DV2PSTG-EK	12 - 48V DC	1.2 A	Green	800,000	96-LG		
	107DV2PSTM-EK	12 - 48V DC	1.2 A	Magenta	800,000	96-LM		
	107DV2PSTR-EK	12 - 48V DC	1.2 A	Red	800,000	96-LR		
	107DV2PSTA-S1	250V DC	0.1 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[2]
	107DV2PSTB-S1	250V DC	0.1 A	Blue	800,000	96-LB		
	107DV2PSTC-S1	250V DC	0.1 A	Clear	800,000	96-LC		
	107DV2PSTG-S1	250V DC	0.1 A	Green	800,000	96-LG		
	107DV2PSTM-S1	250V DC	0.1 A	Magenta	800,000	96-LM		
	107DV2PSTR-S1	250V DC	0.1 A	Red	800,000	96-LR		

[1]AC voltage frequency is 60 Hz
[2]Calculated at operating power to 75% efficiency.

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Beacons
Flashing Xenon
107 Series

Ordering Information Continued

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candela	Replacement		
						Inner Lens	Dome	Strobe Tube
Diode Polarized Bracket Mount	**107DDV2BSTA-G1**	24V DC	1.4 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[1]
	107DDV2BSTB-G1	24V DC	1.4 A	Blue	800,000	96-LB		
	107DDV2BSTC-G1	24V DC	1.4 A	Clear	800,000	96-LC		
	107DDV2BSTG-G1	24V DC	1.4 A	Green	800,000	96-LG		
	107DDV2BSTM-G1	24V DC	1.4 A	Magenta	800,000	96-LM		
	107DDV2BSTR-G1	24V DC	1.4 A	Red	800,000	96-LR		
Diode Polarized Ceiling Mount	**107DDV2CSTA-G1**	24V DC	1.4 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[1]
	107DDV2CSTB-G1	24V DC	1.4 A	Blue	800,000	96-LB		
	107DDV2CSTC-G1	24V DC	1.4 A	Clear	800,000	96-LC		
	107DDV2CSTG-G1	24V DC	1.4 A	Green	800,000	96-LG		
	107DDV2CSTM-G1	24V DC	1.4 A	Magenta	800,000	96-LM		
	107DDV2CSTR-G1	24V DC	1.4 A	Red	800,000	96-LR		
Diode Polarized Pendant Mount	**107DDV2PSTA-G1**	24V DC	1.4 A	Amber	800,000	96-LA	EDVPGL1HR	92-ST 3,000 hr.[1]
	107DDV2PSTB-G1	24V DC	1.4 A	Blue	800,000	96-LB		
	107DDV2PSTC-G1	24V DC	1.4 A	Clear	800,000	96-LC		
	107DDV2PSTG-G1	24V DC	1.4 A	Green	800,000	96-LG		
	107DDV2PSTM-G1	24V DC	1.4 A	Magenta	800,000	96-LM		
	107DDV2PSTR-G1	24V DC	1.4 A	Red	800,000	96-LR		

[1]Calculated at operating power to 75% efficiency.

Accessories

Description	Cat. No.
Optional Dome Guard	**EDVPGU1**

Hazardous Location Listings

Cat. No.	Class	Division	Group	Ambient Temperature	Operating Temperature Code
107DV2†ST*-N5 **107DV2†ST*-R5** **107DV2†ST*-EK** **107DV2†ST*-S1** **107DDV2BST*-G1** **107DDV2CST*-G1** **107DDV2PST*-G1**	I[2]	2	A, B, C, D	40°C (104°F)	T2 (300°C, 572°F)
				55°C (131°F)	T1 (450°C, 842°F)
				65°C (149°F)	T1 (450°C, 842°F)
	II[2]	1[2]	E, F, G	40°C (104°F)	T4A (120°C, 248°F)
		2[2]	F, G	55°C (131°F)	T4 (135°C, 275°F)
	III[2]	1 and 2[2]		65°C (149°F)	T3C (160°C, 320°F)

*Letter in this position designates color of the globe: A - amber, B - blue, C - clear, G - green, R - red or M - magenta.
[2]Pendant mount models only. Pendant mount models are also listed for use in Class II, Division 1, Groups E, F and G, Class II, Division 2, Groups F and G and Class III, Division 1 and 2 hazardous locations.
†Insert "B" for bracket mount, "C" for ceiling mount, or "P" for pendant mount.

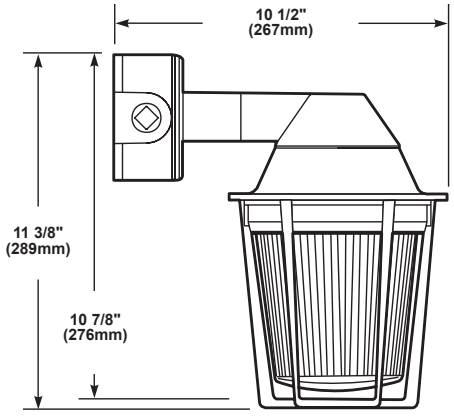
Beacons
Flashing Xenon
107 Series

Weights and Dimensions

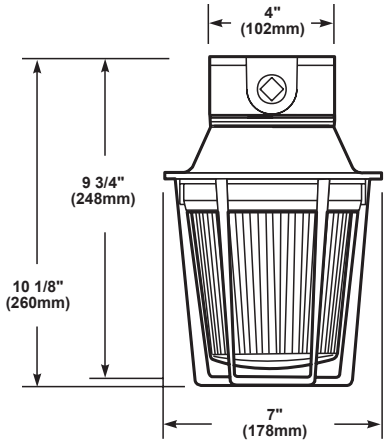
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
107DV2BST*-N5	6.36	10.83
107DV2BST*-R5	6.36	10.83
107DV2BST*-EK	6.70	11.16
107DV2BST*-S1	6.70	11.16
107DV2CST*-N5	5.30	9.76
107DV2CST*-R5	5.30	9.76
107DV2CST*-EK	5.63	10.10
107DV2CST*-S1	5.63	10.10
107DV2PST*-N5	3.80	8.26
107DV2PST*-R5	3.80	8.26
107DV2PST*-EK	4.13	8.60
107DV2PST*-S1	4.13	8.60
107DDV2BST*-G1	6.81	11.27
107DDV2CBST*-G1	5.74	10.21
107DDV2PST*-G1	4.24	8.71

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

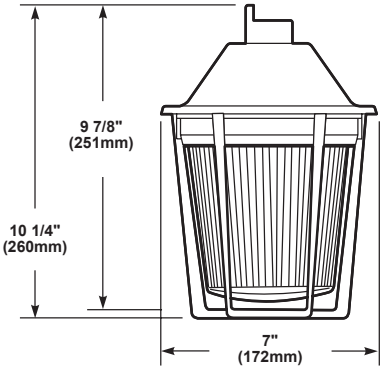
Bracket Mounting



Ceiling Mounting



Pendant Mounting



Beacons
Steady-On Halogen
105 Series

Edwards 105 Series steady-on Halogen beacons are NEMA Type 4X signaling devices, suitable for indoor or outdoor applications where a continuous (steady-on) light source is required. Base material is gray, manufactured from glass-reinforced thermoplastic polyester resin and features brass hardware. The double fresnel lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Halogen light source
- Shatter-resistant double fresnel polycarbonate lens
- Gray Rynite® (PET) base with brass hardware
- Suitable for use in indoor, outdoor and marine applications
- NEMA Type 4X and Marine rated
- Option for panel, conduit or wall mounting
- Class 1, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Color	Peak Candela	Lamp Ratings	Replacement	
							Lens	Lamp
Steady-on Beacon Halogen - AC	**105SINHA-G5**	24V AC	0.8 A	Amber	2839	20W, 20,000 hours[1,2]	105-LA	50LMP-20WH or Ind. Trade No. 1692[3]
	105SINHB-G5	24V AC	0.8 A	Blue			105-LB	
	105SINHC-G5	24V AC	0.8 A	Clear			105-LC	
	105SINHG-G5	24V AC	0.8 A	Green			105-LG	
	105SINHM-G5	24V AC	0.8 A	Magenta			105-LM	
	105SINHR-G5	24V AC	0.8 A	Red			105-LR	
	105SINHA-N5	120V AC	0.2 A	Amber	2198	25W, 20,000 hours[1,2]	105-LA	50LMP-25WH or Ind. Trade No. 25T8DC[3]
	105SINHB-N5	120V AC	0.2 A	Blue			105-LB	
	105SINHC-N5	120V AC	0.2 A	Clear			105-LC	
	105SINHG-N5	120V AC	0.2 A	Green			105-LG	
	105SINHM-N5	120V AC	0.2 A	Magenta			105-LM	
	105SINHR-N5	120V AC	0.2 A	Red			105-LR	
Steady-on Beacon Halogen - DC	**105SINHA-G1**	24V DC	0.8 A	Amber	2839	20W, 20,000 hours[1,2]	105-LA	50LMP-20WH or Ind. Trade No. 1692[3]
	105SINHB-G1	24V DC	0.8 A	Blue			105-LB	
	105SINHC-G1	24V DC	0.8 A	Clear			105-LC	
	105SINHG-G1	24V DC	0.8 A	Green			105-LG	
	105SINHM-G1	24V DC	0.8 A	Magenta			105-LM	
	105SINHR-G1	24V DC	0.8 A	Red			105-LR	

[1]At nominal operating voltage.
[2]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[3]Incandescent lamp, user supplied

Beacons
Steady-On Halogen
105 Series

Accessories

Description	Cat. No.
Wall Mount Bracket	**105BM**[1]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

[1]Must be used with 105BX.

Wall Mount Bracket

Outlet Box Attachment

Pipe Mount Attachment

Hazardous Location Ratings

Cat. No.	Class	Division	Group	Operating Temperature
105FINH*-G1	I	2	A, B, C, D	T2D (215°C, 419°F)
105SINH*-G1 **105FINH*-G5**	II	2	F, G	T4A (120°C, 248°F)
105SINH*-G5	III			T4A (120°C, 248°F)

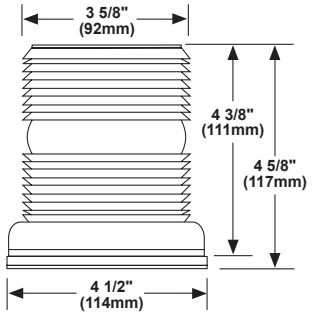
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

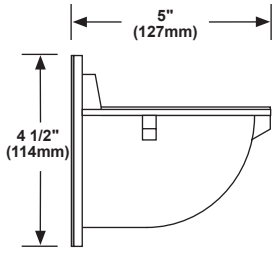
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105INH*G1	0.88	1.04
105INH*G5	0.88	1.04
105INH*N5	0.88	1.04
105PM	0.80	1.00
105BX	0.80	1.00
105BM	1.00	1.20

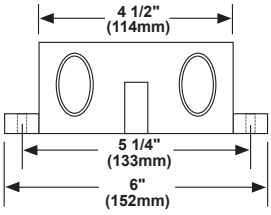
*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

Cat. No's. 105SINH

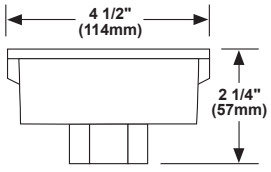




Cat. No. 105BM Mounting Bracket (must use with 105BX)



Cat. No. 105BX Outlet Box Attachment (Four 3/4" threaded hubs)



Cat. No. 105PM Pipe Mount Attachment (Pipe mount is 3/4" NPT)

Beacons
Flashing Halogen
105 Series

Edwards 105 Series flashing Halogen beacons are NEMA Type 4X signaling devices, suitable for use in indoor or outdoor applications where an intermittent (flashing) light source is required. Base material is gray, manufactured from glass-reinforced thermoplastic polyester resin and features brass hardware. The double fresnel lens is made of shatter-resistant polycarbonate.

Features and Specifications

- Halogen light source
- Flash rate 65 fpm
- Shatter-resistant double fresnel polycarbonate lens
- Gray Rynite® (PET) base with brass hardware
- Suitable for indoor, outdoor and marine applications
- For outdoor use, lens should face up
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III
- Option for panel or conduit mounting

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Color	Peak Candela	Lamp Ratings	Replacement	
							Lens	Lamp
Flashing Beacon Halogen AC	**105FINHA-G5**	24V AC	0.8 A	Amber	2839	20W, 20,000 hours[1,2]	105-LA	50LMP-20WH or Ind. Trade No. 1692[3]
	105FINHB-G5	24V AC	0.8 A	Blue			105-LB	
	105FINHC-G5	24V AC	0.8 A	Clear			105-LC	
	105FINHG-G5	24V AC	0.8 A	Green			105-LG	
	105FINHM-G5	24V AC	0.8 A	Magenta			105-LM	
	105FINHR-G5	24V AC	0.8 A	Red			105-LR	
	105FINHA-N5	120V AC	0.2 A	Amber	2198	25W, 20,000 hours[1,2]	105-LA	50LMP-25WH or Ind. Trade No. 25T8DC[3]
	105FINHB-N5	120V AC	0.2 A	Blue			105-LB	
	105FINHC-N5	120V AC	0.2 A	Clear			105-LC	
	105FINHG-N5	120V AC	0.2 A	Green			105-LG	
	105FINHM-N5	120V AC	0.2 A	Magenta			105-LM	
	105FINHR-N5	120V AC	0.2 A	Red			105-LR	
Flashing Beacon Halogen DC	**105FINHA-G1**	24V DC	0.8 A	Amber	2839	20W, 20,000 hours[1,2]	105-LA	50LMP-20WH or Ind. Trade No. 1692[3]
	105FINHB-G1	24V DC	0.8 A	Blue			105-LB	
	105FINHC-G1	24V DC	0.8 A	Clear			105-LC	
	105FINHG-G1	24V DC	0.8 A	Green			105-LG	
	105FINHM-G1	24V DC	0.8 A	Magenta			105-LM	
	105FINHR-G1	24V DC	0.8 A	Red			105-LR	

[1]At nominal operating voltage.
[2]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.
[3]Incandescent lamp, user supplied

Accessories

Description	Cat. No.
Wall Mount Bracket	**105BM**[4]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

[4]Must be used with the 105BX.

Wall Mount Bracket

Outlet Box Attachment

Pipe Mount Attachment

Beacons
Flashing Halogen
105 Series

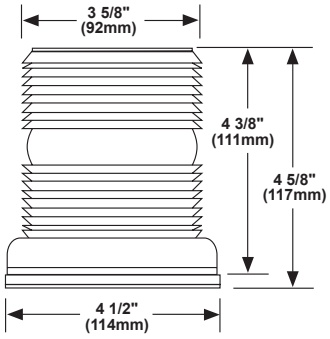
Hazardous Location Listings

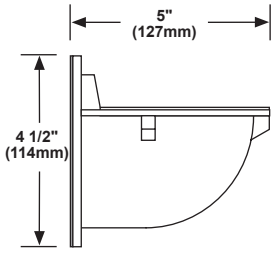
Cat. No.	Class	Division	Group	Operating Temperature
105FINH*-N5 105SINH*-N5	I	2	A, B, C, D	T2 (300°C, 572°F)
	II	2	F, G	T4 (135°C, 275°F)
	III			T4 (135°C, 275°F)

Weights and Dimensions

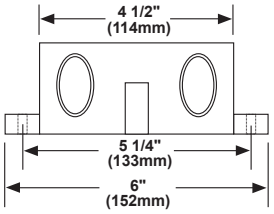
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
105FINH*-G5	0.88	1.04
105FINH*-N5	0.88	1.04
105FINH*-G1	0.88	1.04
105BX	0.80	1.00
105BM	1.00	1.20
105PM	0.80	1.00

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red

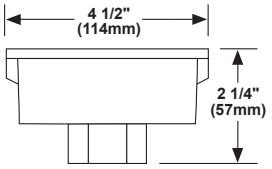




Cat. No. 105BM Mounting Bracket
(Must be used with 105BX)



Cat. No. 105BX
Outlet Box Attachment
(4) 3/4" Threaded Hubs



Cat. No. 105PM
Pipe Mount Attachment
(Pipe mount is 3/4" NPT)

Beacons
Rotating Halogen
58 Series

Edwards 58 Series rotating beacons are heavy-duty visual signals suitable for use in hazardous indoor and outdoor applications where a corrosion resistant NEMA Type 4X enclosure is required. Features a bayonet base and a polycarbonate dome allows for easy cleaning. Ideal for use in high ambient noise applications where audible or visual signals are difficult to distinguish.

Features and Specifications

- Halogen light source
- Motor driven reflector
- Bayonet base lamp socket
- 3/4" NPT conduit or surface mounting
- Suitable for indoor or outdoor hazardous applications (with conduit mounting)
- For outdoor use, lens should face up
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III, Div 1
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Colors	Lamp Ratings	Revolution Rate	Replacement Dome	Replacement Lamp
Rotating Light Halogen	**58A-N5-100WH**	120V AC	1.0 A	Amber	1,800 lumens[2] 1620 cd 1,000 hours[3]	75 rpm	94DV2-DA	100Q/CL/DC/120V
	58B-N5-100WH	120V AC	1.0 A	Blue		75 rpm	94DV2-DB	
	58C-N5-100WH	120V AC	1.0 A	Clear		75 rpm	94DV2-DC	
	58G-N5-100WH	120V AC	1.0 A	Green		75 rpm	94DV2-DG	
	58M-N5-100WH	120V AC	1.0 A	Magenta		75 rpm	94DV2-DM	
	58R-N5-100WH	120V AC	1.0 A	Red		75 rpm	94DV2-DR	

[1]AC voltage frequency is 50/60 Hz
[2]Bulb manufacturer's lumen rating
[3]Projected lamp life based on manufacturer's calculated lamp life at 65 fpm and 50% duty cycle.

Accessories

Description	Cat. No.
Corner Mount Bracket	**CBR**
Wall Mount Bracket	**WBR**

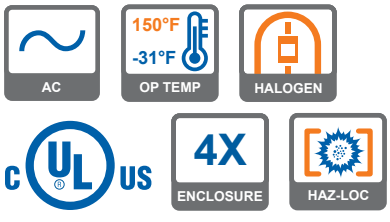
CBR
Corner Mount Bracket

WBR
Wall Mount Bracket

Hazardous Location Listings

Cat. No.	Class	Division	Group	Operating Temperature Code
58*-N5-100WH	I	2	A,B,C,D	T1 (450°C, 842°F)
	II	2	F,G	T6 (85°C, 185°F)
	III	1		T6 (85°C, 185°F)

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta, or R - red

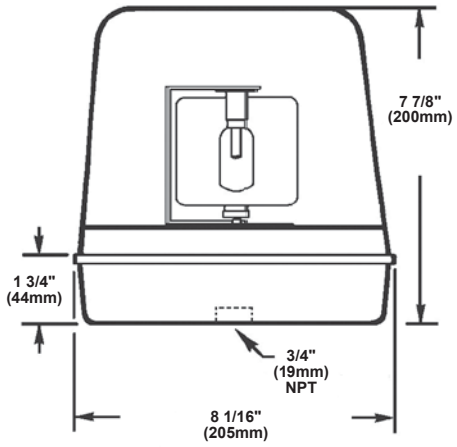


Beacons
Rotating Halogen
58 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
58*-N5-100WH	5.60	6.20
CBR	4.00	4.20
WBR	2.30	2.50

*Letter in this position designates lens color: A - amber, B - blue, C - clear, G - green, M - magenta or R - red



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Klaxon Sounder Beacons: Intrinsically Safe
Electronic Tone
Syrex Series

The Syrex IS sounder/beacon is an intrinsically safe alarm which provides an audible and visual warning signal in hazardous area applications.

With three alarm stages and a low current consumption, the Syrex IS sounder/beacon is ideal for both fire and process control applications.

The Syrex IS sounder/beacon must be used with a galvanic isolator specified by the system certificates.

Features and Specifications

- LED light source
- Choice of 49 tones
- Choice of lens colors
- Flash rate 2Hz or 1Hz (double flash)
- Auto synchronized sound output
- ABS flame retardant UL94V0 and 5VA housing
- Volume control
- IP65 rated
- Rated for Category 1
- Ⓔx II 1G EEx ia IIC T4
- Operating temperature range: -40ºF to 140ºF (-40ºC to 60ºC)

Ordering Information

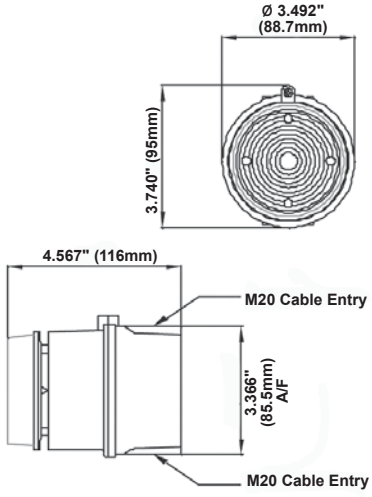
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current (Tone dependent)	Lens Color	dB at 1m/10ft. (Tone dependent)
IS-SB Sounder Beacon	**17-970341**	**TCA-0037**	6-28V DC	0.048 A	Amber	Up to 100/90
	17-970342	**TCA-0038**	6-28V DC	0.048 A	Blue	Up to 100/90
	17-970343	**TCA-0039**	6-28V DC	0.048 A	Green	Up to 100/90
	17-970330	**TCA-0029**	6-28V DC	0.048 A	Red	Up to 100/90

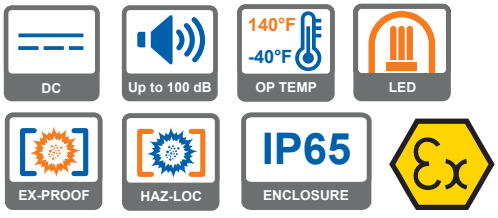
Accessories

Description	Edwards Cat. No.	Klaxon Cat. No.
Single Channel Galvanic Isolator	**17-970362**	**TCA-0042**
Dual Channel Galvanic Isolator	**17-970395**	**TCA-0066**
IS DIN Rail Enclosure, accepts two isolators	**17-970392**	**TCA-0065**

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)
17-970341	**TCA-0037**	0.77
17-970342	**TCA-0038**	0.77
17-970343	**TCA-0039**	0.77
17-970330	**TCA-0029**	0.77





Bells: Explosionproof
Single Stroke
330EX Series

Edwards 330EX Series single stroke bells produce a clearly defined note for timing, scheduling, paging and general alarm applications. Coded, intermittent current may be used to cause the striker to gong, pause and strike again for any specified period of time. Designed for use in hazardous locations, they have a NEMA Type 4 housing.

Features and Specifications

- Single stroke or coded intermittent stroke
- Completely assembled
- Sealing fitting for 3/4" (19mm) conduit and wire leads for power connections
- Mounts directly on surface
- Self-compensating solenoid plunger
- Low power drain for efficient operation over long wire runs
- Available with 6" or 10" gongs
- Corrosion resistant heat flowed epoxy finish
- Suitable for use in outdoor applications
- NEMA Type 4 housing
- UL Listed for Class I, Divisions 1 and 2, Groups B, C & D; Class II, Divisions 1 and 2, Groups E, F & G; and Class III

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current[2]	Gong Size	dB at 1m/10ft.
AC Single Stroke	**332EX-6N5**	120V AC	0.43 A	6" (152mm)	96/86
	332EX-10N5	120V AC	0.43 A	10" (254mm)	104/94
	332EX-6R5	240V AC	0.20 A	6" (152mm)	96/86
	332EX-10R5	240V AC	0.20 A	10" (254mm)	104/94
DC Single Stroke	**333EX-6G1**	24V DC	3.50 A	6" (152mm)	96/86
	333EX-10G1	24V DC	3.50 A	10" (254mm)	104/94
	333EX-6P1	125V DC	0.52 A	6" (152mm)	96/86

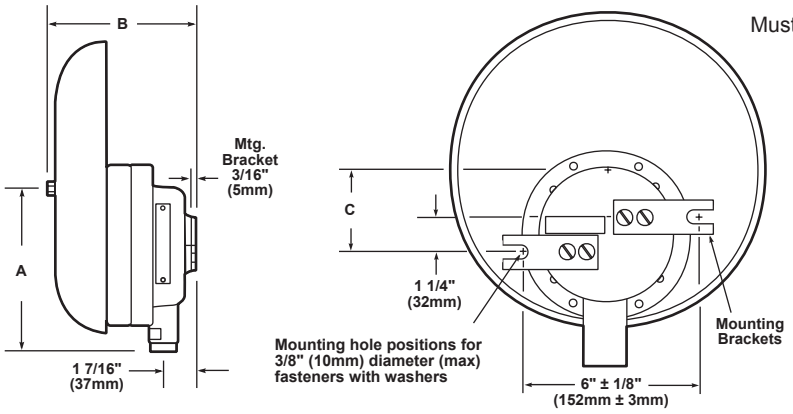
[1]AC voltage frequency is 50/60 Hz.
[2]Single pulse duration - 8 to 16 milliseconds

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Bells: Explosionproof
Single Stroke
330EX Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Gong Size	Dimensions		
				A	B	C
332EX-6N5	5.70	7.50	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
332EX-6R5	5.70	7.50	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
332EX-10N5	8.54	9.78	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
332EX-10R5	8.54	9.78	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
333EX-6G1	5.70	7.50	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
333EX-6P1	5.70	7.50	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
333EX-10G1	8.54	9.78	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)



Must be mounted vertically.

Bells: Explosionproof
Vibrating
340EX and 435EX Series

Edwards 340EX and 435EX hazardous location bells are vibrating bells that produce a long, continuous ringing sound. The striker continues to strike the gong in rapid-fire as long as current is applied. They feature an explosionproof, NEMA Type 4 housing.

Features and Specifications

- 6", 8" and 10" gong sizes
- Completely assembled
- Corrosion resistant finish
- Mounts directly on any solid surface
- Low power draw for efficient operation over long runs
- Suitable for use in outdoor applications
- Adjustment free self-compensating solenoid plunger
- UL listed for Class I, Divisions 1 and 2, Groups B, C and D; Class II, Divisions 1 and 2, Groups E, F and G; Class III
- NEMA Type 4 enclosure

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Gong Size	dB at 1m/10ft.
AC	**340EX-6G5**	24V AC	0.210 A	6" (152mm)	94/84
	340EX-10G5	24V AC	0.210 A	10" (254mm)	98/88
	340EX-6N5	120V AC	0.041 A	6" (152mm)	94/84
	340EX-8N5	120V AC	0.041 A	8" (203mm)	99/89
	340EX-10N5	120V AC	0.041 A	10" (254mm)	98/88
	340EX-6R5	240V AC	0.021 A	6" (152mm)	94/84
	340EX-10R5	240V AC	0.021 A	10" (254mm)	98/88
DC	**435EX-6C1**	6V DC	1.520 A	6" (152mm)	93/83
	435EX-6E1	12V DC	0.520 A	6" (152mm)	96/86
	435EX-10E1	12V DC	0.520 A	10" (254mm)	99/89
	435EX-6G1	24V DC	0.240 A	6" (152mm)	93/83
	435EX-8G1	24V DC	0.290 A	8" (203mm)	96/86
	435EX-10G1	24V DC	0.290 A	10" (254mm)	99/89
	435EX-6K1	48V DC	0.110 A	6" (152mm)	93/83
	435EX-8K1	48V DC	0.110 A	8" (203mm)	96/86
	435EX-6P1	125V DC	0.040 A	6" (152mm)	93/83
	435EX-8P1	125V DC	0.040 A	8" (203mm)	96/86
	435EX-10P1	125V DC	0.040 A	10" (254mm)	99/89
	435EX-6S1	250V DC	0.023 A	6" (152mm)	93/83
	435EX-8S1	250V DC	0.023 A	8" (203mm)	96/86
DC, Diode Polarized	**435DEX-6G1**	24V DC	0.290 A	6" (152mm)	93/83
	435DEX-8G1	24V DC	0.290 A	8" (203mm)	96/86
	435DEX-10G1	24V DC	0.290 A	10" (254mm)	99/89

[1] AC voltage frequency is 50/60 Hz.

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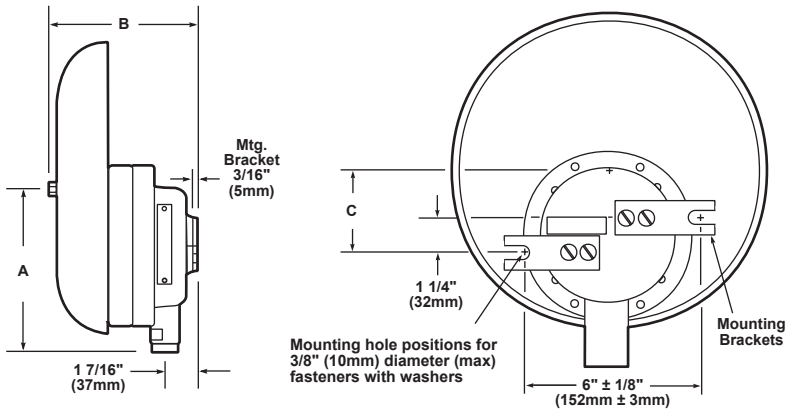
Bells: Explosionproof
Vibrating
340EX and 435EX Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Gong Size	Dimensions		
				A	B	C
340EX-6G5	5.70	8.00	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
340EX-10G5	8.70	10.64	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
340EX-6N5	5.70	8.00	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
340EX-8N5	7.70	8.66	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
340EX-10N5	8.70	10.64	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
340EX-6R5	5.70	8.00	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
340EX-10R5	8.70	10.64	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
435EX-6C1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-6E1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-10E1	8.70	10.60	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
435EX-6G1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-8G1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435EX-10G1	8.70	10.60	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
435EX-6K1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-8K1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435EX-6P1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-8P1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435EX-10P1	8.70	10.60	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
435EX-6S1	5.70	7.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435EX-8S1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435DEX-6G1	5.70	6.80	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
435DEX-8G1	7.70	8.60	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
435DEX-10G1	8.70	10.40	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)



NOTE: Mounts to any solid surface using 3/8" (10mm) fasteners. Units fitted with a sealing fitting for 3/4" (19mm) conduit and wire leads for power connections.

Bells: Explosionproof
Vibrating
439DEX Series

Edwards 439DEX Series hazardous location fire alarm bells are DC vibrating bells that produce a long, continuous ringing sound. The striker continues to strike the gong in rapid-fire as long as current is applied. Diode polarized models are available for use in electrically supervised circuits.

Features and Specifications

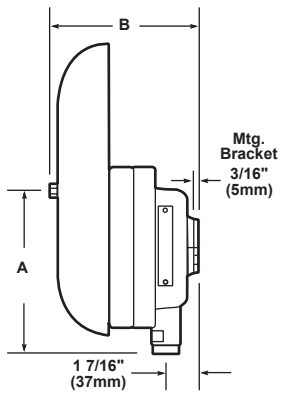
- 6", 8" and 10" gong sizes
- Completely assembled
- Corrosion resistant gray epoxy finish
- Suitable for use in indoor applications
- Mounts directly on any solid surface
- Low power draw for efficient operation over long runs
- Adjustment free self-compensating solenoid plunger
- Wire leads and sealing fitting for connection to 3/4" conduit
- UL listed for Class I, Divisions 1 and 2, Groups B, C and D; Class II, Divisions 1 and 2, Groups E, F and G; Class III

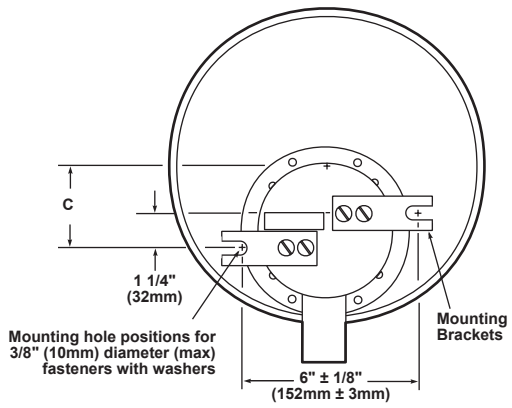
Ordering Information

Description	Cat. No.	Operating Voltage	Current	Gong Size	dB at 1m/10ft.	Color
DC Fire Alarm	**439DEX-6AW**	20-24V DC	0.240 A	6" (152mm)	93/83	Gray
	439DEX-8AW	20-24V DC	0.240 A	8" (203mm)	96/86	Gray
	439DEX-10AW	20-24V DC	0.240 A	10" (254mm)	99/89	Gray
	439DEX-6AW-R	20-24V DC	0.240 A	6" (152mm)	93/83	Red
	439DEX-8AW-R	20-24V DC	0.240 A	8" (203mm)	96/86	Red
	439DEX-10AW-R	20-24V DC	0.240 A	10" (254mm)	99/89	Red

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Gong Size	Dimensions A	Dimensions B	Dimensions C
439DEX-6AW	5.70	7.24	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
439DEX-8AW	7.70	9.67	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
439DEX-10AW	8.70	11.10	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
439DEX-6AW-R	5.70	7.24	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
439DEX-8AW-R	7.70	9.67	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
439DEX-10AW-R	8.70	11.10	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)





DC | 93-99 dB | EX-PROOF | HAZ-LOC

NOTE: Mounts to any solid surface using 3/8" (10mm) fasteners. Units fitted with a sealing fitting for 3/4" (19mm) conduit and wire leads for power connections.

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Klaxon Bells: Explosionproof
Vibrating
Syrex Series

The Klaxon Bell is designed for use in Zone 1 and 2 areas and is suitable for outdoor applications. The Syrex Series Bells are IP66 rated and certified to ATEX II 2G Exd e IIC T6.

With a sound output of up to 105dB, it provides a clear signal which stands out against background noise.

The housing is manufactured from glass fiber reinforced polyester with stainless steel fittings. In addition, all DC versions are equipped with a non-wearing electronic contact breaker.

Features and Specifications

- Clear audible signal designed to penetrate background noise
- Glass fiber reinforced polyester construction with stainless steel fittings
- IP66 rated
- Rated for Category 2 use (formerly Zone 1 & 2)
- ATEX approved
- II 2G Exd e IIC T6
- Operating temperature range: -4°F to 104°F (-20°C to 40°C)

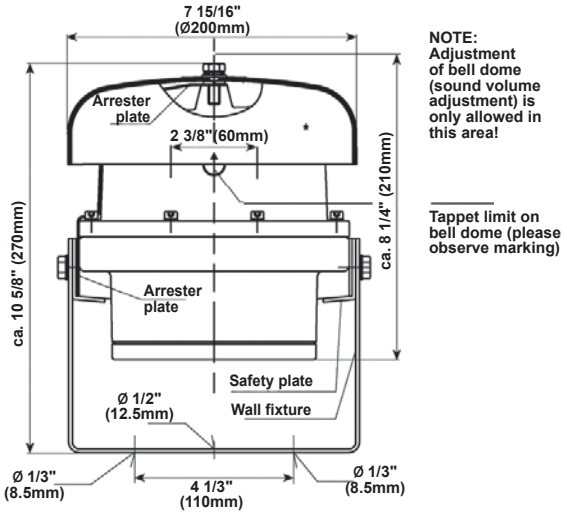
Ordering Information

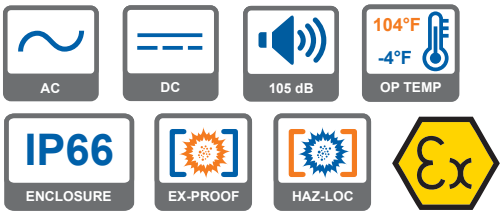
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Current	Color	dB at 1m/10ft.
AC	**17-970233**	**TCA-0003**	110V AC	0.140 A	Black/Gray	105/95
	17-970232	**TCA-0002**	230V AC	0.060 A	Black/Gray	105/95
DC	**17-970234**	**TCA-0004**	24V DC	0.320 A	Black/Gray	105/95

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
17-970233	**TCA-0003**	7.70	10.40
17-970232	**TCA-0002**	7.70	10.40
17-970234	**TCA-0004**	7.70	10.40





Buzzers: Explosionproof
Vibrating
B93 Series

The B-KM-8140 and B-8141 series are quality, heavy duty AC and DC buzzers designed for use in hazardous locations. The sound is produced by the hammer action of a vibrating armature against the cover. The buzzers are provided with two mounting lugs for wall mounting.

Features and Specifications

- Cast aluminum housing and cover
- Corrosion resistant heat flowed powder epoxy finish
- UL listed for Class 1, Div. 1 and 2, Groups C and D, Class 1, Zones 1 and 2, Groups II A and II B, Class II, Div. 1 and 2, Groups E, F and G.

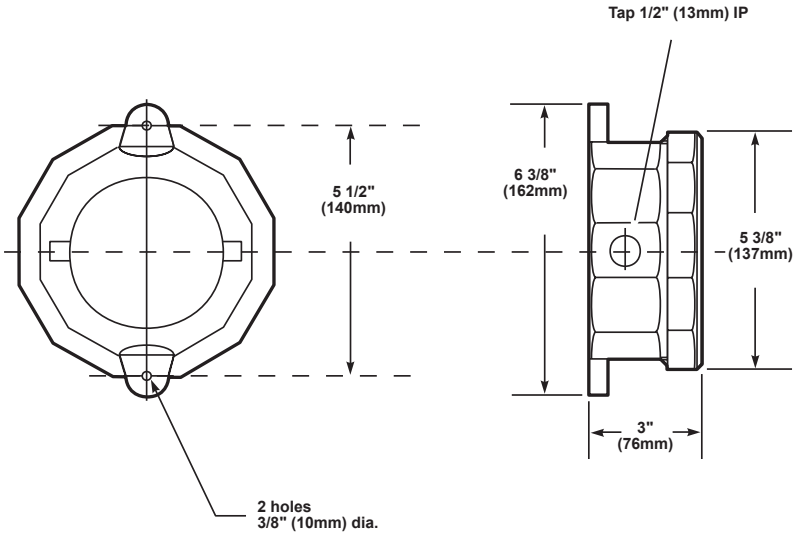
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**B-KM-8140-G5**	24V AC	1.1 A	26.4	99/89	5.0
	B-KM-8140-N5	120V AC	0.2 A	24	99/89	146
DC	**B-8141-G1**	24V DC	0.8 A	19.2	99/89	21.5

[1]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KM-8140-G5	2.74	3.20
B-KM-8140-N5	2.74	3.20
B-8141-G1	2.74	3.20



Buzzers: Explosionproof
Klaxon
Syrex Series

The Klaxon Buzzer is an explosion proof buzzer designed for use in hazardous areas where a distinctive signal is required. Certified to ATEX II 2G Exd e IIC T6, it is suitable for use in Zone 1 and Zone 2 areas.

Producing a tone with low frequency, it cuts through background noise more effectively than many other devices of a similar output.

Mounted in a rugged reinforced polyester case and rated to IP66, it is suitable for use in outdoor applications.

Features and Specifications

- Heavy duty buzzer
- Rugged construction
- Glass Fiber reinforced polyester construction
- IP66 rated case
- Rated for Category 2 use (formerly Zone 1 & 2)
- ATEX approved
- Ex II 2G Exd e IIC T6
- Operating temperature range: -4ºF to 104ºF (-20ºC to 40ºC)

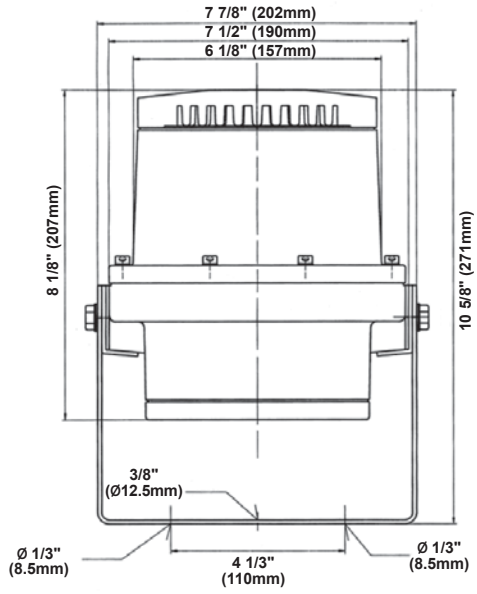
Ordering Information

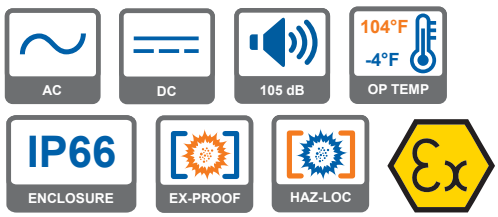
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Current	Color	dB at 1m/10ft.
AC	**17-970235**	**TCA-0069**	110V AC	0.150 A	Black	105/95
	17-970220	**TCA-0001**	230V AC	0.070 A	Black	105/95
DC	**17-970236**	**TCA-0005**	24 DC	0.650 A	Black	105/95

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
17-970235	**TCA-0069**	7.70	9.00
17-970220	**TCA-0001**	7.70	9.00
17-970236	**TCA-0005**	7.70	9.00





Klaxon Sounders: Intrinsically Safe
Electronic
Syrex Series

The Syrex IS Sounder is an intrinsically safe alarm sounder which provides an audible warning signal in hazardous area applications.

With three alarm stages and a low current consumption, the Syrex IS Sounder is ideal for both fire and process control applications.

The Syrex IS sounder must be used with a galvanic isolator specified by the system certificates.

Features and Specifications

- Choice of 49 tones
- Auto synchronized sound output
- ABS flame retardant UL94V0 and 5VA housing
- IP65 rated housing
- Volume control
- Operating temperature range: -40ºF to 140ºF (-40ºC to 60ºC)
- Ⓔx II 1G EEx ia IIC T4
- ATEX Zones 0, 1, 2

Ordering Information

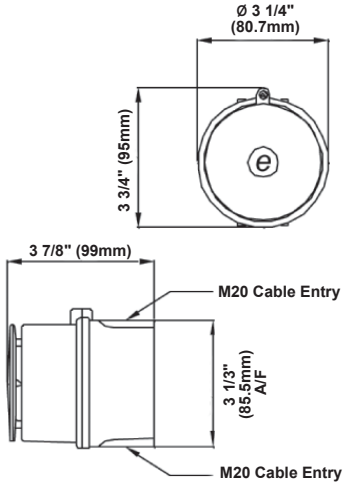
Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage	Current (Tone Dependent)	dB at 1m/10ft.	Tones
Alarm Sounder	**17-970328**	**TCA-0023**	6-28V DC	0.025 A	Up to 100/90	Up to 49

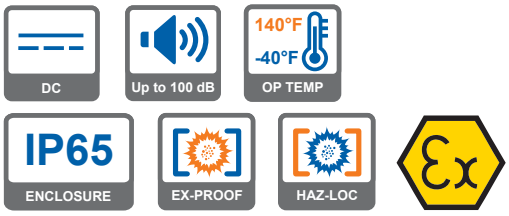
Accessories

Description	Edwards Cat. No.	Klaxon Cat. No.
Single Channel Galvanic Isolator	**17-970362**	**TCA-0042**
Dual Channel Galvanic Isolator	**17-970395**	**TCA-0066**
IS DIN-rail Enclosure, accepts two Isolators	**17-970392**	**TCA-0065**

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
17-970328	**TCA-0023**	0.77	2.00
17-970362	**TCA-0042**	0.77	2.00
17-970395	**TCA-0066**	0.77	2.00
17-970392	**TCA-0065**	0.77	2.00





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Klaxon Sounders
Electronic
Syrex Series

The EXD-3 is an electronic sounder designed for potentially explosive atmospheres and harsh environmental conditions. Certified to II 2G EExd IIC T4, it is suitable for use in Zone 1 and 2 areas.

With an ingress protection rating of IP67 and a choice of tones including those covering PFEER/ UKOOA requirements, it is suitable for use in almost any application. The EXD-3 gives the user a choice of the 1st stage alarm tone with stages 2 and 3 fixed at manufacture.

The unit features two 20mm cable entries and has terminals that accept 4mm² cable for ease of installation.

Features and Specifications

- Choice of 32 tones
- Suitable for outdoor applications
- Volume control
- Marine grade LM6 aluminium construction
- Operating temperature range: -58ºF to 131ºF (-50ºC to 55ºC)
- IP67 rated
- ATEX / IECEx Approved
- Rated for Category 2 use (formerly Zone 1 & 2)
- EXII 2G Exd IIC T4

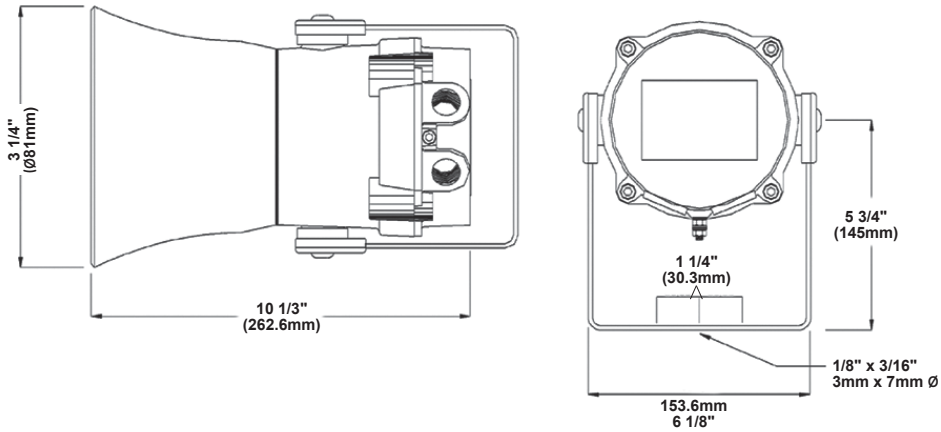
Ordering Information

Description	Edwards Cat. No.	Klaxon Cat. No.	Operating Voltage[1]	Current	Color	dB at 1m/10ft.	Tones
AC	**17-970270**	**TCA-0011**	110V AC	0.093 A	Red	117/107	Up to 32
	17-970269	**TCA-0010**	230V AC	0.056 A	Red	117/107	Up to 32
DC	**17-970271**	**TCA-0012**	24V DC	0.265 A	Red	117/107	Up to 32

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Edwards Cat. No.	Klaxon Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
17-970269	**TCA-0011**	7.50	9.00
17-970270	**TCA-0010**	7.50	9.00
17-970271	**TCA-0012**	7.50	9.00



Horns: Explosionproof
Vibrating
870EX Series

The 870EX Series vibrating horns are heavy-duty, explosion-proof, high decibel horns designed for use in hazardous locations.

Diode polarized versions are also available. They are intended for use in hazardous locations requiring electrical supervision of signaling circuit field wiring. May also be used for unsupervised signaling applications.

Two mounting brackets are provided on either side of the unit for wall mounting. The housing is tapped on one side for 3/4" conduit to allow for field wiring installation.

Features and Specifications

- Corrosion resistant heat flowed epoxy finish
- Low current drain
- Operating voltage range -20% to +10% of nominal voltage
- Power connection wires embedded in sealing compound
- Not recommended for temperatures below 25°F (-3.9°C)
- Diode Polarized versions
- NEMA Type 4X rated
- UL listed for Class I, Div. 1 and 2, Groups B, C and D; Class II, Div. 1 and 2, Groups E, F and G; and Class III locations

Ordering Information

Description	Cat. No.	Operating Voltage[2]	Current	VA	Average dB at 1m/10ft.[1]	DC Coil Res (Ohms)
AC	**878EX-E5**	12V AC	1.25 A	15	110/100	1.45
	878EX-G5	24V AC	0.625 A	15	110/100	5.2
	878EX-N5	120V AC	0.13 A	15	110/100	150.0
	878EX-R5	240V AC	0.065 A	15.6	110/100	580.0
DC	**879EX-C1**	6V DC	0.70 A	4.2	107/97	1.4
	879EX-E1	12V DC	0.27 A	3.2	107/97	6.0
	879EX-G1	24V DC	0.16 A	3.8	107/97	24.0
	879EXP-G1[3]	24V DC	0.16 A	3.8	107/97	24.0
	879EX-J1	32V DC	0.13 A	3.2	107/97	40.0
	879EX-K1	48V DC	0.07 A	3.4	107/97	96.0
	879EX-P1	125V DC	0.025 A	3.1	107/97	600.0
AC, Diode Polarized	**878DEX-N5**	120V AC	0.165 A	19.8	110/100	150.0
DC, Diode Polarized	**879DEX-G1**[4]	24V DC	0.16 A	3.8	107/97	20.0

[1]Measured in an anechoic chamber.
[2]AC voltage frequency is 50/60 Hz.
[3]ATEX approved.
[4]Diode Polarized version available in red, order **889D-AW**.

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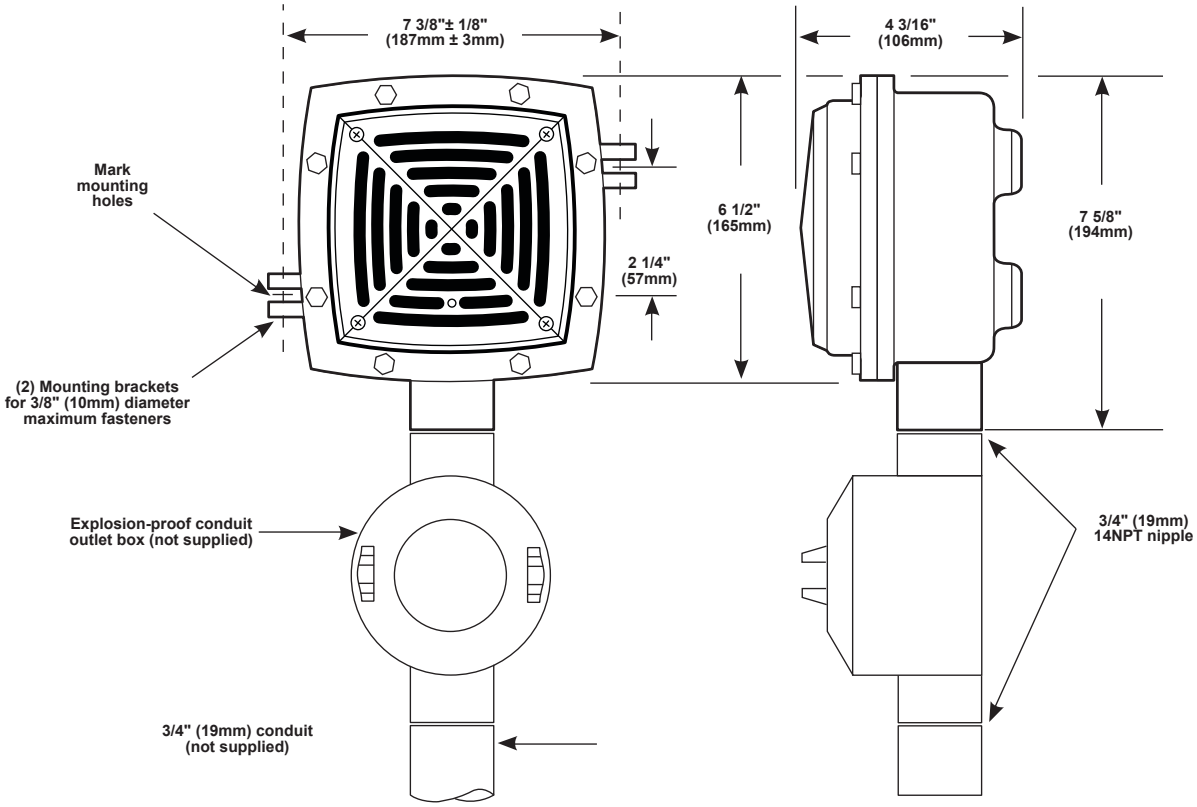
Horns: Explosionproof
Vibrating
870EX Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
878EX-E5	7.10	8.38
878EX-G5	7.10	8.38
878EX-N5	7.10	8.38
878EX-R5	7.10	8.38
879EX-C1	7.10	8.38
879EX-E1	7.10	8.38
879EX-G1	7.10	8.38
879EXP-G1	7.10	8.38
879EX-J1	7.10	8.38
879EX-K1	7.10	8.38
879EX-P1	7.10	8.38
878DEX-N5	7.10	8.38
879DEX-G1	7.10	8.38



Horns: Explosionproof
Vibrating
870EX Series

The Edwards 870EX Series are diode polarized, heavy-duty, high decibel, vibrating horns. They are intended for use in hazardous locations requiring electrical supervision of signaling circuit field wiring, including fire alarm systems. May also be used for unsupervised signaling applications.

Two mounting brackets are provided on either side of the unit for wall mounting.

Features and Specifications

- Diode polarized
- Red corrosion resistant heat flowed epoxy finish
- Low current drain
- Operating voltage range -20% to +10% of nominal voltage
- Not recommended for temperatures below 25°F (-3.9°C)
- Power connection wires embedded in sealing compound
- UL listed for Class 1, Div. 1 and 2, Groups B, C and D; Class II, Div. 1 and 2, Groups E, F and G; Class III locations

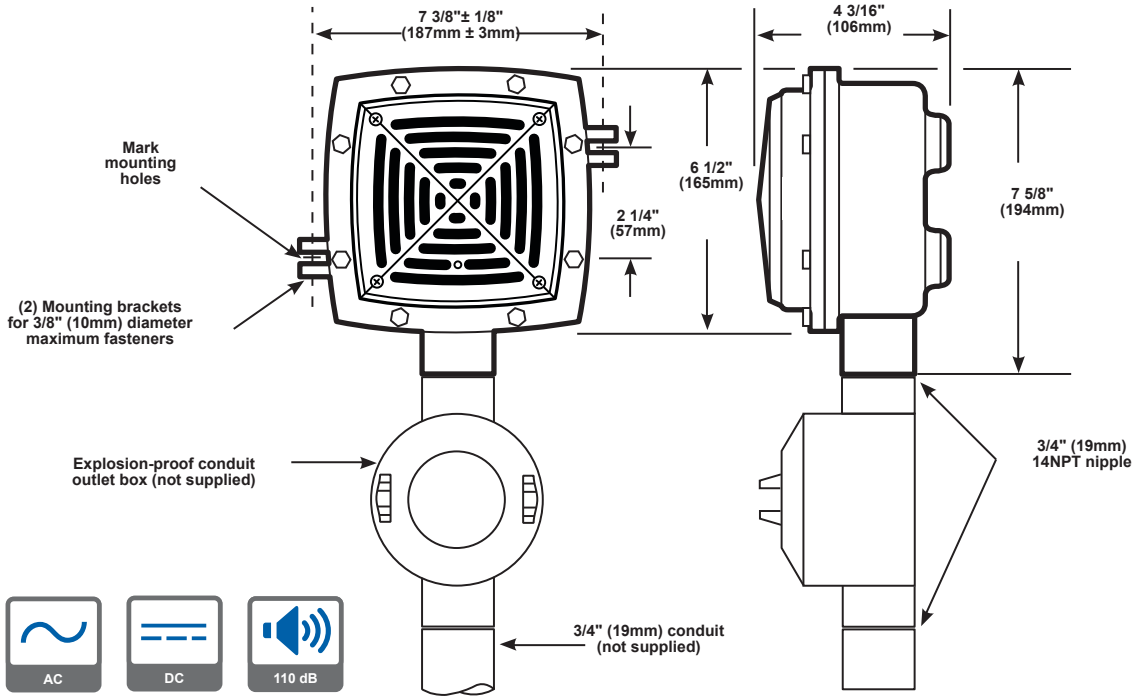
Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	Average dB at 1m/10ft.[1]	DC Coil Res (Ohms)
Hazardous Location, Horn Diode Polarized	**888D-N5**	120V AC	0.165 A	19.8	100/90	150.0
	889D-AW	20-24V DC	0.16 A	3.8	94/84	20.0

[1]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
888D-N5	7.50	8.60
889D-AW	7.50	8.60



Horns: Explosionproof
Electronic
Titan Class

The Titan Class are low current, high performance, high decibel audible signals designed for hazardous locations. They can be mounted on any surface using three bolts. Flying leads allow for quick installation.

The 5522MD is diode polarized and primarily intended for use in hazardous location applications requiring electrical supervision of signaling circuit field wiring. These signals may also be used for unsupervised signaling applications.

Features and Specifications

- Corrosion resistant electrostatic heat flowed powder epoxy gray finish
- Fitted with factory sealed 1/2" (13mm) threaded pipe nipple for quick installation
- Diode polarized versions for supervised circuits
- Speaker swivels 180° vertically or horizontally depending on orientation of mounting bracket **(5522MD-AW)**
- 30" (762mm) wire leads
- Horn frequency - 982 Hz
- UL listed for Class I, Div. 1 and 2, Groups B, C and D

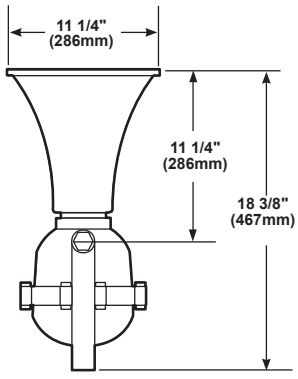
Ordering Information

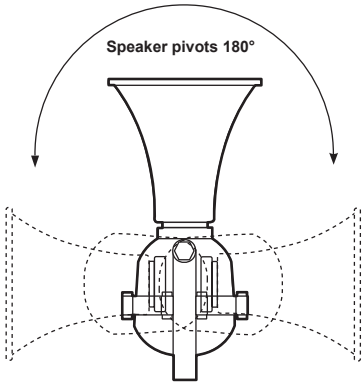
Description	Cat. No.	Operating Voltage[1]	Current	dB at 1m/10ft.
Horn	**5522M-AQ**	24V DC	0.25 A	119/109
		24V AC	0.95 A	
	5522M-Y6	120-240V AC	0.260 A	119/109
		125-250V DC	0.130 A	
Horn, Diode Polarized	**5522MD-AW**	24V DC	0.950 A	119/109

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5522M-AQ	16.50	23.50
5522M-Y6	16.50	23.50
5522MD-AW	16.50	23.50





Horns: Explosionproof
Projector
B93 Class

The B-KM-8130 Series is a heavy-duty, high decibel, vibrating horn signal designed for use in hazardous locations.

Two mounting lugs are provided on either side of the unit for wall mounting. The housing is tapped on one side for 1/2" (13mm) conduit to allow for field wiring installation.

Features and Specifications

- Intermittent Duty Cycle: 5 minutes on/ 5 minutes off
- Corrosion resistant electrostatic heat flowed epoxy finish
- Cast aluminum housing and ring
- Seamless steel projector
- 5" (127mm) spring steel diaphragm
- 5 1/2" (140mm) projector
- UL listed for Class 1, Div. 1 and 2, Groups C and D; Class II Div. 1 and 2, Groups E, F and G; and Class 1, Groups A and B, Div. 2 locations

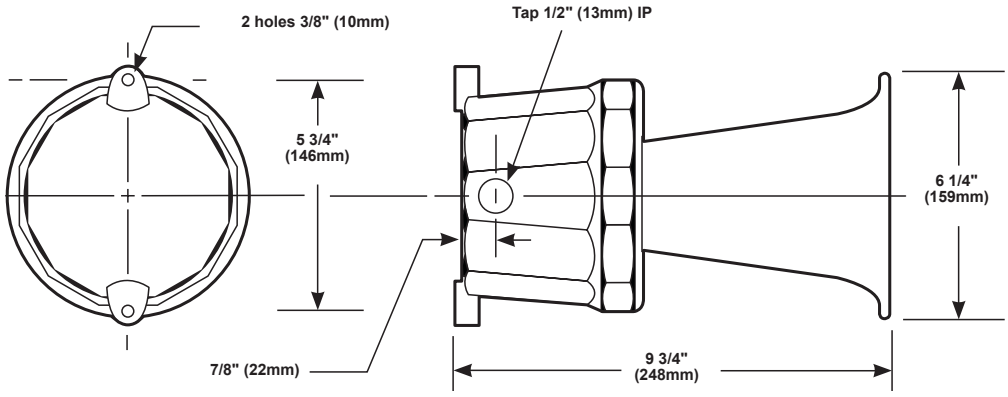
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA	dB at 1m/10ft.	Coil Res (Ohms)
Single Projector	**B-KM-8130-G5**	24V AC	2 A	48	115/105	1
	B-KM-8130-N5	120V AC	0.45 A	54	115/105	24

[1]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KM-8130-G5	7.00	8.00
B-KM-8130-N5	7.00	8.00



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Horns
Vibrating
870EX2 Series

NEW
Coming Soon

The 870EX2 Series are heavy-duty, high decibel, Class 1, Div. 2 vibrating horns designed for use in indoor or outdoor hazardous locations.

Diode polarized versions are also available. They are intended for use in hazardous locations requiring electrical supervision of signaling circuit field wiring. May also be used for unsupervised signaling applications.

Two mounting brackets are provided on either side of the unit for wall mounting. The housing is tapped on one side for 3/4" conduit to allow for field wiring installation.

Features and Specifications

- Corrosion resistant heat flowed epoxy finish
- Suitable for use in indoor or outdoor hazardous locations
- 100-107dB @ 1m (90-97dB @ 10ft.)
- Low current drain
- Operating voltage range -20% to +10% of nominal voltage
- Power connection wires embedded in sealing compound
- Diode Polarized versions
- NEMA Type 4X rated **(878DDIV2, 879DDIV2, 878DIV2, 879DIV2)**
- UL listed for Class I, Div. 2, Groups B, C and D; Class II, Groups F and G; and Class III locations
- Operating temperature range: 25ºF to 104ºF (-4ºC to 40ºC)

Ordering Information

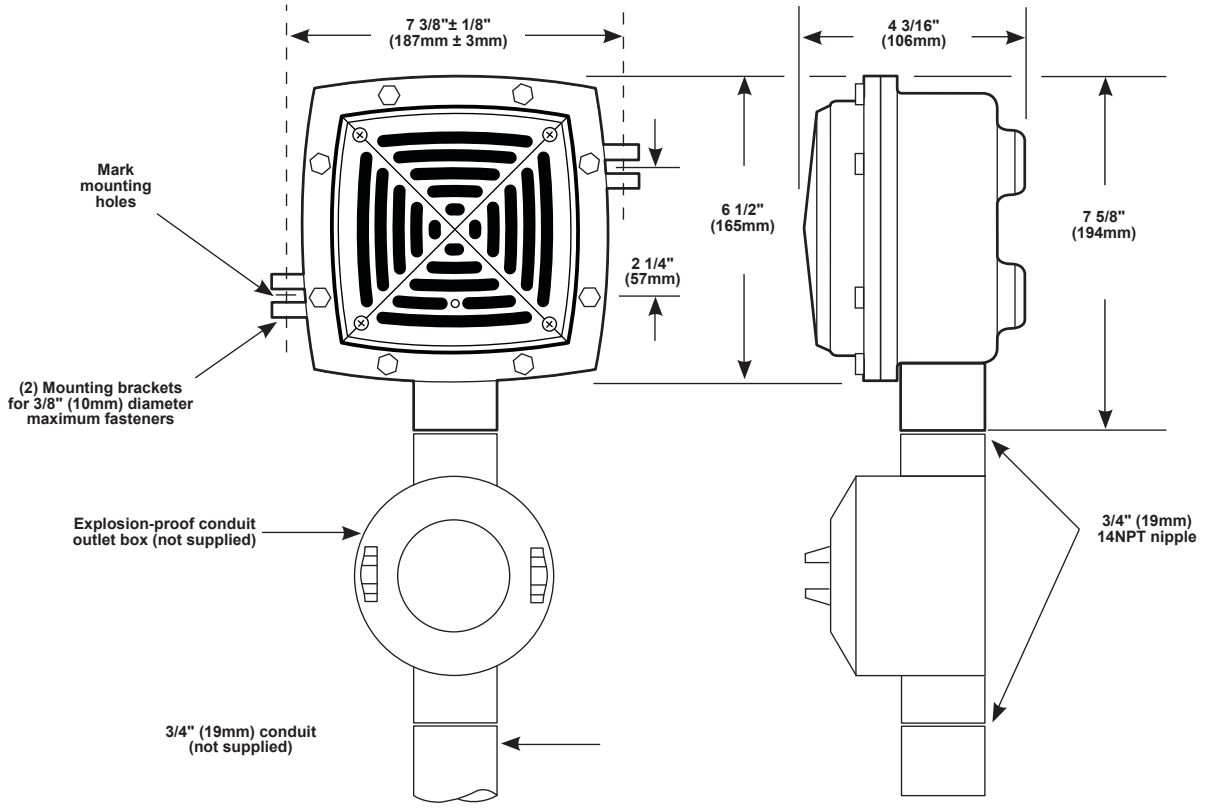
Description	Cat. No.	Operating Voltage	Current	VA	Average dB at 1m/10ft.	DC Coil Res (Ohms)
AC	**878DIV2-12A**	12V AC	1.25 A	15	107/97	1.45
	878DIV2-24A	24V AC	0.625 A	15	107/97	5.2
	878DIV2-120A	120V AC	0.13 A	15	107/97	150
	878DIV2-240A	240V AC	0.065 A	15	107/97	580
DC	**879DIV2-6D**	6V DC	0.7 A	4.2	107/97	1.4
	879DIV2-12D	12V DC	0.27 A	3.2	107/97	6
	879DIV2-24D	24V DC	0.16 A	3.8	107/97	24
	879DIV2-32D	32V DC	0.13 A	4.2	107/97	40
	879DIV2-48D	48V DC	0.07 A	3.4	107/97	96
	879DIV2-125D	125V DC	0.03 A	4.2	107/97	600
AC, Diode Polarized	**878DDIV2-120A**	120V AC	0.13 A	15	107/97	150
	888DDIV2-120A	120V AC	0.13 A	15	100/90[1]	150
DC, Diode Polarized	**889DDIV2-20-24D**	20-24V DC	0.16 A	3.8	100/90[1]	20
	879DDIV2-24D	24V DC	0.16 A	3.8	107/97	20

[1]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.

Horns
Vibrating
870EX2 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
878DIV2-12A	7.10	8.38
878DIV2-24A	7.10	8.38
878DIV2-120A	7.10	8.38
878DIV2-240A	7.10	8.38
879DIV2-6D	7.10	8.38
879DIV2-12D	7.10	8.38
879DIV2-24D	7.10	8.38
879DIV2-32D	7.10	8.38
879DIV2-48D	7.10	8.38
879DIV2-125D	7.10	8.38
878DDIV2-120A	7.10	8.38
888DDIV2-120A	7.10	8.38
889DDIV2-20X24D	7.10	8.38
879DDIV2-24D	7.10	8.38



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Sirens: Explosionproof
Electronic
Titan Class

The Titan Class devices are low current, high performance, high decibel audible signals designed for hazardous locations. They can be mounted on any surface using three bolts. Flying leads allow for quick installation.

5523M Series are primarily intended for use in hazardous location applications requiring electrical supervision of signaling circuit field wiring. These signals may also be used for unsupervised signaling applications.

Features and Specifications

- Corrosion resistant electrostatic heat flowed powder epoxy gray finish
- Fitted with factory sealed 1/2" (13mm) threaded pipe nipple for quick installation
- Diode polarized version for supervised circuits
- Speaker swivels 180° vertically or horizontally depending on orientation of mounting bracket **(5523MD-AW)**
- 30" (762mm) wire leads
- Siren frequency - rises and falls from 600 to 1250 Hz every 8 seconds
- UL listed for Class I, Div. 1 and 2, Groups B, C and D

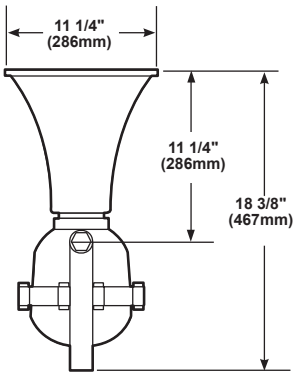
Ordering Information

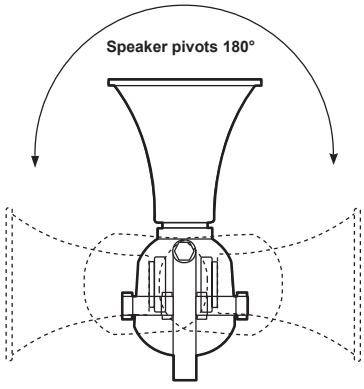
Description	Cat. No.	Operating Voltage[1]	Current	dB at 1m/10ft.
Siren	**5523M-AQ**	24V DC	0.25 A	115/105
		24V AC	0.95 A	
	5523M-Y6	120-240V AC	0.260 A	115/105
		125-250V DC	0.130 A	
Siren, Diode Polarized	**5523MD-AW**	24V DC	0.950 A	115/105

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5523M-AQ	16.50	23.50
5523M-Y6	16.50	23.50
5523MD-AW	16.50	23.50





Electronic Audible Signals: Explosionproof
Multi-Tone Signal – Two Input, Two Output
Titan Class

The 5533M and 5533MD signals are explosion-proof, heavy-duty industrial, tone-selectable, audible signaling devices capable of producing volume-controlled, high-decibel tones. The signal accepts up to two contact closures and delivers one or two audible output signals selected from the 55 tones available.

Features and Specifications

- User selectable 55 tone capability - No additional tone modules needed
- Internal volume control
- Corrosion resistant heat flowed epoxy finish
- Supplied with factory sealed 1/2" (13mm) threaded fitting for quick installation
- Diode polarized for supervised circuits **(5533MD)**
- Speaker swivels 180° vertically or horizontally depending on orientation of mounting bracket
- 30" (762mm) numbered wire leads
- Heavy duty zinc cast construction
- UL listed for Class 1, Div. 1 and 2, Groups B, C and D, hazardous locations

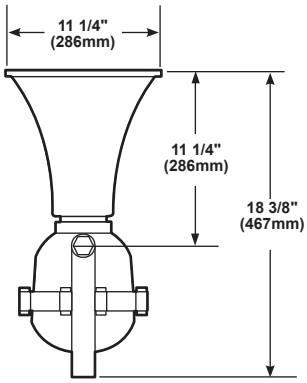
Ordering Information

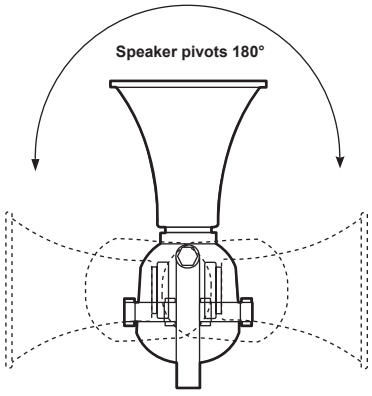
Description	Cat. No.	Operating Voltage[1]	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)	dB at 1m/10ft.
Two Outputs, Explosionproof	**5533M-AQ**	24V DC	0.061 A	0.470 A	100/90
		24V AC	0.250 A	0.95 A	100/90
	5533M-Y6	120-240V AC	0.88 A	0.260 A	100/90
		125-250V DC	0.31-0.019 A	0.130-0.070 A	100/90
One Output, Explosionproof, Diode Polarized	**5533MD-AW**	24V DC	—	0.470 A	96/86

[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5533M-AQ	16.50	23.50
5533M-Y6	16.50	23.50
5533MD-AW	16.50	23.50





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Electronic Audible Signals: Explosionproof
Speaker Amp
Titan Class

The 5545M Hazardous Location Remote Speaker/ Amplifier has been designed for high decibel system operation when connected to the 5540M Central Tone Generator or 5541M System Master Panel.

Features and Specifications

- Corrosion resistant electrostatic heat flowed epoxy finish
- Individual volume control
- Speaker swivels 180° vertically or horizontally depending on orientation of mounting bracket
- 30" (762mm) numbered wire leads
- Supplied with factory sealed 1/2" (13mm) threaded fitting for quick installation
- Heavy duty zinc cast construction
- 100dB @ 1m (90dB @ 10ft.)
- UL listed for Class 1, Div. 1 and 2, Groups B, C and D harzardous locations

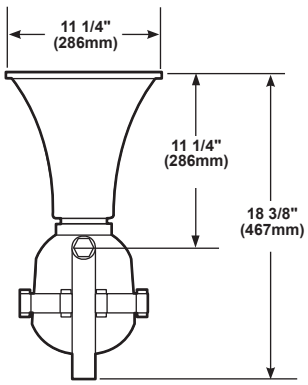
Ordering Information

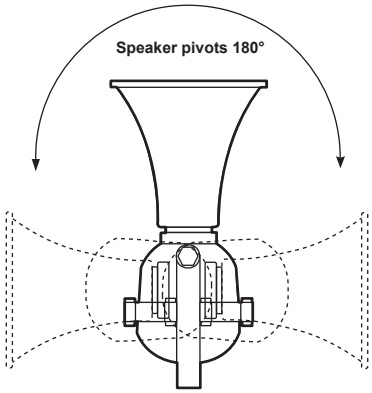
Description	Cat. No.	Operating Voltage[1]	Typical Current	
			Standby	Tone On
High Decibel, Explosionproof	**5545M-AQ**	24V DC	0.061 A	0.47 A
		24V AC	0.25 A	0.95 A
	5545M-Y6	120-240V AC	0.10 A	0.28-0.15 A
		125-250V DC	0.11-0.02 A	0.15-0.08 A
	5545M-25Y6	120-240V AC	0.10 A	0.28-0.15 A
		125-250V DC	0.11-0.02 A	0.15-0.08 A
	5545M-70Y6	120-240V AC	0.10 A	0.28-0.15 A
		125-250V DC	0.11-0.02 A	0.15-0.08 A

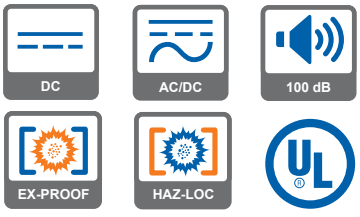
[1]AC voltage frequency is 50/60 Hz.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5545M-AQ	16.50	23.50
5545M-Y6	16.50	23.50
5545M-25Y6	16.50	23.50
5545M-70Y6	16.50	23.50







Electronic Audible Signals
Multi-Tone Signal – Four Input, Four Output
Millennium Class

The Millennium Class are heavy-duty industrial, tone-selectable, audible signaling devices capable of producing volume-controlled, high-decibel tones. In addition, the 5531MV Series can produce up to 20 seconds of field recorded voice messages.

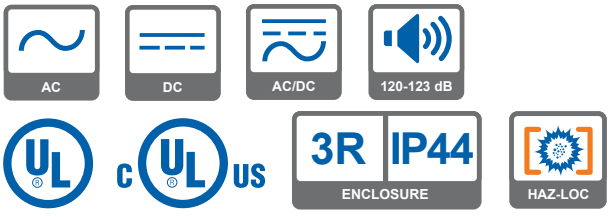
Features and Specifications

- User selectable 55 tone capability - No additional tone modules needed
- Output up to 120dB @ 1m (110dB @ 10ft.) **(5531M and 5531MV)**
- Output up to 123dB @ 1m (113dB @ 10ft.) **(5531MHV)**
- Suitable for Division 2 Locations
- Built-in cascading priority system
- Captive components
- Speaker can be rotated and locked in any horizontal direction
- NEMA Type 3R and IP44 rated
- UL listed for Class 1, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Input Activation Voltage	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
Four Outputs, 15 Watt	**5531M-24AQ**	24V DC	24V DC	0.10 A	0.74 A
		24V AC	24V DC	0.10 A	1.3 A
	5531M-24N5	120V AC	24V DC	0.10 A	0.36 A
	5531M-120N5	120V AC	120V AC	0.10 A	0.36 A
	5531M-24Y6	120-240V AC	24V DC	0.10 A	0.32-0.20 A
		125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A
	5531M-120Y6	120-240V AC	120V AC	0.10 A	0.32-0.20 A
		125-250V DC	120V AC	0.10-0.02 A	0.21-0.10 A
Four Outputs, 30 Watt	**5531MHV-24AQ**	24V DC	24V DC	0.10 A	1.5 A
		24V AC	24V DC	0.10 A	2.3 A
	5531MHV-24Y6	120-240V AC	24V DC	0.10 A	0.62-0.34 A
		125-150V DC	24V DC	0.10-0.02 A	0.40-0.19 A
	5531MHV-120Y6	120-240V AC	120V AC	0.10 A	0.62-0.34 A
		125-150V DC	120V AC	0.10-0.02 A	0.40-0.19 A
Field Recordable Device Model	**5531MV-24N5**	120V AC	24V DC	0.10 A	0.38 A
	5531MV-120N5	120V AC	120V AC	0.10 A	0.38 A
	5531MV-24Y6	125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A
		120-240V DC	24V DC	0.10 A	0.32-0.20 A

[1]AC voltage frequency is 50/60 Hz.



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Electronic Audible Signals
Multi-Tone Signal – Four Input, Four Output
Millennium Class

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

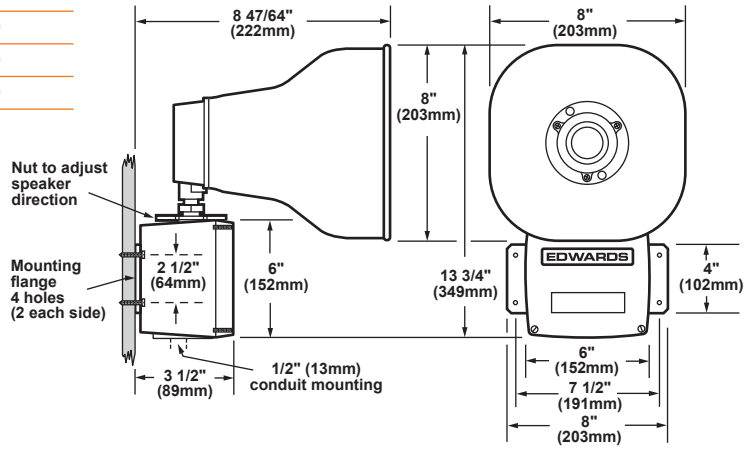
Cat. No.	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Milliseconds
5531M-24AQ	24V DC only	0.002	0.740	8/4
5531M-24N5	120V AC	0.002	0.360	2.82/4
5531M-120N5	120V AC	0.005	0.380	2.82/4
5531MHV-24AQ	24V DC only	0.002	1.5	8/4
5531MV-24N5	120V AC	0.002	0.360	2.82/4
5531MV-120N5	120V AC	0.005	0.380	2.82/4

[1]AC voltage frequency is 50/60 Hz.

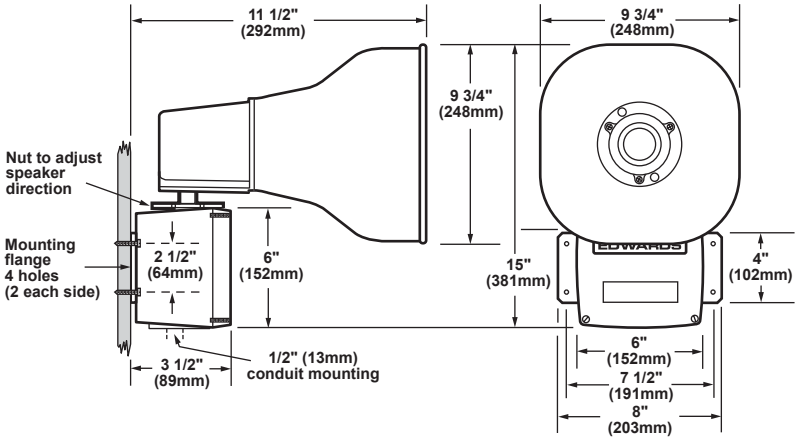
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5531M-24AQ	10.60	13.20
5531M-24N5	10.60	13.20
5531M-120N5	10.60	13.20
5531M-24Y6	10.60	13.20
5531M-120Y6	10.60	13.20
5531MHV-24AQ	10.60	13.20
5531MHV-24Y6	10.60	13.20
5531MHV-120Y6	10.60	13.20
5531MV-24N5	10.60	13.20
5531MV-120N5	10.60	13.20
5531MV-24Y6	10.60	13.20

5531M and 5531MV Series



5531MHV Series



Electronic Audible Signals
Multi-Tone Signal – Single Input, Single Output
Millennium Class

The Millennium Class are heavy-duty industrial, tone-selectable, signaling devices capable of producing volume-controlled, high-decibel tones. Selected models are designed to serially connect to RS485 networks. The 5530MV-485Y6 additionally has a field recordable voice feature that allows activation of voice messages over the RS485 network.

Features and Specifications

- User selectable 55 tone capability - No additional tone modules needed
- Output up to 120dB @ 1m (110dB @ 10ft.)
- Output up to 123dB @ 1m (113dB @ 10ft.) **(5530MHV Series)**
- Captive components
- RS485 models supervised
- Diode polarized for supervisory circuits **(5530MD-24AW)**
- Speaker can be rotated and locked in any horizontal direction
- 24V DC battery backup terminals provided
- NEMA Type 3R
- UL listed for Class 1, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Input Activation Voltage	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
Single output, 15 Watt Standard Volume	**5530M-24AQ**	24V DC	24V DC	0.10 A	0.74 A
		24V AC	24V DC	0.10 A	1.3 A
	5530M-24N5	120V AC	24V DC	0.10 A	0.36 A
	5530M-120N5	120V AC	120V AC	0.10 A	0.38 A
	5530M-24Y6	120V-240V AC	24V DC	0.10 A	0.31-0.20 A
	5530M-120Y6	125-250V DC	120V AC	0.10-0.02 A	0.21-0.10 A
Single output, RS485	**5530M-485Y6**	120-240V AC	RS485	0.10 A	0.32-0.20 A
		125-250V DC	RS485	0.10-0.02 A	0.21-0.10 A
Single output, RS485 Field recordable voice model	**5530MV-485Y6**	120-240V AC	RS485	0.10 A	0.31-0.20 A
		125-250V DC	RS485	0.10-0.02 A	0.20-0.10 A
Single output, 30 Watt High Volume	**5530MHV-24AQ**	24V DC	24V DC	0.10 A	1.5 A
		24V AC	24V DC	0.10 A	2.3 A
	5530MHV-24Y6	120-240V AC	24V DC	0.10 A	0.56-0.34 A
	5530MHV-120Y6	125-250V DC	120V AC	0.10-0.02 A	0.39-0.19 A
Single output, RS485 Connection 30 Watt High Volume	**5530MHV-485Y6**	120V AC-240V AC	RS485	0.10 A	0.56-0.34 A
		125-250V DC	RS485	0.10-0.02 A	0.39-0.19 A
Single output, Diode Polarized	**5530MD-24AW[2]**	20-31V DC	—	—	0.63-1.0 A

[1]AC voltage frequency is 50/60 Hz.
[2]Red finish

Signal Input Load Characteristics

These devices may be operated by PLCs with output characteristics that match the input load requirements of the signal.

Cat. No.	Operating Voltage[1]	Max. Off State Leakage Current (A)	Continuous On Current (A)	Surge (Inrush/Duration) Amps/Milliseconds
5530M-24AQ	24V DC only	0.002	0.740	8/4
5530M-24N5	120V	0.002	0.360	2.82/4
5530M-120N5	120V	0.005	0.380	2.82/4
5530MHV-24AQ	24V DC only	0.002	1.500	8/4

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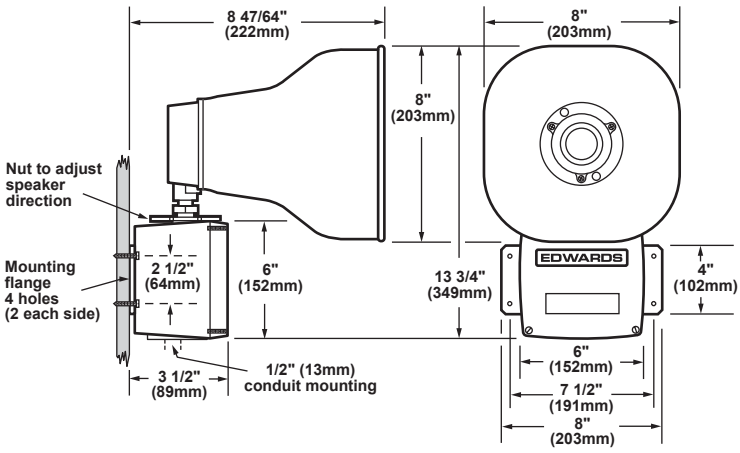
Electronic Audible Signals
Multi-Tone Signal – Single Input, Single Output
Millennium Class

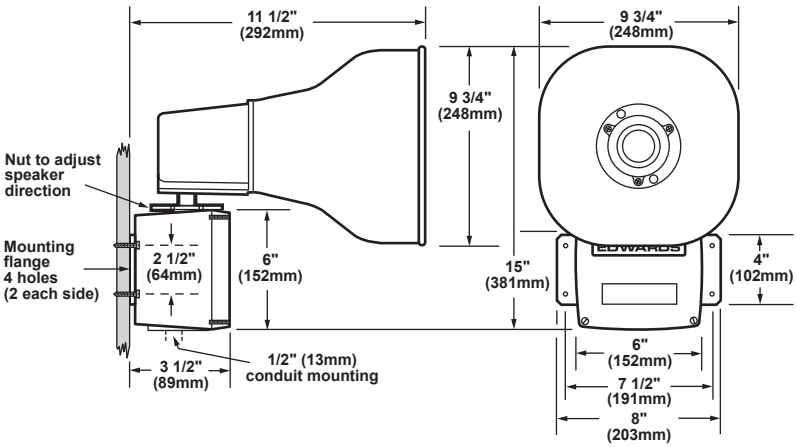
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5530M-24AQ	10.60	13.20
5530M-24N5	10.60	13.20
5530M-120N5	10.60	13.20
5530M-24Y6	10.60	13.20
5530M-120Y6	10.60	13.20
5530M-485Y6	10.60	13.20
5530MV-485Y6	10.60	13.20
5530MHV-24AQ	10.60	13.20
5530MHV-24Y6	10.60	13.20
5530MHV-120Y6	10.60	13.20
5530MHV-485Y6	10.60	13.20
5530MD-24AW	10.60	13.20

5530M, 5530MV, and 5530MD-24AW Series



5530MHV Series



Speaker/Amp
Remote Speaker Amplifier
Millennium Class

Millennium Class System Speaker Amplifiers have been designed for high decibel system operation when connected to the 5540M Central Tone Generator or 5541M System Master Panel.

Features and Specifications

- Output up to 120dB @ 1m (110dB @ 10ft.) **(5532M)**
- Output up to 123dB @ 1m (113dB @ 10ft.) **(5532MHV)**
- Corrosion resistant electrostatic heat flowed epoxy finish
- Individual volume control
- Suitable for Division 2 Locations
- Captive Components
- RS485 model available
- 24V DC battery backup terminals
- NEMA Type 3R and IP44 rated
- UL listed for Class 1, Div. 2, Groups A, B,C and D; Class II, Div. 2, Groups F and G; and Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
High Decibel	**5532M-AQ**	24V DC	0.10 A	0.7 A
		24V AC	0.10 A	1.3 A
	5532M-N5	120V AC	0.10 A	0.36 A
	5532M-Y6	120-240V AC	0.10 A	0.32-0.20 A
		125-250V DC	0.10-0.02 A	0.21-0.10 A
High Decibel, 30 Watt	**5532MHV-AQ**	24V DC	0.10 A	1.5 A
		24V AC	0.10 A	2.3 A
	5532MHV-Y6	120-240V AC	0.10 A	0.56-0.34 A
		125-250V DC	0.10 A	0.39-0.19 A

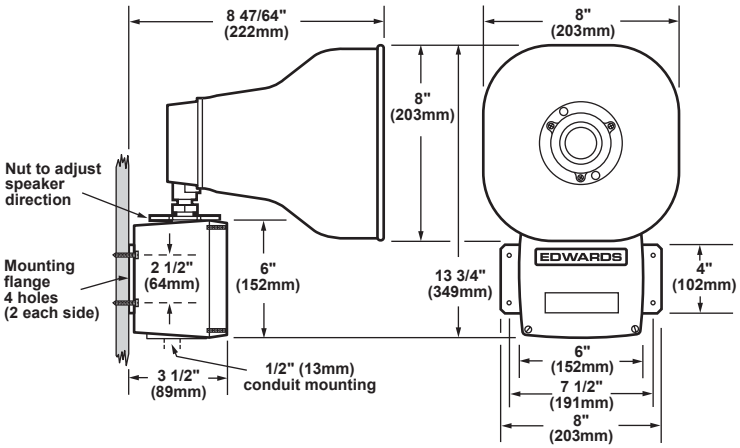
[1]AC voltage frequency is 50/60 Hz.

Speaker/Amp
Remote Speaker Amplifier
Millennium Class

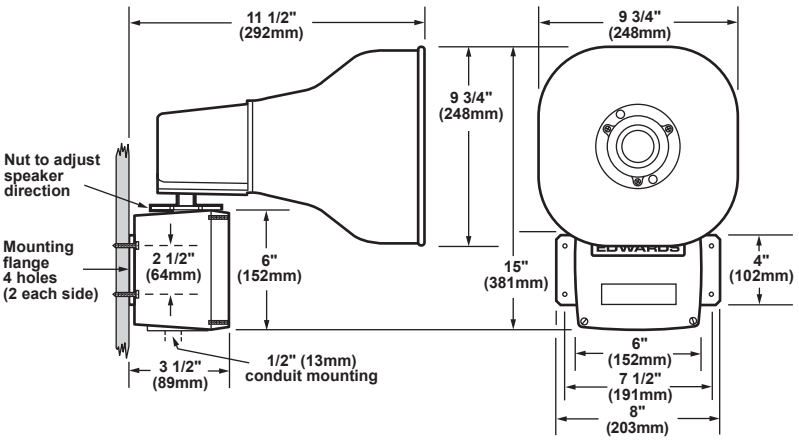
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5532M-AQ	10.60	13.20
5532M-N5	10.60	13.20
5532M-Y6	10.60	13.20
5532MHV-AQ	10.60	13.20
5532MHV-Y6	10.60	13.20

5532M Series



5532MHV Series



Electronic Audible Signals
System Speaker Amplifier
Millennium Class

Millennium Class System Speaker Amplifiers have been designed for high decibel system operation when connected to the 5540M Central Tone Generator or 5541M System Master Panel.

The 5532M-485Y6 and 5532MHV-485Y6 are designed to be connected to RS485 networks, allowing full signaling communication control.

The 5532MD-70AW is a diode polarized units designed for use in applications requiring electrical supervision of signaling circuit field wiring.

Features and Specifications

- Output up to 120dB @ 1m (110dB @ 10ft.) **(5532M and 5532MD)**
- Output up to 123dB @ 1m (113dB @ 10ft.) **(5532MHV)**
- Corrosion resistant electrostatic heat flowed epoxy finish
- Individual volume control
- Suitable for Division 2 Locations
- Captive Components
- RS485 model available
- Diode Polarized models **(5532MD)**
- 24V DC battery backup terminals
- NEMA Type 3R and IP44 rated
- UL listed for Class 1, Div. 2, Groups A, B,C and D; Class II, Div. 2, Groups F and G; and Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
High Decibel	**5532M-25Y6**	120-240V AC	0.10 A	0.32-0.20 A
		125-250V DC	0.10-0.02 A	0.21-0.10 A
	5532M-70Y6	120-240V AC	0.10 A	0.32-0.20 A
		125-250V DC	0.10-0.02 A	0.21-0.10 A
High Decibel, RS485	**5532M-485Y6**	120-240V AC	0.10 A	0.32-0.20 A
		125-250V DC	0.10-0.02 A	0.21-0.10 A
High Decibel, Diode Polarized	**5532MD-10AW[2]**	20-31V DC	0.10 A	0.63-1.0 A
	5532MD-70AW[2]	20-31V DC	0.10 A	0.63-1.0 A
High Decibel, RS485, 30 Watt	**5532MHV-485Y6**	120-240V AC	0.10 A	0.56-0.34 A
		125-250V DC	0.10 A	0.39-0.19 A

[1]AC voltage frequency is 50/60 Hz.
[2]Red finish.

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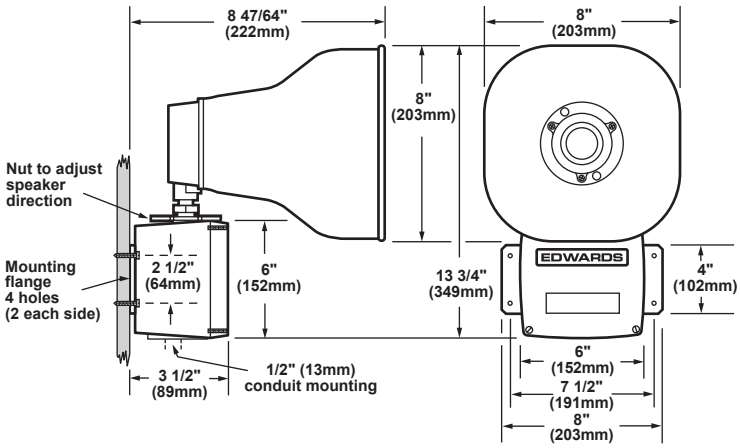
Electronic Audible Signals
System Speaker Amplifier
Millennium Class

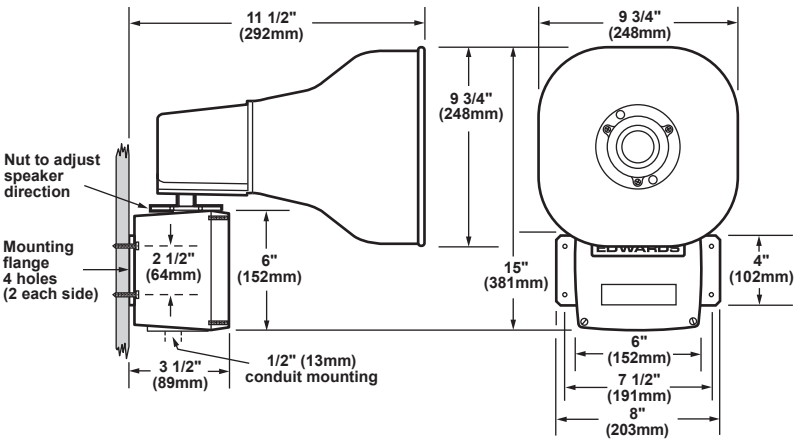
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5532M-25Y6	10.60	13.20
5532M-70Y6	10.60	13.20
5532M-485Y6	10.60	13.20
5532MD-10AW	10.60	13.20
5532MD-70AW	10.60	13.20
5532MHV-485Y6	10.60	13.20

5532M and 5532MD Series



5532MHV Series



Electronic Audible Signals
Tone Generator
Millennium Class

The 5540M Millennium Central Tone Generator provides simultaneous signaling of a high decibel, heavy duty signal. The tone generator assures a synchronous signaling sound from all remote speakers.

The 5540MV Millennium Central Tone Generator features pre-recorded voice messaging and can store 20 seconds of field recorded voice messages.

The 5540MP Millennium Central Tone Generator, when used with the 5542RPU Remote Paging Unit, provides voice paging and other audio output. The paging/voice signal is inputed into the Remote Paging Unit via either an audio pair or the 5542MIC series microphone.

Features and Specifications

- User Selectable 55 tone capability– No additional tone modules needed
- Captive Components
- Centralized programmable tone selection
- System-wide priority tone selection
- RS485 models available
- 24V DC battery backup terminals
- Short Circuit protected
- 20 sec. of field recorded Voice **(5540MV)**
- Built in Presignal tone option on first message location **(5540MV)**
- Voice paging **(5540MP)**
- NEMA Type 3R and IP44 rated
- UL listed for Class I, Div. 2, Groups A, B, C and D; Class II, Div.2, Groups F and G; and Class III hazardous locations

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Input Activation Voltage	Signal Off Operating Current (Amps)	Signal On Operating Current (Amps)
Four Outputs, Tone Only	**5540M-24AQ**	24V DC	24VDC	0.10 A	0.74 A
		24V AC	24V DC	0.10 A	1.3 A
	5540M-24N5	120V AC	24V DC	0.10 A	0.36 A
	5540M-120N5	120V AC	120V AC	0.10 A	0.38 A
Four Outputs, Tone Only	**5540M-24Y6**	120-240V AC	24V DC	0.10 A	0.32-0.20 A
		125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A
	5540M-120Y6	120-240V AC	120V AC	0.10 A	0.31-0.20 A
		125-250V DC	120V AC	0.10-0.02 A	0.20-0.10 A
Four Outputs, RS485 Connection, Tone Only	**5540M-485Y6**	120-240V AC	RS485	0.10 A	0.31-0.20 A
		125-250V DC	RS485	0.10-0.02 A	0.20-0.10 A
Four Outputs, Tone and Voice Messaging	**5540MV-24N5**	120V AC	24VDC	0.10 A	0.36 A
	5540MV-24Y6	120-240V AC	24V DC	0.10 A	0.32-0.20 A
		125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A
Four Outputs, RS485 Connection Tone and Voice Messaging	**5540MV-485Y6**	120-240V AC	RS485	0.10 A	0.32-0.20 A
		125-250V DC	RS485	0.10-0.02 A	0.21-0.10 A
Tone and Voice Paging	**5540MP-24Y6[2]**	120-240V AC	24V DC	0.10 A	0.32-0.20 A
		125-250V DC	24V DC	0.10-0.02 A	0.21-0.10 A

[1]AC voltage frequency is 50/60 Hz.
[2]Must be connected to 5542RPU to operate

AC AC/DC

3R IP44 ENCLOSURE HAZ-LOC

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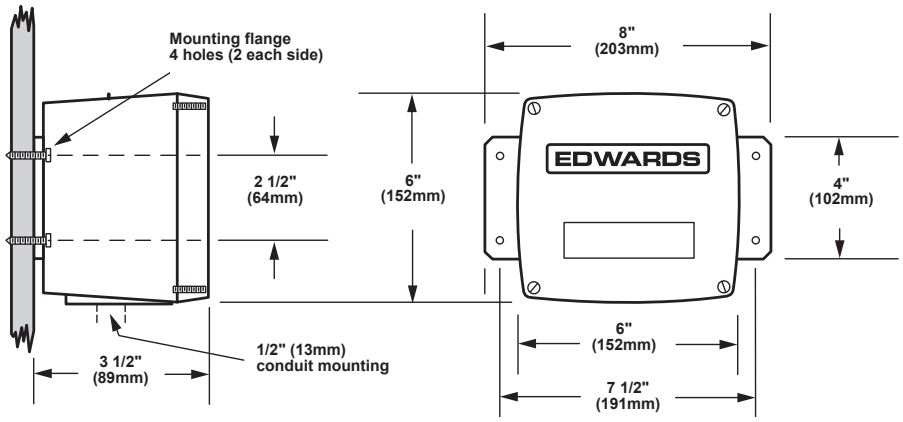
Electronic Audible Signals
Tone Generator
Millennium Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5540M-24AQ	8.00	8.40
5540M-24N5	8.00	8.40
5540M-120N5	8.00	8.40
5540M-24Y6	8.00	8.40
5540M-120Y6	8.00	8.40
5540M-485Y6	8.00	8.40
5540MV-24N5	8.00	8.40
5540MV-24Y6	8.00	8.40
5540MV-485Y6	8.00	8.40
5540MP-24Y6	8.00	8.40



Intercoms
Industrial
5570 Series

The Edwards 5570M intercom is a heavy-duty UL and cUL listed signal appliance designed for use in industrial and hazardous location applications.

The 5570M can be configured by means of a slide switch. The AC line has a 1/2 amp 250-volt type GMC fuse. Operating selections include balanced or unbalanced line operation and modes of Master or Satellite can be selected.

The unit features a transformer isolated audio input and a choice of one of four selectable alert tones. For indoor applications where ambient noise is high, a hand-held noise cancelling microphone kit is available.

Features and Specifications

- Suitable for use in indoor and outdoor hazardous locations
- Balanced or unbalanced line operation
- Master or satellite modes
- Four selectable alert tones
- Marine rated
- UL Class 1, Div. 2, Groups A, B, C and D
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current		Frequency Response (-6dB)	Input Impedance	Speaker Rating	Speaker Impedance
			Standby	Tone On				
Hazardous Location Intercoms	**5570M-AQ**	24V AC/DC	0.321/0.111 A	1.29/0.64 A	150 Hz to 12 KHz	15K Ohms	30 Watts	16 Ohms
	5570M-NR5	120V AC/240V AC	0.075/0.037 A	0.188/0.073 A	150 Hz to 12 KHz	15K Ohms	30 Watts	16 Ohms

[1]AC voltage frequency is 50/60 Hz

Accessories

Description	Cat. No.
Hand-held Noise Cancelling Microphone Kit	**5570MIC**
Microphone Outdoor Application Kit	**5542WPK**

AC AC/DC 150°F -31°F OP TEMP

UL c UL HAZ-LOC

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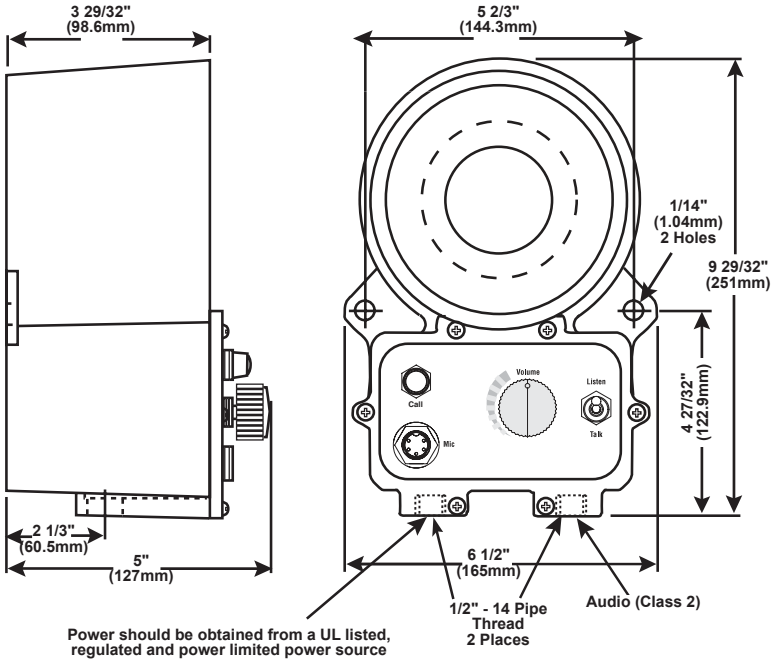
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5570M-AQ	12.13	12.50
5570M-NR5	12.13	12.50
5570MIC	1.00	1.25
5542WPK	0.42	0.70



Speakers
Notification Appliances
Millennium Class

The Edwards 5553 Series Speakers are UL Listed, Class 1, Div. 2 hazardous location audible signaling appliances for use in conjunction with compatible control equipment. They produce audible emergency and protective signals as well as voice messages. They accept system audio input levels of 25 or 70 volts RMS.

The Edwards 5553 Series comply with the requirements of UL Standard 1480, Fire Protective Signaling Speakers. The speakers are suitable for outdoor use with a UL1480 wet locations rated enclosure. They include a supervisory capacitor and are suitable for installation in systems employing supervised circuitry.

Speaker direction is adjustable and the output wattage is adjustable via an internal rotary switch.

Features and Specifications

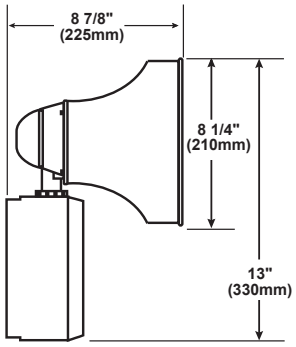
- Suitable for use in outdoor and hazardous locations
- Speaker swivels
- Adjustable up to 15 watts maximum
- 113 dB at 1 meter/103 dB at 10 ft.
- Frequency range 400Hz to 4000Hz
- UL listed for Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III, Div. 1 and 2
- Operating temperature range: -40ºF to 104ºF (-40ºC to 40ºC)

Ordering Information

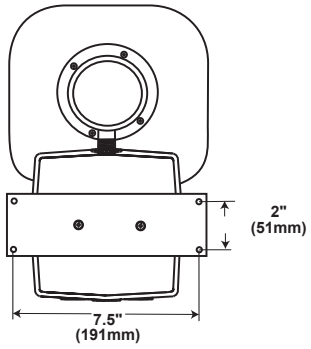
Description	Cat. No.	dB at 1m/10ft.	Color
Hazardous Location Speakers	**5553-25/70-G**	113/103	Gray
	5553-25/70-R	113/103	Red

Weights and Dimensions

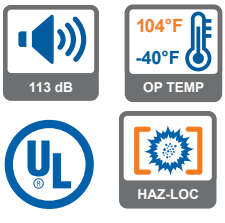
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5553-25/70-G	4.20	9.00
5553-25/70-R	4.20	9.00



Side



Back



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional Fire Alarms : Explosionproof
Heat Detectors, Rate Compensation
302 Series

Box mount

Edwards Series 302 heat detectors are suitable for use in indoor environments and explosive atmospheres. They are normally-open devices designed to close an electrical circuit upon activation. All models feature rate compensation and are available with either 135°F (57.2°C) or 194°F (90°C) ratings. These self-restoring, hermetically sealed detectors are shock-, corrosion- and tamper-resistant.

Features and Specifications

- Rate compensation offsets thermal lag
- Self-restoring – no manual reset required
- Explosionproof, Class 1, Groups C and D; Class 2, Groups E, F and G
- Box mount

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Temperature		
				UL Rated	Minimum Ambient	Maximum Ceiling
Indoor Explosionproof Box Mounting[1]	**302-EPM-135**	6-125V AC	5 A	135°F (57.2°C)	-40°	100°F (37.8°C)
		6-25V DC	1 A			
		125V DC	0.5 A			
	302-EPM-194	6-125V AC	5 A	194°F (90°C)	-40°	150°F (65.6°C)
		6-25V DC	1 A			
		125V DC	0.5 A			

[1]Requires JALX-11 or equivalent

Accessories

Description	Cat. No.
Decorative white plastic adaptor plate	**AP-P**
Explosionproof outlet body with cover	**JALX11**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions			
		Height (in.)	Overall Length (in.)	Base Diameter (in.)	Diameter (in.)
302-EPM-135	0.30	—	4.25	1.0	—
302-EPM-194	0.30	—	4.25	1.0	—
AP-P	0.10	—	—	—	4.5
JALX11	3.50	3.0	—	—	4.5 x 4.5

AC/DC

UL FM APPROVED MEA EX-PROOF HAZ-LOC

Conventional Fire Alarms: Explosionproof
Harsh Environment Pull Stations
MPSR Series

The Edwards MPSR1-D45WX-GE is an explosion-proof manual pull station constructed of die-cast material. All components are pre-painted or have plated surfaces to inhibit corrosion, and are suitable for outdoor use.

The pull station is rated for Class I, Group B (hydrogen), C and D; Class II, Groups E, F and G; and Class III environments.

The pull station is single action with a key reset and a set of double-pole (double throw) alarm contacts rated for 10 amps. The pull station can be converted to double action with the addition of the MPSR-LP double action cover.

Features and Specifications

- Solid corrosion-resistant construction
- Surface mount backbox and gasket, suitable for outdoor use, included
- Positive activation
- Terminals for wire connections
- NEMA 4X enclosure
- Operating temperature range: -30°F to 150°F (-35°C to 66°C)
- Single-action convertible to double-action operation
- Key lock reset
- Double pole contacts
- Class I, Group B, C and D,; Class II, Groups E, F and G; Class III

Ordering Information

Description	Cat. No.	Contact Rating		Switch Contacts	Reset	Field Connections	Wire Size
		Amps	Voltage				
Explosionproof Manual Station	**MPSR1-D45WX-GE**	10 A	120V AC	DPDT	Key Lock	Terminals	14 to 18 AWG
Double-action Cover	**MPSR-LP**	10 A	120V AC	—	—	—	—

Accessories

Description	Cat. No.
Replacement glass rods for MPSR stations (10 pack).	**MPSRGR10**
Cat 45 Key (each)	**276-K1**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Depth (in.)
MPSR1-D45WX-GE	2.75	3.06	4.75	3.0
MPSR-LP	0.77	—	—	—
MPSRGR10	0.25	—	—	—
276-K1	0.10	—	—	—

AC
150°F -30°F OP TEMP
FM APPROVED
EX-PROOF*
HAZ-LOC

*See ordering information for catalog numbers

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Conventional Fire Alarms
Hazardous Location Smoke Detector
V9006 Series

The V9006-0001-013 Hazardous Location Smoke Detector is suitable for use in hazardous industrial and commercial locations.

It uses a solid state infrared emitting diode (IRED) and a light sensing photovoltaic cell arranged in a labyrinth assembly. A recessed photodiode provides voltage for amplification to “alarm signal” level. The main enclosure of the detector contains the electronics, alarm relay, supervision relay and facilities for connection to system wiring.

Each detector contains one set of Form A (SPST) N/O contacts for connection to the alarm initiating circuit and a set of (SPST) N/C power supervision contacts.

The detector locks in on alarm and has a lock-in alarm indicator (LED) on the outer surface of the housing. Detector reset is achieved by momentary interruption of power.

Features and Specifications

- Labyrinth assembly
- Self-checking components
- Infrared (IRED) light emitting diode as light source
- CSA certified for use in Class I, Div. 2, Groups A, B, C and D locations
- Residual ripple less than 2% of DC input
- Operating temperature range: -4ºF to 140ºF (-20°C to 60°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current		Max Air Velocity	Contact Rating
			Standy	Alarm		
Hazardous Location Smoke Detector	**V9006-0001-013**	20V - 28V DC	0.010 A	0.035 A	3960 fpm	2 A @ 30V DC 0.5 A @ 125V AC

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in)	Depth (in)
V9006-0001-013	6.75	5 5/16	3 1/2

Outdoor Warning Systems
Control Valves
KB Series

Solenoid and combination solenoid/manual control valves are designed for use with Edwards Airchime air horns.

Features and Specifications

Solenoid Valves
- Local or remote operation
- Class 1, Div, 1, Groups C and D; Class II, Div. 1, Groups E, F and G approvals

Combination Valves
- Manual and solenoid control
- Class 1, Div, 1, Groups C and D; Class II, Div. 1, Groups E, F and G approvals
- Provides for operation in the event of a power failure

Ordering Information

Description	Cat. No.	Operating Voltage	Pipe Thread (in.)
Solenoid Valve	**10746-N5**	120V AC	3/8
	10748-N5	120V AC	1/2
	10750-N5	120V AC	3/4
	10754-N5	120V AC	1 1/4
	10746-G1	24V DC	3/8
	10748-G1	24V DC	1/2
	10750-G1	24V DC	3/4
	10754-G1	24V DC	1 1/4
Solenoid/Manual Valve	**10775-N5**	120V AC	3/8
	10776-N5	120V AC	1/2
	10777-N5	120V AC	3/4
	10778-N5	120V AC	1 1/4
	10775-G1	24V DC	3/8
	10776-G1	24V DC	1/2
	10777-G1	24V DC	3/4
	10778-G1	24V DC	1 1/4

AC DC HAZ-LOC

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Outdoor Warning Systems
Control Valves
KB Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
10746-N5	2.1
10748-N5	2.1
10750-N5	2.1
10754-N5	2.1
10746-G1	2.1
10748-G1	2.1
10750-G1	2.1
10754-G1	2.1
10775-N5	2.1
10776-N5	2.1
10777-N5	2.1
10778-N5	2.1
10775-G1	2.1
10776-G1	2.1
10777-G1	2.1
10778-G1	2.1

EDWARDS

Minutes Matter

"I rest easier knowing that Edwards devices are installed throughout the Assisted Living Center that I manage.

Those pull cords and call for assistance stations can become a lifeline for our residents in urgent need of help after a fall or other unexpected emergency.

When every minute matters, I choose Edwards."

Product Index

Edwards' call for assistance devices come as simple as a wall switch with a pull string, to the call notification of a horn/strobe outside a public restroom. Edwards provides emergency communication products that offer security and peace of mind.

Call for Assistance

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Call for Assistance
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Call for Assistance Kits
CFA Series

The Edwards 6538-G5 24 volt Call For Assistance Kit is designed for areas where a call-for-help or an emergency switch is required. The kit consists of a 6536-G5 horn/strobe for audible and visual notification, a 6537 emergency pull cord station, and a 592 transformer. Each component may also be ordered individually.

6536-G5 Horn/Strobe

The 6536-G5 Horn/Strobe is designed for use in a single gang 2" (51mm) x 4" (102mm) box typically located over the door. Each unit contains an audible horn signal which generates an 82 dBA sound pressure level at 10 ft. and a 50 cd strobe. See page 6-12.

592 Transformer

The Edwards 592 transformer is used to power the horn/strobe. It is equipped with a grounding wire and is suitable for installation in both plastic and metal boxes. See section 7, page 7-25.

6537 Pull Cord Switch

The 6537 pull cord station provides emergency call activation and reset. It has a stainless steel face plate with a DPST switch. See page 6-14.

Features and Specifications

- Kit includes 6536-G5 Horn/Strobe, 592 Transformer and 6537 Pull Cord Switch
- Double pole single throw switch
- Neutral white color
- Fits single gang box
- UL 1638 listed - Horn/Strobe

Ordering Information

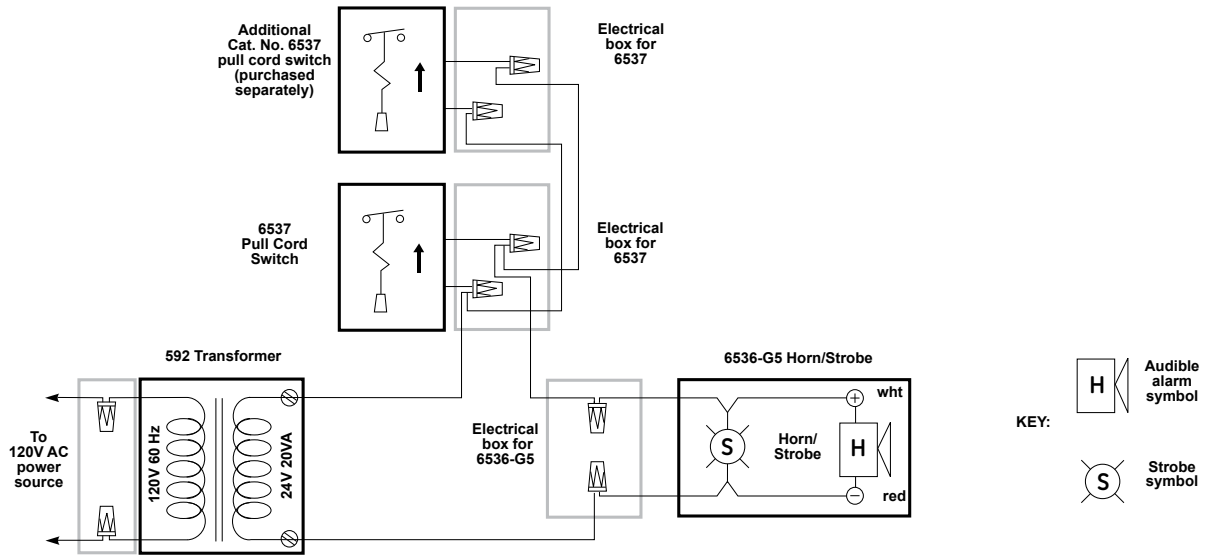
Description	Cat. No.	Transformer Primary	Transformer Secondary	Horn/Strobe Current	Lens Color	dBA at 1m/10ft.	Strobe Candela
Call for Assistance Kit	**6538-G5**	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Clear	92/82	50
	6538A-G5	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Amber	92/82	40
	6538B-G5	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Blue	92/82	17
	6538G-G5	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Green	92/82	29
	6538R-G5	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Red	92/82	25

[1]AC voltage frequency is 50/60 Hz

Call for Assistance Kits
CFA Series

Technical Information

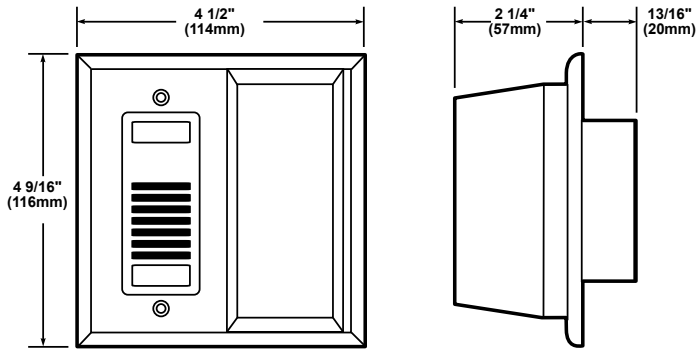
Connecting 6538-G5 Call for Assistance Kit



Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx.Shipping Weight (lb.)
6538-G5	1.53	1.81
6538A-G5	1.53	1.81
6538B-G5	1.53	1.81
6538G-G5	1.53	1.81
6538R-G5	1.53	1.81

6536-G5



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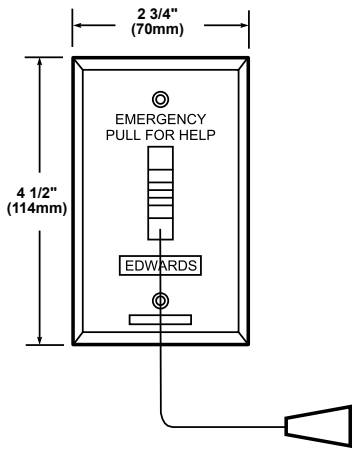

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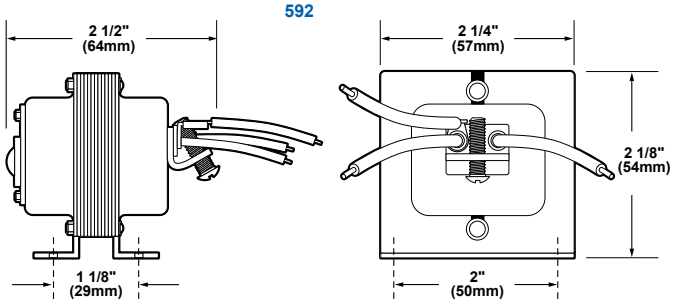


Call for Assistance Kits
CFA Series

The Edwards 7008B-N5 120 volt Call For Assistance Kit is designed for areas where a call-for-help device is required. The kit consists of a 7007B-N5 buzzer/strobe for audible and visual notification and a 6537 emergency pull cord station for activation. Each component may also be ordered individually.

7007B-N5 Buzzer/Strobe

The 7007B-N5 buzzer/strobe is designed for installation in a single gang 2" (51mm) x 4" (102mm) box located over doors. Each unit contains an audible signal which generates an 82 dBA sound pressure level at 10 ft. and a 150 cd strobe. The unit draws 115 mA.

6537 Pull Cord Switch

The 6537 pull cord switch provides emergency call activation and reset. It has a stainless steel face plate with a DPST switch.

Features and Specifications

- Kit includes 7007B-N5 Buzzer/Strobe and 6537 Pull Cord Switch
- Double pole single throw switch
- Neutral white color
- Fits single gang box
- 92dB buzzer at 1 meter/82dB at 10ft.

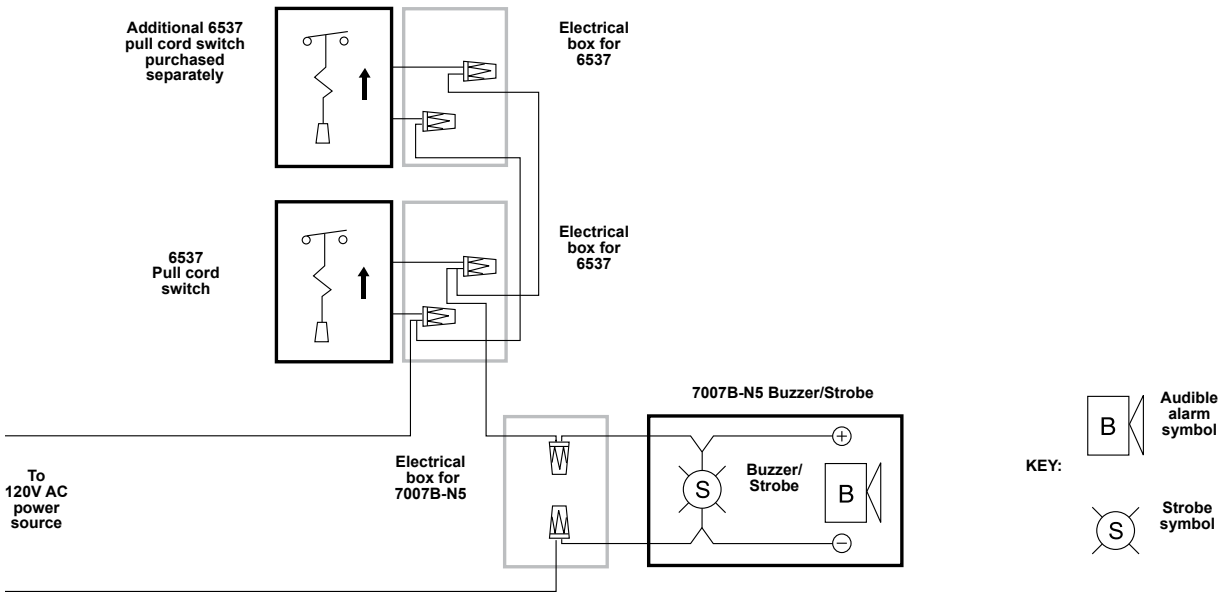
Ordering Information

Description	Cat. No.	Operating Voltage	Buzzer/Strobe Current	dBA at 1m/10ft.	Lens Color	Strobe Candela
Call for Assistance Kit	**7008B-N5**	120V AC	0.115 A	92/82	Clear	150
	7008BA-N5	120V AC	0.115 A	92/82	Amber	120
	7008BB-N5	120V AC	0.115 A	92/82	Blue	51
	7008BG-N5	120V AC	0.115 A	92/82	Green	86
	7008BR-N5	120V AC	0.115 A	92/82	Red	74

Call for Assistance Kits
CFA Series

Technical Information

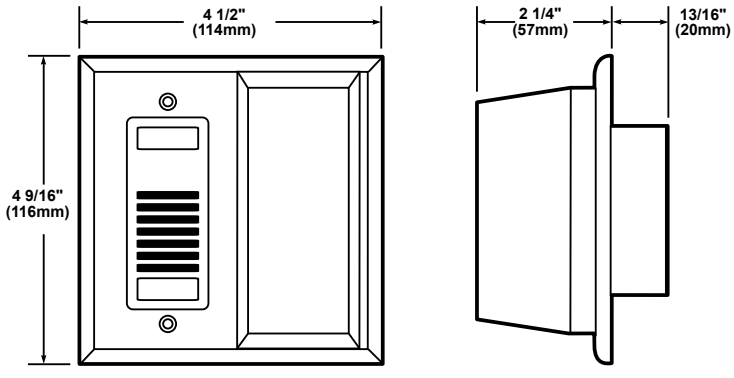
Connecting 7008B-N5 Call for Assistance Kit



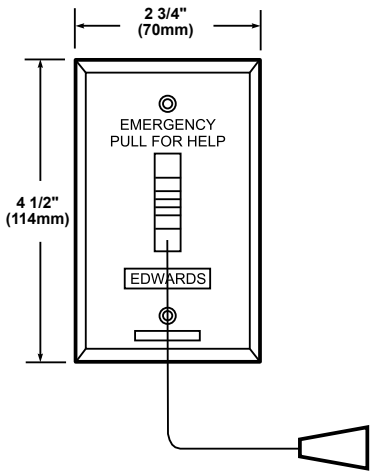
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
7008B-N5	0.50	0.90
7008BA-N5	0.50	0.90
7008BB-N5	0.50	0.90
7008BG-N5	0.50	0.90
7008BR-N5	0.50	0.90

7007B-N5



6537



Hotel Room Annunciator
CFA Series

The Edwards 7005-G5 24 volt Hotel Room Annunciator is for use in hotel rooms and other areas designed to assist those with audible, visual, or physical impairments. The kit consists of a 6536-G5 horn/strobe for audible and visual signaling, a 620 push button, a 147-10 mounting plate, and a 592 transformer. Each component may also be ordered individually.

6536-G5 Horn/Strobe

The 6536-G5 Horn/Strobe is designed for use in a single gang 2" (51mm) x 4" (102mm) box located over the door. Each unit contains an audible horn signal which generates an 82 dBA sound pressure level at 10 ft. and a 50 cd strobe.

592 Transformer

The Edwards 592 transformer is used to power the horn/strobe. It is equipped with a grounding wire and is suitable for installation in both plastic and metal boxes.

620 Push Button

The 620 push button station provides call activation when installed in the 147-10 mounting plate (page 6-10). The plate has a stainless steel face. The switch is momentary.

Features and Specifications

- Kit includes 6536-G5 Horn/Strobe, 592 Transformer and 620 Push Button
- Neutral white color
- Fits single gang box
- 92dB buzzer at 1 meter/82dB at 10ft.
- UL 1638 listed - Horn/Strobe

Ordering Information

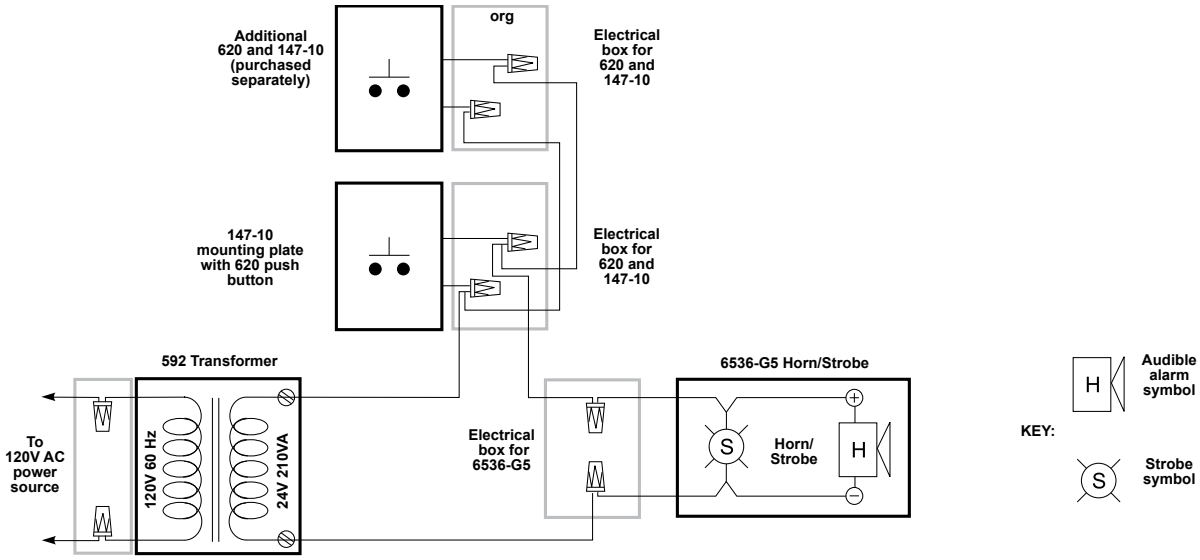
Description	Cat. No.	Transformer Primary	Transformer Secondary	Horn/Strobe Current	Lens Color	dBA at 1m/10ft.	Strobe Candela
Call for Assistance Kit	**7005-G5**	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Clear	92/82	50
	7005A-G5	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Amber	92/82	40
	7005B-G5	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Blue	92/82	17
	7005G-G5	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Green	92/82	29
	7005R-G5	120V AC	24V AC	0.175 A @ 24V AC[1] 0.125 A @ 24V DC	Red	92/82	25

[1]AC voltage frequency is 50/60 Hz

Hotel Room Annunciator
CFA Series

Technical Information

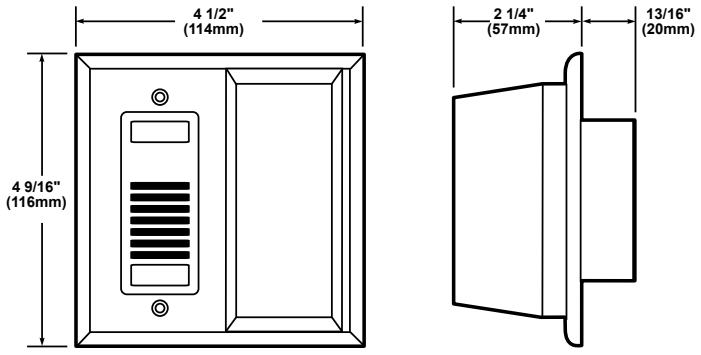
Connecting 7005-G5 Hotel Room Annunciator



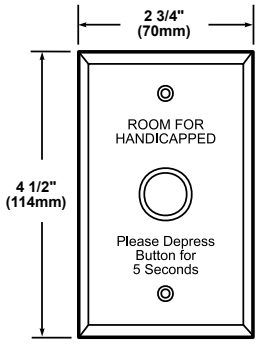
Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
7005-G5	1.46	1.66
7005A-G5	1.46	1.66
7005B-G5	1.46	1.66
7005G-G5	1.46	1.66
7005R-G5	1.46	1.66

6536-G5



147-10 with 620 Pushbutton



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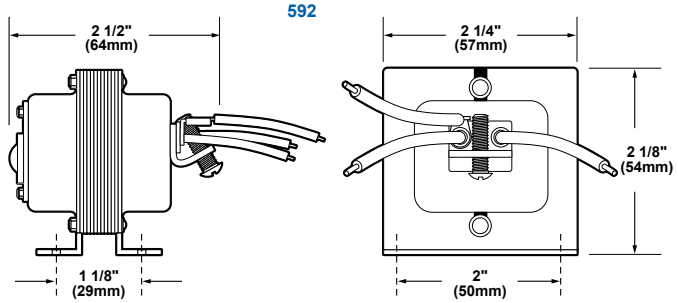


CALL FOR ASSISTANCE 6

Push Buttons
Push Button Plate
147 Series

The Edwards 147-10 Push Button Plate is a stainless steel faceplate, and is used with the catalog series 620 Push Buttons (purchased separately) to form a convenient station that provides a means of activating a hotel room annunciator for the hearing impaired.

Designed for single gang mounting.

Features and Specifications

- Used as a switch plate outside hotel rooms accessible to the hearing impaired
- Stainless steel faceplate
- Suitable for use with 620 Series push button
- Supplied as part of the 7005-G5 Hotel Room Annunciator

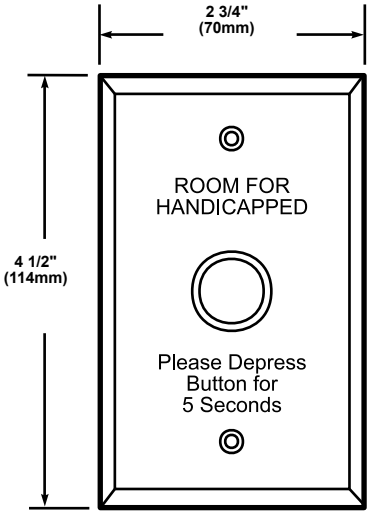
NOTE: Shown with 620 push button, not included.

Ordering Information

Description	Cat. No.	For Use With
Single Gang Push Button Plate	**147-10**	7005-G5 Hotel Room Annunciator Kit

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
147-10	0.12	0.15



Push Buttons
Push Button Plate
147 Series

The Edwards 147-1 Push Button Switch Plate is used for mounting 620 and 690 series 5/8" (16mm) push button switches (purchased separately) on a standard single gang box.

The Edwards 149-1 Push Button Switch Plate is used for mounting 821, 850, and 854 series 7/8" (22mm) push button switches (purchased separately) on a standard single gang box.

Features and Specifications

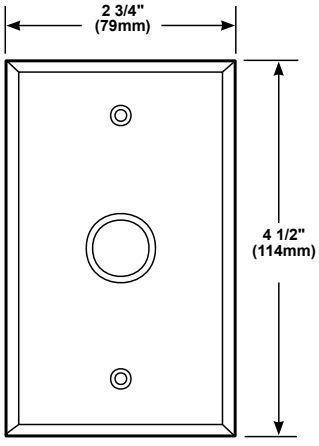
- Standard switch box mounting
- Stainless steel faceplate

Ordering Information

Description	Cat. No.	For Use With
Mounting Plate for 5/8" Push Buttons	**147-1**	620 and 690 Series
Mounting Plate for 7/8" Push Buttons	**149-1**	821, 850 and 854 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
147-1	0.12	0.15
149-1	0.12	0.15



Horn/Strobe
CFA Series

The Edwards 6536-G5 Horn/Strobe is an audible/visual signaling device that may be used in a variety of system configurations including call for assistance applications.

Designed for installation in a single gang 2" (51mm) x 4" (102mm) box.

Features and Specifications

- Neutral white color
- 92dB at 1 meter/82dB at 10 ft.
- UL 1638 listed

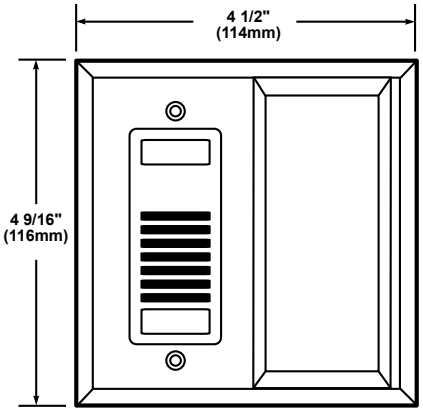
Ordering Information

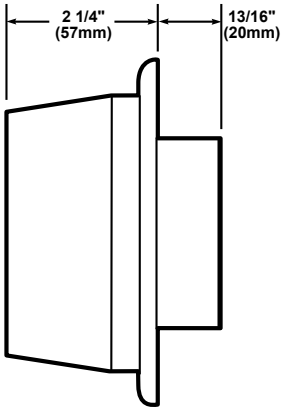
Description	Cat. No.	Operating Voltage	Current	Lens Color	dB at 1m/10ft.	Strobe Candela
Horn/Strobe	**6536-G5**	24V AC	0.175 A @ 24V AC[1]	Clear	92/82	50
		24V DC	0.125 A @ 24V DC			
	6536A-G5	24V AC	0.175 A @ 24V AC[1]	Amber	92/82	40
		24V DC	0.125 A @ 24V DC			
	6536B-G5	24V AC	0.175 A @ 24V AC[1]	Blue	92/82	17
		24V DC	0.125 A @ 24V DC			
	6536G-G5	24V AC	0.175 A @ 24V AC[1]	Green	92/82	29
		24V DC	0.125 A @ 24V DC			
	6536R-G5	24V AC	0.175 A @ 24V AC[1]	Red	92/82	25
		24V DC	0.125 A @ 24V DC			

[1]AC voltage frequency is 50/60 Hz

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
6536-G5	0.46	0.65
6536A-G5	0.46	0.65
6536B-G5	0.46	0.65
6536G-G5	0.46	0.65
6536R-G5	0.46	0.65





Buzzer/Strobe
CFA Series

The Edwards 7007B-N5 Buzzer/Strobe is an audible/visual signaling device that may be used in a variety of system configurations including call for assistance applications.

Designed for installation in a single gang 2" (51mm) x 4" (102mm) box.

Features and Specifications

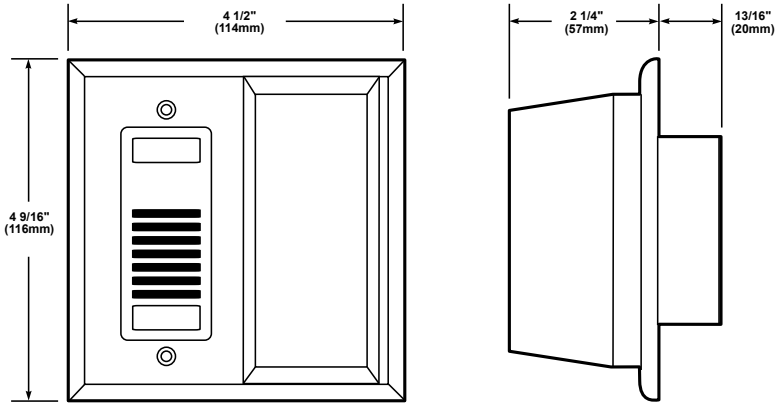
- Neutral white color
- 92dB at 1 meter/82dB at 10 ft.

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Color	dB at 1m/10ft.	Strobe Candela
Buzzer/Strobe	**7007B-N5**	120V AC	0.115 A	Clear	92/82	150
	7007BA-N5	120V AC	0.115 A	Amber	92/82	120
	7007BB-N5	120V AC	0.115 A	Blue	92/82	51
	7007BG-N5	120V AC	0.115 A	Green	92/82	86
	7007BR-N5	120V AC	0.115 A	Red	92/82	74

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
7007B-N5	0.41	0.59
7007BA-N5	0.41	0.59
7007BB-N5	0.41	0.59
7007BG-N5	0.41	0.59
7007BR-N5	0.41	0.59



Pull Cord Switches
CFA Series

The Edwards 6537 pull cord switch provides emergency call activation. The call may be reset at the initiating switch. Cords are replaceable with a standard nylon cord.

Designed for either flush or surface mounting. Unit fits in a standard single-gang electrical box and plaster cover. For surface mounting, use a Wire-mold surface box. All boxes must have a minimum depth of 1 3/4" (44mm). Boxes and covers not supplied.

Features and Specifications

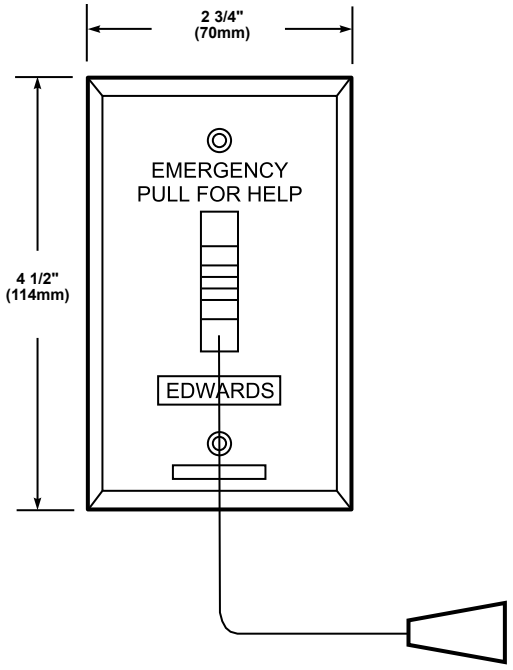
- Double pole single throw switch
- Stainless steel faceplate
- 10 foot cord length
- Replacement cords user supplied

Ordering Information

Description	Cat. No.	Operating Voltage	Current
Pull Cord Switch	**6537**	125V AC	3 A
		125V DC	0.5 A

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
6537	0.18	0.29



AC/DC

Pull Cord Switches
CFA Series

The Edwards Pull Cord Switch provides emergency call activation. Calls are placed by pulling one of the attached 6 foot (1.83m) cords. Cords are replaceable with a standard nylon cord.

Designed for either flush or surface mounting. Unit fits in a standard single-gang electrical box and plaster cover. For surface mounting, use a Wiremold surface box. All boxes must have a minimum depth of 1 3/4" (44mm). Boxes and covers not supplied.

Features and Specifications

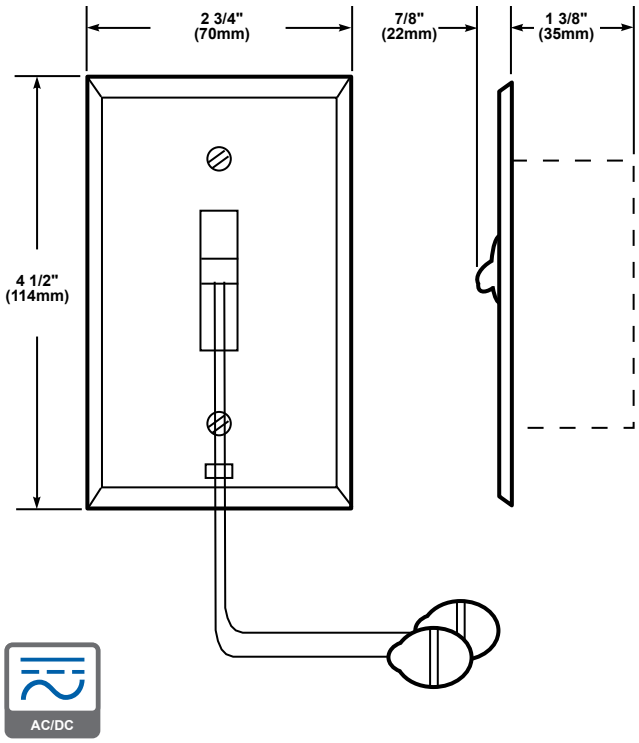
- 3 maintained contacts
- Stainless steel faceplate
- "Emergency" engraved units available
- Flush or surface mount

Ordering Information

Description	Cat. No.	Operating Voltage	Current
Pull Cord Switch, Blank	**7302A**	125V AC	3 A
		125V DC	0.5 A
Pull Cord Switch, Engraved "Emergency"	**7302AE**	125V AC	3 A
		125V DC	0.5 A

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
7302A	0.20	0.39
7302AE	0.20	0.39



Wall Stations
CFA Series

The Edwards 7603 Wall Station provides convenient call activation. Calls are placed by simply pushing the locking-type push button on the front of the station. The 7603 has one button. Models available with faceplate engraved "Emergency."

Designed for either flush or surface mounting. Unit fits in a standard single-gang electrical box and plaster cover. For surface mounting, use a Wire-mold surface box. All boxes must have a minimum depth of 2 1/4" (57mm). Boxes and covers not supplied.

Features and Specifications

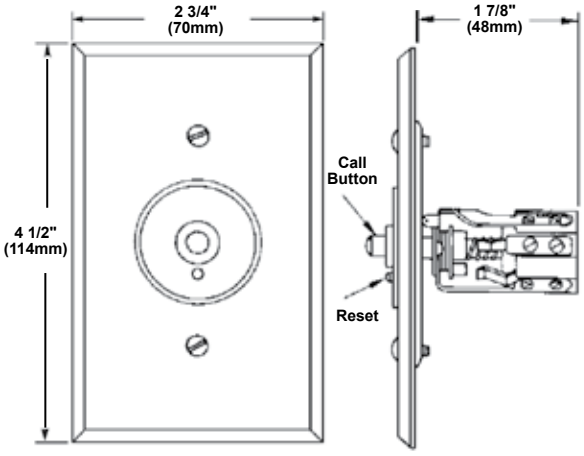
- Three maintained contacts, one momentary contact
- Stainless steel faceplate
- Heavy duty push button
- "Emergency" engraved units available

Ordering Information

Description	Cat. No.	Operating Voltage	Depth in Wall Box
Wall Station	**7603B**	24V AC/DC	1 7/8" (48mm)
Wall Station, Faceplate Engraved "Emergency"	**7603E**	24V AC/DC	1 7/8" (48mm)

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
7603B	0.32	0.36
7603E	0.32	0.36



AC/DC

Wall Stations
CFA Series

The Edwards 7613 Wall Station provides convenient call activation. Calls are placed by simply pushing the locking-type push button on the front of the station. The 7613 has one button and one white "call placed" lamp. When a call is made, the lamp on the front of the unit illuminates, indicating that the call has been properly placed. Models available with faceplate engraved "Emergency."

Designed for either flush or surface mounting. Unit fits in a standard single-gang electrical box and plaster cover. For surface mounting, use a Wire-mold surface box. All boxes must have a minimum depth of 2 1/4" (57mm). Boxes and covers not supplied.

Features and Specifications

- Two maintained contacts, one momentary contact
- Stainless steel faceplate
- Heavy duty push button
- "Emergency" engraved units available
- White "call placed" lamp

Ordering Information

Description	Cat. No.	Operating Voltage	Depth in Wall Box	Replacement Lamp
Wall Station	**7613**	24V AC/DC	1 7/8" (48mm)	Industry Trade No. 509K[1]
Wall Station, Faceplate Engraved "Emergency"	**7613E**	24V AC/DC	1 7/8" (48mm)	Industry Trade No. 509K[1]

[1]User supplied

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
			Height (in.)	Width (in.)	Depth (in.)
7613	0.44	0.48	4 1/2	2 3/4	1 7/8
7613E	0.44	0.48	4 1/2	2 3/4	1 7/8

AC/DC

Dome Stations
CFA Series

The Edwards 7633 Series Dome Stations are used to visually and audibly indicate the placement of calls from a connected pull station. Stations are available with 2 or 4 lamps; the domes are designed with barriers between the lamps to prevent visual interference of signals.

The 7633 mounts in a standard double gang box with a plaster cover and a minimum depth of 1 3/4" (44mm). Boxes and plaster covers not supplied.

Features and Specifications

- Available with 2 or 4 lamps
- Internal buzzer
- Stainless steel faceplate
- White dome

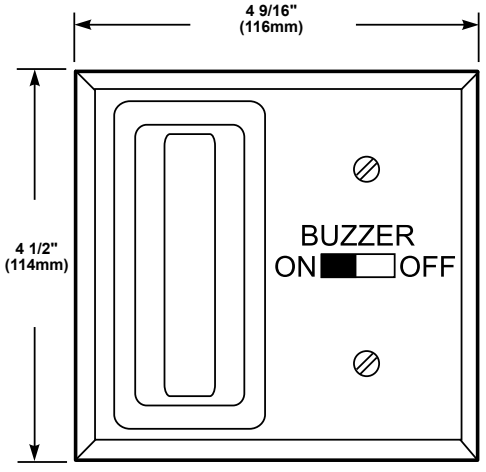
Ordering Information

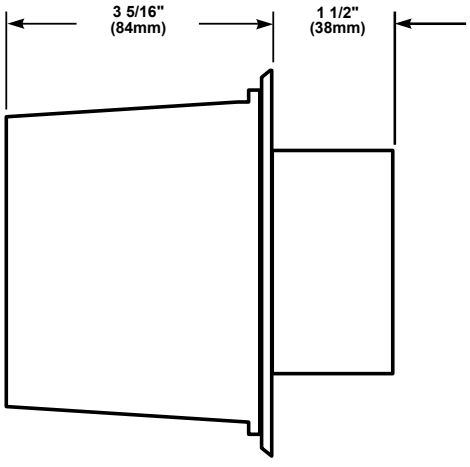
Description	Cat. No.	Operating Voltage	VA Per Lamp	Lamps	Replacement		
					Dome	Lamp - Clear/Red	Buzzer
2 Lamp Station	**7633-2**	24V AC	4.0	1 clear, 1 red	P-047047-0006	Industry Trade No. 509K[1] / P-036350-0001 (24V)	115-1G5
4 Lamp Station	**7633-4**	24V AC	5.0	2 clear, 2 red	P-047047-0006	Industry Trade No. 313[1] / P-036350-0001 (24V)	115-1G5

[1]User supplied

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
7633-2	0.69	0.89
7633-4	0.75	0.95





AC

Dome Stations
CFA Series

The Edwards 7641 and 7641R Series Dome Stations are used to visually indicate the placement of calls from a connected pull station. Stations are available with 1, 2 or 4 lamps; the domes, available in white or red, are designed with barriers between the lamps to prevent visual interference of signals.

The 7641 and 7641R mount in a standard single or double gang box with a plaster cover and a minimum depth of 1 1/2" (38mm). Boxes and plaster covers not supplied.

Features and Specifications

- Available with 1, 2 or 4 lamps
- Stainless steel faceplate
- White or red dome

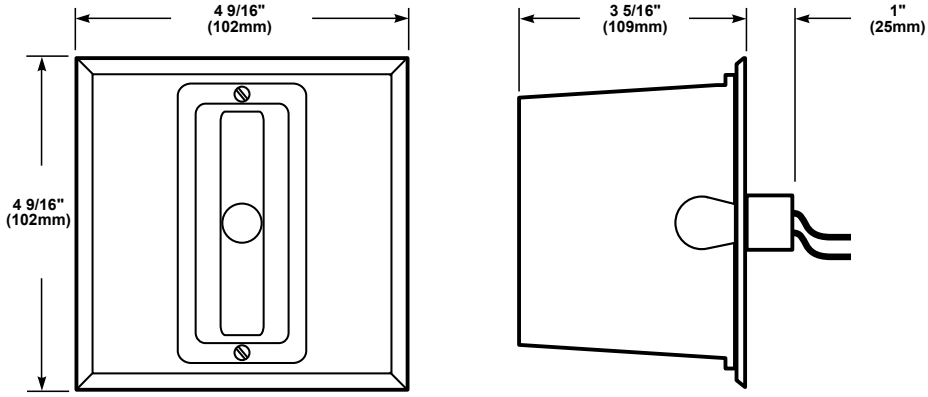
Ordering Information

Description	Cat. No.	Operating Voltage	VA Per Lamp	Dome Color	Replacement	
					Dome	Lamp - Clear/Red
1 Lamp Station white lamp	**7641-1G5**	24V AC	5.0	White	P-047047-0006	Industry Trade No. 313[1] / –
	7641-1N5	120V AC	6.0	White	P-047047-0006	Industry Trade No. 6S6[1] / –
2 Lamp Station 1 white, 1 red	**7641-2G5**	24V AC	5.0	White	P-047047-0006	Industry Trade No. 313[1] / P-036350-0001 (24V)
	7641-2N5	120V AC	6.0	White	P-047047-0006	Industry Trade No. 6S6[1] / P-008636-0001 (120V)
4 Lamp Station 2 white, 2 red	**7641-4G5**	24V AC	5.0	White	P-047047-0006	Industry Trade No. 313[1] / P-036350-0001 (24V)
1 Lamp Station white lamp	**7641R-1G5**	24V AC	5.0	Red	P-047047-0008	Industry Trade No. 313[1] / –
	7641R-1N5	120V AC	6.0	Red	P-047047-0008	Industry Trade No. 6S6[1] / –

[1]User supplied

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
7641-1G5	0.35	0.56
7641-1N5	0.35	0.56
7641-2G5	0.35	0.56
7641-2N5	0.35	0.56
7641-4G5	0.35	0.56
7641R-1G5	0.35	0.56
7641R-1N5	0.35	0.56



AC

EDWARDS

Hear to Stay

"I just read somewhere that Edwards was the first company to introduce an electric door bell in 1896. And they also patented the first electric bell in 1904.

It's no surprise that Edwards has been in business for 140 years. They make superior quality products that people really trust to do the job.

Reliable, dependable people and products that I trust . . . for me, that's Edwards."

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Section Updated 09 / 2013

Product Index

Edwards offers door chimes, chime kits and push buttons that offer simplicity, affordability, and functionality. Edwards' line of low voltage and heavy duty transformers complete the package.

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Transformers 7-25

Chimes, Push Buttons and Transformers
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Chimes
Two Entrance Chime Kit
C200 Series

Edwards Chime Kits consist of an Edwards two entrance chime, a 16V transformer, and two push buttons (option of either illuminated or non-illuminated).

Features and Specifications

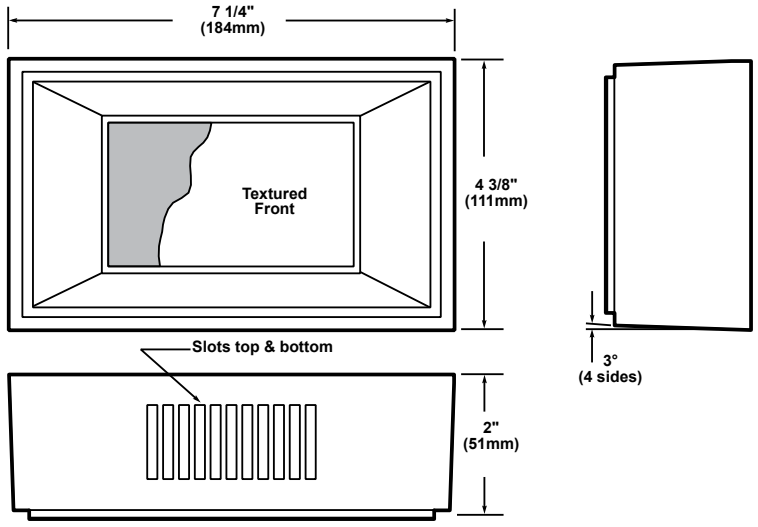
- Complete installation kit
- Two entrance models
- Illuminated push buttons available
- Available in white or beige
- 75dB at 1m / 65dB at 10 ft.

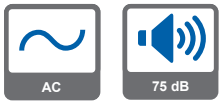
Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	Color	Transformer	Push Buttons
Chime Kit	**C212**	16V AC	0.625 A	10	Beige	16V	2 - non-illuminated
	C212-W	16V AC	0.625 A	10	White	16V	2 - non-illuminated
	C212-2L	16V AC	0.625 A	10	Beige	16V	2 - illuminated
	C212W-2L	16V AC	0.625 A	10	White	16V	2 - illuminated

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
C212	1.76	1.86
C212-W	1.76	1.86
C212-2L	1.76	1.86
C212W-2L	1.76	1.86





Chimes
Two Entrance Chime
C200 Series

The Edwards C200 Series surface mount chimes are specifically designed for low cost installation. They operate from a 16V transformer (purchased separately).

Features and Specifications

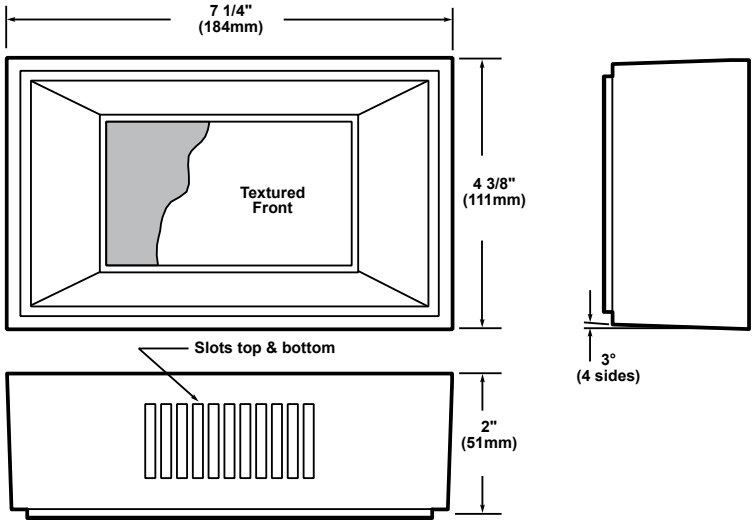
- Two entrance models
- Free suspension aluminum tone bars
- Requires no lubrication
- Easy to install
- Available in white or beige

Ordering Information

Description	Cat. No.	Operating Voltage	Current	VA	Color	Recommended Transformer
Two Entrance Chime	**C210**	16V AC	0.625 A	10	Beige	591
	C210-W	16V AC	0.625 A	10	White	591

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
C210	0.94	1.02
C210-W	0.94	1.02



AC

Chimes
Single Stroke
338 and 339 Series

The Edwards 338 and 339 are surface mount AC or DC single stroke chimes which can be pulsed up to 10 pulses/second. The chimes are high quality units with underdome construction intended for heavy-duty commercial and industrial use. The chimes require no lubrication, and come complete with an Adataplate® mounting plate.

Features and Specifications

- No exposed terminals
- Tamper-proof cover screw
- Plastic tipped stainless steel striker
- Satin aluminum finish
- 91dB at 1m / 81dB at 10 ft.

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	VA
Single Stroke Chime	**338-G5**	24V AC	0.5 A	12
	338-N5	120V AC	0.1 A	12
	339-E1	12V DC	0.6 A	7.2
	339-G1	24V DC	0.3 A	7.2

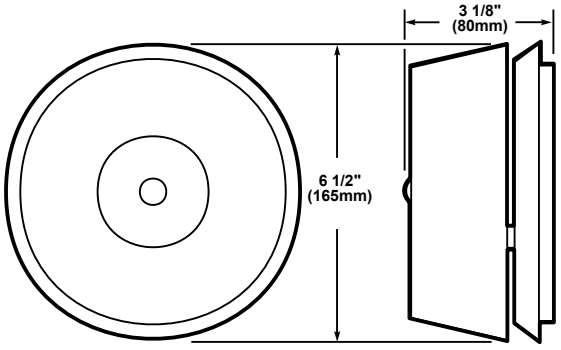
[1]AC voltage frequency is 50/60 Hz.

Accessories

Description	Cat. No.
Flush Mount Grill	**512-A**
Wall Box	**512-1**

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
338-G5	2.32	2.68
338-N5	2.32	2.68
339-E1	2.32	2.68
339-G1	2.32	2.68
512-A	2.00	2.50
512-1	5.00	6.00



Mounts on any plaster cover with mounting holes on 2 3/4" (70mm) centers, on any single gang opening, on any 3 1/4" (83mm), 3 1/2" (89mm), or 4" (102mm) octagonal box or 4" square box. Also mounts directly on any wall surface.

For flush mounting use Cat. No. 512-A grille and 512-1 back box.

Door Bells
Low Voltage
600 Series

Edwards 600 Series patented piano-action design requires only the slightest touch. This slim design can be easily installed in minutes. They feature plastic, rust-proof cases and are available in illuminated and non-illuminated models.

Features and Specifications

- Surface mounted
- Piano type action
- Plastic case - rust proof
- Normally open momentary contacts

Ordering Information

Description	Cat. No.	Maximum Switching Voltage	Color	
			Housing	Center
Illuminated	**630L**	16V AC	Brown	White
	632L	16V AC	Chrome	Ivory
Non-illuminated	**630**	48V AC	Brown	White
	631	48V AC	Ivory	White
	634	48V AC	Brown	White
	635	48V AC	Ivory	Black
	636	48V AC	Ivory	White

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
			Width (in.)	Height (in.)	Depth (in.)
630L	0.04	0.06	7/8	2 7/8	2 5/8
632L	0.02	0.04	7/8	2 7/8	2 5/8
630	0.04	0.06	7/8	2 7/8	2 5/8
631	0.04	0.06	7/8	2 7/8	2 5/8
634	0.05	0.08	3/4	2 5/8	3/4
635	0.05	0.08	3/4	2 5/8	3/4
636	0.05	0.08	3/4	2 5/8	3/4

AC

Door Bells
Low Voltage
600 Series

Edwards 600 Series buttons have polished housings with exclusive, patented piano-action design that requires only the slightest touch. This slim design can be easily installed in minutes.

Features and Specifications

- Surface mounted
- Continuously illuminated
- Piano type action
- Normally open momentary contacts

Ordering Information

Description	Cat. No.	Maximum Switching Voltage	Finish	
			Housing	Center
Illuminated, Rectangular Button	**656-B**	6-16V AC	Anodized Brass	White
	656-C	6-16V AC	Anodized Aluminum	White

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
			Width (in.)	Height (in.)	Depth (in.)
656-B	0.05	0.06	15/16	2 11/16	9/16
656-C	0.05	0.06	15/16	2 11/16	9/16

AC

Door Bells
Low Voltage
600 Series

Edwards 600 Series are traditional push buttons in a single stamped plate, designed for long service. They feature solid brass construction.

Features and Specifications

- Surface mounted
- Solid brass construction
- Large accessible terminals
- 2 or 3 button models
- 2 or 3 name card holder models

Ordering Information

Description	Cat. No.	Maximum Switching Voltage	Finish		No. of Buttons	No. of Name Card Holders
			Housing	Center		
Non-Illuminated, Rectangular	**602**	48V AC	Satin Brass	Black	2	2
	605	48V AC	Satin Brass	Black	3	3

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
			Width (in.)	Height (in.)	Depth (in.)
602	0.11	0.12	2	4 9/16	3/4
605	0.14	0.20	1 5/8	7	7/8

AC

Door Bells
Low Voltage
600 Series

Edwards 600 Series are traditional push buttons designed for long service. They feature solid brass housing and black button.

Features and Specifications

- Surface mount
- Solid brass construction
- Large accessible terminals
- Normally open momentary contacts

Ordering Information

Description	Cat. No.	Maximum Switching Voltage	Finish	
			Housing	Center
Door Bells	**600**	48V AC	Brass	Black
	603	48V AC	Brass	Black

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions	
			Diameter (in.)	Depth (in.)
600	0.08	0.10	2 5/16	7/8
603	0.03	0.06	1 3/4	11/16

AC

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Push Buttons
Low Voltage
59 Series

Edwards 59 Series is a low voltage, high amperage push button designed for 3/4" (19mm) hole force fit. Flat white button center prevents accidental operation.

Features and Specifications

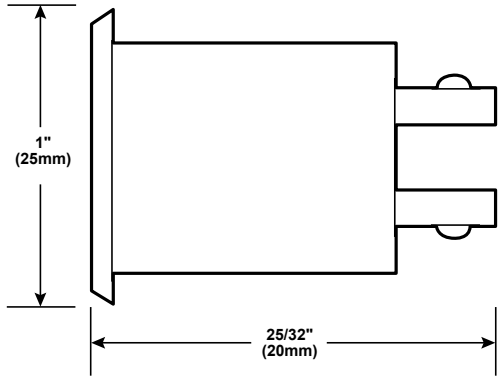
- Snap fit for 3/4" (19mm) hole
- Normally open momentary contacts

Ordering Information

Description	Cat. No.	Switching Voltage	Current DC	Current AC	Finish Rim	Finish Center	Hole Size	Hole Depth
Push Button	**59**	12V	8 A	8 A	Polished Nickel	White	3/4" (19mm)	11/16" (17mm)
		24V	6 A	4 A				
		48V	3 A	2 A				

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
59	0.02	0.04



Push Buttons
Low Voltage
250 Series

The 250 is a low voltage, high amperage push button designed for simultaneous operation of two or three devices from one central point.

The 255 is a low voltage, high amperage push button designed for use where the simultaneous breaking of one circuit and the making of another is required.

Features and Specifications

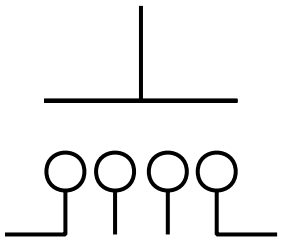
- Fully insulated
- Multiple contacts
- Momentary contacts
- 250 has 3 normally open contacts
- 255 has 1 normally open,1 normally closed contact

Ordering Information

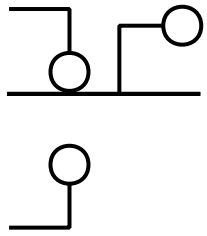
Description	Cat. No.	Switching Voltage	Current DC	Current AC	Finish Rim	Finish Center	Hole Size	Hole Depth
Multiple Contact Push Buttons	**250**	12V	6.0 A	2.0 A	Polished Nickel	Black	3/4" (19mm)	1 1/16" (27mm)
		24V	4.0 A	1.0 A				
		48V	2.0 A	0.5 A				
	255	12V	6.0 A	2.0 A	Polished Nickel	Black	3/4" (19mm)	1 1/16" (27mm)
		24V	4.0 A	1.0 A				
		48V	2.0 A	0.5 A				

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
250	0.04	0.08
255	0.04	0.08



250 Contact Arrangement



255 Contact Arrangement

Push Buttons
Low Voltage
600 Series

These low voltage, panel mount push buttons feature large terminals and normally open momentary contacts. Models with an illuminated center for use in unlighted areas are available.

They may be used with the 147-1 mounting plate or 147-10 room annunciator mounting plate.

Features and Specifications

- Polished chrome or brass
- Insulated for mounting on metal cabinets
- Snap fit
- Normally open momentary contacts
- Illuminated and non-illuminated models

Ordering Information

Description	Cat. No.	Switching Voltage	Current DC	Current AC	Finish Rim	Finish Center	Hole Size	Hole Depth
Non-Illuminated Push Buttons	**620**	8V	2.0 A	2.0 A	Chrome	White	5/8" (16mm)	3/4" (19mm)
		24V	0.5 A	0.67 A				
		48V	0.3 A	0.3 A				
	621[1]	8V	2.0 A	2.0 A	Chrome	White	5/8" (16mm)	3/4" (19mm)
		24V	0.5 A	0.67 A				
		48V	0.3 A	0.3 A				
	620-B	8V	2.0 A	2.0 A	Brass	White	5/8" (16mm)	3/4" (19mm)
		24V	0.5 A	0.67 A				
		48V	0.3 A	0.3 A				
	621-B[1]	8V	2.0 A	2.0 A	Brass	White	5/8" (16mm)	3/4" (19mm)
		24V	0.5 A	0.67 A				
		48V	0.3 A	0.3 A				
Illuminated Push Buttons	**620-L**	6 -16V AC	-	-	Chrome	White	5/8" (16mm)	3/4" (19mm)
	620-LB	6 -16V AC	-	-	Brass	White	5/8" (16mm)	3/4" (19mm)

[1]500 Unit Bulk Pack

Accessories

Description	Cat. No.
Mounting Plate	**147-1**
Room Annunciator Mounting Plate	**147-10**

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
620	0.01	0.03
621	8.00	9.50
620-B	0.02	0.05
621-B	7.80	9.26
620-L	0.02	0.05
620-LB	0.02	0.05
147-1	0.12	0.15
147-10	0.12	0.15

Push Buttons
Low Voltage
600 Series

Low voltage, panel mount push buttons with three types of centers: recessed, flush, or protruding. Each button has a phosphor bronze contact spring with a long duration wiping action. The button back is constructed of Zytel 101 nylon.

May be used with 147-1 mounting plate.

Features and Specifications

- AC or DC up to 48 volts
- Recessed, flush or protruding button models
- Polished, anodized aluminum shell
- Snap fit or locknut type mounting
- Normally open momentary contacts

Ordering Information

Description	Cat. No.	Switching Voltage	Current AC	Current DC	Center Type	Center Mounting	Color	Mounting Hole Diameter
Flush Center Push Button	**690-W**	12V	10.0 A	4.0 A	Flush	Snap fit	White	5/8" (16mm)
		24V	10.0 A	2.0 A				
		48V	5.0 A	1.0 A				
	691-W	12V	10.0 A	4.0 A	Flush	Locknut	White	5/8" (16mm)
		24V	10.0 A	2.0 A				
		48V	5.0 A	1.0 A				
Recessed Center Push Button	**692-W**	12V	10.0 A	4.0 A	Recessed	Snap fit	White	5/8" (16mm)
		24V	10.0 A	2.0 A				
		48V	5.0 A	1.0 A				
Protruding Center Push Button	**694-B**	12V	10.0 A	4.0 A	Protruding	Snap fit	Black	5/8" (16mm)
		24V	10.0 A	2.0 A				
		48V	5.0 A	1.0 A				
	694-W	12V	10.0 A	4.0 A	Protruding	Snap fit	White	5/8" (16mm)
		24V	10.0 A	2.0 A				
		48V	5.0 A	1.0 A				
	695-B	12V	10.0 A	4.0 A	Protruding	Locknut	Black	5/8" (16mm)
		24V	10.0 A	2.0 A				
		48V	5.0 A	1.0 A				
	695-W	12V	10.0 A	4.0 A	Protruding	Locknut	White	5/8" (16mm)
		24V	10.0 A	2.0 A				
		48V	5.0 A	1.0 A				

Accessories

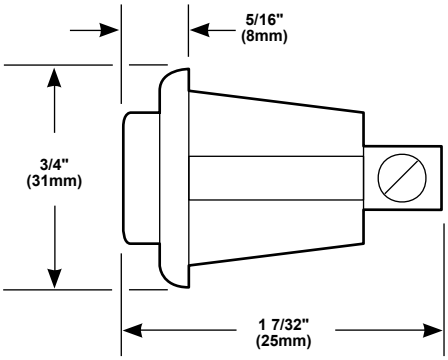
Description	Cat. No.
Mounting Plate	**147-1**

AC DC

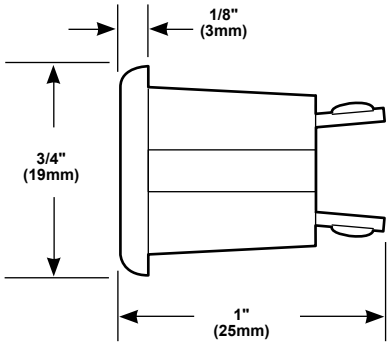
Push Buttons
Low Voltage
600 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
690-W	0.01	0.02
691-W	0.03	0.04
692-W	0.01	0.02
694-B	0.02	0.04
694-W	0.02	0.04
695-B	0.01	0.02
695-W	0.01	0.02
147-1	0.12	0.15



694-B, 694-W



690-W, 692-W

Push Buttons
Push Button Plates
147 and 149 Series

The Edwards 147-1 Push Button Plate is used for mounting 620 and 690 series 5/8" (16mm) buttons on a standard single gang box.

The Edwards 149-1 Push Button Plate is used for mounting 821, 850, and 854 series 7/8" (22mm) buttons on a standard single gang box.

Features and Specifications

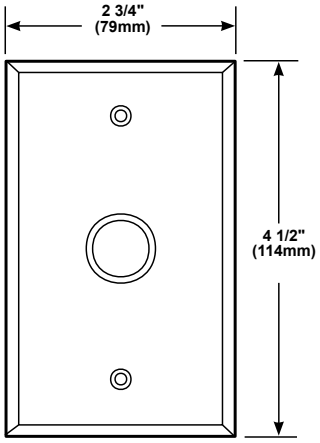
- Standard switch box mounting
- Stainless steel faceplate
- Single gang

Ordering Information

Description	Cat. No.	For Use With
Mounting Plate for 5/8" Push Buttons	**147-1**	620 and 690 Series
Mounting Plate for 7/8" Push Buttons	**149-1**	821, 850 and 854 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
147-1	0.12	0.15
149-1	0.12	0.15



Push Buttons
High Voltage
800 Series

The 820 and 821 are rugged, fast break contact Push Buttons that operate regardless of how pressure is released. The 821 is ideal for mounting on thin metal panels. The 821 may be used with 149-1 mounting plate.

Features and Specifications

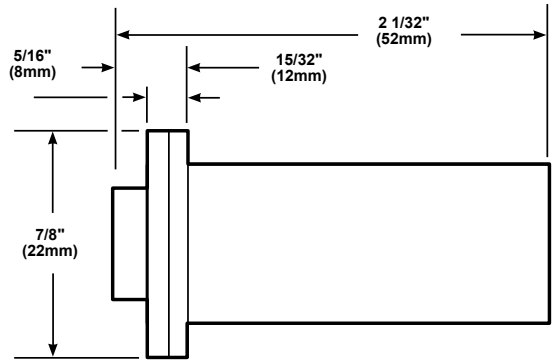
- Force fit (820)
- Locknut mounting (821)
- Convenient screw terminals
- Momentary contact
- Normally open contacts
- Rated at 250,000 operations at 1 amp, 125V

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Finish		Hole Size	Hole Depth
				Housing	Center		
Push Buttons	**820**	12V AC	15 A	Heavy Duty-Chrome Plated	Black	3/4" (19mm)	1 3/4" (44mm)
		24V AC	15 A				
		48V AC	10 A				
		125V AC	5 A				
		250V AC	5 A				
	821	12V AC	15 A	Heavy Duty-Chrome Plated	Black	7/8" (22mm)	1 3/4" (44mm)
		24V AC	15 A				
		48V AC	10 A				
		125V AC	5 A				
		250V AC	5 A				

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
820	0.06	0.10
821	0.06	0.10



AC

Push Buttons
High Voltage
800 Series

The 850 and 854 Push Buttons are rugged, fast make and break contact push buttons that operate regardless of how pressure is applied or released. The buttons have insulated, protective sleeves and phosphor bronze, self cleaning contacts that withstand shock and vibration.

Both push buttons panel mount in a 7/8" (22mm) hole using the supplied locknut. Also mounts in a 7/8" (20mm) hole that has been tapped with straight pipe threads.

May be used with 149-1 mounting plate.

Features and Specifications

- Locknut mounting
- Convenient screw terminals
- Normally open contacts (**850**)
- Normally closed contacts (**854**)
- Momentary contacts
- 3" wire leads (**850**)
- UL registered (**850**)

Ordering Information

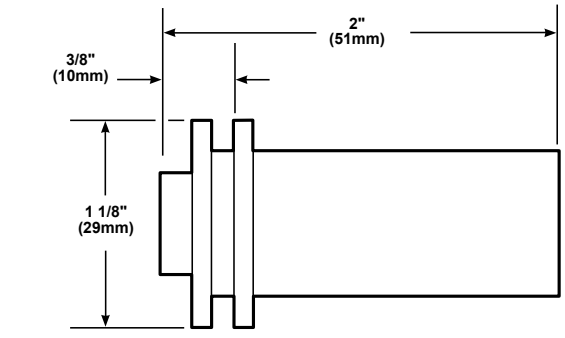
Description	Cat. No.	Operating Voltage	Current DC	Current AC	Finish Housing	Finish Center	Hole Size	Hole Depth
Push Button Normally Open Contacts	**850**	12V AC	-	15 A	Heavy Duty-Chrome Plated	Black	7/8" (22mm)	1 3/4" (44mm)
		24V AC	-	15 A		Black	7/8" (22mm)	1 3/4" (44mm)
		48V AC	-	10 A		Black	7/8" (22mm)	1 3/4" (44mm)
		125V AC	-	5 A		Black	7/8" (22mm)	1 3/4" (44mm)
		250V AC	-	5 A		Black	7/8" (22mm)	1 3/4" (44mm)
Push Button Normally Closed Contacts	**854**	12V AC	4 A	4 A	Heavy Duty-Chrome Plated	Black	7/8" (22mm)	1 3/4" (44mm)
		24V AC	4 A	4 A		Black	7/8" (22mm)	1 3/4" (44mm)
		48V AC	2 A	4 A		Black	7/8" (22mm)	1 3/4" (44mm)
		125V AC	1 A	2 A		Black	7/8" (22mm)	1 3/4" (44mm)
		250V AC	0.5 A	1 A		Black	7/8" (22mm)	1 3/4" (44mm)

Accessories

Description	Cat. No.
Mounting Plate	**149-1**

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
850	0.14	0.21
854	0.14	0.21
149-1	0.12	0.15



AC

Push Buttons
High Voltage
800 Series

The 852 flush push button features an 850 push button with a diaphragm enclosing the mechanism. It is suitable for use in indoor and outdoor applications. The 4 11/16" (119mm) x 2 7/8" (73mm) wall plate has a rubber gasket for weather tight integrity.

Features and Specifications

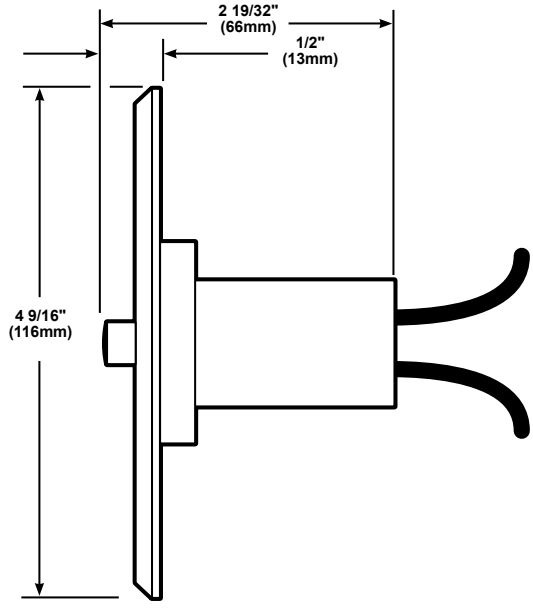
- Flush mount
- Satin chrome finish
- High voltage
- Normally open momentary contacts
- Suitable for use in indoor and outdoor applications

Ordering Information

Description	Cat. No.	Operating Voltage	Current DC	Current AC	Hole Depth
Push Button	**852**	12V	10 A	10 A	2 1/16" (52mm)
		24V	10 A	10 A	
		32V	8 A	10 A	
		48V	7 A	10 A	
		125V	3 A	6 A	
		250V	1 A	3 A	

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
852	0.39	0.49



Push Buttons
High Voltage
1780 Series

The 1785 push button is constructed of a cast aluminum rim with a composition diaphragm center, and is suitable for use in indoor and outdoor applications. The unit is drilled and tapped for 1/2" (13mm) conduit and has a gray aluminum finish. The push button is fitted with two side mounting lugs.

Features and Specifications

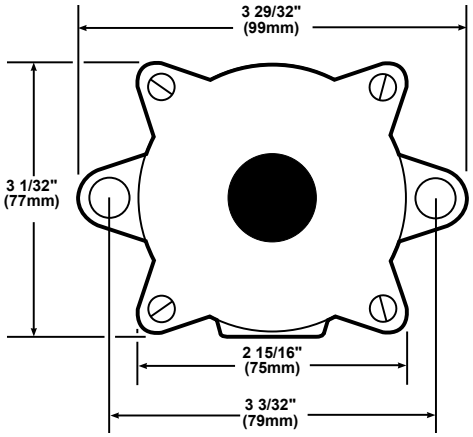
- Surface mount
- Heavy die-cast construction
- Normally open momentary contacts
- Suitable for use in indoor and outdoor applications

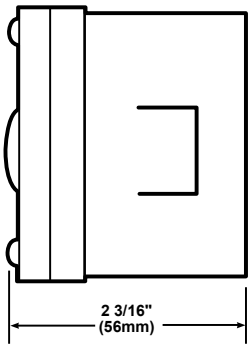
Ordering Information

Description	Cat. No.	Switching Voltage	Current	
			DC	AC
Push Button	**1785**	12V	20 A	20 A
		24V	10 A	20 A
		125V	1 A	4 A

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
1785	0.75	0.84





Push Buttons
Low Voltage
1780 Series

Edwards 1780 Series Push Buttons are suitable for use in indoor and outdoor applications. They have a neoprene diaphragm to protect the integral, long-life, phosphor bronze contact springs, and an additional bakelite back plate threaded for 1/2" (13mm) conduit.

Features and Specifications

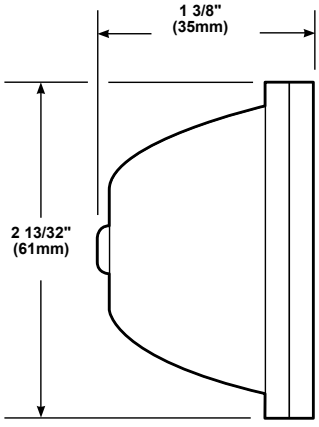
- Surface mount
- Solid brass construction
- Normally open momentary contacts
- Conduit back plate
- Suitable for use in indoor and outdoor applications

Ordering Information

Description	Cat. No.	Switching Voltage	Current DC	Current AC	Finish Housing	Finish Center
Push Button	**1786C-B**	12V	4 A	4 A	Solid Brass	Solid Brass
		24V	2 A	4 A		
		48V	1 A	2 A		

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
1786C-B	0.43	0.49



Push Buttons
Low Voltage
71 Series

Edwards 71 Series Push Button is a pendant type button. It is small, yet easy to grasp, and is contained within a durable plastic case.

Features and Specifications

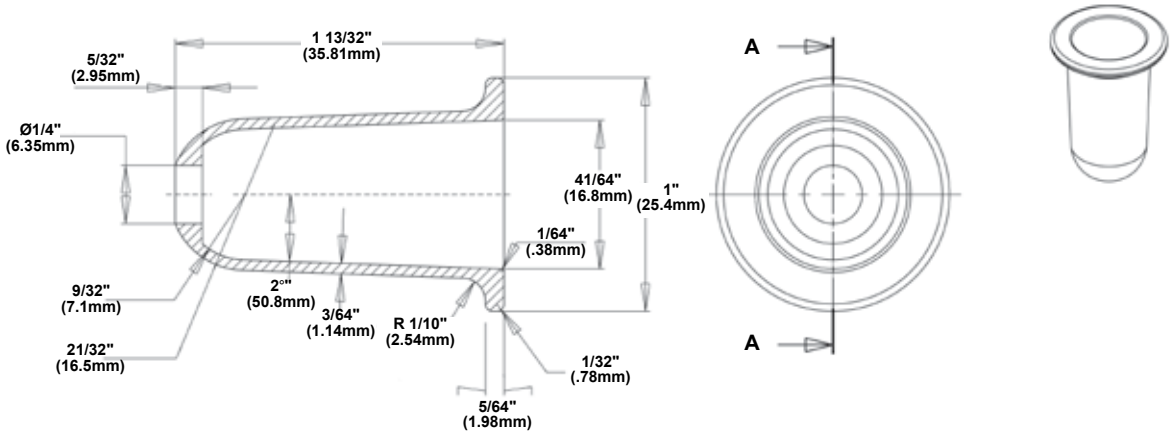
- Low voltage - up to 50 volts
- Normally open momentary contacts

Ordering Information

Description	Cat. No.	Switching Voltage	Current	Finish	
				Rim	Center
Pendant	**71**	8V AC	2.0 A	Gray	Ivory
		24V AC	0.67 A		

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Aprox. Shipping Weight (lb.)
71	0.02	0.04



AC

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Push Buttons
High Voltage
800 Series

The Edwards 851 Push Button is a high voltage pendant type button. Its shell is constructed out of shock resistant polypropylene. The pendant will fast make and break regardless of how pressure is applied.

Features and Specifications

- Quick make and break
- Shock resistant polypropylene construction
- High voltage - up to 250 volts
- Vibration resistant phosphor bronze, self cleaning contacts
- 6" (152mm) No.16 pigtail leads

Ordering Information

Description	Cat. No.	Switching Voltage	Current		Finish	
			AC	DC	Rim	Center
Push Button - Pendant Type	**851**	12V	10.0 A	10.0 A	Gray	Black
		24V	10.0 A	10.0 A		
		32V	10.0 A	8.0 A		
		48V	10.0 A	7.0 A		
		125V	6.0 A	3.0 A		
		250V	3.0 A	1.0 A		

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
			Length (in.)	Width (in.)	Wire Entrance Diameter (in.)
851	0.14	0.21	3 3/8	1 9/16	11/32

Push Buttons
Low Voltage
7620

The Edwards 7620 Pendant is a low voltage pendant type button. Its shell is constructed out of shock resistant polypropylene. The pendant has a locking push feature combined with a momentary contact.

The button has no exposed screws or parts and the shell revolves 360° without damage to the wiring. The button is easily reset by pressing the collar at any point.

Features and Specifications

- Locking push mechanism
- One momentary contact, three maintained contacts
- Tamper resistant

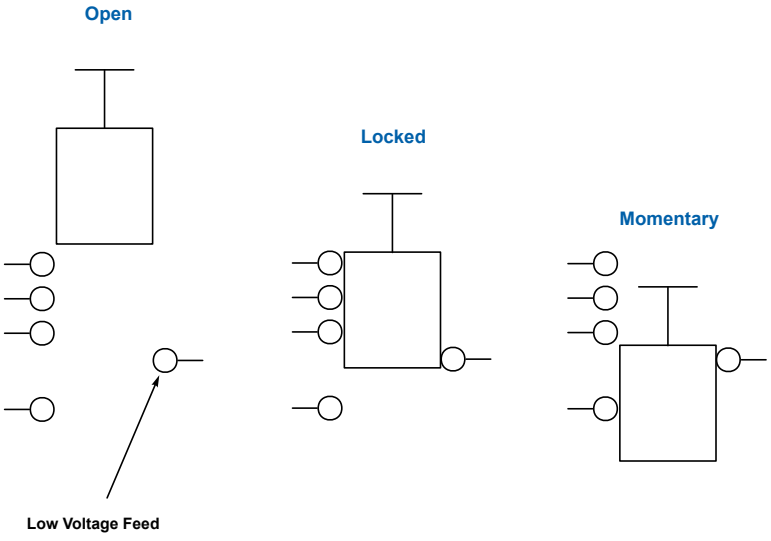
Ordering Information

Description	Cat. No.	Switching Voltage	Current		Finish		Wire Entrance Diameter
			AC	DC	Rim	Center	
Locking Momentary, Pendant	**7620**	12V	4.0 A	2.0 A	Gray	Gray	11/32" (9mm)
		24V	2.0 A	1.0 A	Gray	Gray	11/32" (9mm)
		48V	1.0 A	0.5 A	Gray	Gray	11/32" (9mm)

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions	
			Length (in.)	Width (in.)
7620	0.10	0.20	3 3/8	1 9/16

Contact Arrangements



Transformers
AC - Class 2
590 Series

Edwards 590 Series Class 2 Signaling Transformers are easy to install, low voltage power sources for residential, commercial, and industrial uses.

Mounts in a standard 1/2" (13mm) knockout or surface mounts using the provided foot mounts. These transformers are suitable for mounting in both plastic and metal back boxes. May also be used with the 593 transformer plate for enclosed mounting in a standard two gang outlet box.

The 591 transformer is suitable for standard doorbells and chimes in residential and commercial applications requiring 16 volts AC.

The Edwards 598, 598Y, 599 and 599Y transformers offer high power for long wire runs or for applications requiring greater power such as door openers.

Features and Specifications

- Non-regenerative thermal overload protection
- Grounding wire
- Pre-stripped primary side pigtails
- Screw terminal connections on secondary

Ordering Information

Description	Cat. No.	Primary Voltage[1]	Secondary	
			Volts	VA
Class 2 Transformers	**590**	120V AC	10V AC	5
	590Y	240V AC	10V AC	5
	591	120V AC	16V AC	10
	592	120V AC	8V AC	10
			16V AC	10
			24V AC	20
	592Y	240V AC	8V AC	10
			16V AC	10
			24V AC	20
	596	120V AC	6V AC	10
			12V AC	15
			18V AC	15
	598	120V AC	8V AC	20
			16V AC	30
			24V AC	30
	598Y	240V AC	8V AC	20
			16V AC	30
			24V AC	30
	599	120V AC	24V AC	40
	599Y	240V AC	24V AC	40

[1]AC voltage frequency is 50/60 Hz

AC

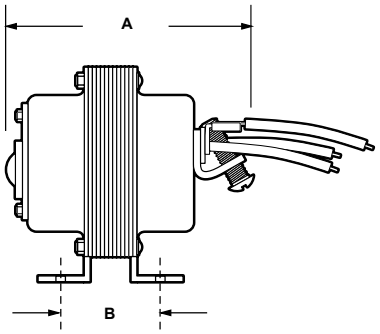
Transformers
AC - Class 2
590 Series

Accessories

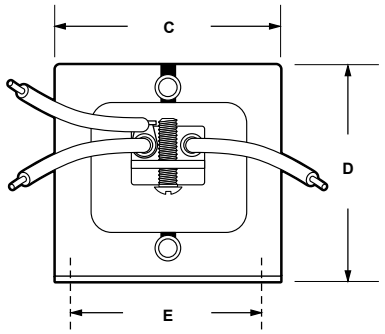
Description	Cat. No.
Transformer Mounting Plate	**593**

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions				
			A (in.)	B (in.)	C (in.)	D (in.)	E (in.)
590	0.32	0.70	2 5/16	3 1/32	2 1/4	2 1/8	2
590Y	0.32	0.70	2 5/16	3 1/32	2 1/4	2 1/8	2
591	0.44	0.80	2 5/16	3 1/32	2 1/4	2 1/8	2
592	0.44	1.00	2 1/2	1 1/8	2 1/4	2 1/8	2
592Y	0.44	0.90	2 1/2	1 1/8	2 1/4	2 1/8	2
596	0.44	1.00	2 1/2	1 1/8	2 1/4	2 1/8	2
598	0.66	1.50	2 15/16	1 5/8	2 1/4	2 1/8	2
598Y	1.00	1.40	2 15/16	1 5/8	2 1/4	2 1/8	2
599	0.95	1.60	2 15/16	1 5/8	2 1/4	2 1/8	2
599Y	0.95	1.65	2 15/16	1 5/8	2 1/4	2 1/8	2



Side View



Back View

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Transformers
Mounting Plate
590 Series

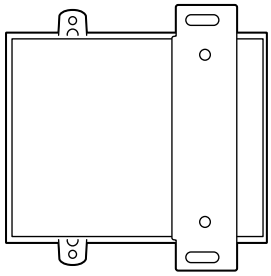
The Edwards 593 Transformer Mounting Plate allows any 590 Series Transformer to be mounted, completely enclosed, in a two gang electrical box, minimum 2 1/4" (57mm) deep.

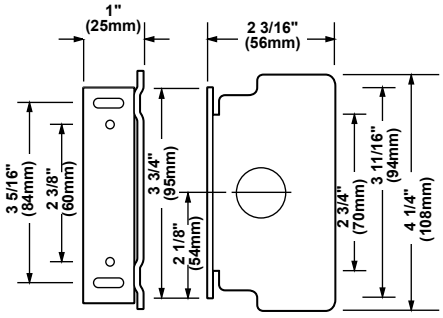
Ordering Information

Description	Cat. No.
Mounting Plate	**593**

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
593	0.20	0.40





Transformers
AC - Power
88 Series

Edwards 88 Series Power Transformers provide low voltage source from 50 to 250 volt amps for all large signaling installations.

Holes are provided in transformer housing for surface mounting.

Features and Specifications

- Enclosed connections
- Primary Pigtails
- Screw terminal connections on secondary

Ordering Information

Description	Cat. No.	Primary Voltage[1]	Secondary	
			Volts	VA
Power Transformers	**88-50**	120V AC	24V	50
			12V	25
	88-Y50	240V AC	24V	50
			12V	25
	88-100	120V AC	24V	100
			12V	50
	88-Y100	240V AC	24V	100
			12V	50
	88-250	120V AC	24V	250
			20V	200
			16V	160
			12V	125
			8V	80
			4V	40

[1]AC voltage frequency is 50/60 Hz

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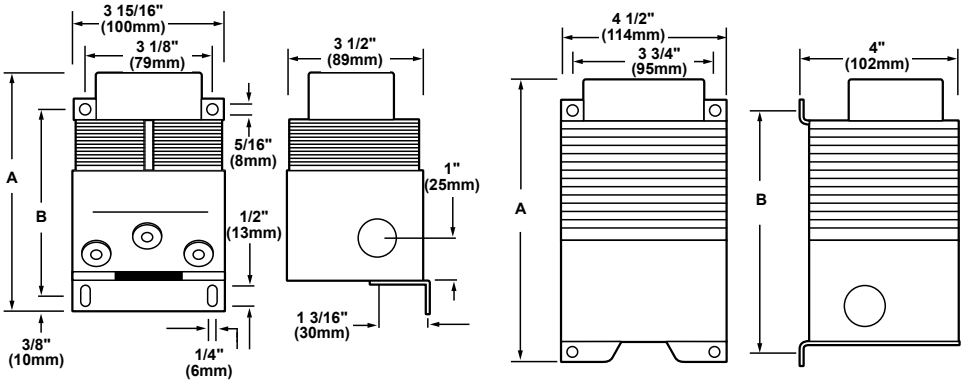
Transformers
AC - Power
88 Series

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions	
			A (in.)	B (in.)
88-50	1.94	4.30	5 1/2	4 3/8
88-Y50	2.05	4.40	5 1/2	4 3/8
88-100	2.60	5.70	5 15/16	4 11/16
88-Y100	2.30	5.40	5 15/16	4 11/16
88-250	5.00	15.00	7 3/4	6 5/8



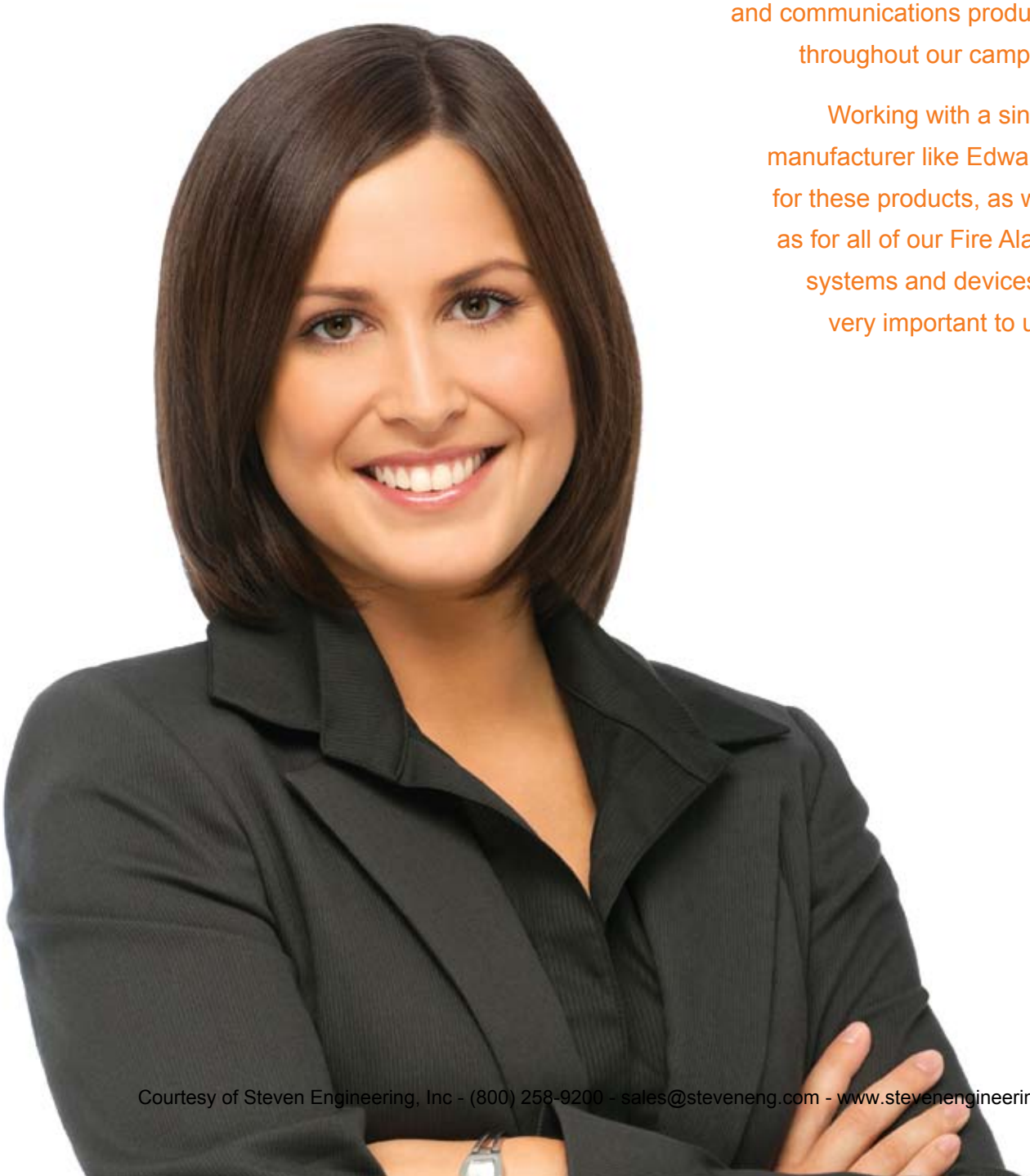
88-50, 88-Y50 88-100, 88-Y100 88-250

EDWARDS

Sound Logic

"For many years we have standardized on Dukane sound and communications products throughout our campus.

Working with a single manufacturer like Edwards for these products, as well as for all of our Fire Alarm systems and devices is very important to us."



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Product Index

When it comes to sound and communications technology, the Dukane brand has long been regarded as a leader. Our products are engineered for high performance and flawless operation. Now for the first time, the full line of Dukane over-the-counter products is available through Authorized Edwards Signaling Distributors.

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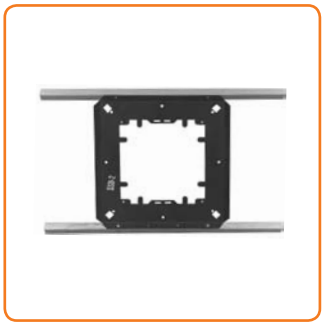
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Intercoms
Industrial
5570 Series

The Edwards 5570M intercom is a heavy-duty UL and cUL listed signal appliance designed for use in industrial and hazardous location applications.

The 5570M can be configured by means of a slide switch. The AC line has a 1/2 amp 250-volt type GMC fuse. Operating selections include balanced or unbalanced line operation and modes of Master or Satellite can be selected.

The unit features a transformer isolated audio input and a choice of one of four selectable alert tones. For indoor applications where ambient noise is high, a hand-held noise cancelling microphone kit is available.

Features and Specifications

- Suitable for use in indoor and outdoor hazardous locations
- Balanced or unbalanced line operation
- Master or satellite modes
- Four selectable alert tones
- Marine rated
- UL Class 1, Div. 2, Groups A, B, C and D
- Operating temperature range: -31°F to 150°F (-35°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current		Frequency Response (-6dB)	Input Impedance	Speaker Rating	Speaker Impedance
			Standby	Tone On				
Hazardous Location Intercoms	**5570M-AQ**	24V AC/DC	0.321/0.111 A	1.29/0.64 A	150 Hz to 12 KHz	15K Ohms	30 Watts	16 Ohms
	5570M-NR5	120V AC/240V AC	0.075/0.037 A	0.188/0.073 A	150 Hz to 12 KHz	15K Ohms	30 Watts	16 Ohms

[1]AC voltage frequency is 50/60 Hz

Accessories

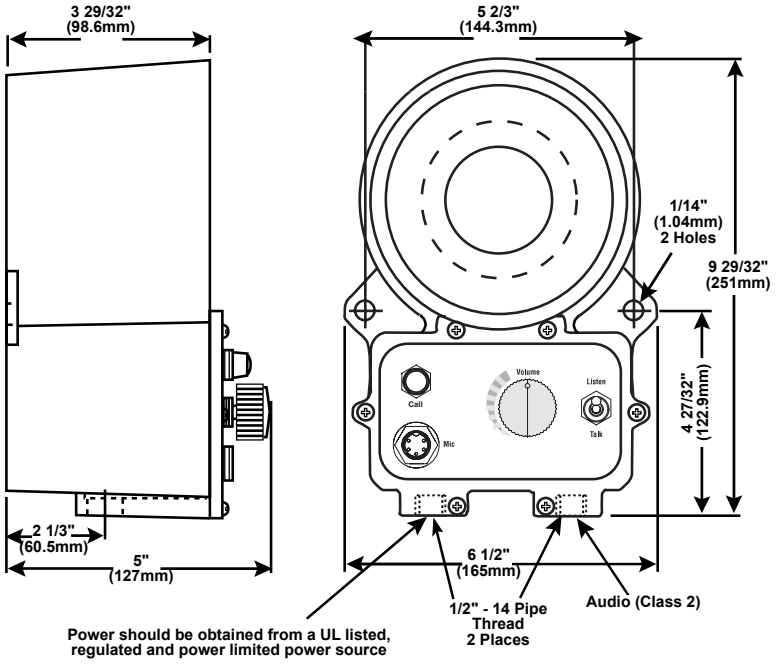
Description	Cat. No.
Hand-held Noise Cancelling Microphone Kit	**5570MIC**
Microphone Outdoor Application Kit	**5542WPK**

AC AC/DC 150°F -31°F OP TEMP UL c UL HAZ-LOC

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5570M-AQ	12.13	12.50
5570M-NR5	12.13	12.50
5570MIC	1.00	1.25
5542WPK	0.42	0.70



Speakers
Re-Entrant
Millennium Class

The 5552 speaker is a high-efficiency, double re-entrant loudspeaker that delivers 15-watts of continuous power. It is suitable for use in fire alarm and life safety applications and is UL 1480 listed as a fire protective signaling speaker.

The 5552 speaker includes a versatile, two-way, 25/70.7 V line transformer that meets a variety of distributed system needs. The transformer is adjustable by means of a convenient seven-position, watts/impedance selection switch that is screwdriver adjustable and includes a protective cover with built-in cable strain relief.

The 5552 speaker includes a mounting bracket that, with a single adjustment, provides positioning in both the vertical and horizontal planes. It also allows the 5552 to be installed on conventional surfaces or strap-mounted on I-beams or pillars.

Features and Specifications

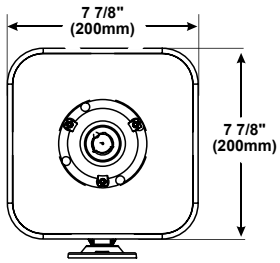
- High intelligibility for voice and tone signaling
- 120dB at 1 meter/110dB at 10 ft.
- Suitable for installation on supervised circuits
- Suitable for use in indoor and outdoor applications
- Available in gray or red finish
- Epoxy-coated metal and ABS plastic components
- Includes 25/70.7 transformer for line applications
- Sensitivity:
  - –120dB at 15 watts (peak)/1 meter
  - –116dB at 15 watts/1 meter (avg.)
  - –106dB at 1 watt/1 meter (avg.) 500-600 Hz
- 1/2" conduit connection
- 70° dispersion
- Adjustable bracket for precise positioning
- Operating temperature range: -30°F to 150°F (-35°C to 66°C)

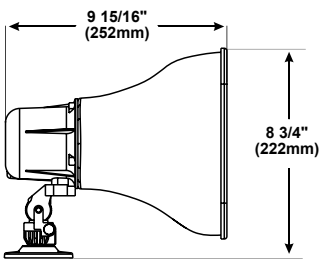
Ordering Information

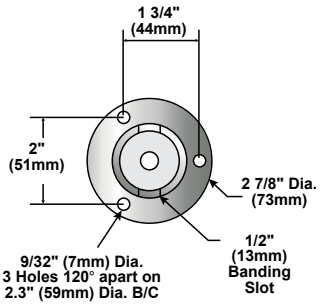
Description	Cat. No.	Line Voltage	Power	Power Taps	RMS Frequency Response	Capacitor Rating	dB at 1m/10ft.	Color
Re-entrant Speakers	**5552-15W-R**	25/70.7	15 W	1, 2, 3.8, 7.5, 15 @ 70.7V	400 - 14,000 Hz	5 mfd	120/110	Red
	5552-15W-G	25/70.7	15 W	1, 2, 3.8, 7.5, 15 @ 70.7V	400 - 14,000 Hz	5 mfd	120/110	Gray

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5552-15W-R	3.81	4.63
5552-15W-G	3.81	4.63

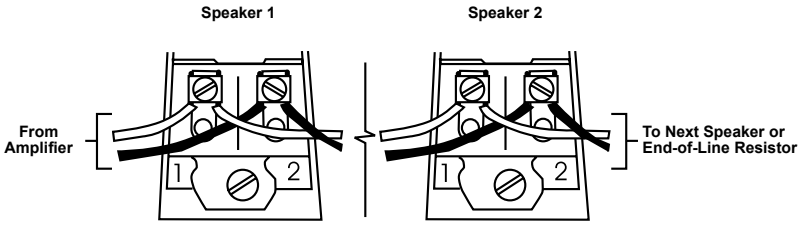






Speakers
Re-Entrant
Millennium Class

Wiring

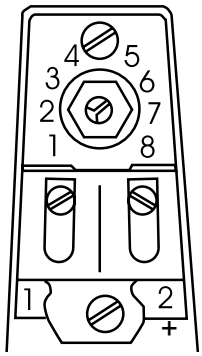


Configuration

Switch Poistion	Impedance	25V Line	dB at 1m/10 ft.[1]	70V Line	dB at 1m/10 ft.[1]
1	5.0 K	—	—	0.9 W	103/93
2	2.5 K	—	—	1.8 W	106/96
3	1.3 K	0.48 W	100/90	3.8 W	108/98
4	666	0.94 W	103/93	7.5 W	111/101
5	333	1.8 W	106/96	15.0 W	113/103
6	89	7.5 W	111/101	Do Not Use on 70 V	
7	45	15.0 W	113/103		

[1]UL 3dB increment rating

NOTE: Terminal 2 is the positive terminal



Speakers
Notification Appliances
Millennium Class

The Edwards 5553 Series Speakers are UL Listed, Class 1, Div. 2 hazardous location audible signaling appliances for use in conjunction with compatible control equipment. They produce audible emergency and protective signals as well as voice messages. They accept system audio input levels of 25 or 70 volts RMS.

The Edwards 5553 Series comply with the requirements of UL Standard 1480, Fire Protective Signaling Speakers. The speakers are suitable for outdoor use with a UL1480 wet locations rated enclosure. They include a supervisory capacitor and are suitable for installation in systems employing supervised circuitry.

Speaker direction is adjustable and the output wattage is adjustable via an internal rotary switch.

Features and Specifications

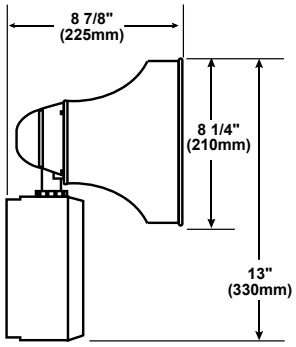
- Suitable for use in outdoor and hazardous locations
- Speaker swivels
- Adjustable up to 15 watts maximum
- 113 dB at 1 meter/103 dB at 10 ft.
- Frequency range 400Hz to 4000Hz
- UL listed for Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III, Div. 1 and 2
- Operating temperature range: -40ºF to 104ºF (-40ºC to 40ºC)

Ordering Information

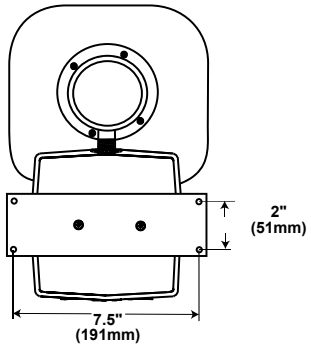
Description	Cat. No.	dB at 1m/10ft.	Color
Hazardous Location Speakers	**5553-25/70-G**	113/103	Gray
	5553-25/70-R	113/103	Red

Weights and Dimensions

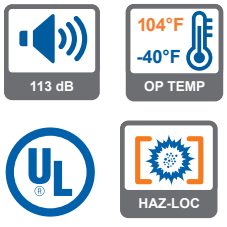
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5553-25/70-G	4.20	9.00
5553-25/70-R	4.20	9.00



Side



Back



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Phone Relays
Surface Mount - Indoor
B93 Class

The Edwards B93 Class electro-mechanical, pressed steel, telcode relays are designed to activate horns, buzzers and bells. The unit's windings are rated in ohms rather than volts. Wire size and number of turns vary with resistance requirements.

The B-8316 Series relay is supplied with a capacitor; the B-8315 Series is not.

Unit mounts to any flat surface using the mounting holes on 3 3/8" (86mm) centers. 1/2" (13mm) and 3/4" (19mm) knockouts are provided for input and output wiring.

Relays operating on AC ringing voltage and used on common battery circuits require capacitors. Relays operating on DC ringing voltages do not require capacitors unless energized by a common battery.

Features and Specifications

- Long-life tungsten contacts
- Gray finish
- High grade copper coils
- Hinged cover
- Normally open circuit relay
- Two shading coils prevent armature chatter
- Designed for POTS (plain old telephone service) operation
- FCC approval (B-8316 Series only)

Ordering Information

Description	Cat. No.	DC Coil Resistance (ohms)	Contact Rating	With Capacitor VAC	Without Capacitor VAC	Without Capacitor VDC
B93 Class Relay, Surface Mount - Indoor	**B-8315-P-1000**[1]	1000	0.8A @ 110V AC	100-115	105-115	18
	B-8316-P-1000[2]	1000	0.8A @ 110V AC	100-115	—	—
	B-8316-P-2500[2]	2500	0.8A @ 110V AC	200-230	—	—
	B-8316-P-3000[2]	3000	0.8A @ 110V AC	220-277	—	—

[1]Supplied without capacitor. If one is required, order the B-8325 one micro farad, 400V capacitor with bracket.
[2]Supplied with 1 micro farad @ 400V capacitor

Accessories

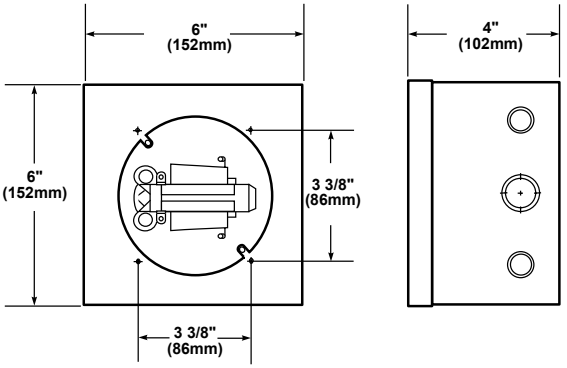
Description	Cat. No.
Bracket with 1µF capacitor	**B-8325**

AC DC

Phone Relays
Surface Mount - Indoor
B93 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-8315-P-1000	4.29	4.56
B-8316-P-1000	4.29	4.56
B-8316-P-2500	4.29	4.56
B-8316-P-3000	4.29	4.56



Phone Relays
Surface Mount - Outdoor
B93 Class

The Edwards B93 Class, electro-mechanical telcode relays are designed to activate horns, buzzers and bells. The unit's windings are rated in ohms rather than volts. Wire size and number of turns vary with resistance requirements.

The B-8323 Series relay is supplied with a capacitor; the B-8322 Series is not.

Unit mounts to any flat surface using the mounting lugs on 6 3/4" (171mm) centers. Use 1/2" (13mm) conduit for input and output wiring.

Relays operating on AC ringing voltage and used on common battery circuits require capacitors. Relays operating on DC ringing voltages do not require capacitors unless energized by a common battery.

Features and Specifications

- Suitable for outdoor applications
- Long-life tungsten contacts
- Gray finish
- High grade copper coils
- Cast aluminum back box and cover
- Normally open circuit relay
- Two shading coils prevent armature chatter
- Designed for POTS (plain old telephone service) operation
- FCC approval (B-8323 Series only)

Ordering Information

Description	Cat. No.	DC Coil Resistance (ohms)	Contact Rating	With Capacitor VAC	Without Capacitor VAC	Without Capacitor VDC
B93 Class Relay, Surface Mount - Outdoor	**B-8322-P-1000**[1]	1000	0.8A @ 110V AC	100-115	105-115	18
	B-8323-P-1000[2]	1000	0.8A @ 110V AC	100-115	—	—
	B-8323-P-1600[2]	1600	0.8A @ 110V AC	200-230	—	—
	B-8323-P-3000[2]	3000	0.8A @ 110V AC	220-277	—	—

[1]Supplied without capacitor. If one is required, order the B-8325 one micro farad, 400V capacitor with bracket.
[2]Supplied with 1 micro farad @ 400V capacitor

Accessories

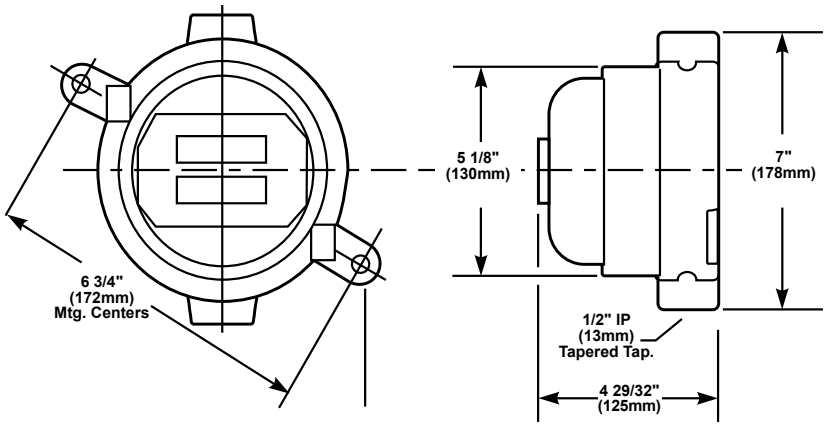
Description	Cat. No.
Bracket with 1µF capacitor	**B-8325**

AC DC

Phone Relays
Surface Mount - Outdoor
B93 Class

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-8322-P-1000	3.82	4.14
B-8323-P-1000	3.82	4.14
B-8323-P-1600	3.82	4.14
B-8323-P-3000	3.82	4.14



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Phone Relays
Electronic
B93 Class

The Edwards B-ER-2000 electronic telcode relay is designed to activate remote extension signals such as horns, bells, strobes, or similar devices. The relay is activated by the line ringing voltage of the telephone; operation of the connected signal matches the telephone ringing cycle. The unit is designed for indoor use only.

The unit mounts to any flat surface using the supplied hardware. All telephone, power input, and signal output connections are made internal to the unit.

Features and Specifications

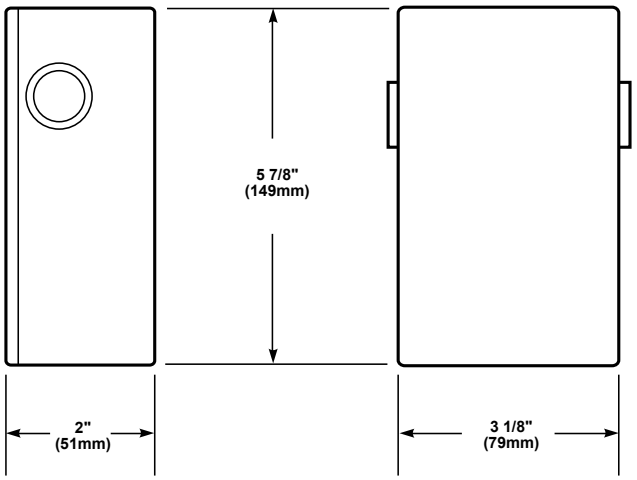
- Hardwired unit
- Suitable for use in indoor applications
- AC or DC activation voltage
- Suitable for use in indoor applications
- Injected molded enclosure
- Strain relief grommets on wiring entrances

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	Contact Rating
Electronic Relay	**B-ER-2000**	10-250V AC 10-150V DC	16 to 70 Hz	1.5B @ >50V 3.4B @ <50V	5 amps @ 120V AC

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-ER-2000	0.25	0.56



AC DC

Phone Relays
Electronic
B93 Class

The Edwards B-ERW-2100 electronic telcode relay is designed to activate remote extension signals such as horns, bells, strobes, or similar devices. The relay is activated by the line ringing voltage of the telephone; operation of the connected signal matches the telephone ringing cycle. The unit is suitable for outdoor use.

Unit mounts to any flat surface using the supplied hardware. Use 1/2" (13mm) conduit for input and output wiring. All telephone, power input and signal output connections are made inside the unit.

Features and Specifications

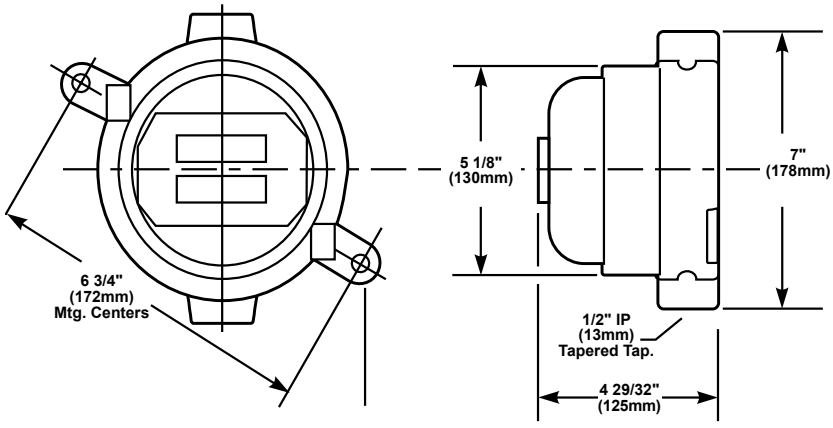
- Hardwired terminations
- Suitable for use in outdoor applications
- AC or DC activation voltage

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	Contact Rating
Electronic Relay	**B-ERW-2100**	10-250V AC 10-150V DC	16 to 70 Hz	1.5B @ >50V 3.4B @ <50V	5 amps @ 120V AC

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-ERW-2100	2.98	3.21



AC DC

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Phone Signals
Remote Phone Bell
B93 Class

The Edwards B-KBH-5040-N5 phone bell provides remote indication of telephone operation. The unit is powered by 120V 60 Hz and does not draw current on the phone circuit.

The unit is activated by a solid state, voltage sensing relay and responds to a 16-70 Hz ringing frequency. Operation of the unit matches the ringing cycle of the telephone.

Installs with three screws using the three external mounting lugs.

Features and Specifications

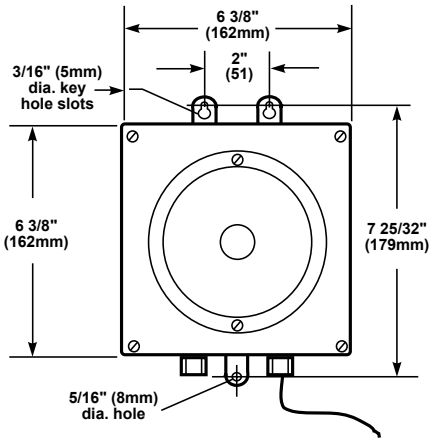
- Suitable for use in indoor applications
- Completely self-contained
- Steel gong
- Solid state relay
- Strain relief connectors for telephone line and 120V power cord
- Designed for POTS (plain old telephone service) operation
- AC or DC activation
- 6 foot (1.83m) power cord
- Polycarbonate injection molded housing

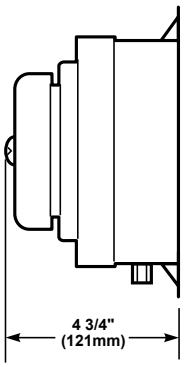
Ordering Information

Description	Cat. No.	Telephone Activation Voltage	REN Number	dB at 1m/10ft.	Gong Size
Remote Phone Bell	**B-KBH-5040-N5**	10-250V AC @ 10-70 Hz	1.5B @ > 50V	98/88	4" (102mm)
		10-150V DC	3.4B @ < 50V		

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KBH-5040-N5	3.46	4.02





Phone Signals
Remote Phone Bell
B93 Class

The Edwards B-KBP-5060-N5 phone bell provides remote indication of telephone operation. The unit connects to a 120V 60 Hz supply.

The unit operates on 10-250V AC ringing voltage or 10-150V DC key voltage. Operation of the unit matches the ringing cycle of the telephone.

Bell hinges to the die cast back box housing for easy plug-in installation. Conduit is connected to the unit using the 3/4" (19mm) taps.

Features and Specifications

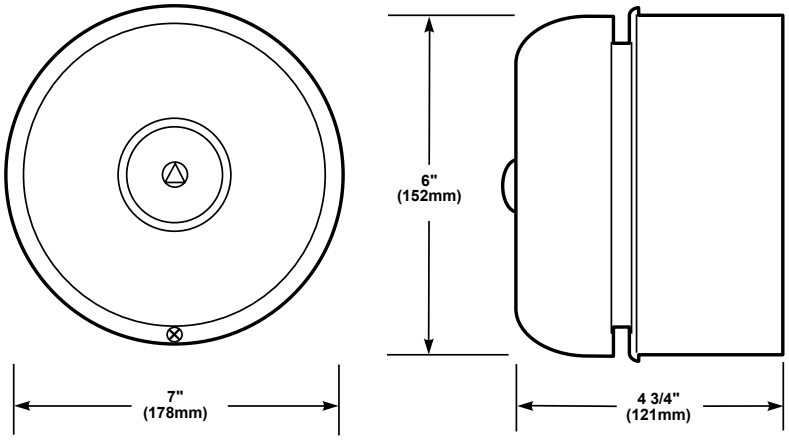
- Suitable for use in indoor and outdoor applications
- Solid state relay
- Completely self contained and gasket sealed
- Designed for POTS (plain old telephone service) operation
- 6" (152mm) chrome plated steel gong
- Low current draw

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	REN Number	dB at 1m/10ft.	Gong Size
Remote Phone Bell	**B-KBP-5060-N5**	10-250V AC	1.5B @ > 50V	102/92	6" (152mm)
		10-150V DC	3.4B @ < 50V		

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KBP-5060-N5	4.00	4.38



Phone Signals
Remote Phone Horn
B93 Class

The Edwards B-KHP-8010-N5 phone horn provides remote indication of telephone operation. The unit is powered by 120V 60 Hz and does not draw current on the phone circuit.

The unit is activated by a solid state, voltage sensing relay and responds to a 16-70 Hz ringing frequency. Operation of the unit matches the ringing cycle of the telephone.

Installs with three screws using the three external mounting lugs.

Features and Specifications

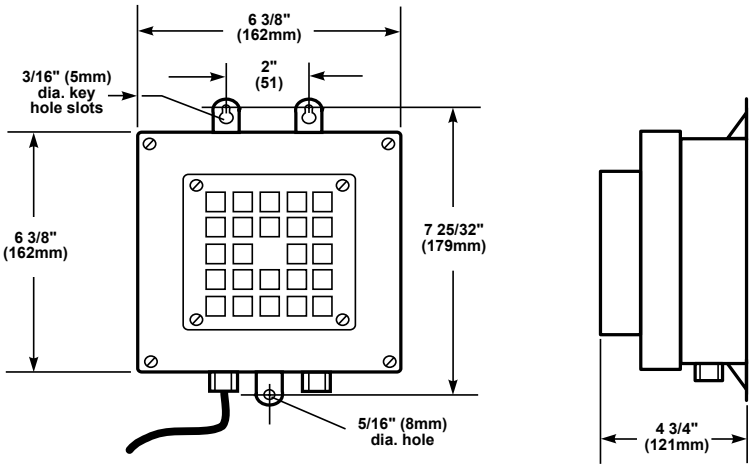
- Suitable for use in indoor applications
- Completely self-contained
- Polycarbonate injection molded housing
- Solid state relay
- Strain relief connectors for telephone line and 120V power cord
- Designed for POTS (plain old telephone service) operation
- AC or DC activation
- 6 foot (1.83m) power cord

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	REN Number	dB at 1m/10ft.
Remote Phone Horn	**B-KHP-8010-N5**	10-250V AC @ 10-70 Hz	1.5B @ > 50V	114/104
		10-150V DC	3.4B @ < 50V	

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KHP-8010-N5	2.66	3.11



Phone Signals
Remote Phone Horn
B93 Class

The Edwards B-KHS-1000-PP remote line powered phone horn operates on standard AC ringing voltage to provide remote audible indication of a ringing telephone. The unit has an injected molded housing and cover for security.

The unit matches the ringing cycle of the telephone.

The horn easily installs to the telephone using a modular telephone jack. The cord and jack are not supplied.

Features and Specifications

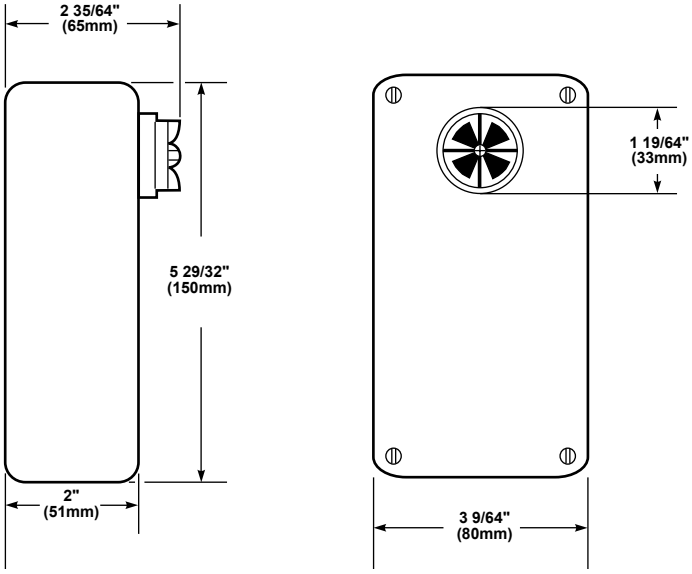
- Solid state circuitry
- Suitable for use in indoor applications
- Designed for POTS (plain old telephone service) operation
- Piezo horn - warble tone output; volume adjustable

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	dB at 1m/10ft.
Remote Phone Horn	**B-KHS-1000-PP**	85-115V AC	16 to 70 Hz	3.7B	98/88

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KHS-1000-PP	0.24	0.60



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Phone Signals
Remote Phone Strobe
B93 Class

The Edwards B-KHD-1000-PP remote line powered phone strobe operates on standard AC ringing voltage to provide remote visual indication of a ringing telephone. The unit has an injected molded housing and cover for security.

The unit matches the ringing cycle of the telephone.

The strobe easily installs to the telephone using a modular telephone jack. The cord and jack are not supplied.

Features and Specifications

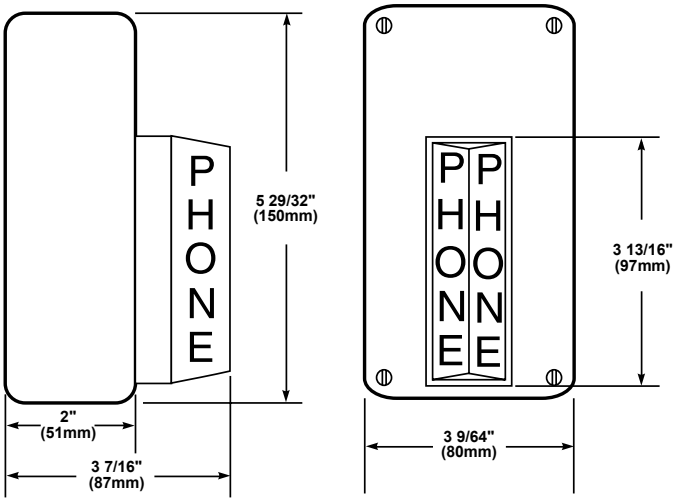
- Xenon strobe lamp
- Suitable for use in indoor applications
- Designed for POTS (plain old telephone service) operation
- Polycarbonate white translucent lens with black lettering
- Solid state circuitry

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	Strobe
Remote Phone Strobe	**B-KHD-1000-PP**	85-115V AC	16 to 70 Hz	3.7B	3-7 flashes per cycle

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KHD-1000-PP	0.45	0.60



AC XENON

Phone Signals
Remote Phone Horn/Strobe
B93 Class

The Edwards B-KHE-1000-PP remote line powered phone horn/strobe operates on standard AC ringing voltage to provide remote audible and visual indication of a ringing telephone. The unit has an injected molded housing and cover for security.

The unit matches the ringing cycle of the telephone. The horn/strobe easily installs to the telephone using a modular telephone jack. Cord and jack are not supplied.

Features and Specifications

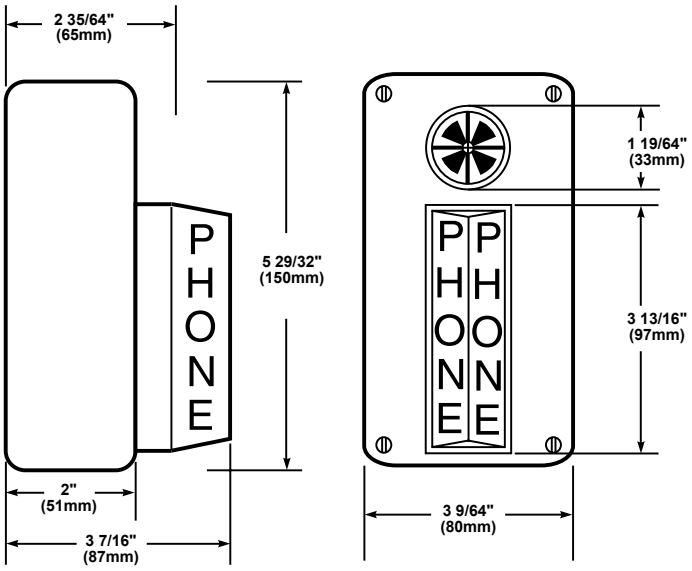
- Xenon strobe lamp
- Suitable for use in indoor applications
- Designed for POTS (plain old telephone service) operation
- Polycarbonate white translucent lens with black lettering
- Solid state circuitry
- Piezo horn - warble tone output; volume adjustable

Ordering Information

Description	Cat. No.	Telephone Activation Voltage	Ringing Frequency	REN Number	Strobe	dB at 1m/10ft.
Remote Phone/Horn Strobe	**B-KHE-1000-PP**	85-115V AC	16 to 70 Hz	3.7B	3-7 flashes per cycle	98/88

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
B-KHE-1000-PP	0.52	0.68



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Speakers and Speaker Assemblies
Speakers
5A Series

The 5A531 Loudspeaker is well suited for classrooms, offices, meeting rooms, paging and music systems, and most applications requiring a number of eight-inch loudspeakers. This model has a mounted transformer matching 25-volt lines and is tapped at ½ watts of power prior to shipment.

The 5A606 and 5A607 Speaker Assemblies are designed for use in small area music distribution, paging, and intercom systems. Model 5A607 features extended high frequency response, made possible by an additional cone.

Model 5A451 Loudspeaker is a dual voice-coil type designed to work with the 12A957 Emergency Audio Communication System. The second voice coil is provided specifically for that system's electronic supervision feature. The 12A957's trouble detection alarm will be triggered if either physical or electrical damage is done to the speakers.

Features and Specifications

5A531
- 8-inch loudspeaker and assembly with zinc-plated finish
- Efficient magnet structure
- Preassembled with transformer
- Standard EIA mounting dimensions

5A606
- Efficient magnetic structure
- Built for long and continuous use
- Cadmium-plated finish

5A607
- Low mounting profile
- Efficient magnet structure
- Additional cone for extended high frequency response
- Preassembled with transformer
- Standard EIA mounting dimensions
- Cadmium-plated finish

5A451
- Dual voice-coil 8" loudspeaker
- Low mounting profile
- Efficient magnetic structure
- Standard EIA mounting dimensions
- Cadmium-plated finish

5A531

5A607

5A606

Ordering Information

Description	Cat. No.	Wattage	Program Rating	Frequency	Flux Density	Axial Sensitivity	Voice Coil Impedance	Transformer Taps
Loudspeaker and Assembly	**5A531**	12W	24W	30-15,000 Hz	9800 lines/cm^2	97dB (1 m [3.3 ft]/1W)	8 Ohms	Capacity 4W; Primary 25V; Secondary 4, 2, 1, and 1/2W
Speaker Assembly	**5A606**	8W	12W	90-15,000 Hz	—	91dB at 1 m (3.3 ft) for 1W input	8 Ohms	Primary: 25V and 70V; Secondary: 1/2, 1, or 2W on the 25V; 1/2, 1, 2, or 4W on the 70V
Speaker Assembly	**5A607**	15W	25W	30-20,000 Hz	11,500 lines/cm^2	95dB (1 m [3.3 ft]/1W)	8 Ohms	Primary 25V: 1/2, 1, and 2W; Primary 70V: 1/2, 1, 2, and 4W; Secondary: 8 Ohms
Loudspeaker	**5A451**	10W	—	80-12,000 Hz	8500 lines/cm^2	92dB (1W @ 4 ft)	8 Ohms	—

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions		
		Speaker Diameter (in.)	Voice Coil Diameter (in.)	Depth (in.)
5A531	1.50	8	3/4	2 13/16
5A606	0.30 (magnet)	8	3/4	2 3/4
5A607	4.25; 0.63 (magnet)	8	1	3
5A451	1.31	8	3/4	2 7/8

Speakers and Speaker Assemblies
Re-Entrant Horn
5A30 Series

The Dukane Model 5A30 Re-entrant Horn offers medium level voice paging for indoor and outdoor applications in industrial warehouse areas, schools, and commercial buildings.

Features and Specifications

- Paging in high noise level areas
- Good intelligibility
- Vibration resistant
- Suitable for use in indoor and outdoor applications
- Beige baked epoxy finish
- Three-way adjustable mounting bracket
- Screw terminals with transparent cover and strain relief clamp
- Built-in 25-volt and 70-volt transformer with selector switch

Ordering Information

Description	Cat. No.	Power Rating	Frequency Response	Dispersion	Impedance	Sound Pressure
Re-entrant Horn	**5A30**	15W continuous	400Hz to 14,000Hz	115° at 1000Hz; 70° at 2000Hz; 40° at 4000Hz	5000, 2500, 1300, 666, 333, 89, 45 Ohms	120dB (peak) at 3.3' (1 m) on axis with 15W input; 116dB at 3.3' (1 m) (average) on axis with 15W input

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)	Dimensions		
			Width (in.)	Height (in.)	Depth (in.)
5A30	4.00	5.00	7 7/8	8 3/4	9 5/16

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Speakers and Speaker Assemblies
Speaker/Transformer Assembly
5A543 Series

The Dukane Model 5A543 Speaker/Transformer Assembly is designed for use where supervision of speaker wiring is required. The 5A543 is equipped with a DC-blocking capacitor for direct current end-of-line supervision.

Features and Specifications

- Capacitor for direct current “end-of-line” supervision
- Low mounting profile
- Standard EIA mounting dimensions
- Cadmium plated finish

Photo Not Available

Ordering Information

Description	Cat. No.	Operating Voltage	Frequency Range	Wattage	Voice Coil Impedance	Flux Density	Axial Sensitivity
Speaker/Transformer Assembly	**5A543**	25V or 70V	400 - 4000 Hz	4 watts	8 Ohms	8500 lines/cm^2	91dB @ 1 meter for 1 watt

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions	
		Overall Diameter (in.)	Depth (in.)
5A543	1.72	8.03	2.75

Speakers and Speaker Assemblies
Coaxial Loudspeaker
5A700 Series

Photo Not Available

The Dukane Model 5A700 is a multi-purpose 8-inch diameter, 16-watt coaxial loudspeaker for voice transmission, music and signal reproduction. It has a post-mounted tweeter, which adds strength to the assembly. A broad, uniform dispersion pattern of 120° provides highly intelligible sound reproduction and distribution for high-quality sound systems.

The 5A700 combines a full-size 8" (203 mm) diameter low-frequency reproducer and a 3" (76 mm) high-frequency reproducer. The two sections are coupled using a built-in crossover network. The 5A700 mounts to a wide variety of sound baffles and enclosures, with the optimum sealed enclosure size of 0.36 cu. ft.

Features and Specifications

- 70 Hz - 15.5 kHz, ±5dB frequency response
- 120° uniform dispersion pattern
- Woofer has 10 oz ceramic magnet
- Tweeter has 2.35 oz ceramic magnet
- Mounts to wide variety of sound baffles and enclosures

Ordering Information

Description	Cat. No.	Power Rating	Sensitivity (SPL at 1W/1m)	Impedance	Frequency Response	Crossover Frequency	Dispersion
Coaxial Loudspeaker	**5A700**	16 watts RMS	98dB (peak), 95dB (avg.)	8 ohms, nominal	70 Hz - 15.5 kHz (±5dB)	2800 Hz	120°

Physical Specifications

Description	
Cone Material	Treated paper
Basket Material	20 ga. stamped steel
Voice Coil Material	Copper
Voice Coil Former Material	Black anodized aluminum
Surround and Damping	Self-edge with Dampener
Flux Density	10,600 gauss, 1.06 tesla

Thiele-Small Parameters

Description	
Pe:	16 watts
Fs:	105 Hz
Xmax:	0.05 in. (1.2 mm)
Resistance:	6.4 ohms
Qts:	0.513
Qes:	0.556
Qms:	6.58
BL:	8.9 N/A
Efficiency:	2.9%
Vas:	0.507 cu. ft. (14,356.6 cc)
Sd:	33.1 cu. in. (542.4 cc)
Le@1kHz:	0.74 mH
Mms:	0.369 oz (10.5 g)
Cms:	0.039 in./lb (4.4 mJ)

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions				
		Diameter (in.)	Depth (in.)	Voice Coil Diameter (in.)	Voice Coil Winding Width(in.)	Top Plate Thickness (in.)
5A700	2.40	8.125	2.875	1	0.265	0.239
Magnet	0.63	—	—	—	—	—

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Speakers and Speaker Assemblies

High Plenum Sound Masking Speaker Assembly

6A530B

The Dukane Model 6A530B Background Sound Masking Speaker Assembly is specially designed and built for background sound masking systems. Two 8" flame-retardant speakers are mounted in an 0.8 cubic foot prism shaped enclosure which is constructed of 20 gauge steel. The 25 or 70.7 volt input is fed to an impedance matching transformer.

The bi-directional configuration of the speakers and prism shape of the enclosure provide for optimum angular dispersion of the masking sound. This unit is designed for high plenum areas in excess of 36 inches (.91 m). If the plenum height is 36 inches (.91 m) or less, Model 6A603 should be used. Wiring of the assembly can be altered for out-of-phase operation to provide an area of reduced sound pressure directly below the unit. In this mode of operation, the sound pressure level on the null will be at least 15 dB down from the on-axis pressure

Features and Specifications

- Adjustable polar pattern
- Flame retardant cone
- Variable power taps
- 20 gauge steel construction
- Flat black finish
- Pigtail terminations
- S-hook and chain mounting (chain not supplied with unit)

Ordering Information

Description	Cat. No.	Operating Voltage	Sensitivity
Sound Masking Speaker Assembly	**6A530B**	25V or 70V	96 dB average 1/3 octave readings between 200 and 4000 Hz at 1 meter and 0.5 watts/speaker.

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Length (in.)
6A530B	15.0	13	11.75	19

Speakers and Speaker Assemblies

Low Plenum Sound Masking Speaker Assembly

6A603

The Dukane Model 6A603 Sound Masking Speaker is designed for sound masking applications in shallow depth or limited plenum areas. Dual 5-inch (12.7 cm) high efficiency speakers are mounted on a folded aluminum baffle designed to maximize low frequency response from a minimum height installation dimension.

The 6A603 is not hampered by "hot spots" directly below the speaker units, since its design employs the bottom surface of the baffle as an acoustic shield.

This assembly is designed for use in areas where the plenum area height is 36 inches (91.4 cm) or less. If the plenum area exceeds this height, Model 6A530B should be used.

Features and Specifications

- Low frequency response
- Bidirectional sound
- Defined rectangular sound pattern
- Dual voltage transformer with variable power taps
- 9 ft. by 23 ft. rectangular response pattern (minimum of 200 $ft.^2$)
- S-hook and chain mounting (chain not supplied with unit)
- Natural aluminum finish

Ordering Information

Description	Cat. No.	Operating Voltage	Sensitivity
Sound Masking Speaker Assembly	**6A603**	25V or 70V	97.5dB at average 1/3 octave readings between 200Hz and 400Hz at 3.3" (1 m) and 0.5W/speaker

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Length (in.)
6A603	4.5	12	6	25

Speakers and Speaker Assemblies
Speaker Baffle Assembly
6A650

The Dukane Model 6A650 is a speaker, transformer, and speaker baffle assembly. The loudspeaker has an additional whizzer cone for extended high frequency response. The speaker baffle is constructed of steel. The assembly includes a dual voltage 70- and 25-volt matching transformer with taps of 1/2, 1, 2, and 4 watts at 70 volts, and 1/2, 1, and 2 watts at 25 volts.

Features and Specifications

- 8” seamless cone
- 25 and 70-Volt line operation
- Transformer taps: 1/2, 1, 2, and 4 watts at 70 volts; 1/2, 1, and 2 watts at 25 volts
- Cold-rolled steel speaker baffle with white epoxy finish
- Low mounting profile
- Additional whizzer cone for extended frequency response

Ordering Information

Description	Cat. No.	Operating Voltage	Frequency Range	Normal Wattage Rating	Power Rating	Impedance	Axial Sensitivity
Speaker Baffle Assembly	**6A650**	25V or 70V	30 - 20,000 Hz	15 watts	25 watts	8 ohms	95dB

Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Dimensions		
		Diameter (in.)	Depth (in.)	Voice Coil Diameter (in.)
6A650	2.75	12.875	3	1
Ceramic Magnet	0.63	—	—	—

Amplifiers and Sound Accessories

Audio Power Amplifier, 125 Watts

Model 1B3125

The 1B3125 Power Amplifier is rated at 125 Watts continuous (RMS) power and it contains circuitry for 24 Vdc backup. The Amplifier mounts in a standard 19 in (483mm) rack. Output voltage may be 25 or 70 VRMS. Supply voltage is 120/240 V, 50/60 Hz, or optionally 24-28 Vdc. The Amplifier contains electronic protection safeguards against overloads or shorted output. A thermal overload protection circuit is also included that opens the primary power circuit if the unit overheats. Both protection circuits are self-restoring. The system may incorporate a Standby Amplifier as a backup against any unit failure.

Features and Specifications

- 24 Vdc battery backup
- Broad frequency response
- Low distortion
- Thermal circuit breaker
- Electronic protection
- UL listed under standards 1711, 1480 and 813
- ULC listed

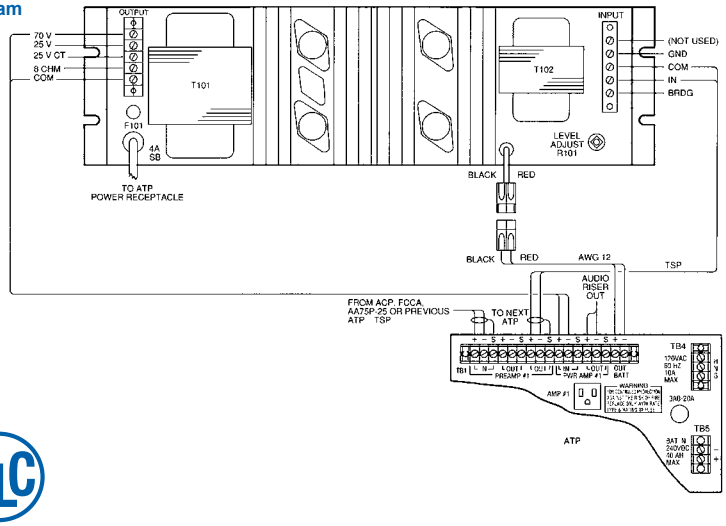
Specifications

Power Output	125 Watts continuous (RMS)
Harmonic Distortion	Less .5% 45 to 20 kHz at rated output
Frequency Response	20 to 20 kHz (+0, -1 dB) per EIA Standard SE 101-A
Signal to Noise Ratio	Greater than -90 dB below rated output (20 to 20 kHz bandwidth)
Input Sensitivity	1 VRMS at 1 kHz for rated output
Input Impedance	75 kOhm
Output Load (Voltage)	75 kOhm (70.7 V) balanced 2.5 kOhm (25 V) balanced 25 V center tap 8 Ohm (31.6 V) balanced
Output Regulation	Better than 1 dB, zero load to full load
Controls	Input level control, rear panel
Terminations	Screw terminal strips, barriers on output
Indicators	LED power, LED Thermal Overload
Power Source	120/240 Volts, 50/60 Hz; 24-28 Vdc
AC Power Required	3.0 Amps (120 V)/ 1.5 Amps (240 V), 0.22 Amps at idle
DC Power Required	11.5 Amps at rated output
Fuse	4 Amp, slow blow; 15 Amp (DC)
Finish	Charcoal, baked enamel
Dimensions	5-1/4 in (133mm) high, 19 in (483mm) wide, 6-5/8 in (168mm) deep

Ordering Information

Catalog Number	Description	Shipping Weight
1B3125	Audio Power Amplifier, 125 Watts	22.5 lbs (10.1 kg)

Connection Diagram



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Amplifiers and Sound Accessories

Audio Power Amplifier, 250 Watts

Model 1B3250

Photo Not Available

The 1B3250 Power Amplifier is rated at 250 Watts continuous (RMS) power and it contains circuitry for 24 Vdc backup. The Amplifier mounts in a standard 19 in (483mm) rack. Output voltage may be 25 or 70 VRMS. Supply voltage is 120/240 V, 50/60 Hz, or optionally 24-28 Vdc. The Amplifier contains electronic protection safeguards against overloads or shorted output. A thermal overload protection circuit is also included that opens the primary power circuit if the unit overheats. Both protection circuits are self-restoring. The system may incorporate a Standby Amplifier as a backup against any unit failure.

Features and Specifications

- 24 Vdc battery backup
- Broad frequency response
- Low distortion
- Thermal circuit breaker
- Electronic protection
- UL listed under standards 1711,1480, and 813
- ULC listed

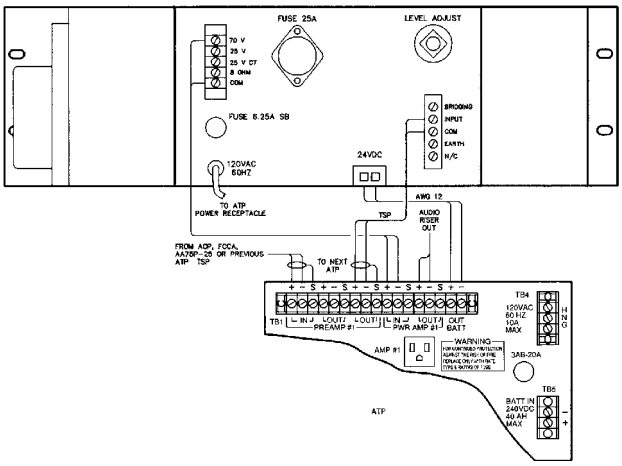
Specifications

Power Output	250 Watts continuous (RMS)
Harmonic Distortion	Less than .5% 45 to 20 kHz at rated output
Frequency Response	20 to 20 kHz (+0, -1 dB) per EIA Standard SE-101-A
Signal to Noise Ratio	Greater than -90 dB below rated output (20 to 20 kHz bandwidth)
Input Sensitivity	1 VRMS at 1 kHz for rated output
Input Impedance	75k Ohms
Output Load (Voltage)	40 Ohms (70.7 V) balanced 2.5 Ohms (25V) balanced 25V center tap 8 Ohms (31.6 V) balanced
Output Regulation	Better than 1 dB, zero load to full load
Controls	Input level control, rear panel
Terminations	Screw terminal strips, barriers on output
Indicators	LED power, LED Thermal Overload
Power Source	120/240 Volts, 50/60 Hz; 24-28 Vdc
AC Power Required	5.8 Amps (120 V) / 2.9 Amps (240 V), 0.22 Amps at idle
DC Power Required	22.0 Amps at rated output
Fuse	6.25 Amp, slow blow; 25 Amp (DC)
Finish	Charcoal, baked enamel
Dimensions	5-1/4 in (133mm) high, 19 in (483mm) wide, 15 in (381 mm) deep

Ordering Information

Catalog Number	Description	Shipping Weight
1B3250	Audio Power Amplifier, 250 Watts	50 lbs (22.5 kg)

Connection Diagram



Amplifiers and Sound Accessories

Audio Power Amplifier

Model 1A4060, 1A4125, 1A4250

The Model 1A4xxx Power Amplifier is rated at 60, 125, or 250 watts (rms), depending on the model. They mount in a standard 19-inch (48.3 cm) wide equipment rack and can be shipped mounted in a rack. These amplifiers can be used in sound reinforcement, general paging, and school communication systems applications. They are UL 813 listed.

Features and Specifications

- Broad frequency response
- Low distortion
- Dual independent electronic protection circuits
- Self-resetting heat sink thermal circuit breaker (1A4060, 1A4125)
- Self-resetting power transformer thermal circuit breaker (1A4060, 1A4125)
- Self-resetting thermal cutouts (1A4250)
- Transformer and direct coupled outputs (1A4250)
- UL 813 listed

Specifications	
1A4060 Power Amplifier	
Power Output	60 watts (rms)
Frequency Response (@ 9dB below rated output[1])	20Hz to 20kHz (+0/–1dB)
Power Response	45Hz to 20kHz, +0/–1dB (0dB = 60 watts), THD 0.5%
Harmonic Distortion	0.5%, 45Hz to 20kHz (bandwidth limited 20Hz to 30kHz) @ 1kHz at rated output (THD typically <0.05%)
Signal-to-noise Ratio	Better than 96dB below rated output
Input Sensitivity	0.5V (rms) at 1kHz for rated output
Input Impedance	20k Ohms
Outputs (All fully transformer isolated)	70.7V (83 Ohms) 25V (10 Ohms) balanced 25V center tap 8 Ohms (22V)
Output Regulation (no load to full load voltage change)	Better than 1dB
Control	Rear panel input level control
Terminations	Screw terminal strips (w/ barriers and wire capture plates on outputs)
Indicator	Power-on LED
Power Source	120Vac, 60Hz
AC Power Required	1.4A (120Vac) at rated output 0.18A at idle
Fuse	1.5A, slow-blow
Finish	Baked charcoal enamel
Dimensions	5-1/4" (13.3 cm) high, 19" (48.3 cm) wide, 6-1/4" (15.9 cm) deep

[1]Per EIA Standard

Specifications Continued	
1A4125 Power Amplifier	
Power Output	125 watts (rms)
Frequency Response (@ 9dB below rated output[1])	20Hz to 20kHz (+0/–1dB)
Power Response	45Hz to 20kHz, +0/–1dB (0dB = 125 watts), THD 0.5%
Harmonic Distortion	0.5%, 45Hz to 20kHz (bandwidth limited 20Hz to 30kHz) @ 1kHz at rated output (THD typically <0.05%)
Signal-to-noise Ratio	Better than 92dB below rated output
Input Sensitivity	0.5V (rms) at 1kHz for rated output
Input Impedance	20k Ohms
Outputs (All fully transformer isolated)	70.7V (40W) 25V (5W) balanced 25V center tap 8 Ohms (31.6V)
Output Regulation (no load to full load voltage change)	Better than 1dB
Control	Rear panel input level control
Terminations	Screw terminal strips (w/ barriers and wire capture plates on outputs)
Indicator	Power-on LED
Power Source	120Vac, 60Hz
AC Power Required	2.8A (120Vac) at rated output 0.22A at idle
Fuse	3A, slow-blow
Finish	Baked charcoal enamel
Dimensions	5-1/4" (13.3 cm) high, 19" (48.3 cm) wide, 6-1/4" (15.9 cm) deep
Net Weight	17 pounds (7.7 kg)

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Amplifiers and Sound Accessories
Audio Power Amplifier
Model 1A4060, 1A4125, 1A4250

Specifications	Continued
1A4250 Power Amplifier	
Power Output	Transformer output: 250W (rms) Direct coupled output: 280W (rms)
Frequency Response (@ 9dB below rated output per EIA standard SE-101A)	20Hz to 20kHz (+0/–1dB) for both transformer and direct outputs
Power Response	Transformer output: 45Hz to 20kHz, +0/–1dB (0dB = 250 watts), THD 0.5% Direct coupled output: 20Hz to 20kHz, +0/–1dB (0dB = 280 watts), THD 0.5%
Harmonic Distortion	0.5%, 45Hz to 20kHz (bandwidth limited 20Hz to 30kHz) THD typically <0.05% at rated output @ 1kHz
Signal-to-noise Ratio (20Hz to 20kHz bandwidth)	Better than 96dB below rated output
Input Sensitivity	0.5V (rms) at 1kHz for rated output
Input Impedance	20k Ohms
Outputs	70.7V (20 Ohms), transformer isolated 25V (2.5 Ohms), balanced, transformer isolated 25V center tap, transformer isolated 4 Ohms (33.5V), direct coupled
Output Regulation (no load to full load voltage change)	Better than 1dB
Control	Rear panel input level control
Terminations	Screw terminal strips (with barriers and wire capture plates on outputs)
Indicators	Power-on LED Thermal overload LED
Power Source	120Vac, 60Hz
AC Power Required	4.9A (120Vac) at rated output 0.27A at idle
Fuse	5A, slow-blow
Finish	Charcoal-colored baked enamel
Dimensions	5-1/4" (13.3 cm) high by 19" (48.3 cm) wide and 13" (33 cm) deep
Net Weight	38 pounds (17.1 kg)

Ordering Information

Model	Description
1A4060	Power Amplifier , 60 watts
1A4125	Power Amplifier, 125 watts
1A4250	Power Amplifier, 250 watts

Amplifiers and Sound Accessories
Multitone Generator
Model 15A266B

Model 15A266B Multitone Generator supplies additional tone types, including chime. It attaches to the rear panel of the console.

Features and Specifications

- Built-in tone generator with seven tone types

Photo Not Available

Specifications	
Rated Output	1Vrms nominal
Output Load	10k Ohm or greater
Power Required	12 or 24Vdc selectable, 30mA
Controls	Output level control and pitch control
Dimensions	5-1/2 in (14 cm) high, 4-1/4 in (10.8 cm) wide and 1-1/2 in (3.8 cm) deep
Finish	Charcoal-colored, baked enamel
Terminations	Feed-through, screw-type terminal block

Ordering Information	
Catalog Number	**Description**
15A266B	Multitone Generator

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Amplifiers and Sound Accessories
Power Supplies
Models 17A365, 17A437

Photo Not Available

17A365 Regulated DC Power Supply

The Model 17A365 Regulated DC Power Supply is a rack-mounted, regulated DC power supply that operates from a 105 - 125Vac primary source, and provides 24Vdc at 3.2 amps with overload protection. Operating under an electronic foldback principle, the output is self-restoring when the overload or short condition is removed.

17A437 Power Supply

The Model 17A437 Power Supply is designed to be used with the Model 1A881 Remote Microphone Preamplifier, 2A68A Mixer/Preamplifier, 2A95 Line Amplifier, and the 15A266A Multi-Tone Generator. It is a compact plug-in DC power supply, intended for use where 24Vdc (nominal) at 80mA maximum is required. It comes with a 6-foot (1.8 m) cord.

Features and Specifications

17A365 Regulated DC Power Supply

- Continuous duty operation
- Regulated 24Vdc @ 3.2A
- Wide input voltage range
- Electronic foldback output protection
- Standard rack mounting

17A437 Power Supply

- Convenient plug-in construction
- Underwriters' Laboratories listed

Specifications

17A365 Regulated DC Power Supply	
Rated	24Vdc at 3.2A
Output dimensions	3-1/2" (8.9 cm) high, 19" (48.3 cm) wide, 5-1/2" (14.0 cm) deep
Power required	105Vac to 125Vac, 50/60Hz at 170W nominal
Net weight	12 pounds (5.4 kg)
Regulation	Less than 2%
Finish	Charcoal-colored, baked enamel
Ripple	Less than 10mV (rms)
Terminations	Screw terminals
17A437 Power Supply	
Output voltage	24Vdc +/–1V
Input voltage	120Vac, 60Hz
Output current	80mA
Output cord	6' (1.8 m) long +/–1" (2.5 cm) strip, with 1/2" (1.3 cm) tin ends
No load voltage output	32Vdc maximum
Cord polarity	Positive: black/white or equivalent; Negative: black
Ripple	120mVac +/–10%, with 300 Ohm load
Net weight	8 oz (227 g)

Ordering Information

Catalog Number	Description
17A365	Regulated DC Power Supply
17A437	Power Supply

Amplifiers and Sound Accessories
Microphone
7A766

The Edwards Model 7A766 Touch-To-Talk Microphone and Stand is a desk unit ideal for paging and communications in applications such as bowling lanes, restaurants, schools, and dispatching operations. The microphone has an on/off switch operated via a fingertip control bar that provides momentary or locking switch operation. For momentary operation, press the bar and pull it forward. Moving the bar back and releasing it unlocks the switch. The on/off switch includes a set of contacts prewired for remote relay operation. The height of the microphone is adjustable and it is made of high impact ARMO-DUR® which will not crack, peel, rust, or dent. The microphone can be used in high or low impedance applications and has a switch on the underside of the base for selecting the impedance required.

Features and Specifications

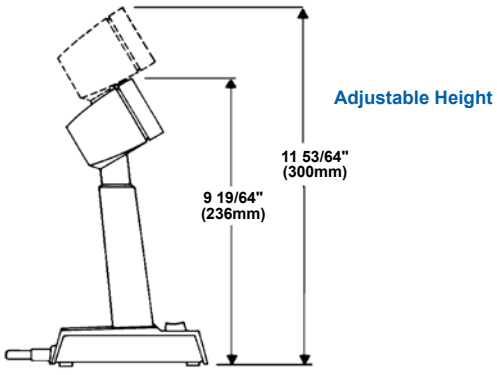
- Dual impedance with selector switch
- Adjustable microphone height
- ARMO-DUR® base and microphone case
- Fingertip control bar-locking or non-locking action

Specifications

Type	Controlled Magnetic
Switch Circuits	Microphone: normally closed Relay: normally open
Polar Pattern	Omni-directional
Dimensions	9-19/64” (23.6 cm) high, 4” (10.2 cm) wide, 5-11/16” (14.4 cm) deep; 11-53/64” (30 cm) high when fully extended
Frequency Range	200Hz to 5,000Hz
Finish	Two-tone gray ARMO-DUR
Impedance	225 Ohms or high
Net Weight	1 lb 10 oz. (736 g)
Output Level (At 1000hz)	Open Circuit Voltage: 0.14mV (–77.0dB) low impedance 1.78mV (–55.0dB) high impedance (0dB = 1 volt per microbar)
Shipping Weight	2 lb 4 oz (1,020 g)
Controls	Touch-to-talk control bar with lock-on operation, wired for remote relay operation; high/low impedance selector switch
Termination	7’ (2.1 m) cable (four conductor, two shielded), non-detachable

Ordering Information

Catalog Number	Description
7A766	Touch-to-talk Microphone And Stand



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Amplifiers and Sound Accessories
Paging Monitor and Relay Equipment
Model 9A1687, 9A1685B, 9A1535

9A1687 Amplified Monitor Panel
The Edwards Model 9A1687 Amplified Monitor Panel provides facilities for both aural and visual monitoring of up to 12 channels of 1V, 25V and 70V line level signals. The LED level display allows the level of the line being monitored to be accurately adjusted or checked. The monitor speaker provides an aural reproduction of the program material being monitored.

9A1685B Monitor Panel
The 9A1685B Monitor Panel allows aural and visual monitoring of 25V or 70V output sources. The VU meter provides visual monitoring of the output level, while the speaker provides an audio reproduction of the program material being monitored. The monitor panel allows dual channel monitoring. When used in association with the Model 4A1445 Universal Selector Panel, it also allows multi-output monitoring.

9A1535 Zone Relay Panel
The Edwards Model 9A1535 Zone Relay Panel is a custom switching panel which may be expanded from 1 relay circuit to 10 relay circuits. Each relay module is a four-pole, double-throw type with contacts rated for 3 amps at 28Vdc or 115Vac. The flexibility of the relay panel design allows its use in various functions such as zone switching, amplifier substitution, and system control.

Features and Specifications

9A1687 Amplified Monitor Panel
- Accommodates Up to 12 Inputs
- Monitors 1 V, 25 V or 70 V lines
- Aural and Visual Monitoring
- Color-Coded, Calibrated LED Level Display
- Protective Polycarbonate Panel Overlay
- Rack-Mount or Table-Top

9A1685B Monitor Panel
- Protective Polycarbonate Panel Overlay
- Easy-to-Read VU Meter
- 25 or 70 Volt Output Monitoring
- Allows Aural and Visual Monitoring

9A1535 Zone Relay Panel
- Easy Expandability
- Multi-Purpose
- Precious Metal Relay Contacts
- Long-Life Relays

Specifications

9A1687 Amplified Monitor Panel	
Amplifier Power	3 watts
Adjacent Channel Crosstalk	+/- 60dB
Input Impedance	1V: plus or minus 10K Ohms 25V: plus or minus 100K Ohms 70V: plus or minus 280K Ohms
Level Indicator	10-segment LED display Display range: -21 dB to +6 dB in 3 dB segments Calibrated to display 0 dB when: 1 Vrms applied to 1 V input 10 Vrms applied to 25 V input 28 Vrms applied to 70 V input
Controls	Lighted power switch Monitor speaker volume control 12-position rotary program selection switch
Speaker	3” (7.6 cm) by 5” (12.7 cm) oval w/ 2.35 oz. ceramic magnet
Convenience Outlet	500 watts maximum
Terminations	Screw type
Power Requirements	120 Vac, 60 Hz, 17 watts maximum, 6 watts standby
Dimensions	3-1/2” (8.9 cm) high x 19” (48.26 cm) wide x 9-1/2” (6.35 cm) deep
Finish	Cover: Textured, charcoal-colored baked enamel Chassis: Charcoal, baked enamel Front: Gray polycarbonate panel overlay
Weight	11 pounds, 7 ounces (5.1 kg)

Specifications	Continued
9A1685B Monitor Panel	
Function	Visual and aural monitoring of 25V and 70V speaker lines
Controls	Monitor speaker volume control Concealed meter calibration control Program selection switch
Speaker	4-1/2” (11.4 cm) by 2-1/2” (6.4 cm) oval speaker
Terminations	Screw terminals
Dimensions	3-1/2” (8.9 cm) high, 19” (48.3 cm) wide, 3-1/2” (8.9 cm) deep
Weight	3 lb, 2 oz (1.4 kg)
Finish	Charcoal-colored, baked enamel with protective polycarbonate panel overlay
9A1535 Zone Relay Panel	
Power Required	40mA at 24Vdc for each 110-1533 Relay Module
Capacity	One to ten relay circuits
Terminations	Screw terminals
Finish	Charcoal-colored baked enamel
Dimensions	3-1/2” (8.9 cm) high by 19” (48.3 cm) wide and 7-3/4” (19.6 cm) deep
Net Weight	6 lb, 7 oz (2.9 kg)
Subassemblies	110-1551 Control Chassis, 110-1533 Relay Module (one relay per module)

Ordering Information

Catalog Number	Description
9A1687	Amplified Monitor Panel
9A1685B	Monitor Panel
9A1535-1 to -10	Zone Relay Panel (must specify # of relays up to 10)

Amplifiers and Sound Accessories

AM-FM Tuner/CD and MP3 Player with Mixer/PreAmp

RCD350P

Dukane AM-FM Tuner/CD and MP3 Player with Mixer/PreAmp is an auxiliary music and sound source for paging and intercom systems. It can be installed in a standard 19 inch rack or as a desktop unit by removing the rack mounting hardware.

Features and Specifications

CD Player

- Supports most common CD audio formats: including CD, MP3 and WMA
- Aux stereo input jack (3.5 mm) allows for play-back of MP3 devices and their pre-recorded music or announcements
- Three-band equalizer with six preset tone curves
- Single line text LCD display with 8-character text
- MP3 ID3 Tag Display (Title, Artist, Album)- shows tuner band, elapsed playback time, track number, type of disc, (when repeat play and local seek tuning are activated) - displays time when not in use
- Remote control for tuner included

Mixer/Preamp Unit

- Priority enable circuit
- Two low Z microphone inputs
- Two AUX inputs
- One bridge input

Specifications

Tuners	
AM Tuner	Frequency range selectivity: 530kHz to 1710kHz 40dB (+/–10kHz) Maximum sensitivity: 14dB/mV (5mV at 0.5W)
FM Tuner	Frequency range alternate channel selectivity: 87.9MHz to 107.9MHz 75dB Usable sensitivity stereo separation: 15.2dBf (1.6mV, 75W) 35dB at 1,000Hz 50dB quieting sensitivity image response ratio: 17.2dBf (2.0mV, 75W) 50dB Frequency response if response ratio: +/– 3dB 30Hz–15,000Hz 100dB Capture ratio signal-to-noise ratio: 1.5dB 70dB
CD Player	
WMA (.wma)	Encoded by Windows Media Player Bit rate: 48 Kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
WAV (.wav)	Compatible format: Linear PMC (LPCM). MS ADPCM Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM) Sampling frequency: 16 kHZto 48 kHZ (LPCM), 22.05 kHz and 44.1 kHz (MS ADPCM)
MP3 (.mp3)	Bit rate 8 kbps to 320 kbps Sampling frequency: 16 kHz to 48 kHz (32,44,1,48 kHz for emphasis) Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3, 2.4 (ID3 Tag Version 2.x is given priority over Version 1.x; M3u playlist: No; MP3i (MP3 interactive), mp3 PRO: No
Disc	Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers) Playable folders: up to 99; Playable files: up to 999 File systems: ISO 9660 Level 1 and 2, Romeo, Joliet Multi-session playback: Yes; Packet write data transfer: No; Regardless of the length of blank section between the songs of the original recording, compressed audio discs play with a short pause between songs.

Amplifiers and Sound Accessories
AM-FM Tuner/CD and MP3 Player with Mixer/PreAmp
RCD350P

Specifications	Continued
Overall Data	
Power requirements	+12Vdc, 700mA maximum
Inputs	2 low-impedance microphones, 2 auxiliary inputs, built-in AM/FM/CD/MP3 Player
Audio line output	3Vrms maximum
Controls (front)	POWER on/off switch, MASTER volume control, MONITOR speaker volume, control, 5 source selector/mixer bank
Controls (AM-FM tuner/ CD Player)	Function, EQ/Loud, SCR/Off, Station Program Buttons (6). Eject (CD), Audio, Clock set, Disp/SCRL, Band/ESC, Curser ControlScan; Tuning (manual or preset, five AM and ten FM preset stations available)
Controls (rear)	5 source preset input level adjustments, 1 monitor preset level adjustment, 1 bar graph level adjustment
Indicators/displays	Master Power LED; Preamp output level bar graph
Terminations	Preamp out (screw terminal); Power (screw terminal); AUX (RCA pin jack); MIC input (screw terminal); Bridge (RCA pin jack); Priority Enable Input and Output (screw terminal); Antenna (F-81C female for RG59 coaxial cable, 75 ohms)
Housing	Metal rack mount panel finished in textured charcoal-colored powdercoat. Can be converted to tabletop.
Dimensions	19" (48.3 cm) wide x 3.5" (8.9 cm) high x 10.25" (26 cm) deep When used as a table top configuration, the dimensions are: 14" (36 cm) wide x 2.75" (7 cm) high x 10.25" (26 cm) deep
Antenna termination	F-81C female for RG59 coax cable 75 Ω
Wiring Preamp out	Twisted pair, 22 AWG min.

Ordering Information

Model	Description	Weight
RCD350P	Rack mount AM/FM Tuner/CD Player and MP3 Player with pre amp, Includes RCD-PS Power Supply.	11.7 lb (5.3 kg)
RCD-RA	Replacement rackmount adapter kit	
RCD-PS	Replacement +12VDC power supply	

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Amplifiers and Sound Accessories
Preamps and Preamp Mixers
2A37, 2A40, 2A45, 2A68A, 2A96A

2A40 and 2A45 Preamps
The Edwards Model 2A40 Dual Stereo Summing Input Module provides auxiliary level inputs to any Edwards modular audio component from two stereo sources (left and right). The Edwards Model 2A45 Dual Input Module is a dual input, dual level, auxiliary input module, and provides selectable gain (1V or 0.1V) on each input.

2A96A Mixer-Preamplifier
The Edwards Mixer/Preamplifier Model 2A96A has the capacity of accepting eight program inputs (four Edwards Input Modules) and a bridging input. The Mixer/Preamplifier has the latest circuit technology to maintain low distortion (THD) and signal-to-noise ratio. Dual, single-ended outputs can be converted into an active, balanced output. The dual outputs are desirable for driving individual channel amplifiers. The Mixer/Preamplifier allows for priority muting.

The unit's mounting brackets can be removed for table-top mounting in a finished enclosure. The Mixer/Preamplifier has eight individual level controls, bass and treble controls, master volume control, lighted AC power switch and a tone control bypass switch.

2A68A Remote Powered Mixer-Preamplifier
The 2A68A Remote Powered Mixer-Preamplifier provides facilities for two low Z microphone inputs, one auxiliary input, and a bridging input. The microphone inputs are transformer-coupled, and the unit is protected from radio frequency interference. The panel provides a single-ended audio output of 1Vrms (nominal) and is powered by a remote DC power supply with a minimum capacity of 50mA. The controls include individual microphone level controls, an auxiliary fader control, bass and treble controls, and a master volume control.

Features and Specifications

2A37 Input Module
- Excellent frequency response
- Dual input module
- Selectable inputs
- Low frequency roll-off

2A40 Dual Stereo Summing Input Module
- Excellent frequency response
- Dual stereo inputs

2A45 Dual Input Module
- Selectable gain
- Excellent frequency response
- Dual input module

2A96A Mixer-Preamplifier
- Modular Concept
- Master/Slave Architecture
- Low Distortion and Noise
- Priority Muting
- Protective Polycarbonate Panel Overlay
- Color-Coded, Calibrated LED Level Display
- Rack Mount or Table-Top

2A68A Remote Powered Mixer-preamplifier
- Low distortion and noise
- Transformer-coupled microphone inputs
- Protected from radio frequency interference
- DC Powered

Specifications

Preamps	
Model 2A37	
Microphone Gain (nominal)	45dB
Inputs	Two selectable microphone/auxiliary
Input Sensitivity	Microphone input: 300 microvolts Auxiliary input: 0.1V or 1V
Input Terminations	Screw terminals for microphones, RCA pin jacks for auxiliary
Frequency Response	20Hz to 20,000Hz, +/–1dB
Signal-to-noise Ratio	Microphones: +/- 60dB Auxiliaries: +/- 65dB
Source Impedance	Microphone: 150 Ohms to 200 Ohms, transformer-isolated Auxiliary: 10k Ohms
Selectable Frequency Roll-off	Flat or 320Hz at 6dB/octave roll-off
DC Power/Current	+/–15Vdc @ 10mA
Switches	Two input selection, two low-frequency roll-off
Dimensions	3" (7.6 cm) wide by 3" (7.6 cm) high and 5-1/4" (13.4 cm) deep
Weight	10.5 oz (297.7 g)
Finish	Charcoal-gray baked enamel on faceplate
Load Impedance	10k Ohms

Specifications Continued

2A40 Dual Stereo Summing Input Module	
Input Sensitivity	500mV
Frequency Response	20Hz–20kHz, +/- 1dB
Inputs	input 1 left / right, input 2 left / right
Input Termination	RCA phono jack
Signal-to-noise	75dB, (20Hz–20kHz band limiting)
Ratio Power Requirement	+/- 15Vdc @ 10mA
Input Impedance	100k Ohms
Dimensions	2.8" (7.1 cm) high x 2.9" (7.4 cm) wide x 4.8" (12.2 cm) deep
Weight	12.5 ounces (354 g)
Controls	None
Finish	Charcoal gray faceplate

Amplifiers and Sound Accessories
Preamps and Preamp Mixers
2A37, 2A40, 2A45, 2A68A, 2A96A

Specifications Continued

2A45 Dual Input Module

Inputs	Inputs 1 and 2: Dual Level Aux
DC Power Circuit	+/–15Vdc @ 10mA
Input Sensitivity	0.1V or 1V
Dimensions	3” (7.6 cm) wide by 3” (7.6 cm) high by 5-1/4” (13.3 cm)
Frequency Response	20Hz–20kHz (+/–1dB)
Weight	12.5 oz (354 g)
Signal-to-noise Ratio	0.1V Aux: ≥ 75dB 1V Aux: ≥ 75dB Bandwidth limited 20Hz–20kHz
Finish	Charcoal-gray baked enamel on faceplate
Source Impedance	Auxiliary: 10k Ohms
Load Impedance	5k Ohms
Input Termination	Auxiliaries: Screw terminals

2A96A Mixer-Preamplifier

Rated Output	Dual single-ended outputs, 6Vrms (+18.0dBm). Active balanced output, 12Vrms (+24dBm)
Output Load Impedance	600 ohms or greater, single-ended or balanced
Frequency Response	+/—1/2dB, 20Hz to 20,000Hz (tone controls flat)
Distortion	Less than 0.50%, 20Hz to 20,000Hz
Sensitivity	(Dependent on input module) Typical: Microphone = 300mV (Lo Z) Auxiliaries = 0.1V/1V
Noise Level	MICROPHONE: Greater than —60dB AUXILIARY: Greater than —65dB MASTER CONTROL OFF: Greater than —85dB
Input Impedance	Bridging = Approximately 6k ohms (Dependent On Input Module)
Tone Controls	+/—10dB (Boost and Cut). Bass @ 100Hz. Treble @ 10,000Hz.
Muting	Inputs 3 through 8 muted. “Master/Slave” allows all inputs muted Greater than 50dB
Controls	Eight Input level controls Bass and treble controls Master volume control Lighted power switch Tone control bypass switch (rear)
Power Requirements	120Vac, 60Hz, 6 watts
Temperature Range	-10° C to +60° C (12° F to 140° F)

Specifications Continued

2A96A Mixer-Preamplifier

Terminations	RCA phono jacks (master/slave, output 1, output 2, and bridging). Screw terminals (mixer outputs and muting)
Dimensions	3-1/2" (8.9 cm) high x 19" (48.3 cm) wide x 11" (27.9 cm) deep Desktop mounting (mounting brackets removed)
Weight	12 pounds (5.44 kg)
Finish	Cover: Textured, charcoal-colored baked enamel Chassis: Charcoal, baked enamel Front: Gray polycarbonate panel overlay
Associated Equipment	2A Series Edwards Input Modules 2A37, 2A40 and 2A45 input Modules.

2A68A Remote Powered Mixer-preamplifier Panel

Rated Output	Maximum +18dBm (600 Ohms load, single-ended) Nominal 1Vrms (+2dBm)
Distortion	Less than 0.25%, 20Hz to 20,000Hz
Frequency Response	+/–1dB, 20Hz to 20,000Hz (tone controls flat)
Sensitivity	Microphone: 0.25mV; Auxiliary: 0.1Vrms
Noise Level	Microphone: better than –63dBv (@ –67dBv input, BW 20,000Hz) Auxiliary: better than –75dBv (@ 0.1Vrms input, BW 20,000Hz) Master control off, –85dBv (@ nominal output)
Input Impedance	Microphone: 200 Ohms or less (for source impedances of 250W or less), balanced input Auxiliary: 100k Ohms (minimum), single-ended Bridging input: 100,000 Ohms (minimum), single-ended
Load Impedance	600 Ohms or greater, single-ended
Tone Controls	+/–12dB (boost and cut) bass 50Hz, treble 10,000Hz
Power Requirements	24Vdc to 30Vdc, 50mA
Dimensions	1-3/4” (4.5 cm) high, 19” (48.3 cm) wide, 8-1/2” (21.6 cm) deep
Finish	Charcoal-colored, baked enamel
Connections	Screw terminals and RCA phono jacks at rear of panel

Associated Equipment

17A437	Power Supply
438-407	Dual Microphone Adder Kit

Ordering Information

Model	Description
2A37	Dual Input Module with selection switch for low frequency roll-offs
2A40	Dual Stereo Summing Input Module
2A45	Dual Input Module with selectable gain
2A96A	Mixer/Preamplifier
2A68A	Remote Powered Mixer-preamplifier Panel
3A230	Bridging Transformer
17A437	Power Supply
438-407	Dual Microphone Kit

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Amplifiers and Sound Accessories
Graphic Equalizer
3A242A

The Edwards Model 3A242A One-Third Octave Graphic Equalizer has 31 active filters at the ISO frequencies from 20Hz to 20,000Hz, with "Constant Q" filtering. The 31 slide potentiometers control each individual frequency band through a range of plus and minus 12dB. Grounded, detented center-tap positions on each level control assure positive flat position of each filter section. Adjustable high and low pass shelving filters are continuously variable. The equalizer has a frequency response of +/—0.5dB and distortion of less than 0.1% @ 1Vrms with all filter controls flat.

The unit's balanced low impedance output is capable of 6Vrms (+18.0dBm) and has a nominal output of 1Vrms (+3.0dBm) into 600 ohms or greater load impedance. A 10-segment, calibrated LED display facilitates monitoring of the equalizer output level.

A lighted front panel power switch allows the input and output to be tied together to allow a fail-safe bypass circuit when the switch is OFF. A front panel equalizer bypass switch also allows for equalizer bypass with power ON. The equalizer fits a standard 19" (48.3 cm) mounting enclosure.

The optional Edwards Model 110-1976A pink noise generator can be mounted internally for use as a sound masking generator or a noise source for the equalization process.

Features and Specifications

- Constant Q topology
- Precision, center-tapped, slide attenuators
- Adjustable high/low shelving filters
- 12 dB cut or boost
- Color-coded, calibrated LED display

Specifications

3A242A One-third Octave Graphic Equalizer	
Input Impedance	Greater than 15,000 Ohms
Output Impedance	Approximately 100 Ohms
Gain	Unity gain (+/—1dB), filters off
Frequency Response	20Hz to 20kHz, +/—1/2dB
Distortion	Less than 0.1% @ 1Vrms, all filter controls @ 0
Noise	Greater than —90dB below full output Greater than —80dB below 1Vrms (bandwidth limited), input shorted, controls flat)
Boost/cut Range	+/—12dB @ ISO center frequencies
Rated Output	6Vrms (+18.0dBm) maximum into 600 Ohms; 1Vrms (+3.0dBm) nominal, balanced
Shelving Filters	High/Low slope of 12dB/octave: High pass tuning range of 10Hz to 400Hz, +/—5%; Low pass tuning range of 10kHz to 30kHz, +/—5%
Controls	Thirty-one 1/3 octave slide controls Equalization bypass switch Output level control Low pass control High pass control Lighted power switch

Specifications Continued

3A242A One-third Octave Graphic Equalizer	
Level Indicator	10-segment, calibrated LED level display
Terminations	Screw terminals and RCA jacks
Power Requirements	120Vac, 60Hz, 100mA
Dimensions	3-1/2" (8.9 cm) high x 19" (48.3 cm) wide x 11" (28 cm) deep
Weight	12 lbs (5.44 kg)
Finish	Cover: Textured, charcoal-colored baked enamel Chassis: Baked charcoal enamel Front: Gray polycarbonate panel overlay
110-1976A Pink Noise Generator Card	
Pink Noise Frequency Range	30Hz to 16kHz
Nominal Output Level	0dBm, +/—1dB
Output Impedance	Less than 100 Ohms
Power	Received from 3A242A

Ordering Information

Model	Description
3A242A	One-third Octave Graphic Equalizer
Optional Equipment for 3A242A	
438-674	Equalizer Security Cover
110-1976A	Pink Noise Generator Card

Amplifiers and Sound Accessories
Universal Selector Panel
Model 4A1445

The Dukane Model 4A1445 Universal Selector Panel performs various switching functions. This panel can switch any of 11 inputs to a single output. The switching configuration allows a twelfth selector pushbutton to bypass its associated panel to additional selector panels, providing unlimited input selection capability.

All switches are interlocking press-to-lock pushbuttons. The switch mechanisms are high quality, precision constructed, low noise, silver plated copper alloy contact selector switches capable of handling audio power or low level audio. The panel can accommodate the wiring needed to operate optional light bulbs which illuminate the pressed pushbuttons. These light bulbs are replaceable from the front without removing the panel from the rack. The pushbuttons also allow identifying legends to be installed. The bypass pushbutton is accentuated with a red insert for easy recognition.

Features and Specifications

- Select Any One of Eleven Inputs
- Precision Construction
- Positive Switching Action
- Reliable

Specifications

Capacity	Selects one of eleven inputs to the panel output
Switches	Eleven press-to-lock selector switches, plus one press-to-lock panel bypass switch
Dimensions	1-3/4" (4.5 cm) high by 19" (48.3 cm) wide and 4-1/2" (11.4 cm) deep
Net Weight	2 lb, 14 oz (1.3 kg)
Terminations	Screw terminals
Finish	Charcoal-colored baked enamel

Ordering Information

Model	Description
4A1445	Universal Selector Panel

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com
EDWARDS
www.edwardssignaling.com

Baffles, Back Boxes and Transformers
Speaker Baffles
6A328, 6A338, 6A342B, 6A530B, 6A603, 6A625A, 6A630, 6A633, 6A634, 6A635, 6A636, 6A650 and 6L100

6A338

Speaker Baffles and Baffle Assemblies are ideally suited for use in classrooms, lobbies, stores, restaurants, and other commercial and educational establishments. Flush mount models available with white or brushed aluminum finish. Wall mounted assemblies have walnut-grained vinyl finish.

Features and Specifications

6A328 Square Speaker Baffle
- Wall mount or Ceiling mount
- Sturdy Steel
- Finished folded edges
- No speaker screws visible

6A338 Flush Speaker Baffle
- Molded of high impact styrene
- No speaker screws visible
- Will not chip or mar
- Ceiling or wall mounting

6A342B, 6A625A Flush Speaker Baffle
- Steel construction
- Simple lines that blend with modern interiors
- Epoxy finish will not chip or mar (6A342B)
- No speaker screws visible (6A625A)

6A633, 6A634, 6A630, 6A635, 6A636 Speaker Baffle Assembly
- Speaker-matching transformer for either 25-Volt or 70-Volt line
- Reduced installation time and cost through pre-assembly
- High impact styrene baffle (6A630, 6A635, 6A636)
- Volume control (6A635 - recessed; 6A636 - exposed)

6A650 Speaker Baffle Assembly
- 25 and 70-Volt line operation
- Brushed aluminum or white steel speaker baffle
- Low mounting profile
- Additional whizzer cone for extended frequency response

6A603 Sound Masking Speaker Assembly
- Excellent low frequency response and reflection patterns
- Flame retardant cones
- Defined rectangular sound pattern
- Dual voltage transformer with variable power taps

6L100 Special Purpose Baffle
- Bi-Directional Radiation
- Ideal Corridor Baffle
- Sturdy Construction

Descriptions

6A328, 6A335, 6A338, 6342B, 6A625A Flush Speaker Baffles
These models are ideally suited where flush speakers are required in classrooms, lobbies, stores, restaurants, and other commercial and educational establishments.

6A633, 6A634 and 6A630 Speaker Baffle Assemblies
These units consist of a Model 5A606 loudspeaker with 25 Volt or 7Volt Speaker Line transformer. These assemblies are especially well suited for use in the classroom, small meeting rooms and other areas. Mounting hardware is furnished, and preassembly reduces time and expense.

6A650 Speaker Baffle Assembly
The 6A650 are high quality speaker, transformer, and speaker baffle assemblies. The loudspeaker has an additional speaker cone for extended high frequency response. The speaker baffle, constructed of steel, has simple, tasteful lines that blend well with all modern interiors. The assembly includes a dual voltage 70- and 25-volt matching transformer. The transformer has taps of 1/2, 1, 2, and 4 watts at 70 volts, and 1/2, 1, and 2 watts at 25 volts. Quality reproduction provides for use in many installations.

6A635, 6A636 Speaker Baffle Assembly With Volume Control
The Model 6A635 and 6A636 Speaker Baffle Assemblies with Volume Control each provide a complete speaker baffle assembly with a self-contained control for individual speaker volume adjustment. This assembly, with a speaker providing a low level, wide frequency range, is ideal for music and/or paging systems in offices or other applications where individual, variable volume levels are required. Model 6A635, the volume control is recessed, screwdriver adjustable to discourage unauthorized adjustment. Model 6A636, the volume control is exposed for convenient adjustment. A complete speaker baffle assembly means the assembly includes a transformer compatible with either 25V or 70V speaker lines. The baffle finish will accept any good latex paint to match the mounting surface where required. The preassembly of speaker, baffle, and transformer reduces installation time and cost.

6A603 Sound Masking Speaker
The Model 6A603 Sound Masking Speaker is scientifically designed for sound masking applications in shallow depth or limited plenum areas. Dual 5-inch (12.7 cm) high efficiency speakers are mounted on a folded aluminum baffle designed to maximize low frequency response from a minimum height installation dimension. Unlike most contemporary assemblies, the 6A603 is not hampered by “hot spots” directly below the speaker units, since its innovative design employs the bottom surface of the baffle as a highly effective acoustic shield. This assembly is designed for use in areas where the plenum area height is 36 inches (91.4 cm) or less. If the plenum area exceeds this height, Sound Masking Speaker Assembly Model 6A530B should be used.

Baffles, Back Boxes and Transformers
Speaker Baffles
6A328, 6A338, 6A342B, 6A530B, 6A603, 6A625A, 6A630, 6A633, 6A634, 6A635, 6A636, 6A650 and 6L100

Specifications

6A603 Sound Masking Speaker Assembly	
Construction	0.032" (.81 mm) aluminum
Response Pattern	9' by 23' (2.7 m x 7 m) rectangle (approx.) at least 200 square feet (18 sq. m)
Sensitivity	97.5dB at average 1/3 octave readings between 200Hz and 400Hz at 3.3" (1 m) and .5W per speaker
Mounting	"S" hooks for suspending assembly from chains; plastic foam strips on bottom of each end for resting baffle on ceiling
Finish	Natural aluminum
Dimensions	12" by 25" x 6" (30.5 cm x 63.5 cm x 15.2 cm)
Weight	4-1/2 lb (2 kg)
6A530B Background Sound Masking Speaker Assembly	
Sensitivity	96 dB average 1/3 octave readings between 200 and 4000 Hz at 1 meter and 0.5 watts/speaker
Construction	20 gauge steel
Cubic Content	0.8 feet (241 mm)
Finish	Flat black
Terminations	Pigtails
Mounting	"S" hooks and chain (chain not supplied with unit)
Dimensions	13" (5.16 cm) wide, 11-3/4" (4.66 cm) high, 19" (7.54 cm) long. (Prism shaped.)
Weight	15 pounds (6.75 kg)
6L100 Corridor Baffle	
For Speakers	Dukane 8" (20.3 cm) speakers
Finish	Brushed, satin-finished aluminum
Net Weight	2 lb (900 g)
Dimensions	4" (10.2 cm) by 4" (10.2 cm)
Backbox Required	4" (10.2 cm) by 4" (10.2 cm) standard outlet box

Flush Speaker Baffles	6A338	6A342B	6A625A	6A328
Speakers	For use with speakers 5A606 or 5A607			
Recommended Backbox Number	145-226 or 8A301			145-222 or 145-223
Finish	Solid white	22 gauge, cold- rolled steel, embossed with "Dukane," finished with a baked-on white powdered epoxy		Flat White
Suspended Ceiling Support Channel	677-67			
Net Weight	7.5 oz (210 g)	20 oz (560 g)	13 oz (364 g)	36 oz (1021 g)

Speaker Baffle Assembly	6A650	6A635, 6A636 (with volume control)
Speaker Diameter	8" (20.3 cm)	8" (20.3 cm) PM type
Overall Dimensions	12-7/8" (32.7 cm) diameter, 3" (7.6 cm) deep	12-5/8" (32.1 cm) in diameter, 3-1/4" (8.3 cm) deep
Frequency Range	30 to 20,000Hz	-
Frequency Response	—	90-15,000Hz
Finish	Cold rolled 22 gauge steel, embossed with "Dukane," finished with a baked on white powdered epoxy	Cadmium plated with solid white, molded, high impact styrene baffle
Control	—	Potentiometer, 50W, wire wound
Power Rating	15W normal, 25W program	8W normal, 12 W program
Terminations	Transformer leads	—
Voice Coil Impedance	8 Ohms	
Transformer Taps	25V: 1/2, 1, and 2W; 70V: 1/2, 1, 2, and 4W	
Voice Coil Diameter	1" (2.5 cm)	3/4" (2 cm)
Net Weight	2 lb, 12 oz (1.2 kg)	2 lb, 12.5 oz (1.3 kg)
Magnet Assembly	10 oz (283 g), ceramic	4.8 oz (134 g), ceramic
Associated Equipment	145-226 Backbox 677-67 Suspended Ceiling Support Channel	
Axial Sensitivity	95dB (1 m [3.3 ft]/1W)	91dB at 1 m (3.3 ft)/ 1W input

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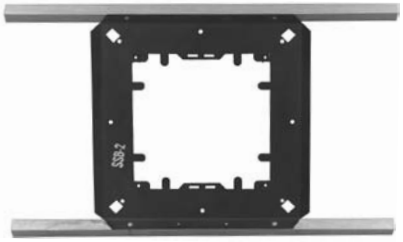
Baffles, Back Boxes and Transformers
Speaker Baffles
6A328, 6A338, 6A342B, 6A530B, 6A603, 6A625A, 6A630, 6A633, 6A634, 6A635, 6A636, 6A650 and 6L100

Speaker Baffle Assembly	6A634	6A630	6A633
Speaker	5A606	5A606	5A606
Baffle	6A342B	6A338	6A328
Baffle Finish	Steel coated with baked-on white powdered epoxy	Solid white, molded, high impact styrene	Steel painted flat white
Baffle Assembly Net Weight	3 lb, 8 oz (1.6 kg)	2 lb, 11 oz (1.2 kg)	4 lb, 8 oz (2 kg)
Recommended Backbox Number	145-226		145-222 or 145-223

Ordering Information

Model	Description
6A328	Flush (wall or ceiling) square speaker baffle, 121/2 inch square, white.
6A338	Flush (wall, ceiling) Speaker Baffle, 12-5/8 in. (32.1 cm) dia. White.
6A342B	Flush Speaker Baffle, 12-7/8 in. (32.7 cm) dia. White.
6A625A	Flush Speaker Baffle, 12-3/4 inches (32.4 cm) in diameter. White.
6A634	Speaker Baffle Assembly, Steel coated with baked-on white powdered epoxy
6A630	Speaker Baffle Assembly, Solid white, molded, high impact styrene
6A633	Speaker Baffle Assembly, Steel painted flat white
6A635	Speaker Baffle Assembly with recessed volume control
6A636	Speaker Baffle Assembly with volume control knob
6A650	Speaker Baffle Assembly
6A603	Sound Masking Speaker Assembly
6L100	Corridor Baffle, brushed, satin-finished aluminum. No back box required.

Baffles, Back Boxes and Transformers
Speaker Backbox
677-67



The Edwards speaker support bridge is a universal loudspeaker mounting device that eliminates tile sag caused by the weight of the installation on suspended ceilings and reduces the required installation time. The support bridge eliminates the need for stocking different mounting devices to match various baffle and backbox configurations. The bridge accepts most of the industry's popular round or square baffles with or without most backboxes, and any 8-inch torsion spring baffle with most round backboxes. The design of the Model 677-67 bridge makes installation faster and easier than other bridges. Locating tabs on the center plate simplify positioning of the loudspeaker on the ceiling and prevents the bridge from moving during installation. In addition, the bridge mounts with an easy to cut square ceiling hole, rather than the round hole required for most other bridges. The hole dimension is well within the baffle dimension, so even a miscut mounting hole will be completely hidden by the baffle. The unique design of the bridge permits nesting of the bridges for reduced storage space and easier handling.

Features and Specifications

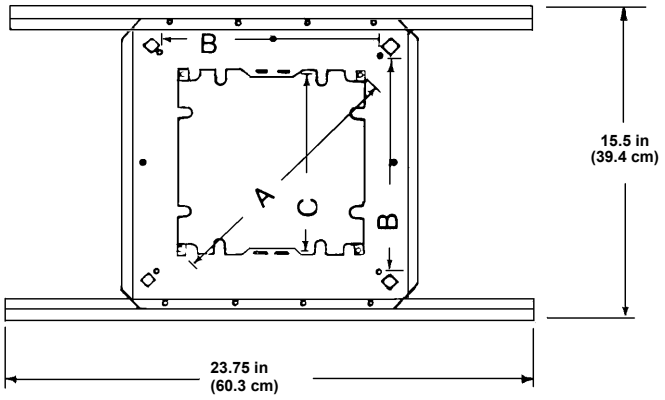
- Universal loudspeaker mounting device
- Eliminates tile sag
- Makes speaker installation faster and easier

Specifications

Material	22-gauge galvanized steel
Net Weight	1-1/2 lb (0.7 kg)
Finish	Durable protective coating
Mounting Bridge Dimensions	23.75 (60.3 cm) long; 15.5 (39.4 cm) wide
Mounting Options Dimensions (see diagram)	A. Four J-nuts #8-32 bolts required

Ordering Information

Model	Description
677-67	Speaker Support Bridge



Baffles, Back Boxes and Transformers
Speaker Transformers
710-3090, 710-3092

Photo Not Available

The 710-3090 and 710-3092 Speaker Matching Transformers are professional sound, quality transformers which have operating characteristics to match the best sound systems being manufactured today. Model 710-3090 is furnished with 7-inch (17.8 cm) color-coded leads for easy installation with twist nuts or solder. The high quality, grain-oriented laminations permit a flat response, within ± 1dB, at full output over the range of 50- to 15,000Hz. Distortion is less than 1 percent, and insertion loss is less than 2.0dB.

Features and Specifications

710-3090 Speaker Matching Transformer
- Excellent frequency response
- Very low distortion
- Complete range of power
- 70-Volt line

710-3092 Speaker Matching Transformer
- Excellent frequency response
- Very low distortion
- 70- And 25-volt lines
- High efficiency at all wattage taps

Engineers' Specification for 710-3092

Watts	Primary	Secondary (8 Ohms)
25-Volt Distribution Line		
1/2	Red & Blk	Blk & Wht
1	Blue & Blk	Blk & Wht
2	Yellow & Blk	Blk & Wht
70-Volt Distribution Line		
1/2	Red & Blk	Blk & Wht
1	Blue & Blk	Blk & Wht
2	Yellow & Blk	Blk & Wht
4	White & Blk	Blk & Wht

Specifications

710-3090 Speaker Matching Transformer	
Primary Taps (70.7V Line)	8, 4, 2, 1, and 1/2W
Dimensions	2-5/16" (5.9 cm) high, 1-15/16" (4.9 cm) wide, 1-5/8" (4.1 cm) deep
Secondary	8 Ohms
Mounting Holes	2-3/8" (6.0 cm) center to center, 0.187" (4.7 mm) diameter
Insertion Loss	1.2dB or less
Terminations	Color-coded leads, 7" (17.8 cm) Leads also identified on transformer coil
Frequency Response	50Hz to 15,000Hz ± 1.5dB
Weight	1 lb (0.45 kg)
Distortion	Less than 1%
710-3092 Speaker Matching Transformer	
Speaker Line Voltage	70V or 25V
Mounting Holes	2" (50.8 mm) center to center, 0.187" (4.7 mm) diameter
Capacity	2W (25V), 4W (70V)
Terminations	Color-coded leads, ½" stripped and tinned
Secondary	8 Ohms (nominal)
Taps Finish	Cadmium plate
Frequency Response	100Hz to 10,000Hz ± 2dB
Dimensions	1-7/16" (3.7 cm) high, 2-13/32" (6.1 cm) wide, 1-9/16" (3.9 cm) deep
Insertion Loss	2.0dB or less
Weight	6 oz (170 g)

Ordering Information

Model	Description
710-3090	Speaker Matching Transformer
710-3092	Speaker Matching Transformer

EDWARDS

Time is Money

"Precise and on time is the way I like to see things run. The wide range of Dukane Timekeeping solutions from Edwards makes that possible.

Dukane Power-over-Ethernet clocks plug directly into standard Ethernet jacks to provide network-wide synchronized time. And they draw time updates and power from standard network cables so there's no need for a separate power source at each mounting site.

With Dukane PoE clocks from Edwards, time really is money."

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Product Index

From the clock you patiently watched just before recess at school, to the synchronized time system displayed from the break room to the manufacturing floor, Edwards probably had a hand in putting it there. Edwards' clock systems deliver the accuracy, choices, convenience, styling, and unique features that your facility is looking for, all at a price you can afford.

Clocks and Time Systems

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Clocks and Time Systems
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Clocks
Analog
1800 Series

Edwards analog clocks have large, easy to read numbers on a white background. The black hour and minute hands and blue second hand are attractive and visible from a great distance. To protect the clock from damage, order the 1888 Wire Guard.

Features and Specifications

- 12 hour dial with arabic numbers
- 12" face
- Surface mount
- Shatter-resistant polystyrene case
- 66" (168 cm) cord with plug

Ordering Information

Description	Cat. No.	Operating Voltage	Size (in.)	Case Color
Analog Clock	**1882A**	120V AC	12	Gray
	1882B	120V AC	12	Brown

Accessories

Description	Cat. No.
Protective Wire Guard	**1888**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in.)	Depth (in.)
1882A	4.0	14	2 15/16
1882B	4.0	14	2 15/16
1888	2.5	16 1/2	6

AC

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Clocks
Analog
1800 Series

Edwards analog clocks have large, easy to read numbers on a white background. The black hour and minute hands and blue second hand are attractive and visible from a great distance.

The clocks are available in either brown or gray cases. To protect the clocks from damage, order the 1888 Wire Guard.

Features and Specifications

- Surface mount
- 12 hour dial with arabic numbers
- 8" or 12" face
- Shatter-resistant polystyrene case
- 1.5V DC "C" size alkaline battery (purchased separately)

Ordering Information

Description	Cat. No.	Operating Voltage	Size (in.)	Case Color
Analog Clock, Battery Operated	**1886A**	1.5V DC	8	Gray
	1886B	1.5V DC	8	Brown
	1887A	1.5V DC	12	Gray
	1887B	1.5V DC	12	Brown

Accessories

Description	Cat. No.
Protective Wire Guard	**1888**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in.)	Depth (in.)
1886A	1.6	10 3/8	2 15/16
1886B	1.6	10 3/8	2 15/16
1887A	3.9	14	2 15/16
1887B	3.9	14	2 15/16
1888	2.5	16 1/2	6

Clocks
Analog
1800 Series

Edwards analog clocks have large, easy to read numbers on a white background. The black hour and minute hands and blue second hand are attractive and visible from a great distance.

To protect the clock from damage, order the 1889 Wire Guard.

Features and Specifications

- 12 hour dial with arabic numbers
- Shatter-resistant polystyrene gray case
- 66" (168 cm) cord

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Size (in.)	Case Color
Analog Clock	**1884A**	120V AC	15	Gray

[1]AC voltage frequency is 60 Hz.

Accessories

Description	Cat. No.
Protective Wire Guard	**1889**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in.)	Depth (in.)
1884A	4.1	16 1/2	2 15/16
1889	3.5	20	6

AC

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Clocks
Analog
1800 Series

Edwards analog clocks have large, easy to read numbers on a white background. The black hour and minute hands and blue second hand are attractive and visible from a great distance.

To protect the clock from damage, order the 1888 Wire Guard.

Features and Specifications

- 24 hour dial with arabic numerals
- Shatter-resistant polystyrene case
- 66" (168 cm) cord

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Size (in.)	Case Color
Analog Clock	**1885A**	120V AC	12	Gray

[1]AC voltage frequency is 60 Hz.

Accessories

Description	Cat. No.
Protective Wire Guard	**1888**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in.)	Depth (in.)
1885A	3.2	14	2 15/16
1888	2.5	16 1/2	6

AC

Clocks
Digital
1800 Series

Edwards LCD clocks may be programmed to display time or time and date. They feature impact-resistant plastic case.

Features and Specifications

- 2 1/2" (64mm) LCD display
- 60 foot (18.3 m) readability
- Wall or desk mount
- Flashing second colon
- 120° viewing angle
- Operates from one "AAA" battery
- Low current draw allows battery to last a minimum of 12 months

Ordering Information

Description	Cat. No.	Case Color
Desk/Wall Mounted Clock	**1893A**	Gray
Wall Mounted Clock	**1894B**	Black

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Height (in.)	Width (in.)	Depth (in.)
1893A	1.4	5	7 1/4	7/8
1894B	1.4	8	10 3/4	7/8

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Clocks
Digital
1900 Series

The Edwards 1900MS12-24 is an accurate long-life LED time display piece that can be operated in a synchronized clock system. It reports time in 12 hour or 24 hour formats with hour and minute that may be dimmed with a switch. An 18 foot cord is connected to a Class 2 transformer which plugs into a standard wall outlet. It is suitable for use in indoor applications.

Features and Specifications

- Built-in serial interface for networking and time synchronization in a clock system
- Field selectable 12 or 24 hour format
- Hour and minute display
- 100,000 hour LED lamp technology
- Two week memory retention
- Master/Satellite field selectable
- Two levels of brightness
- Suitable for use in indoor applications
- Operating temperature range: 32º to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Character Height (in.)	Max. Viewing Distance (ft.)
LED Wall Clock	**1900MS12-24**	4	200

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Height (in.)	Width (in.)
1900MS12-24	3.4	7.10	13.50

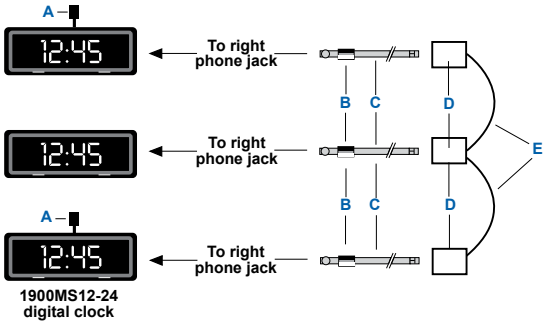
120°F
32°F
OP TEMP

*Transformer only

Clocks
Digital
1900 Series

Technical Information

Connecting Multiple Clocks without a PC



NOTE
When connecting multiple clocks, one clock must be set to Master and the rest to SATELLITE.

Accessories

Ref.	Description	Cat. No.
A	End-of-line (EOL) terminator. An EOL must be plugged into the RS232 or TTL plug on the last sign.	**MCN485EOLTCB**
B	Ferrite (ferrite end towards sign)	**(Included with Item C)**
C	8-foot, 4-conductor RS485 cable	**MCN485-RJ11-8**
	1-foot, 4-conductor RS485 cable	**MCN485-RJ11-1**
D	Modular Network Adapter	**MCNMNARJ11485**
E	RS485 cable, 100 foot spool	**MCN485-100**

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EDWARDS
www.edwardssignaling.com

Synchronized Wired Clock Systems
Master Time/Program Clock

The Edwards Models 24A715 and 24A715M Master Time/Program Clocks are compact, microprocessor-controlled clocks capable of maintaining the correct time for Edwards analog and digital secondary clocks and for many third-party secondary clocks.

The basic clock consists of a display unit and power/relay unit that can be assembled in a surface, semi-flush, or rack mount configuration. The display unit has a digital display that shows the date and time and also provides programming menus to guide the user through programming and operating modes. A 12-button key pad is used to manually enter commands and programming instructions. The front panel LEDs indicate control relay status and, in master clocks with the modem option (24A715M), display the modem communications status.

All wiring to AC power and secondary equipment (such as clocks, bells, and zone controls) connects to terminal blocks within the power/relay unit backbox using quick connects supplied with the master clock.

Time base synchronization is derived from the AC line frequency. The clock automatically detects the selection of 50Hz or 60Hz. During power failures (or when AC power is shut off manually via an internal toggle switch), accurate time is maintained by a quartz crystal time base supported by lithium battery backup. When AC power is restored, the clock's microprocessor calculates the amount of time lost by the secondary clocks and re-synchronizes them.

In addition to hourly and periodic 12-hour synchronization of secondary clocks, the master clock can automatically adjust for daylight saving time (DST) with support for over 70 countries, as well as custom DST schedules.

Standard Features

- User programmable
- Eight program schedules
- 64 time events per schedule
- Automatic adjustment for daylight savings time
- Four-digit time/event display
- 12-hour AM/PM indication
- 10-year battery backup
- Surface, semi-flush or rack mountable
- Model 24A715 is UL/cUL listed

Synchronized Wired Clock Systems
Master Time/Program Clock

Specifications	
Input Voltage	120 or 220/240Vac @ 50 Hz or 60 Hz
Input Power	50VA maximum (less than 0.5A @ 120V)
Memory/quartz Time Backup	10-year (nom.) lithium battery
Signal And Clock Circuit Relays	Eight electromechanical, 10A (plug-in) Note: Edwards digital clocks require one solid-state plug-in relay, purchased separately by ordering the Model 438-860 kit
Operating Temperature	32°–175° F (0°–80° C)
Weight	Approximately 12 Lb (5.4 Kg)
Dimensions	Rack Mount—5-1/4 in (13.3 cm) high x 19 in (48.3 cm) wide x 6 in (15.2 cm) deep Wall Mount—6-1/4 in (15.9 cm) high x 13 in (33 cm) wide x 4-1/2 in (11.4 cm) deep Backbox—12 in (30.5 cm) wide x 6 in (15.2 cm) high x 3-3/8 in (8.6 cm) deep Face Plate—13 in (32.5 cm) wide x 5-1/4 in (13.3 cm) high x 1 in (2.5 cm) deep
Mounting Options	Semi-flush, surface, 19 in (48.3 cm) rack, or remote
Secondary Clocks Supported	Supports most brands of traditional analog and digital clocks See Secondary Clocks Supported below
Bell/control Zones And Schedules	Up to eight zones (decreased to 6 zones with one clock output, or 4 zones with two clock outputs) Eight schedules, each with 64 multi-function events/schedule Daylight saving time—supports DST standards of over 70 countries
Remote Communications with Atomic Clock	Internal modem (option) dial in/dial out
Certifications/Registrations	Model 24A715 is UL/cUL Listed FCC Part 15, Class A/Industry Canada ICES-003, Class A

Secondary Clocks Supported	
The master clock is supplied with a removable EPROM programmed and capable of operating and controlling the following types of secondary clocks:	
Edwards	24SS Series, 24ISC, 24F200, 24750, 24F750A, 24D20, 24D20A, 24D40, 24D40A, 240 Series, Synchronous Wired
Lathem	Type SS, ISC 2-Wire/3-Wire, SS Modified
Cincinnati	D1, D2, D3, D4, D6, D8, D10
Simplex	77 Series 91-9, 93-9, 941-9, 943-9, 75 Series 91-4, 93-4, 941-4, 943-4, Dual Motor 59th Minute, Dual Motor 45th Minute
IBM	75 Series, 77 Series
Standard Electric	D10, D12, Impulse, Synchronous, AR-2A, AR-2, AR-3
Stromberg	3000, Impulse, Synchronous 56th Minute
Edwards	Synchronous E-1, Impulse, Dual Motor
Faraday	Impulse, Synchronous
Rauland	2410 & 2422 Digital
Condor	2412 Digital
National	Synchronous Wired
Honeywell	ST402A
Others	Electronic Coded, Straight Frequency

Ordering Information

Description	Model
Master Time/Program Clock	**24A715**
Master Time/Program Clock with Modem Option	**24A715M**
Solid State Relay Kit for Digital Clocks	**438-860**
Satellite Receiver & Sync (By Lathem)	**LTR-GPS**

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Synchronized Wired Clock Systems
Power-over-Ethernet (PoE) Clocks
24IP Series

EST brand 24IP Series PoE Clocks plug directly into standard Ethernet jacks to provide network-wide synchronized time. Power-over-Ethernet technology allows these clocks to draw both time updates and power from standard network cables. This eliminates the need for a separate power source at each mounting site. Time is automatically set by a time server via Simple Network Time Protocol (SNTP). No master clock or serial connection is required.

24IP Clocks are configurable by means of a standard Telnet session, which configures the SNTP server address, time zone and daylight saving time options, display format (12- or 24-hour), and clock status reporting.

Both digital and analog models are available. Digital clocks have four- or six-digit LED displays and are visible from 150 feet (50 meters). Analog clocks are visible from 100 feet (30 meters).

Standard Features

- Power over Ethernet (PoE) technology derives power and synchronized time updates from your existing network
- Highly visible at over 100 feet
- Energy-efficient design
- No master clock or serial connection required
- Analog and digital formats available
- Automatic adjustment for Daylight Saving Time

Synchronized Wired Clock Systems
Power-over-Ethernet (PoE) Clocks
24IP Series

Specifications

	Analog	Digital (hh:mm)	Digital (hh:mm:ss)
Display Face	Analog Clock Dial: 12” (30 cm)	4-Digit: Red 7-segment LED	6-Digit: Red 7-segment LED
Viewing Distance	100 feet	150 feet	150 feet
Power Consumption	PoE, IEEE 802.3af compliant, 3W actual consumption	PoE, IEEE 802.3af compliant, 8W actual consumption	PoE, IEEE 802.3af compliant, 9.5W actual consumption
Dimensions	13.4” diameter x 2”D (35.3 cm x 5.1 cm)	12”L x 6”H x 2.2”D (30.5 cm x 15.2 cm x 5.6 cm)	17.5”L x 6”H x 2.2”D (44.5 cm x 15.2 cm x 5.6 cm)
Weight	2 lbs (0.9 kg)	Plastic Cabinet: 2 lbs (0.9 kg) Steel Cabinet: 3.8 lbs (1.7 kg)	Aluminum Cabinet: 2.5 lbs (1.1 kg) Steel Cabinet: 5 lbs (2.3 kg)
Time Display	12 hour format	12/24 hour format	
Optional Cabinet Colors	Not Available	Putty or Off-White	
Stainless Steel Cabinet	Not Available	Brushed Stainless Steel	
Accuracy	+/- 1 Second	+0/-200 milliseconds	
Standard Cabinet	Black Injection Molded Plastic		
Network Interface	10/100 BaseT		
Operating Humidity	95% maximum, non-condensing		
Certifications	UL/CSA 60950-1, ETL Listed, CE Marked, RoHS Compliant		
Operating Temperature	32º to 104º F (0º to 40º C)		
Warranty	Three (3) year		

Ordering Information

Model	Description
24IP12R-BK	OnTime POE Analog 12" clock
24IP12RD-BK	OnTime POE Analog, Double Sided, 12" Clock and mounting hardware
24IP4-BKP	OnTime Clock, 4 Digit, Black, Plastic Case
24IP4D-BKP	OnTime Clock, 4 Digit, Black Plastic Case, Double Sided and mounting hardware
24IP4F-BKP	Flush Mount 4 Digit Clock, Black Plastic
24IP4-SS	OnTime Clock, 4 Digit, Stainless Steel Case
24IP4D-SS	OnTime Clock, 4 Digit, Stainless Steel Case, Double Sided and mounting hardware
24IP6-BKA	On Time Clock, 6 Digit, Black Aluminum
24IP6D-BKA	On Time Clock, 6 Digit, Black Aluminum, Double Sided and mounting hardware
24IP6F-BKA	Flush Mount 6 Digit Clock, Black Aluminum
24IP6-SS	OnTime Clock, 6 Digit, Stainless Steel Case
24IP6D-SS	On Time Clock, 6 Digit, Stainless Steel Case, Double Sided and mounting hardware
24IP-POE	PoE injector

Synchronized Wired Clock Systems
Wired Clock Systems and Accessories

Edwards clocks and accessories are high-performance timekeeping devices that offer a wide range of options and features. Edwards offers reliable clocks, controllers, and accessories compatible with centrally-controlled and self-correcting systems. Several of these work in combination with Dukane StarCall and MCS350 communication systems to provide a total timekeeping and communications solution.

110-788
Dual-faced Clock/Speaker

24SC12R -SPL
Analog Clock

110-1674 &110-1675 Digital
Clocks with wall & ceiling mount housing

Accessories

- 110-3822 2-inch Digital Clock/Speaker Baffle
- 5A606 or 5A607 8-inch Speaker/Transformer
- 24SS Series Synchronous Secondary Analog Clock
- 24CC10 Clock Controller
- 110-3902 Dual 4-inch Digital Clock Housing
- 24ZB20 2-Inch Digital Secondary Clock
- 24ZB40 4-inch Digital Secondary Clock
- 24SC12R-SPL, 12SC15R-SPL Analog Secondary Clocks
- 9A1900 Elapsed Timer Start Button
- 110-3693 AC Clock Power Supply
- 110-788 Dual Faced Clock/Spk (110-3822) Mount Enclosure.
- 110-1674 2-inch Digital Clock Dual Wall Mount Enclosure.
- 110-1675 2-inch Digital Clock Dual Ceiling Mount Enclosure.

Synchronized Wired Clock Systems
Wired Clock Systems and Accessories

Dual-faced Digital Clock and Speaker Housing

110-788

- 110-788 Dual Faced Clock/Speaker Housing
- 110-3822 2-inch Clock/Speaker Baffle
- 8-inch Speaker/Transformer

The Edwards Dual Faced 2-inch Digital Clock/Speaker Baffle Housing, model 110-788, allows mounting of two 110-3822 Clock/Speaker Baffles and one or two 5A606 8-inch Speakers and makes a great assembly for Ceiling mount. The unit is designed for corridors and large rooms and is ceiling mounted from the top of housing to a 2-gang back box. The enclosure is 14-1/4" high, 14-1/4" wide, 6-3/4" deep made with 18-gauge cold rolled steel with baked-on, platinum white enamel finish.

Double Faced Digital Secondary Clock Housing

110-1674

- 110-1674 2-inch Digital Clock Dual Wall Mount Enclosure.
- 110-1675 2-inch Digital Clock Dual Ceiling Mount Enclosure.
- Mounts on 2-gang back box.

The Edwards Model 110-1674 Dual Wall Mount or 110-1675 Dual Ceiling Mount with two model 24ZB20 2-inch Digital Clocks makes a single compact unit. Designed for corridors or large rooms, the clocks are equipped with 2-inch high digital display. The clocks trimplates constructed of high impact,on-conductive, flame-retardant, charcoal colored material and a mounting frame finished in white, baked enamel.

Digital Clock/ Speaker Housing

- 110-3822 2-inch Digital Clock/ Speaker Baffle
- 8-inch Speaker/Transformer
- 145-192 Back-Box

The Edwards Model 110-3822 2-inch Digital Clock/Speaker Baffle is an attractive unit when mounted with a Edwards Model 5A606 Speaker/Transformer. The Clock/Speaker baffle assembly is black, perforated metal grille within a dark gray aluminum frame with overall dimensions 14-1/4" high. 14-1/4 wide, 3" deep including speaker. It can be flush mounted using the Edwards Model 145-192 backbox.

24SS Series Secondary Analog Clock

- Attractively finished
- Multiple sizes
- Controlled by master
- Easy installation
- Underwriters' Laboratories listed

The Edwards Model 24SS Series Synchronous Secondary Analog Clocks are available in round 12-inch (30.5 cm) and 15-inch (38.1 cm) sizes. The dials and hands are protected by a convex glass lens. An optional shatterproof Lexan® lens is available for the 12-inch size only. The clocks are mounted semi-flush, surface, or double, with the double mounting from either wall or ceiling. The clock markings are in Arabic numerals displayed in Helvetica font. The synchronous-wired clocks are designed to work with the Edwards Model 24A715 or 24A715M master clocks, as well the Dukane StarCall and MCS350 communication systems. All clocks are mounted on a 22-gauge steel housing and finished in matte charcoal gray.

Specifications: 24SS Series Secondary Analog Clock	
General Description	Round clock, 12 in (30.5 cm), or 15 in (38.1 cm) diameter Arabic (1-12 or 0-23 hour) clock face Matte charcoal-gray case
Connections	Each clock is furnished with a cable assembly 18 in (45.7 cm) long with a polarized plug and mating socket.
Wiring	Red (correction coil) Black (run motor) White (common return) Green/Shield (safety ground)
Frequency and Power Requirements	
Correction	Minute hand corrects hourly Hour hand corrects every 12 hours
Coil Input Voltage	115Vac, 24Vac, or 24Vdc
Motor Input Voltage	115Vac or 24Vac
Coil Input Frequency	60Hz or DC
Motor Input Frequency	60Hz
Coil Input Power	4 Watts
Motor Input Power	4W (8W for double faced)
Mounting	
Surface	Mount to RACO 695 single-gang backbox or equal (order separately).
Semiflush	24SS mounts to a 8-SAM0576 custom backbox. (Order backboxes separately.) Dimensions: 8 in (20.3 cm) high, 6 in (15.2 cm) wide, 3 in (7.6 cm) deep.
Double Faced	Mount to a 4-inch (10.16 cm) by 4-inch (10.16 cm) dual gang backbox (order separately). Adapter plates are furnished with each assembly for wall or ceiling mount. Specify wall or ceiling mount when ordering.

24SS Series Secondary Analog Clock

Clock Type Face	Dimensions	Outside Dimensions (A)	Distance Protrude (B)	Backbox Above Clock Ctr (C)	Backbox Depth (D)	SC Series Ship Weight
12 RF RD-Semi Flush	12.12 in (30.79 cm)	13.12 in (33.32 cm)	1.62 in (4.11 cm)	Approximate Center	3 in (7.6 cm)	11.9 lb (5.36 kg)
15 RF RD-Semi Flush	15.75 in (40.0 cm)	16.75 in (42.55 cm)	1.75 in (4.45 cm)	Approximate Center	3 in (7.6 cm)	14.3 lb (6.44 kg)
12 RS RD Surface	12.12 in (30.79 cm)	14.5 in (36.83 cm)	3.87 in (9.83 cm)	4.62 in (11.73 cm)	3.5 in (8.89 cm)	9.5 lb (4.28 kg)
15 RS RD-Surface	15.75 in (40.0 cm)	18.25 in (46.36 cm)	4 in (10.16 cm)	6.5 in (16.51 cm)	3.5 in (8.89 cm)	11.6 lb (5.22 kg)

Notes:
1. Use Model 8-SAM0576 backbox for 24SS clocks (order separately).
2. Use RACO #695 single-gang box or equivalent (order separately).

When mounting a double-faced clock, use the Edwards Model 23D Assembly Kit. Items with an * are included in the 23D.

*1. Two 12 RD/E or 15 RD/E Clock Assemblies
D = Wall Mount E = Ceiling Mount
*2. Outside Case Assembly
*3. Retaining Clips
*4. Case Adapter Plate
*5. 4 in x 4 in Wall Box or Ceiling Box
*6. Wall/Ceiling Adapter Plate
*7. Miscellaneous Mounting Hardware

24CC10 Clock Controller

User-friendly front panel controls

- Controls Edwards two-inch or four-inch digital clocks
- Operating modes: 12 or 24-hour clock; count down timer; elapsed timer; score board; code blue elapsed timer
- Operates independently or as slave to master clock
- Timer display settings: hours/minutes; minutes/seconds
- Operates from 15Vdc or 24Vac
- Mounts in standard three-gang backbox

The Edwards Model 24CC10 Clock Controller is a compact, microprocessor-controlled unit that enables an Edwards 24ZB20 Two-Inch Digital Secondary Clock or 24ZB40 Four-Inch Digital Secondary Clock to be used for count up timing, count down timing, score keeping and code blue timing. The digital clock serves as the time indicator and display for the clock controller in the room. The digital clock is mounted for optimum visibility, while the clock controller is mounted in a convenient location that allows access to its controls.

The Model 24CC10 Clock Controller is designed for ease of use, with logical button groupings, intuitive labeling, and LED function guidance. When a particular operating mode is selected, related LEDs illuminate to indicate the commands available in that mode. A lockout feature allows the front panel controls to be disabled, preventing unauthorized use. The 24CC10 and its associated digital clock can operate as a stand-alone clock/timer or as a secondary clock under the corrective control of an Edwards Model 24A715 or 24A715M Master Time/Program Clock. The 24CC10 can also operate under the corrective control of a Dukane StarCall or MCS350 communication system. The 24CC10 is powered by a separate 10 to 24Vac or 10 to 15Vdc power source. The 24CC10 has five operating modes:

Clock Mode displays the time on the Edwards digital clock in 12- or 24-hour format. In clock mode, the clock controller operates under the control of a master clock. In the absence of a master clock, the clock controller can operate in stand-alone mode, governing the time for its associated Edwards digital clock. Stand-alone mode does not provide battery backup for the clock display, therefore Edwards recommends that a master clock be used.

Count Down Timer Mode counts down to zero from a user-selected start time. The timer can count down by minutes and hours or by seconds and minutes. It can also be set to run silent, to beep when the timer runs down to zero, to chirp once per minute and beep at zero, or to chirp once per minute and once per second and beep at zero. During the count down sequence the timer can be stopped, restarted, and reset to its original target value.

Count Up Timer Mode measures the duration of an event. The timer can count up by hours and minutes or by minutes and seconds. It can also be set to run silent, to chirp once per minute, or to chirp once per minute and once per second. During the count up sequence the timer can be stopped, restarted, and reset to the initial timer value.

Score Board Mode uses the digital clock as a simple score board. The two left digits of the clock display the score of team 1 and the two right digits display the score of team 2.

Code Blue Timer Mode shows the elapsed time from when a code blue call is placed to when the STOP button is pressed on the clock controller. The code blue timer overrides anything currently displayed on the digital clock. This mode requires a contact closure from a separate device that initiates code blue calls.

Specifications: 24CC10 Clock Controller	
Operating Voltage	24Vac nominal—recommended (10Vac min. to 30Vac max.) —or— 15Vdc nominal (10Vdc min. to 30Vdc max.)
Current Consumption	91mA @ 10Vac, 50mA @ 24Vac —or— 110mA @ 10Vdc, 75mA @ 15Vdc
Terminations	Two pigtail connectors with 8 leads each (provided) One pigtail connector with 2 leads (for code blue; provided)
Operating Temperature	32°–90° F (0°–32° C)
Dimensions	4-1/8 in (10.5 cm) high x 8 in (20.3 cm) wide x 1-1/2 in (3.8 cm) deep
Weight	Approximately 9 ounces (252 g)
Mounting	Flush mounts into RACO 3-gang backbox, 2.5 in (6.4 cm) deep
Finish	Bezel—textured gray ABS Panel—textured gray polycarbonate

110-3902 Dual Four-inch Digital Clock Housing

- Designed for Edwards four-inch digital secondary clocks
- Adaptable for wall or ceiling mounting

The Edwards Model 110-3902 Dual Four-Inch Digital Clock Housing is designed for corridors or large rooms requiring a front and rear digital clock display. The enclosure houses two Edwards 24ZB40 Four-Inch Secondary Digital Clocks (purchased separately), and uses the trimplates that come with the digital clocks.

The dual digital clock housing can be wall or ceiling-mounted. For mounting to a cement or cinder block wall, the housing mounts to a standard RACO two-gang masonry box. Optionally, the housing can be flush-mounted to a ceiling or suspended below the ceiling using conduit extensions. Although not recommended, the housing can also be mounted to a stud wall if additional structural support is provided, or mounted to the ceiling after creating a support frame out of 2x4s.

Specifications: 110-3902 Dual Four-inch Digital Clock Housing	
Dimensions	7 in (17.8 cm) high, 19 in (48.3 cm) wide, 4-1/2 in (11.43 cm) deep
Weight	4.4 lbs (2 kg), less backbox and clocks
Mounting	Wall-mounted using two-gang masonry box Ceiling-mounted using conduit extensions
Finish	Charcoal gray

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24ZB20 Two-Inch Digital Secondary Clock

- Highly visible two-inch LED
- 24 Vac operation
- Selectable LED display intensity
- 12- or 24-hour display
- High efficiency
- Can replace model 24F750A clocks for easy upgrades
- ESD-hardened
- Wireless Capable (24ZB20)

24ZB20
Digital Secondary Clock

The Edwards Model 24ZB20 Two-Inch Digital Secondary Clock provides a highly visible, even-intensity, long-life display of time in selectable formats. It can be operated in either 12- or 24-hour format, and at either Bright or Normal intensity levels. The time display on the secondary clock updates to the master clock time at one-minute intervals. This ensures that all system clocks are in precise synchronization, and that every clock in the system is as accurate as the master clock. The high-efficiency 24 Vac design allows many clocks to be operated at great distances from low cost 24 Vac power supplies.

- For new installations, the 24ZB20 can be flush-mounted into a standard four-gang backbox, and can be operated from a 24 Vac power supply.
- In retrofit installations, the 24ZB20 can be surface-mounted using the 8A225 Surface Backbox, and can be operated from 24 Vac.
- In repair situations, the 24ZB20 can directly replace the 24F750A digital clock. The 24ZB20 fits into the 24F750A's existing six-gang backbox and operates from the existing 24F750A's 15Vdc power supply. The pigtail connector of the existing installation can be directly applied to the new 24ZB20 installation without rewiring. (Check power supply reserve capacity before upgrading.)

Compliance with FCC Part 15 Class A emissions rules has been verified. As a result, the Model 24ZB20 clock meets the requirements for installation in educational, institutional, and commercial sites. The installed clock is ESD-hardened to IEC 801-2 Standards.

Specifications: 24ZB20 Two-Inch Digital Secondary Clock

Mounting	**New Installations (flush-mount):** RACO #693, 4-gang masonry backbox, 2-1/2" (6.4 cm) deep, or RACO #698, 3-1/2" (8.9 cm) deep, or approved equal. **Retrofit Installations (surface mount):** Dukane 8A225, Two-Inch Surface-Mount Backbox, 1-3/4" (4.4 cm) deep, or approved equal. **Repair Installations (to replace 24F750A clocks):** RACO #960, 6-gang masonry backbox, 3-1/2" deep (8.9 cm), or approved equal.
Power Requirements	24Vac (+/– 5 Vac)—NOT TO EXCEED 30 Vac 122 mA in Bright display mode. (3W) @ 24Vac 67mA in Normal display mode (1.6W) @ 24Vac
For replacement of 24F750A clocks:	15Vdc (+ 0/–2Vdc) 125mA in Bright display mode @ 15Vdc 60mA in Normal display mode @ 15Vdc
Note: When replacing a 24F750A clock, the pigtail plug from the previous clock can be directly connected to the 24ZB20 without rewiring. The rated current consumption of the 24F750A is 300mA, allowing direct replacement at either Bright or Normal intensity settings.	
Viewing Distance	110' (33.5 m) in Bright intensity mode with normal lighting 100' (30.5 m) in Normal intensity mode with normal lighting
Display Size	2" (5.1 cm)
Electrostatic Discharge	Installed clock is ESD-hardened to IEC 801-2 requirements (+/– 8kV direct, +/– 15kV air discharge)
Terminations	Pigtail leads color-coded
Lens	Anti-glare clear acrylic
Dimensions	4-1/2" (11.4 cm) high by 11-15/16" (30.3 cm) wide by 1-3/4" (4.4 cm) deep
The Model 24ZB20 Two-Inch Digital Secondary Clock can be controlled by any of the following master clock products: Edwards Models 24A715 or 24A715M Master Time/Program Clock. Note: Correction by a Dukane MCS350 system, or CPC-E based StarCall system may require use of Model 110-3836 Digital Clock Sync Module.	
24A715	Edwards Master Clock
24A715M	MCS350 Dukane Intercom System with Master Clock
SCR	Dukane StarCall Platform Integrated Communications Systems

24ZB40 Four-inch Digital Secondary Clock

- Highly visible four-inch LED
- 24Vac operation
- Selectable LED display intensity
- 12- or 24-hour display
- High efficiency
- Can replace Edwards model 24D20 and 24F750A clocks for easy upgrades
- ESD-hardened
- Wireless capable (24ZB40)

The Edwards Model 24ZB40 Four-Inch Digital Secondary Clock provides a highly visible time display. It can be operated in either 12- or 24-hour format, and at either Bright or Normal intensity levels. Each minute the time display on the secondary clock updates to the master clock time. This ensures that all clocks in the system are in exact synchronization, and that every clock in the system is as accurate as the master clock. See the Associated Equipment list for the appropriate master clocks.

Installation of the Model 24ZB40 clock offers the following options:

- For new installations, the 24ZB40 can be mounted into either a standard 4-gang masonry backbox or an 8A425 Surface-Mount Backbox, and can be operated from a 24Vac power supply.
- For upgrade installations, the 24ZB40 can directly replace a Model 24D20A Two-Inch Digital Clock. Both units fit into a standard 4-gang backbox and share the same pigtail connector. (Check power supply reserve capacity before upgrading.)
- In existing installations, the 24ZB40 clock can directly replace the Edwards Model 24F750A Digital Clock. The 24ZB40 fits into the same six-gang backbox and operates from the existing 15Vdc power supply. The pigtail connector of the existing installation can be directly applied to the new 24ZB40 installation without rewiring. (Check power supply reserve capacity before upgrading.)

Compliance with FCC Part 15 Class A emissions rules has been verified. As a result, the Model 24ZB40 clock meets the requirements for installation in educational, institutional, and commercial sites. The installed clock is ESD-hardened to IEC 801-2 Standards.

Specifications: 24ZB40 Four-inch Digital Secondary Clock	
Mounting	New Installations (flush mount): RACO #693, 4-gang masonry backbox, 2-1/2 in (6.4 cm) deep, or RACO #698, 3-1/2 in (8.9 cm) deep, or approved equal Retrofit Installations (surface mount): Edwards 8A425, Four-Inch Digital Clock Surface-Mount Backbox, 1-1/2 in (3.8 cm) deep, or approved equal Upgrade Installations (to replace 24F750A clocks): RACO #960, 6-gang masonry backbox, 3-1/2 in deep (8.9 cm), or approved equal
Power Requirements	24Vac (+/– 5Vac) NOT TO EXCEED 30Vac 350mA in Bright display mode @ 24Vac 250mA in Normal display mode @ 24Vac For replacement of 24F750A: (see Note below) 15Vdc (+ 0/-2Vdc) 350mA in Bright display mode @ 15Vdc 250mA in Normal display mode @ 15Vdc
Note: When replacing 24F750A clocks, the pigtail plug from the previous clock can be directly connected to the 24ZB40 without rewiring. The rated current consumption of the 24F750A is 300mA, allowing direct replacement at the Normal intensity setting. If the Bright setting of the 24ZB40 is to be used, the existing loading on the power supply must be measured to see if there is sufficient supply capacity.	
Viewing Distance	160 ft (48.8 m) in the Bright intensity mode with normal lighting 150 ft (45.7 m) in the Normal intensity mode with normal lighting
Display Size	4 in (10.2 cm) high by 10 in (25.4 cm) wide
Electrostatic Discharge	Installed clock is ESD-hardened to IEC 801-2 requirements (+/– 8kV direct, +/– 15kV air discharge)
Terminations	Pigtail leads color-coded
Lens	Anti-glare Acrylic
Dimensions	5.8 in (14.7 cm) high by 19.0 in (48.3 cm) wide by 2.5 in (6.4 cm) deep
Weight	2.5 lbs (1.1 kg) (without packaging)
Mounting	Wall-mounted using two-gang masonry box Ceiling-mounted using conduit extensions
Finish	Charcoal gray
Bezel	Charcoal gray ABS plastic, 5.8 in (14.7 cm) high by 19.0 in (48.3 cm) wide by 0.94 in (2.4 cm) deep
8A425	Surface Mount Clock Backbox, 19 in (48.3 cm) long by 7 in (17.8 cm) high by 1.5 in (3.8 cm) deep, charcoal gray enamel finish. Low profile box allows the 24ZB40 to be mounted on an existing wall surface.
110-3693	AC Clock Power Supply, 5 amps (rms), mounts in a 145-184-SC Power Supply Backbox with either a 110-2190-SC flush-mount door or a 110-2191-SC surface-mount door (order separately according to your application's requirements). Three power supplies maximum per backbox.
110-3902	Four-inch Digital Clock Dual Enclosure, Wall or Ceiling Mount
The Model 24ZB40 Four-Inch Digital Secondary Clock can be controlled by any of the following master clock products: Edwards Models 24A715 or 24A715M Master Time/Program Clock. Note: Correction by a Dukane MCS350 system, or CPC-E based StarCall system may require use of Model 110-3836 Digital Clock Sync Module.	
24A715, 24A715M	Edwards Master Clock (rack-mount)
MCS350	Dukane Intercom System with Master Clock
SCR	Dukane StarCall Platform Integrated Communications Systems

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24SC12R-SPL and 24SC15R-SPL Analog Secondary Clock

The Edwards Model 24SC12/15R-SPL Secondary Analog Clock combines the advantages of a long-life quartz movement with microprocessor technology to provide a round 12- or 15 inch analog clock with contemporary styling. The 24SC12/15R-SPL is a direct replacement for the Edwards 24SS Series synchronous secondary analog clock. It can also be directly connected to the wiring for Edwards Model 24D20A or 24D40A digital clocks. The 24SC12/15R-SPL allows the use of both analog and digital clocks on the same line and it can emulate the correction schemes of many popular analog secondary clocks from various manufacturers. The desired emulation mode is selected using a simple DIP switch setting. This allows the 24SC12/15R-SPL to be used as a replacement for failed clocks in many systems, regardless of their original manufacturer.

The 24SC12/15R-SPL is designed to be flush- or surface-mounted while requiring no special backboxes or mounting hardware. It can be mounted as a ceiling or wall double-face clock using third-party hardware. The Shatter Resistent 24SC12/15R-SPL is provided with a single piece black metal rim with a convex acrylic lens. Clock face time markings are Arabic numerals in a 12-hour format with black hour and minute hands and a red second hand. This clock works with the Edwards Model 24A715 or 24A715M master clocks, as well the Dukane StarCall and MCS350 communication systems. The 24SC12/15R-SPL complies with FCC Part 15 Class A and meets the requirements for installation in educational, institutional, and commercial sites. The installed analog clock is ESD-hardened to IEC 801-2 standards.

Specifications: 24SC12/15R-SPL Analog Secondary Clock	
Diameter	12 in (30.5 cm) or 15 in (38.1 cm)
Shape	Round
Face	Black Arabic numerals (1-12) on a white background
Rim	Steel, single piece (no welds), matte black painted finish
Connections	Each clock is furnished with an analog and digital cable pigtail assembly, each 12 inches (30.5-cm) in length with a polarized plug Analog Wiring: Red (correction) Black (run motor) White (common, return) Green/shield (safety ground) Digital Wiring: Black (common) Brown (reset) Blue (24Vac) Blue/White (24Vac) Orange (clock)
Correction	Depends on DIP-switch selected master clock compatibility
Frequency And Power Requirements	Input Current: 50mA @ 24Vac Input Voltage: 24Vac/60 Hz 120Vac/60 Hz (requires Model 110-3950 120V Adapter Kit—sold separately)
Mounting	Flush: Mount to a RACO 696 two-gang masonry backbox or equal (sold separately) Surface: Clock provided with a wire mold knockout. Extend wire mold from a RACO two-gang masonry back box mounted above ceiling (wire mold and electrical box sold separately). Double Faced: Follow third-party manufacturers' mounting instructions.
Notes: New installations may require either a Model 110-3900 Mounting Plate or 110-3950 120Vac Adapter Kit. See Associated Equipment, below.For more detailed information, refer to the latest revision of document number 3100673, the Model 24SC12R Installation Manual.	

9A1900 Elapsed Timer Start Button

- Single switch operation
- Stainless steel wallplate
- Precious metal contacts
- Works with model 24CC10 clock controller

The Edwards Model 9A1900 Elapsed Timer Start Button is used with the Edwards Model 24CC10 Clock Controller. When the PRESS TO START TIMER pushbutton is pressed, it provides a momentary contact closure that automatically starts the clock controller's "Count Up Timer" function, overriding all other active clock controller functions.

Specifications: 9A1900 Elapsed Timer Start Button	
Switch Type	SPDT momentary pushbutton (spring-action return)
Designation	PRESS TO START TIMER
Dimensions	4-1/2 in (11.4 cm) high, 2-3/4 in (7 cm) wide, and 7/8 in (2.2 cm) deep
Terminations	Pigtail Leads
Net Weight	2 oz (56 grams)
Finish	Satin-finished stainless steel
Mounting	Standard flush-mounted single-gang backbox more than 2 in (5.1 cm) deep

110-3693 AC Clock Power Supply

- Continuous duty operation
- Easily accessible fuses
- Screw terminal outputs
- Includes correction coil relay
- Outputs permit class 2 wiring

The AC Clock Power Supply provides a convenient 24Vac source for operating synchronous clocks and bells. The low voltage and current output of this power supply allows Class 2 wiring to be used. An onboard relay allows clock correction coils to be easily interfaced with Edwards master clocks. This supply mounts with the standard Edwards power supply backbox and doors.

110-3693 AC Clock Power Supply System	
Rated Outputs	24Vrms @ 5A unregulated total (two separate 2.5A outputs)
Rated Input	120Vac, 60 Hz, 1.4A
Relay Input/ output	Coil rated 24Vdc @ 40mA Contacts rated 10A resistive with 240Vac or 30Vdc maximum
Net Weight	AC Clock Power Supply: 7 lb, 1 oz (3.4 kg) 110-2190 Flush Mt Door: 3 lb, 13 oz (1.7 kg) 110-2191 Surface Mount Door: 3 lb, 7 oz (1.6 kg) 145-184 Backbox: 8 lb, 7 oz (3.8 kg)

Ordering Information

Model	Description
Two-inch Digital Clock Housing and Associated Equipment	
24ZB20	Two-inch Digital Secondary Clock (wireless optional)
110-1674	Wall Mount Dual Enclosure for 2" Clock
110-1675	Ceiling Mount Dual Enclosure for 2" Clock
8A225	Surface Mount back box for 2" Clock
24SS Series Secondary Analog Clock*	
24SS12RDAGA	Clock, 12" Round, Double Wall, 115Vac/60Hz
24SS12RDAGA-SPD	Clock, 12" Round, Double Face Wall, 115Vac/60Hz, Shatterproof Lens
24SS12RDAGC	Clock, 12" Round, Double Face Wall, 24Vac/60Hz
24SS12RDAGC-SPD	Clock, 12" Round, Double Wall Face, 24Vac/60Hz Shatterproof Lens
24SS12RFAGA	Clock, 12" Round, Semi-Flush, 115Vac/60Hz
24SS12RFAGA-SPS	Clock, 12" Round, Semi-Flush, 115Vac/60Hz, Shatterproof Lens
24SS12RFAGC	Clock, 12" Round, Semi-Flush, 24Vac/60Hz
24SS12RFAGC-SPS	Clock, 12" Round, Semi-Flush, 24Vac/60Hz, Shatterproof Lens
24SS12RSAGA	Clock, 12" Round, Surface, 115Vac/60Hz
24SS12RSAGA-SPS	Clock, 12" Round, Surface, 115Vac/60Hz, Shatterproof Lens
24SS12RSAGC	Clock, 12" Round, Surface, 24Vac/60Hz
24SS12RFAGC-SPS	Clock, 12" Round, Semi-Flush, 24Vac/60Hz, Shatterproof Lens
24SS12RSAGA	Clock, 12" Round, Surface, 115Vac/60Hz
24SS12RSAGA-SPS	Clock, 12" Round, Surface, 115Vac/60Hz, Shatterproof Lens

Ordering Information Continued

Model	Description
24SS Series Secondary Analog Clock* - Continued	
24SS12RSAGC	Clock, 12" Round, Surface, 24Vac/60Hz
24SS12RSAGC-SPS	Clock, 12" Round, Surface, 24Vac/60Hz, Shatterproof Lens
24SS15RDAGA	Clock, 15" Round, Double Wall, 115Vac/60Hz
24SS15RDAGC	Clock, 15" Round, Double Wall, 24Vac/60Hz
24SS15REAGC	Clock, 15" Round, Double Ceiling, 24Vac/60Hz
24SS15RFAGA	Clock, 15" Round, Semi Flush, 115Vac/60Hz
24SS15RFAGC	Clock, 15" Round, Semi Flush, 24Vac/60Hz
24SS15RSAGA	Clock, 15" Round, Surface, 115Vac/60Hz
24SS15RSAGC	Clock, 15" Round, Surface, 24Vac/60Hz
Wireguard	
23 WG 12S	For 12 in Surface/Semiflush Clock
23 WG 15S	For 15 in Surface/Semiflush Clock
23D	Dual Conversion Ring for 12" Round Clock
23S	Conversion Ring, Convert 12"Round Semi-Flush to Surface Mount
Associated Equipment	
24A715, 24A715M	Master Clock/Program Clock (M=Modem optional)
8-SAM0576	Backbox for Semi-Flush Analog SS Clock
110-3693	Power Supply (Class II)
145-184-SC	Backbox, Surface or Flush Mounted, holds up to three Model 110-3693 Power Supplies
110-2190-SC	Flush Mount Door for Model 145-184-SC Backbox
110-2191-SC	Surface Mount Door for Model 145-184-SC Backbox

*Can be used with Dukane StarCall System and Dukane MCS350 System

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Synchronized Wired Clock Systems
Wired Clock Systems and Accessories

Ordering Information

Model	Description
24CC10 Clock Controller and Associated Equipment	
24CC10	Clock Controller
24A715M	Master Time/Program Clock (M= Modem optional) StarCall or MCS350 System
24ZB20	Two-Inch Digital Secondary Clock
24ZB40	Four-Inch Digital Secondary Clock
9A1900	Digital Clock Controller Remote Start Button
110-3693	24Vac Clock Power Supply (for use with additional digital secondary clocks)
17A437	24Vdc Clock Power Supply (80mA, plug-in, low power supply for use with one 24CC10)
Four-inch Digital Clock Housing and Associated Equipment	
110-3902	Dual Four-inch Digital Clock Housing
8A425	4 inch Surface Mount backbox
RACO Model 696	Two-gang masonry box, 3-3/4 in (9.5 cm) high, 3-25/32 in (9.6 cm) wide, 3-1/2 in (9 cm) deep
24ZB40	Two-inch Digital Secondary Clock (wireless optional)
24ZBM2040	Wireless Module for 24ZB40
Digital Clock/Speaker and Associated Equipment	
110-3822	Digital Clock Speaker Housing This housing has the opening and capability for mounting a standard 8 in (20.3 cm) round speaker.
145-192	Backbox, flush mount. Overall dimensions: 13-3/4 in (35 cm) wide, 12-3/4 in (32.4 cm) high, 3-1/4 in (8.3 cm) deep. Rear of box dimensions: 12-1/2 in (31.8 cm) wide, 12-3/4 in (32.4 cm) high.
110-788	Surface or Double face Clock/Spk Enclosure
5A606	Speaker W/Transformer
Analog Secondary Clock and Associated Equipment	
24SC15R-SPL	15" Smart Analog Clock
24SC12R-SPL	12" Smart Analog Clock
24A715	Master Program Clock
24A715M	Master Time/Program Clock (M= Modem optional) StarCall or MCS350 System
	StarCall Master Program Clock
110-3900	Mounting Plate (required if 110-3950 is not used)
110-3950	120Vac Adapter Kit
110-3693	Power Supply (Class II), 24Vac
145-184-SC	Flush Mount Door for Model 145-184 Backbox
110-2191-SC	Surface Mount Door for Model 145-184 Backbox
145-184-SC	Backbox, surface or flush mount (holds three Model 110-3693 Power Supplies)

Ordering Information Continued

Model	Description
AC Clock Power Supply and Associated Equipment	
110-3693	AC Clock Power Supply (1, 2, or 3 employed)
145-184-SC	Backbox (Up to three power supplies can be mounted in a single backbox)
110-2190-SC	Door (Flush Mount)
110-2191-SC	Door (Surface Mount)
Digital Clock Sync Module and Associated Equipment	
24ZB20	Two-Inch Digital Secondary Clock
24ZB40	Four-Inch Digital Secondary Clock
110-3693	24Vac Clock Power Supply Assembly
110-3521A	CPC-E Central Processor Card (StarCall)
110-3542	Power Supply Module (StarCall)

Synchronized Wireless Clock Systems
Wireless Timekeeping Equipment

Edwards wireless clock solutions comprise a reliable master/slave cascading network that synchronizes clocks from a central on-site master controller. The master clock receives highly accurate time signals from an NTP or GPS source and relays timecodes to local slave clocks via wireless signals.

Each clock in the system is capable of receiving and transmitting the wireless signal which allows it to be used as a repeater while boosting the data stream and sending along the system. With this dual capability there is no limit to the number of clocks that can be installed throughout highrises, sprawling facilities, and small buildings alike.

Because the signal fans out and is repeated by a cascading number of devices, a single clock will typically receive its data from a number of different angles. This dramatically reduces the effect of obstructions, noise sources, or long distances on the reliability of the system. Furthermore, if an individual clock looses its signal, it will link to a nearby clock and automatically synchronize with that new source.

The cascading network also reduces system setup and installation costs, thanks to the relatively low signal strength that is necessary for it to function efficiently. This eliminates the expense and time required to obtain an FCC license.

The Dukane Model 24ZB20 and 24ZB40 Secondary Clocks provide a highly visible, even-intensity, long-life display of time in selectable formats. They can be operated in either 12- or 24-hour format, and at either Bright or Normal intensity levels. The time display on the secondary clock updates to the master clock time at one-minute intervals. These cost-effective digital clocks can be used in a wired timekeeping system or, with the addition of the optional ZigBee module 24ZBM2040, can be installed on a wireless system. See data sheet 85098-0003 for more product information and mounting options.

Standard Features

- ZigBee open protocol cascading wireless network
- Master clock supports GPS or NTP time source
- Slave clocks act as signal repeaters for enhanced reliability
- Easy to install: low voltage power and signaling; no wiring, no FCC radio license required
- Intuitive browser-based setup
- Digital clocks support count-up/count-down timers and message actuation via wall button (Edwards-24ZB266 and Edwards 24ZB456 only) or via remote, or event timing
- Date and time clocks support English, French and Spanish formatting
- Digital clocks are powered via plug-in 110 Vac transformer
- Analog clocks may be powered by plug-in 110 Vac transformer or by batteries.
- Master Clock V2.3 program digital secondary clocks to countdown class change or break times

110-3693 AC Clock Power Supply

The AC Clock Power Supply provides a convenient 24Vac source for operating synchronous clocks and bells. The low voltage and current output of this power supply allows Class 2 wiring to be used. An onboard relay allows clock correction coils to be easily interfaced with Edwards master clocks. This supply mounts with the standard Edwards power supply backbox and doors.

Standard Features

- Continuous duty operation
- Easily accessible fuses
- Screw terminal outputs
- Includes correction coil relay
- Outputs permit class 2 wiring

Synchronized Wireless Clock Systems
Wireless Timekeeping Equipment

Hardware Specifications	
Master Clock	
Operating Current	Powered by an AC Adapter from 120VAC to 19V 3A UL/CSA, CE approved AC cord with U.S. type 3 prong grounded plug, or directly from AC24V
Storage & Operating Environment	50 to 120° F (10 to 49° C); Humidity: 10% to 95% non-condensing
Agency Listings	UL /CSA, FCC
Construction and Finish	Black metal
Master Clock Mounting	Configured as a 19" Rack mount. “Computer Server Black” metal case, 435mm (W), x 295mm (D), x 45mm (H)
Transmitting power from master clock	Approximately 0.06W at 2.450~2.480Ghz.
Synchronization time from master to slave clock and slave-to-slave clock (one repeater jump)	Not to exceed 0.007 seconds (7mS), maximum jump time is 19; maximum delay 0.13 seconds (133mS)
Time Synchronization	NTP or GPS Master Clocks are synchronized every second; the system has an internal oscillator that maintains plus or minus one second per day between synchronizations so that clock accuracy does not exceed plus or minus 0.2 seconds.
Relay Contacts	4 relay dry contact O/P (NC, C, NO), 5A, Programmable timer for bell operation or lamp on/off control
Scheduling	Supports an interface for a software application to manage bell/tone schedules and count down time breaks of class changes
Master clock	Supports the synchronization of an unlimited number of slave clocks or digital displays.
GPS Antenna	Operating temperature: 50 to 104° F (10 to 40° C); Humidity: 0% to 95% non-condensing, Length of signal cable: 4.5 meters optional 50 meter extension cable, window or roof mounted
Regulatory information	North American standards: FCC Part 15, Subpart A, Subpart C; Canadian ICES-003; CSA C108.8; UL 863 Additional rules and guidelines: ZigBee Alliance (http://www.zigbee.org/en)
Digital Clocks	
Mounting	Wall mount and ceiling mount
Daylight Saving Rules	Factory set. Reconfigurable to any new rule without a hardware update.
Slave clocks	Act as repeaters. Maximum repeat time is 19; average transmission range should be 100 meters. Line of Sight (LOS) range (nothing blocking) will be 200 meters. It is expected that there will be one slave clock on each floor, within close proximity to each other, when supporting a multi-floor configuration. Synchronization time from master to slave clock and slave-to-slave clock (one repeater jump) shall not exceed 0.007 seconds (7mS), maximum jump time is 19; maximum delay should be 0.13 seconds (133mS). The slave digital clock colon stays lit when the clock is synchronized. If more than seven minutes elapse with no data received from the master clock, the slave clock will run on its time based (crystal) and the colon will flash.
Code Blue	Edwards 24ZB266 and Edwards 24ZB456 interface to Nurse Call systems that support relay pulse interface to start code blue count up. When invoked, a relay/pulse is sent to the timer, which triggers it to begin counting up. If a code blue status is in effect, it will take priority and the timer’s previous task will run in the background until the code blue function is stopped. A switch control allows the user to operate the timer in multiple modes. (3.0mA max. @ 5vac/dc–120vac/dc)
Analog Clocks: see list below for part numbers	
Self running accuracy	Within two seconds per day.
Adjustment	Sensors automatically position hands. No manual adjustment necessary.
ZigBee transmission frequency	2.475GHz
FCC & IC approval wireless module	FCC ID:RF2IPLINK12235142, IC ID:8576AIPLINK5142
Antenna	Internal
Working time on battery power	Four years or more. AC power and central power options also available.
Physical	12" (345mm) dia X 61mm depth 1.0 Kg or 15" (430mm) dia X 45mm depth 2.0 Kg
Frame	Plastic or metal with shatter proof plastic face
110-3693 AC Clock Power Supply System	
Rated Outputs	24Vrms @ 5A unregulated total (two separate 2.5A outputs)
Rated Input	120Vac, 60 Hz, 1.4A
Relay Input/output	Coil rated 24Vdc @ 40mA Contacts rated 10A resistive with 240Vac or 30Vdc maximum

Synchronized Wireless Clock Systems
Wireless Timekeeping Equipment

Ordering Information

Model	Description						
Master Clock/Transmitters							
24ZBMC100	Master Clock, NTP/GPS time based, with ZigBee transmitter/receiver, UL Listed, AC Adapter, 650 x 400 x 200 mm / 5.0 kg						
24ZBM2040	Wireless transmitter/receiver module						
ZigBee Wireless Digital Clocks (Count down/up)	**Size (WxHxD)**	**Weight**	**LED Size**	**LED color**	**Power in**	**Current**	**Included**
24ZB20	11.9 x 4.5 x 1.75 in (303 x 114 x 44 mm)	0.8 lb (0.369 kg)	2 in	Red	24Vac (+/– 5Vac)	67mA - Normal 122mA - Bright	Count up functionality with optional wall controller
24ZB40	19.0 x 5.8 x 2.5 in (483 x 147 x 64 mm)	2.5 lb (1.1 kg)	4 in	Red	24Vac (+/– 5Vac)	250mA - Normal 350mA - Bright	Count up functionality with optional wall controller
24ZB266	13.8 × 6.7 × 2.6 in (350 × 170 × 65 mm)	3.5 lb (1.6 kg)	Hours: 2.66 in Minutes: 2.66 in Seconds: 2.0 in	Red	110 VAC	0.2 Amp	Code Blue wired input, mounting hardware, 110 VAC power cord.
24ZB266D	25.8 × 6.7 × 2.6 in (655 × 170 × 65 mm)	7 lb (3.2 kg)	Hours: 2.66 in Minutes: 2.66 in Seconds: 2.0 in Date: 1.2 in	Hours, minutes, seconds: Red Date: Amber	110 VAC	0.4 Amp	Mounting hardware, 110 VAC power cord.
24ZD266DW or 24ZB266W (Double-Faced)	13.8 × 6.7 × 5.1 in (350 × 170 × 130 mm)	10.5 lb (4.8 kg)[1]	Hours: 2.66 in Minutes: 2.66 in Seconds: 2.0 in	Hours, minutes, seconds: Red	19 VDC	12 to 30 VDC 21 Watts	Ceiling mount hardware, 110 VAC power adapter.
24ZB266DW (Double-Faced)	13.8 × 6.7 × 5.1 in (350 × 170 × 130 mm)	17 lb (7.8 kg)[1]	Hours: 2.66 in Minutes: 2.66 in Seconds: 2.0 in Date: 1.2 in	Hours, minutes, seconds: Red Date: Amber	19 VDC	12-30 VDC 33 Watts	Ceiling mount hardware, 110 VAC power adapter.
24ZB456	21.7 × 6.7 × 2.6 in (550 × 170 × 65 mm)	6.2 lb (2.8 kg)	Hours: 4.56 in Minutes: 4.56 in Seconds: 3.0 in	Red	110 VAC	0.2 Amp	Code Blue wired input, wall mount hardware, 110 VAC power cord.
24ZB456W (Double-Faced)	21.7 × 6.7 × 5.1 in (550 × 170 × 130 mm)	15.4 lb (7 kg)[1]	Hours: 4.56 in Minutes: 4.56 in Seconds: 3.0 in	Red	19 VDC	12-30 VDC 21 Watts	Ceiling mount hardware, 110 VAC power adapter.

[1]Stated net weight includes three-step ceiling mounting pole.

Notes:
1. Acceptable low DC voltage operating range
2. Maximum wattage (DC volts × DC amps) over the range of input voltages (worst case)

AC Clock Power Supply

110-3693	AC Clock Power Supply	7 lb, 1 oz (3.4 kg)
110-2190-SC	Flush Mount Door	3 lb, 13 oz (1.7 kg)
110-2191-SC	Surface Mount Door	3 lb, 7 oz (1.6 kg)
145-184-SC	Backbox	8 lb, 7 oz (3.8 kg)

Synchronized Wireless Clock Systems
Wireless Timekeeping Equipment

Ordering Information

Model	Format	Diameter	Depth	Weight	Power	Frame
ZigBee Wireless Analog Clocks						
24ZBP12R	12-hr face	12 in (305 mm)	2.4 in (6.1 cm)	2.2 lb. (1.0 kg)	Battery power or central 24V AC power supply. Can keep batteries in the clock as power loss backup.	Black Plastic with shatter proof lens
24ZBP212R	12/24-hr face					
24ZB12R	12-hr face	12 in (305 mm)	1.8 in (45 mm)	2.64 lb (1.2 Kg)	Central 24V or AC adapter power supply	black metal frame with shatter proof lens
24ZB212R	12/24-hr face	12 in (305 mm)	1.8 in (45 mm)	2.64 lb (1.2 Kg)		
24ZB15R	12-hr face	15 in (381 mm)	1.8 in (45 mm)	4.41 lb (2.0 Kg)		black metal frame
24ZB215R	12/24-hr face	15 in (381 mm)	1.8 in (45 mm)	4.1 lb (2.0 kg)		
12" Wireless Dual Face Metal Mounting Kit						
24ZBDCF12R		12 in (305 mm)	6.2 in (160 mm)	10.36 lb (4.7 Kg)	—	black metal frame with shatter proof lens
Supplemental Clock for Dual Face Kit - 12 hour face						
24ZB12RSC	12-hr face	12 in (305 mm)	1.8 in (45 mm)	2.64 lb (1.2 Kg)	—	black metal frame with shatter proof lens
Supplemental Clock for Dual Face Kit - 12/24 hour face						
24ZB212RSC	12/24-hr face	12 in (305 mm)	1.8 in (45 mm)	2.64 lb (1.2 Kg)	—	black metal frame with shatter proof lens

Accessories

Cat. No.	Description
24ZBIFR	IR Count Down Clock Actuator Infrared transmitter distance: max. 10 meters (face to the clock), Operating battery: 1.5V x 2 size AAA, Operating time: about 2 years (depends on how often it is used). Also used to adjust or set LED brightness and to set language displayed.
24ZBMCGPS	GPS Receiver with 4.5 m Antenna Cable (Includes Edwards-MC-040)
24ZBMCGPSEXT	50 Meter Extension cable for GPS antenna
24ZBDEMO1A	Demo carrying Kit, in aluminum carrying case with casters, containing each a 24ZBMC100, GPS receiver w/.4.5M ant. Cable & mount hardware, AC adaptor (KPA-060K), 24ZB266D w/AC adaptor, 24ZB456 w/AC adaptor & 4-tap AC receptacle, GE-IFR-2 clock actuator
24ZBDEMO1B	Demo carrying Kit with aluminum carrying case with casters for analog wireless clocks, containing a 24ZB12R and 24ZB212R with AC adaptors Requires 24WCD-01 (A) Demo Kit
24ZBDCELL-2	2 Alkaline D Cell batteries for 24ZBP12R and 24ZBP212R
24ZB2040 ADAPT	AC Power adapter for 24ZB20 and 24ZB40
24ZBPSCABLE-10	Central power cable for 24ZB15R, 24ZB12R, 24ZB212R, 24ZB20, and 24ZB40; Package of 10 cables
24ZB12VDC2A-10	Optional AC Adapter for 24ZBP12R, 24ZBP212R, 24ZB12R, 24ZB212R, 24ZB15R and 24ZB215R (10 Adapters per Package)
24ZBM2040	Optional Mini ZigBee Module for wireless transmitter and receiver on Models 24ZB20 and 24ZB40
24ZBWG1215R	Analog Clock Wire Guard for 24ZBP12R, 24ZBP212R, 24ZB12R, 24ZB212R and 24ZB15R
24ZBWG266	Metal Wire Guard for 24ZB266 digital clock
24ZBWG456	Metal Wire Guard for 24ZB456 digital clock
110-3900	2-gang analog clock hanger plate-optional

EDWARDS

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Information Age

"There's no doubt that we're living in the Information Age. But all that competition for our attention creates very real challenges when communicating critical messages in real-time.

This is where LED Message Displays from Edwards 'really shine'.

These displays are the most effective way for our company to deliver complex factory-floor information with no ambiguity."

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

LED Message Displays

The need for clear and concise communication has become increasingly important in both the industrial and commercial business environment. LED message displays have transformed the way companies communicate with both their customers and employees. Whether it is the time and temperature on the local bank sign, confirmation of your order at the local drive thru or traffic warnings and announcements on the overpass, LED message displays have become increasingly valuable in today's world.

Edwards offers custom LED message center solutions in addition to standard off the shelf products. Edwards has the message center to fit your needs. We offer a variety of displays in different sizes that can be used as single stand-alone units or be networked into a plant wide communication system. Designed for indoor or outdoor communication in commercial and industrial environments, Edwards' message centers can display production goals and performance, safety goals and performance, changes in employee benefits, company announcements and achievements as well as boost morale through employee recognition. They can also be applied in commercial establishments from retail stores to restaurants as a way to communicate special offers, announcements or specific messages as required.

Applications

- Lean manufacturing measurements on the shop floor, call center or any workplace environment that monitors productivity and advocates continuous improvement
- Display real-time status information and alerts
- Communicate to customer in lobby or waiting area(s)
- Communicate messages directly to supervisory personnel in the office, plant, shipping/receiving etc. regarding meetings, announcements, schedule changes, policy updates, sales and quality reports and more
- Display critical real-time productions information such as efficiency levels, production schedules/changes, system status information and alerts and other select information
- Transmit emergency announcements, department objectives, financial and sales goals, weather updates, etc.
- Communicate operation instructions
- Warehouse environment messaging:
  - — Inventory management, storage, receiving, picking, and shipping.
  - — Improved coordination of orders, parts, priorities and flow
  - — Improved inventory accuracy
  - — Visible tracking of order status, changes and priorities
  - — Prioritization of orders
  - — Visibly display performance information

Call Edwards Signaling Technical Sales Support today to find out more about LED Message Displays at 1-800-336-4206.

Networking Software is also available to assist in creating, scheduling and running ads, announcements and messages. Features include:

Features

- **Message Editor:** Create and preview messages for your LED display
- **Site Manager:** Configure and run an entire network of LED displays, set up schedules and send messages
- **Communication Manager:** Select wireless, LAN, or modem interfaces and monitor activity logs
- **Active X Control:** Manage variable updates and locations on your real-time data displays

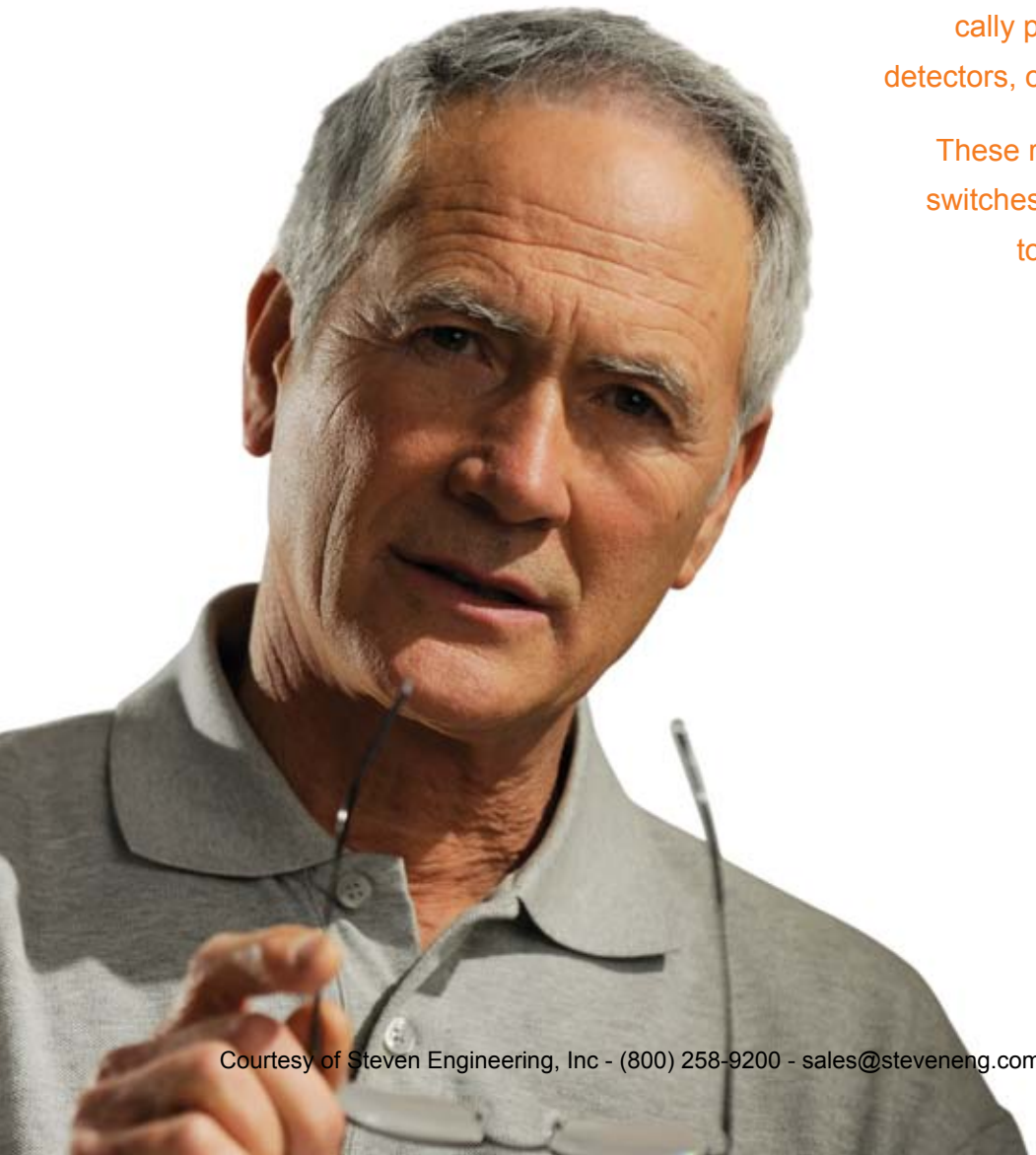
EDWARDS

Fail Safe

"Electromagnetic door holders are a vital part of the systems we have installed in our facility to keep our personnel safe.

All doors remain open until they receive a release signal from our fire alarm system, strategically placed heat or smoke detectors, or electrical switches.

These rugged, good-looking switches silently do their part to keep us safe day-in and day-out."



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Product Index

Edwards offers magnetic door holders, door openers, latches and switches for safe and secure mechanical door operation. These dependable, long service devices provide the security and convenience you need.

Door Holders, Openers and Switches

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Rolling Ball Switches 11-15

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Door Holders, Openers and Switches
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Door Holders
Electromagnetic
1500 Series

The Edwards 1500 Series electromagnetic door holders feature housings finished with durable baked polyester powder paint. The floor or wall section houses the electromagnet while the contact plate attaches to the door. The contact plate has a shock absorbing nylon (swivel) ball that allows the plate to adjust to any door angle. Floor units are available in single-door or double-door (back to back) versions. Wall units are available in flush or surface mounted versions.

If power fails, doors are released automatically but may be opened or closed manually at any time. All units are free of moving parts, are self-contained and require no maintenance.

The device holders hold a door open while energized. When de-energized by a relay controlled by the fire alarm system or other switch, the door is released to a closed position.

Features and Specifications

- Floor and wall mounted styles
- Baked polyester powder paint finish
- Low power consumption
- Silent operation
- 25 Lbf (111N) nominal holding force
- Adjustable, swivel contact plate
- Single-door or double-door (back to back) versions – floor mounted
- Flush or surface mounted versions – wall mounted
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current
Floor Mounted (Single Door)	**1501-AQN5**	24V AC; 24V DC/120V AC	0.015 A
Floor Mounted (Double Door)	**1502-AQN5**	24V AC; 24V DC/120V AC	0.015 A[2]
Flush Wall Mounted (Long Catch Plate)	**1504-AQN5**	24V AC; 24V DC/120V AC	0.015 A
Flush Wall Mounted (Short Catch Plate)	**1505-AQN5**	24V AC; 24V DC/120V AC	0.015 A
Surface Wall Mounted	**1508-AQN5**	24V AC; 24V DC/120V AC	0.015 A
Completely Flush Wall Mounted	**1509-AQN5**	24V AC; 24V DC/120V AC	0.015 A

[1]AC voltage frequency is 60 Hz
[2]Draws 0.015 A per side

Accessories

Description	Cat. No.
Catch plate extension assembly, 1.5”	**1500-1**
Catch plate extension assembly, 2.5”	**1500-2**
Catch plate extension assembly (5.25 to 7.5 inches)	**1500-7**
Catch plate extension assembly (7.5 to 12 inches)	**1500-12**
Replacement armature - short (for use with 1501, 1502, 1505, 1508 and 1509 door holders)	**CS2595-5**
Replacement armature - long (for use with 1504 door holder)	**CS2598-5**

AC/DC
120°F 32°F OP TEMP
LISTED
FM APPROVED
MEA

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

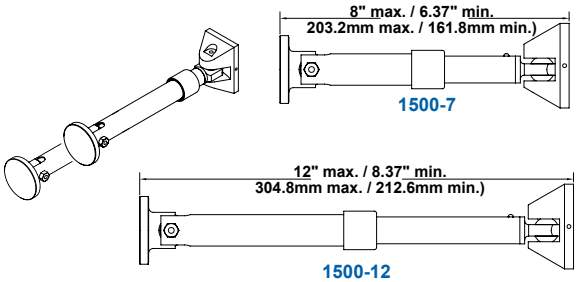
Door Holders
Electromagnetic
1500 Series

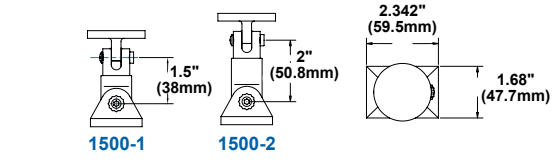
Weights and Dimensions

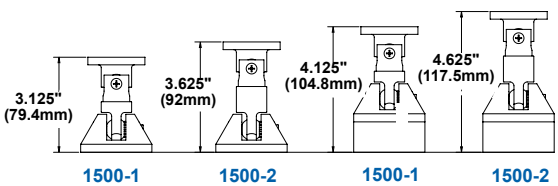
Cat. No.	Approx. Shipping Weight (lb.)
1501-AQN5	5.40
1502-AQN5	5.00
1504-AQN5	2.00
1505-AQN5	2.00
1508-AQN5	3.00
1509-AQN5	2.00
1500-1	0.25
1500-2	0.25
1500-7	0.50
1500-12	1.00
CS2595-5	0.25
CS2598-5	0.25

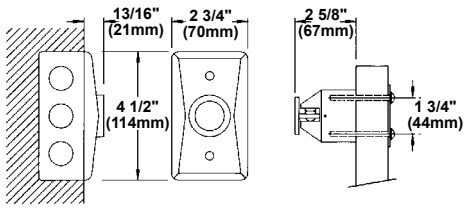
Catch Plate Extensions

NOTE: Only the extension rods are included. The end pieces are included with the doorholders or can be ordered separately.

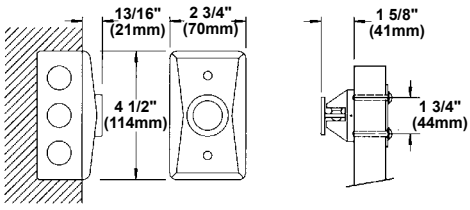




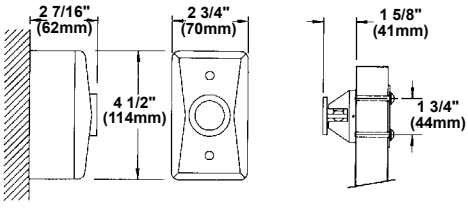




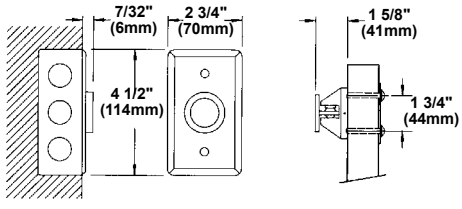
1504-AQN5 Flush Wall Mounted (Long Catch Plate)



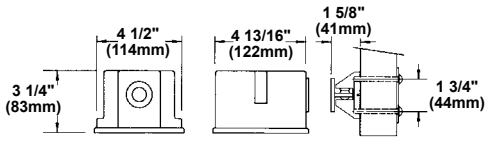
1505-AQN5 Flush Wall Mounted (Short Catch Plate)



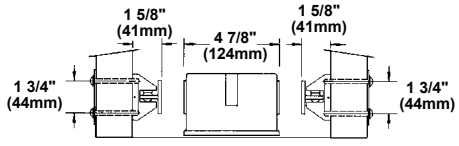
1508-AQN5 Surface Wall Mounted



1509-AQN5 Completely Flush Wall Mounted



1501-AQN5 Floor Mounted (Single Door)



1502-AQN5 Floor Mounted (Double Door)

Door Openers
Rim
150 Series

The 152 rim type surface mounted door opener is a long service device, providing the security and convenience of remote control door-lock operation. The door remains locked until the opener is electrically actuated by a remote contact device.

For AC models, use appropriate Transformer.

Features and Specifications

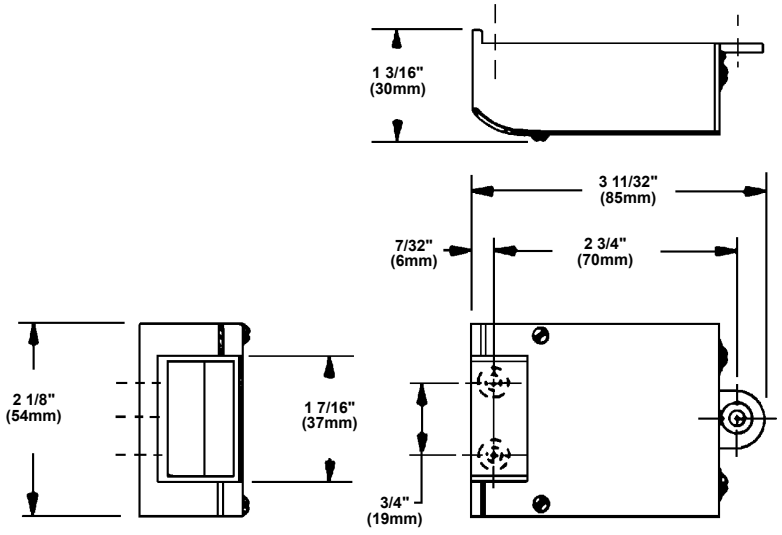
- Brass nosing
- Easy surface installation
- Rugged, heavy duty construction
- For surface mount installations

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Transformer Cat. No.
Rim Door Opener	**152-AE**	4 - 6V DC	1.3 - 2.7 A	–
		8 -16V AC	1.3 - 2.7 A	598
	152-G1	24V DC	0.19 A	–
	152-G5	24V AC	1.40 A	599

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
152-AE	0.70
152-G1	0.70
152-G5	0.70



AC DC AC/DC

Door Openers
Mortise
150 Series

The 150 and 151 mortise door openers are dependable long service devices, providing the security and convenience of remote control door-lock operation. These units are flush mounted in place of the regular door strike plates. The door remains locked until the opener is electrically actuated by a remote contact device. For AC models, use with a 592 Transformer.

Features and Specifications

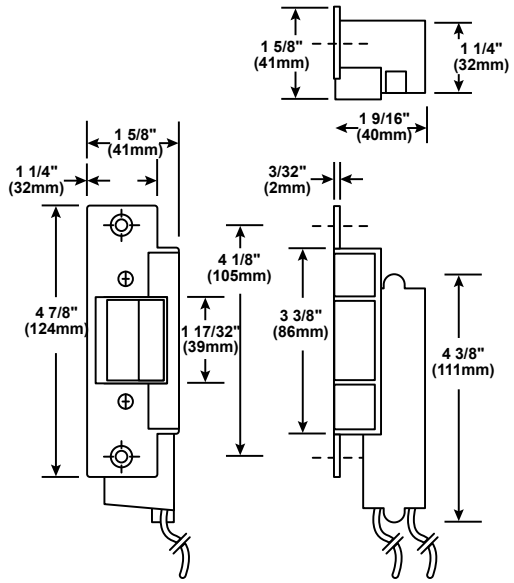
- Easy to install
- Fits left and right hand doors
- Rugged, heavy duty construction
- For use in hollow metal jambs

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Finish
Door Opener	**150-G5**	24V AC	0.42 A	Painted Brass Faceplate with Chrome Nosing
	150-G1	24V DC	0.20 A	Painted Brass Faceplate with Chrome Nosing
	151-G5	24V AC	0.42 A	Brushed Chrome
	151-G1	24V DC	0.20 A	Brushed Chrome

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
150-G5	0.80
150-G1	0.90
151-G5	0.90
151-G1	0.90



AC DC

Door Openers
Mortise
150 Series

The 154 mortise type door opener is a long service device, providing the security and convenience of remote control door-lock operation. This unit flush mounts in place of the regular door strike plate. The door remains locked until the opener is electrically actuated by a remote contact device. For AC models, use appropriate Transformer. See below table.

Features and Specifications

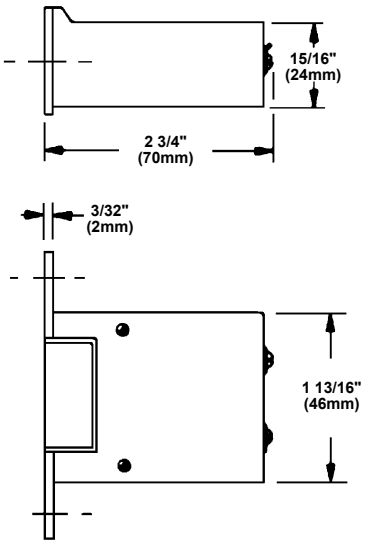
- Painted brass faceplate and nosing
- Fits left and right hand doors
- Easy installation
- Rugged, heavy duty construction
- For use in wood jambs and gating systems

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Transformer Cat. No.
Mortise Door Opener	**154-AD**	4 - 6V DC	1.3 - 2.7 A	–
		8 -16V AC	1.3 - 2.7 A	598
	154-G1	24V DC	0.19 A	–
	154-G5	24V AC	1.40 A	599

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
154-AD	0.80
154-G1	0.80
154-G5	0.80



AC DC AC/DC

Door Openers
Mortise
170 Series

The 170 Series mortise type door openers are long service devices, providing the security and convenience of remote control door-lock operation. These units flush mount in place of the regular door strike plate.

With the non-reverse acting units, the door remains locked until the opener is electrically actuated by a remote contact device. For reverse acting units, the door remains unlocked (with current off). When energized through a timer or manual switch, the unit keeps the door locked.

For AC operation, use with either an 88-50, 596, or 592 Transformer.

Continuous Duty Operation
The 177-RG5 and 178-RG5 are suitable for continuous duty operation. However, when operated from 24V AC, they must be connected through the SR-1 Silencing Assembly. They may also be operated directly from 24V DC.

Features and Specifications

- Fits left and right hand doors
- Easy installation
- Rugged, heavy duty construction
- For use in wood and metal jambs
- Continuous duty operation (**177-RG5** and **178-RG5**)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Transformer	Finish
Non-Reverse Acting	**177-AF**	4 - 6V DC	1.3 - 2.7 A	–	Painted brass faceplate with chrome nosing
		8 - 16V AC	1.3 - 2.7 A	12V tap of 88-50 or 598	
	177-G5	24V AC	1.40 A	24V tap of 88-50 or 599	Painted brass faceplate with chrome nosing
	177-G1	24V DC	0.19 A	–	Painted brass faceplate with chrome nosing
	178-AF	4 - 6V DC	1.3 - 2.7 A	–	Satin chrome faceplace and nosing
		8 - 16V AC	1.3 - 2.7 A	12V tap of 88-50 or 598	
	178-G5	24V AC	1.40 A	24V tap of 88-50 or 599	Satin chrome faceplace and nosing
	178-G1	24V DC	0.30 A	–	Satin chrome faceplace and nosing
Reverse Acting, Continuous Duty	**177-RG5**[1]	24V DC	0.19 A	24V tap of 88-50 or 592[1]	Painted brass faceplate with chrome nosing
	178-RG5[1]	24V DC	0.19 A	24V tap of 88-50 or 592[1]	Satin chrome faceplace and nosing

[1]Requires the SR-1 silencing rectifier.

Accessories

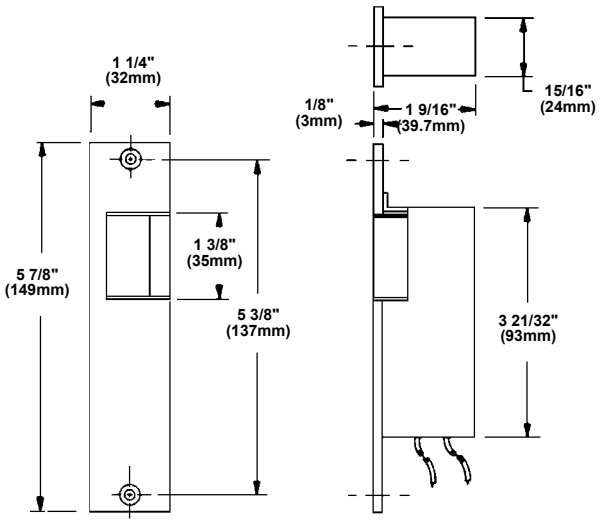
Description	Cat. No.
Silencing Assembly (rectifier)[2]	**SR-1**

[2]Required with AC transformers on reverse action openers. 1 1/4" (32mm) square

Door Openers
Mortise
170 Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
177-AF	0.90
177-G5	0.90
177-G1	0.90
177-RG5	0.90
178-AF	0.80
178-G5	0.80
178-G1	0.80
178-RG5	0.80
SR-1	0.10



Door Openers
Mortise
180 Series

The 180 Series mortise type door openers are long service devices, providing the security and convenience of remote control door-lock operation. These units are used with cylindrical, bored type locksets and conform to ANSI specifications for steel door frames. The door remains locked until the opener is electrically actuated by a contact device. For AC operation, use with either an 88-50 or 598 Transformer.

Features and Specifications

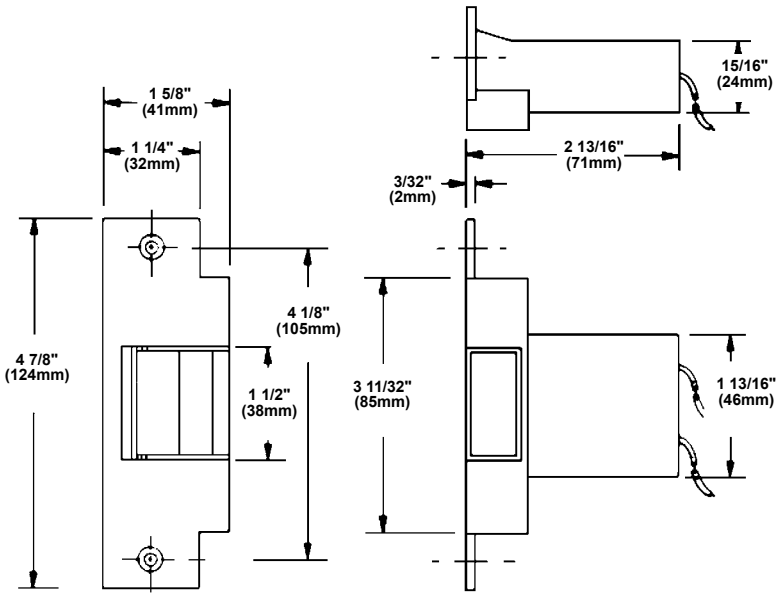
- Fits left and right hand doors
- Easy installation
- Rugged, heavy duty construction
- For use in wood and hollow metal jambs
- Conforms to ANSI specifications for steel door frames

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Transformer Cat. No.	Finish
Mortise Door Opener	**180-AF**	4 - 6V DC	1.3 - 2.7 A	–	Painted brass faceplate with chrome nosing
		8 - 16V AC	1.3 - 2.7 A	12V tap of 88-50 or 598	
	181-AF	4 - 6V DC	1.3 - 2.7 A	–	Satin chrome faceplate and nosing
		8 - 16V AC	1.3 - 2.7 A	12V tap of 88-50 or 598	

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
180-AF	0.80
181-AF	0.90



AC/DC

Door Openers
Mortise
180 Series

The 188 mortise type door opener is a long service device, providing the security and convenience of remote control door-lock operation. The door remains locked until the opener is electrically actuated by a contact device. For AC operation, use with an 88-50 or 598 Transformer.

Features and Specifications

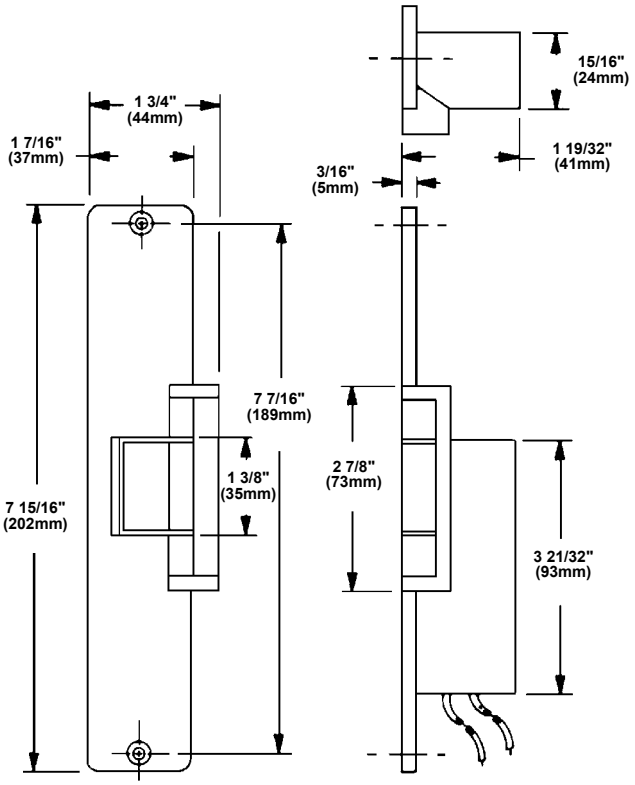
- Fits left and right hand doors
- Easy installation
- Rugged, heavy duty construction
- For use in wood and hollow aluminum jambs

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Transformer Cat. No.	Finish
Mortise Door Opener	**188-AF**	4 - 6V DC	1.3 - 2.7 A	–	Satin zinc faceplate and nosing
		8 - 16V AC	1.3 - 2.7 A	12V tap of 88-50 or 598	

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
188-AF	1.00



AC/DC

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Door Openers
Mortise
9 Series

The 9E and 9G mortise door openers are long service devices, providing the security and convenience of remote control door-lock operation. These units are flush mounted in place of the regular door strike plate. The door remains locked until the opener is electrically actuated by a contact device. For AC operation, use with an 88-50 or 598 Transformer.

Features and Specifications

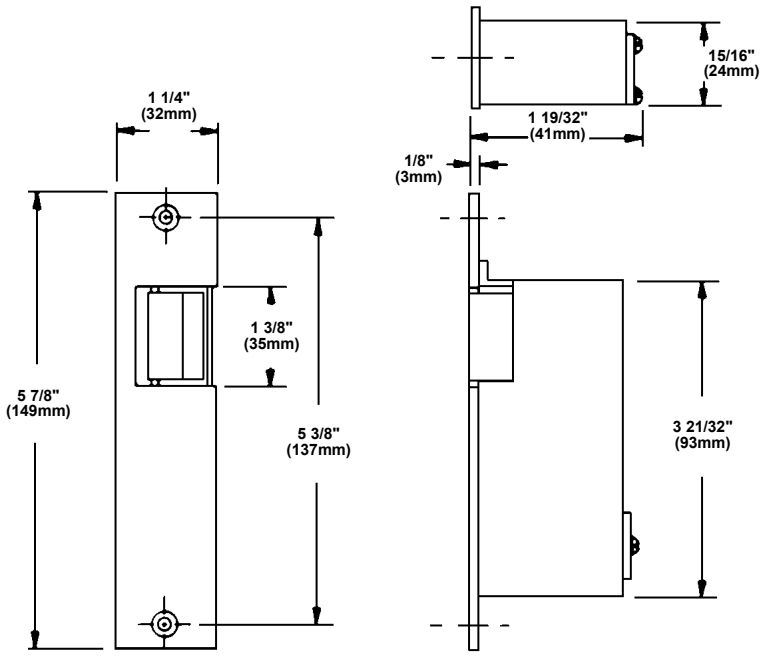
- Fits left and right hand doors
- Easy installation
- Rugged, heavy duty construction
- For use in wood jambs

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Transformer Cat. No.	Finish
Mortise Door Opener	9E	4 - 6V DC	1.3 - 2.7 A	–	Brushed aluminum and lacquered faceplate and nosing
		8 - 16V AC	1.3 - 2.7 A	12V tap of 88-50 or 598	
	9G5	24V AC	1.4 A	598	Brushed aluminum and lacquered faceplate and nosing

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
9E	0.80
9G5	0.80



AC AC/DC

Door Light Switches
500 Series

The 502A and 503A electric door light switches are available as either normally open or normally closed units. The switch mounts using the mounting holes on 3 1/4" (83mm) centers.

The 501A-G may be wired either normally open or normally closed (shipped normally closed). The switch mounts using the mounting holes on 3" (76mm) centers.

Features and Specifications

- All purpose electric door switch
- Normally open or normally closed switches available
- May be wired either normally open or normally closed **(501A-G)**
- Painted gold faceplate **(501A-G)**
- Painted gray faceplate **(502A and 503A)**

Ordering Information

Description	Cat. No.	Switching Voltage	Current	Faceplate Color
Normally Opened or Normally Closed	**501A-G**	120V AC	10 A	Gold
Normally Closed	**502A**	120V AC	6 A	Gray
Normally Opened	**503A**	120V AC	6 A	Gray

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Faceplate (in.)	Switch (in.)
501A-G	0.50	3 7/8 H x 1 1/4 W	2 15/16 H x 1 11/32 W x 1 3/4 D
502A	0.50	4 H x 1 1/2 W	2 15/16 H x 1 11/32 W x 1 3/4 D
503A	0.58	4 H x 1 1/2 W	2 15/16 H x 1 11/32 W x 1 3/4 D

AC

Rolling Ball Switches
Low Voltage
44, 45 and 46E

The 44, 45 and 46E rolling ball switches are insulated, rugged devices that operate from pressure in any direction. Installation requires no mortise.

Features and Specifications

- Fast installation
- Low voltage
- Insulated

Ordering Information

Description	Cat. No.	Operating Voltage	Current	
			DC Current	AC Current
Push to Open	**44**	12V	2 A	2 A
		24V	1 A	2 A
		48V	0.5 A	1 A
Push to Close	**45**	12V	2 A	2 A
		24V	1 A	2 A
		48V	0.5 A	1 A
Push to Make, then Break and Repeat on Return	**46E**	12V	2 A	2 A
		24V	1 A	2 A
		48V	0.5 A	1 A

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Hole Diameter (in.)	Hole Depth (in.)
44	0.10	13/16	1 1/8
45	0.10	13/16	1 1/8
46E	0.10	13/16	1 1/8

Door Trip Switch
Low Voltage
236 Series

The 236 door trip switch is a low voltage contact device for external mounting. The device makes and breaks as the door opens.

Features and Specifications

- Non insulated
- Low voltage
- Zinc plated

Ordering Information

Description	Cat. No.	Switching Voltage
Door Trip Switch	**236**	48V AC max.

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Length (in.)	Width (in.)	Depth (in.)
236	0.10	1 1/4	1 5/16	3 1/4

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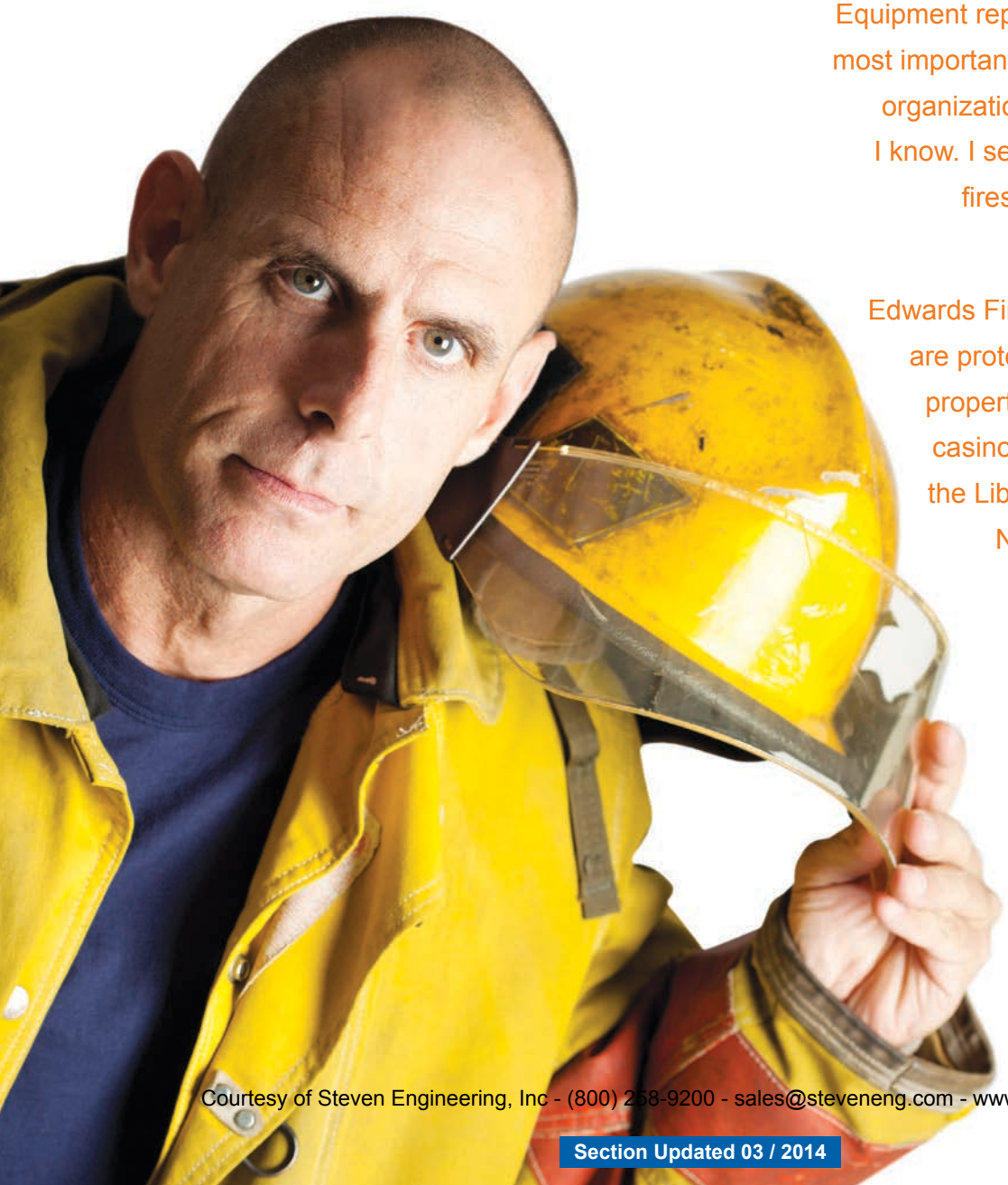
Ounce of Prevention

"Each year in the U.S., fires claim thousands of lives and cause billions of dollars in damage.

Fire Detection and Alarm Equipment represent one of the most important investments any organization will ever make. I know. I see the devastation fires can cause every single day.

Edwards Fire Alarm Systems are protecting people and property every day, from casinos in Las Vegas to the Library of Congress. Need I say more?"



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Product Index

The most important signals are the ones you hope you never need. Edwards has been a leader in the design, manufacture and installation of fire alarm systems for over 140 years. Our premier fire alarm products are engineered for the highest standards of quality, durability and performance. Look to Edwards for fire safety.

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Conventional Fire Alarms
Panels
E-FSC Series

The Edwards E-FSC fire alarm family consists of 3, 5 and 10 zone conventional fire alarm control panels, an integrated DACT/Dialer, serial annunciator modules, and serial remote relay modules. All of these components are microprocessor-controlled. The E-FSC family is suitable for both new and retrofit installations.

E-FSC Series Panels incorporate features designed to simplify installation, operation and maintenance. These include front panel programming, one person walk testing, and selectable IDC and NAC types. In addition, when used with Edwards CleanMe® -compatible smoke detectors, E-FSC provides analog type features such as remote maintenance alert and automatic drift compensation that reduces false alarms and simplifies maintenance calls.

E-FSC502 and E-FSC1004 panels support Class A operation by combining pairs of on-board initiating circuits (IDCs) or notification circuits (NACs) to provide the necessary Class A circuits.

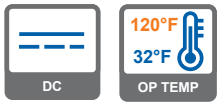
Features and Specifications

- Available in 3, 5, and 10 IDC models
- IDC or NAC pairs convertible to single Class A circuits (10 and 5 IDC panels only)
- Combination Waterflow and Supervisory IDCs reduces wire and zone counts
- NACs programmable by zone and individually selectable for Genesis, continuous, temporal outputs, or coded
- Front panel programmable
- Optional fully integrated DACT/Dialer for remote PC programming
- Genesis option allows precision synchronization and audible silence over two wires without additional modules
- On-board relays for Alarm, Supervisory and Trouble
- Optional serial bus relay modules are programmable for common or zone activation
- Optional serial bus remote annunciator family
- Expandable power supply on 10 IDC panel
- Trim ring available for semi-flush mounting
- Supports 2M, “SC", 2400, 500, and 700 series detectors
- Operating temperature range: 32ºF to 120ºF (0°C to 49°C)

Ordering Information

Description	Cat. No.*	IDCs Class B	IDCs Class A	NACs Class B	NACs Class A	Max. NAC Current	Auxiliary Current[1]	Contacts: Alarm (Form C), Trouble (Form C), Supervisory (Form C)	Color
Control Panel	**E-FSC1004G**	Up to 10	Up to 5	Up to 4	Up to 2	2 A ea, 3.5 A total; 7 A w/optional transformer	0.5 A max.	30V DC @ 1 A resistive load	Gray
	E-FSC1004R	Up to 10	Up to 5	Up to 4	Up to 2	2 A ea, 3.5 A total; 7 A w/optional transformer	0.5 A max.	30V DC @ 1 A resistive load	Red
	E-FSC502G	Up to 5	Up to 2	2	1	2 A ea, 3.5 A total	0.5 A max.	30V DC @ 1 A resistive load	Gray
	E-FSC502R	Up to 5	Up to 2	2	1	2 A ea, 3.5 A total	0.5 A max.	30V DC @ 1 A resistive load	Red
	E-FSC302G	3	N/A	2	N/A	2 A ea, 3.5 A total	0.5 A max.	30V DC @ 1 A resistive load	Gray
	E-FSC302R	3	N/A	2	N/A	2 A ea, 3.5 A total	0.5 A max.	30V DC @ 1 A resistive load	Red

[1]May be programmed as resettable
*__NOTE:__ Add "D" to end of catalog number to add integral dialer; ex: "E-FSC1004GD."



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Conventional Fire Alarms
Panels
E-FSC Series

Ordering Information

Description	Cat. No.	Receivers	Communications Protocol
Digital Communicator/Modem/LCD module (Mounts in control panel)	**F-DACT**	Supports 2 w/2 phone nos. ea.	Contact ID (SIA DC-05), 4/2 (SIA DC-02 P3)

Ordering Information

Remote Annunciator Description	Cat. No.	Max. per System	Contact Rating
Remote System Indicator	**FSRSI**	All panels: 2	N/A
Remote Zone Indicator	**FSRZI-A**	10 zone panel: 4, 3 or 5 zone panel: 2	N/A
	FSRZI-SA	10 zone panel: 4, 3 or 5 zone panel: 2	N/A
F-Series Remote Annunciators[2]	**FSRA10**	10 zone panel: 2	N/A
	FSRA10C	10 zone panel: 2	N/A
Universal Input Module	**FSUIM**	N/A	30V DC @ 1 A resistive load

[2]Used with 10 zone panel only.

Ordering Information

Description	Cat. No.	Max. per System		Contact Rating
		Configured for Zone Mode	Configured for Common Mode	
Remote Relay Module	**FSRRM24**	10 zone panel: 4; 3 or 5 zone panel: 2	All panels: 2	1 A @ 30V DC

Accessories

Description	Cat. No.	Color
Semi-flush trim ring for E-FSC302 and E-FSC502	**F-TRIM35G**	Gray
Semi-flush trim ring for E-FSC302 and E-FSC502	**F-TRIM35R**	Red
Semi-flush trim ring for E-FSC1004	**F-TRIM10G**	Gray
Semi-flush trim ring for E-FSC1004	**F-TRIM10R**	Red
Expander Transformer, 120 Vac - For E-FSC1004* only	**F-XTR120**	
EOL resistors for supervisory/waterflow combination circuit	**EOL3.6-1.1**	
City Tie Module (Requires 4" square or 2-gang North American electrical box)	**CTM**	
Reverse Polarity Module (Requires MFC-A or other listed fire alarm enclosure)	**RPM**	

Accessories (Continued)

Description	Cat. No.
Annunciator Trim Plate, 1 gang	**FSAT1**
Annunciator Trim Plate, 2 gang	**FSAT2**
Annunciator Trim Plate, 3 gang	**FSAT3**
Annunciator Trim Plate, 4 gang	**FSAT4**
11" Mounting track. Holds up to 4 FSRRM24s.	**FSRRM-S11**
Multi-function Cabinet (fire alarm accessory enclosure)	**MFC-A**

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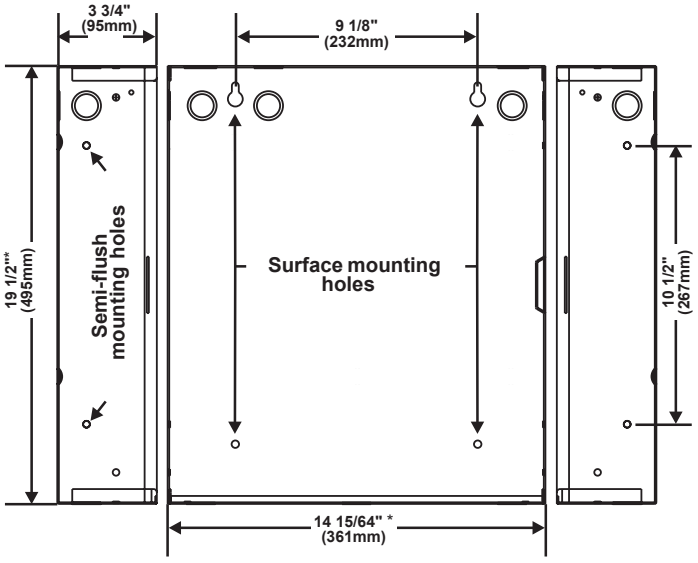
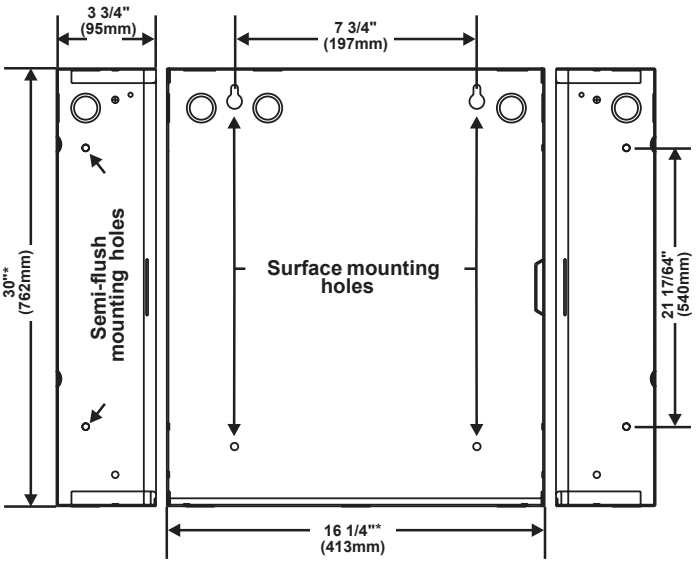
Conventional Fire Alarms
Panels
E-FSC Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
E-FSC1004G	30.50
E-FSC1004R	30.50
E-FSC502G	18.50
E-FSC502R	18.50
E-FSC302G	18.00
E-FSC302R	18.00
F-DACT	1.00
FSRSI	0.30
FSRZI-A	0.30
FSRZI-SA	0.30
FSRA10	1.00
FSRA10C	1.00
FSUIM	0.40
FSRRM24	0.40
F-TRIM35G	1.70
F-TRIM35R	1.70
F-TRIM10G	2.20
F-TRIM10R	2.20
F-XTR120	4.00
EOL3.6-1.1	0.10
CTM	1.00
RPM	3.00
FSAT1	0.10
FSAT2	0.10
FSAT3	0.10
FSAT4	0.10
FSRRM-S11	0.40
MFC-A	7.00



Three and Five Zone



Ten Zone

* Add 1-1/2 in. (38.1mm) for trim kit.

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Conventional Fire Alarms
Smoke Detectors
500 Series

The Edwards 511C is a conventional photoelectric, direct-wire smoke detector with drift compensation, and features a low profile and self-diagnostics. This two-wire detector meets NFPA 72 field sensitivity requirements without the need for external meters.

The 511C continually monitors its own sensitivity and operational status, and provides a visual indication if it drifts out of the sensitivity range or fails internal diagnostics. Drift compensation allows the detector to automatically adjust its sensitivity over time as it becomes dirty, increasing the time between cleaning, and the life of the detector. The patented field replaceable optical chamber simplifies cleaning.

Normal sensing occurs every 9 seconds. This rate doubles when a signal exceeding the alarm threshold value is sensed. Two additional successive signals above the threshold level will initiate an alarm.

Features and Specifications

- Built-in drift compensation
- Field-replaceable optical chamber
- Small, low-profile design
- White color
- Meets NFPA 72 field sensitivity testing without the need for external meters
- Includes mounting base
- Operating temperature range: 32°F to 100°F (0°C to 37.8°C)

Ordering Information

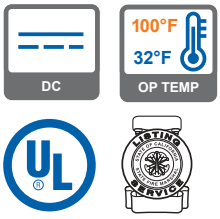
Description	Cat. No.	Operating Voltage	Current (Standby)	Current (Alarm)	Photoelectric Sensitivity	Reset Time	Drift Compensation Adj.	Field Wire Size
Two-wire Conventional Smoke Detector	**511C**	12/24V DC	0.00007 A	0.06 A	3.1%, +0.5%, -1%	1 sec.	1%/ft. max.	18-12 AWG

Accessories

Description	Cat. No.
Replacement optical Chambers (pkg. of 10)	**211-10PKG**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in.)	Height (in.)
511C	0.5	5.0	2.0
211-10PKG	0.5	—	—



Conventional Fire Alarms
Smoke Detectors
500 Series

Edwards 500 Series two-wire conventional photoelectric smoke detectors work on a light-scattering principle. A pulsed infrared light-emitting diode serves as the light source, and a high-speed photo diode as the sensing element. This design protects against nuisance alarms caused by dust, insects, RF interference, and ambient light. Built-in drift compensation allows the detector to automatically adjust its sensitivity over time as it becomes dirty.

The 500 Series optical chamber is field replaceable. In the event of a confirmed alarm the LED will light continuously. The unit indicates trouble by flashing the LED every second. This meets the NFPA 72 field sensitivity testing requirements.

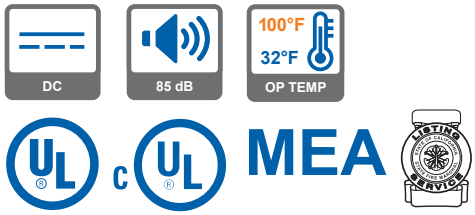
The 500 Series offers sounders in two-wire applications, specifically to meet residential code requirements. Units with built-in 85dBA sounders emit a temporal 3-3-3 tone pattern when in alarm and will emit a steady tone when the input power is reversed. All wiring terminates in clamp-type screw terminals. The detectors mount to a standard single-gang electrical box, a four-inch octagonal, four-inch square electrical box, or WIREMOLD No. 5739 fixture box.

Features and Specifications

- Self-diagnostic capability continually monitors operation
- Remote maintenance (CleanMe) reporting and built-in drift compensation
- Field-replaceable optical chamber
- Low-profile design blends into the ceiling
- Optional auxiliary functions include:
  - Integral sounder; 85dB @ 10ft.
  - Fixed/Rate-of-Rise heats
- White color
- Includes mounting base
- Operating temperature range: 32°F to 100°F (0°C to 37°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current (Standby)	Current (Alarm)	Photoelectric Sensitivity	Reset Time	Drift Compensation Adj.	Field Wire Size
Photoelectric Smoke	**521B**	12/24V DC	0.00007 A	0.06 A	3.1%, +0.50, -1.00%	1 sec.	1%/ft. max.	18-12 AWG
Smoke with Fixed Temp and ROR Heat	**521BXT**	12/24V DC	0.00007 A	0.06 A	3.1%, +0.50, -1.00%	1 sec.	1%/ft. max.	18-12 AWG
Smoke with Heat and Sounder	**521NCSXT**	12/24V DC	0.00007 A	0.06 A	3.1%, +0.50, -1.00%	1 sec.	1%/ft. max.	18-12 AWG



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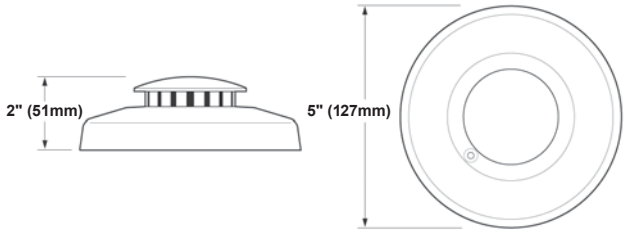
Conventional Fire Alarms
Smoke Detectors
500 Series

Accessories

Description	Cat. No.
Replacement optical Chambers (pkg. of 10)	**211-10PKG**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
521B	0.5
521BXT	0.5
521NCSXT	0.5
211-10PKG	0.5



Conventional Fire Alarms
Smoke Detectors
700 Series

The Edwards photoelectric smoke detector is an interchangeable head and base detector with a light-scattering optical sensor. A pulsed infrared LED light source and a high-speed photodiode-sensing element are housed in an omni-directional sensing chamber protected by an insect screen. The chamber is not affected by ambient light. The detector features a field-replaceable optical chamber to simplify cleaning. The 721UT photoelectric detector includes integral fixed temperature heat detectors.

Edwards 700 Series smoke detectors are suitable for use in commercial and industrial environments. If the detector drifts out of its UL Listed sensitivity range or fails internal diagnostics, the alarm LED flashes once a second to indicate trouble. This meets NFPA 72 field sensitivity testing requirements without the need for external meters.

Applying a magnet near the detector's integral reed switch activates a self-diagnostic routine that provides visual indication of sensitivity level, or if service is required.

Built-in drift compensation allows the detector to automatically adjust its sensitivity over time as it becomes dirty.

Features and Specifications

- Self-diagnostic capability continually monitors operation
- Built-in drift compensation
- Field-replaceable optical chamber
- Low-profile design blends into the ceiling
- Advanced nuisance alarm immunity
- Meets NFPA 72 field sensitivity testing without the need for external meters
- Extensive two-wire compatibility listings
- White head and base
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current (Standby)	Current (Alarm)	Photoelectric Sensitivity	Number of Terminals	Reset Time	Drift Compensation Adj.	Field Wire Size
Two-wire Self-Diagnostic Smoke Detector	**711U**	12/24V DC	0.00007 A	0.06 A	2.85%, +0.37, -1.00%	—	1 sec.	1%/ft. max.	—
Two-wire Self-Diagnostic Smoke Detector with Heat	**721UT**	12/24V DC	0.00007 A	0.06 A	2.85%, +0.37, -1.00%	—	1 sec.	1%/ft. max.	—
Two-wire Self-Diagnostic Smoke Detector Bases	**701U**	—	—	—	—	3	—	—	18-12 AWG
	702U	—	—	—	—	6	—	—	18-12 AWG

Accessories

Description	Cat. No.
Replacement optical Chambers (pkg. of 10)	**211-10PKG**

DC

120°F
32°F
OP TEMP

UL

FM APPROVED

MEA

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Conventional Fire Alarms
Smoke Detectors
700 Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in.)	Height (in.)
711U	0.50	4.0	1.75
721UT	0.50	4.0	1.75
701U	0.25	6.0	0.6
702U	0.25	6.0	0.6
211-10PKG	0.50	—	—

Conventional Fire Alarms
Smoke Detectors
SC Series

The SC Series ionization smoke detectors have a dual chamber design, so they automatically compensate for environmental changes such as atmospheric pressure, humidity and ambient temperature.

A red LED indicator situated on the detector molding provides clear indication when the unit is in alarm.

SC10U-3 detectors plug into the CSBU-1 base unit by a simple twist and lock action. In order to prevent unauthorized removal, a site selectable option is provided to lock the detector into its base. Once applied, the unit can only be removed by means of a special tool.

All SC10U-3 detectors are monitored for detector removal. When a detector (or detectors) is removed from its base, a fault condition is detected.

Features and Specifications

- LED alarm indication
- Sensitivity test feature with use of C-PST test tool
- Tamper resistant with site selectable lock
- White molded high impact fire retardant plastic
- Advanced dual chamber
- Surface mount technology
- Operating temperature range: 32ºF to 100ºF (0°C to 37.8°C)

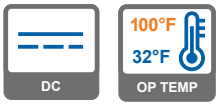
Ordering Information

Description	Cat. No.	Operating Voltage	Current		Sensitivity Range	Terminal Sizes
			Standy	Alarm		
Smoke Detector with Base	**SC10U-3B**	14V - 30V DC	0.00005 A	0.100 A max.	0.65-1.05% obs/ft.	12-18 AWG
Smoke Detector	**SC10U-3**	14V - 30V DC	0.00005 A	0.100 A max.	0.65-1.05% obs/ft.	12-18 AWG
Detector Base (Surface Mount)	**CSBU-1**	—	—	—	—	—
Detector Base with Resistor	**CSBU-3**[1]	—	—	—	—	—

[1]For use with non-current limited circuits.

Accessories

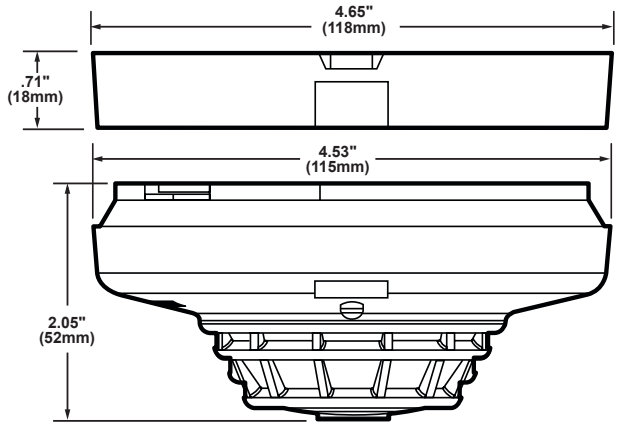
Description	Cat. No.
Test Picker Tool for Sensitivity Reading and Removal	**C-PST**



Conventional Fire Alarms
Smoke Detectors
SC Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
SC10U-3B	0.23
SC10U-3	0.23
CSBU-3	0.20
CSBU-1	0.20
C-PST	5.50



Cat. No. CSBU-1
Detector Base

Cat. No. SC10 Series
Smoke Detector

Conventional Fire Alarms
Hazardous Location Smoke Detector
V9006 Series

The V9006-0001-013 Hazardous Location Smoke Detector is suitable for use in hazardous industrial and commercial locations.

It uses a solid state infrared emitting diode (IRED) and a light sensing photovoltaic cell arranged in a labyrinth assembly. A recessed photodiode provides voltage for amplification to "alarm signal" level. The main enclosure of the detector contains the electronics, alarm relay, supervision relay and facilities for connection to system wiring.

Each detector contains one set of Form A (SPST) N/O contacts for connection to the alarm initiating circuit and a set of (SPST) N/C power supervision contacts.

The detector locks in on alarm and has a lock-in alarm indicator (LED) on the outer surface of the housing. Detector reset is achieved by momentary interruption of power.

Features and Specifications

- Labyrinth assembly
- Self-checking components
- Infrared (IRED) light emitting diode as light source
- CSA certified for use in Class I, Div. 2, Groups A, B, C and D locations
- Residual ripple less than 2% of DC input
- Operating temperature range: -4ºF to 140ºF (-20°C to 60°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current		Max Air Velocity	Contact Rating
			Standy	Alarm		
Hazardous Location Smoke Detector	**V9006-0001-013**	20V - 28V DC	0.010 A	0.035 A	3960 fpm	2 A @ 30V DC 0.5 A @ 125V AC

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Diameter (in)	Depth (in)
V9006-0001-013	6.75	5 5/16	3 1/2

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Conventional Fire Alarms
Beam Detectors
5000 Series

The EC5000R beam detector features a transmitter and receiver in a single enclosure. The transmitter emits an invisible, reflected infrared light beam that is detected by the receiver and analyzed. Smoke in the beam path will reduce the received infrared light proportionally to the density of the smoke. The detector analyzes this and initiates an alarm condition when a predetermined level of obscuration is reached.

The EC5000R System features advanced innovations such as auto-alignment, which indicates the optimal location of the reflector by means of an integrated laser. Once installed, the system automatically steers and maintains the beam to the optimum position for reliable performance.

Features and Specifications

- Range of 26.25 to 330 ft. (8m to 100m)
- Light gray/black ABS housing
- Ground level controller with LCD display
- Up to four detector heads reporting to one controller
- Laser-assisted reflector mounting
- Automatic beam alignment
- Contamination compensation to reduce nuisance alarms
- Building shift compensation
- Separate alarm and trouble contacts
- Built-in electronic UL/ULC obscuration accepted fire test
- Password protected settings
- Programmable fire thresholds
- IP54 rated
- Operating temperature range: 32ºF to 100ºF (0ºC to 37.8ºC)

Ordering Information

Description	Cat. No.	Operating Voltage	Current		Relay Contacts	Reset Time	Optical Wavelength
			Standby	Alarm			
Beam Detector	**EC5000R**	24V DC	0.010 - 0.016 A (low); 0.050 A (high)	0.010 - 0.016 A	1 A @ 30V DC	5 seconds max.	850 nm

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions (In.)								
		Head			Controller			Prism		
		Height	Length	Width	Height	Length	Width	Height	Length	Width
EC5000R	—	5.28	5.31	5.28	3.20	9.25	7.87	0.37	4.13	3.94

DC
100°F
32°F
OP TEMP
IP54
ENCLOSURE
FM
APPROVED
MEA

Conventional Fire Alarms
Duct Detectors, Two-Wire
SuperDuct Series

Less than two inches deep, SuperDuct two-wire smoke detectors are suitable for installation in ductwork, where space is limited. SuperDuct detectors feature removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets to keep contaminants away from components. They include industry standard sampling tube mounting holes to simplify retrofit applications.

SuperDuct detectors use differential sensing to prevent gradual environmental changes from triggering false alarms. A rapid change in environmental conditions, such as smoke from a fire, causes the detector to automatically signal an alarm condition but dust and debris accumulated over time does not change alarm sensitivity.

The relay output may be configured for operation independent of the duct detector. A dedicated dirty/trouble LED on each unit offers immediate at-a-glance information even when the cover is closed.

Remote Test/Reset stations are available to provide alarm testing and indication from a remote location. Two-wire SuperDuct detectors are also compatible with EC-LED remote alarm LEDs.

Features and Specifications

Smoke Sensor

- PCB mounted photoelectric detector with onboard intelligence
- Environmental compensation with differential sensing for reliable, stable, and drift-free sensitivity
- Wide 0.79% to 2.46% obscuration/ft. smoke sensitivity

Detector Assembly

- Less than 2" deep
- Status LEDs remain visible through clear assembly cover
- Cover monitor switch for added security
- Standard sampling tube spacing
- Sampling tube can be installed with or without the cover in place; can be rotated in 45° increments
- On-board Alarm, Trouble, and Dirty LEDs
- Magnet-activated test switch
- One Form C auxiliary alarm relay for controlling ancillary equipment (e.g., HVAC controls)
- Easy access to field connection terminals
- Operating temperature range: -4°F to 158°F (-20°C to 70°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current (Standby)	Current (Alarm)	Alarm Test Response Time	Alarm Impedance	Common Alarm Relay	Sensitivity	Reset Time
Two-wire Detector	**SD-2W**	16-30V DC	0.00007 A	0.005-0.1 A	5 sec.	50 to 750 Ohms	2 A @ 30V DC, Form C	0.79 to 2.46%/ft. obscuration	1 sec.

DC
158°F
-4°F
OP TEMP
FM APPROVED
MEA

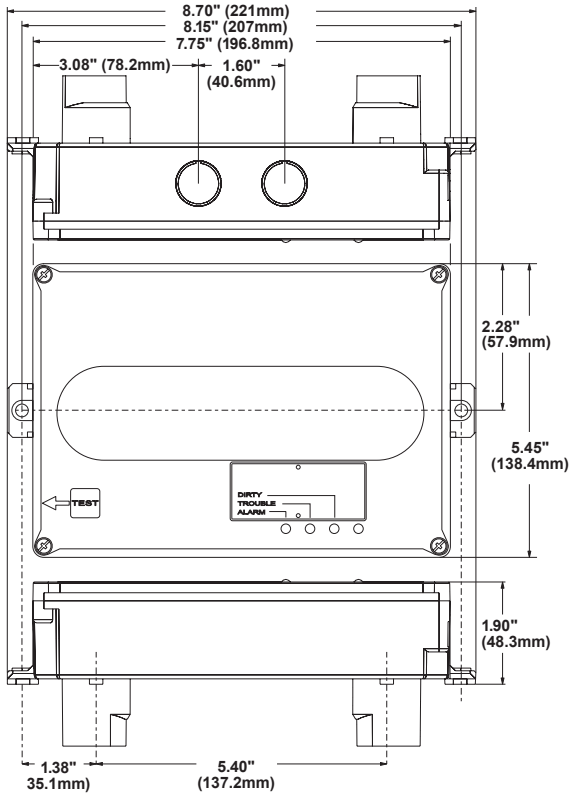
Conventional Fire Alarms
Duct Detectors, Two-Wire
SuperDuct Series

Accessories

Description	Cat. No.
8-inch sampling tube	**SD-T8**
18-inch sampling tube	**SD-T18**
24-inch sampling tube	**SD-T24**
36-inch sampling tube	**SD-T36**
42-inch sampling tube	**SD-T42**
60-inch sampling tube	**SD-T60**
78-inch sampling tube	**SD-T78**
120-inch sampling tube	**SD-T120**
Protective housing for high humidity areas	**SD-PH**
Remote test station, magnetic	**SD-TRM**
Remote test station, keyed	**SD-TRK**
Remote LED indicator	**EC-LED**
Air velocity test kit (stoppers only, etc)	**SD-VTK**
Cover gasket kit	**SD-GSK**
Test magnet kit	**SD-MAG**
Replacement PCB, 2-wire sensor kit	**SD-2WPCB**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
SD-2W	2.40
SD-T8	0.50
SD-T18	1.50
SD-T24	2.70
SD-T36	3.00
SD-T42	3.50
SD-T60	5.80
SD-T78	7.50
SD-T120	11.50
SD-PH	5.50
SD-TRM	1.00
SD-TRK	1.00
EC-LED	1.00
SD-VTK	1.00
SD-GSK	0.50
SD-MAG	0.50
SD-2WPCB	1.00



Conventional Fire Alarms
Duct Detectors, Four-Wire
SuperDuct Series

Less than two inches deep, SuperDuct four-wire smoke detectors are suitable for installation in ductwork, where space is limited. SuperDuct detectors feature removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets to keep contaminants away from components. They include industry standard sampling tube mounting holes to simplify retrofit applications.

SuperDuct detectors use differential sensing to prevent gradual environmental changes from triggering false alarms. A rapid change in environmental conditions, such as smoke from a fire, causes the detector to automatically signal an alarm condition but dust and debris accumulated over time does not change alarm sensitivity.

The relay output may be configured for operation independent of the duct detector. A dedicated dirty/trouble LED on each unit offers immediate at-a-glance information even when the cover is closed.

The controller can be installed up to 15 feet from detector and one controller can support up to two detectors. Up to 15 controllers can be interconnected for multiple fan shutdown.

Remote Test/Reset stations are available to provide alarm testing and indication from a remote location. Two-wire SuperDuct detectors are also compatible with 5956A remote alarm LEDs.

Features and Specifications

Detector Assembly

- Less than 2" deep
- PCB mounted photoelectric detector with on-board intelligence
- Environmental compensation with patented differential sensing
- 100 ft./min. to 4,000 ft./min. air velocity rating
- Standard RJ45 modular interconnection
- Status LEDs visible through clear cover
- Cover tamper reed switch for added security
- Standard sampling tube and mounting holes
- Install in tandem with the controller assembly, or remotely from it
- Magnet-activated test/dirty/reset switch
- No need to open the detector for installation
- Operating temperature range: -4°F to 158°F (-20°C to 70°C)

Controller

- One controller for up to two detectors
- Standard connections for easy migration
- Status LEDs visible through clear cover
- Alarm contact, trouble contact, and two 10 amp auxiliary contacts
- Interconnect up to 15 controllers for multiple fan shut-down

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Auxiliary Output	Supervision Relay	Aux. Relays (2)	Alarm Initiation Relay	Sensitivity	Reset Time
Controller with Sensor (RJ45)	**SD-4WJ**	24V DC, 24V AC, 120V AC, 230V AC	18V DC nom; 0.03A max.	2A@30V DC, Form C	10A@30V DC; 10A@250V AC, Form C	N.O, 2A@30V DC	0.67 to 2.46%/ft. obscuration	2 sec.
Controller - RJ45	**SD-CJ**	24V DC, 24V AC, 120V AC, 230V AC	18V DC nom; 0.03A max.	2A@30V DC, Form C	10A@30V DC; 10A@250V AC, Form C	N.O, 2A@30V DC	0.67 to 2.46%/ft. obscuration	2 sec.
Sensor - RJ45	**SD-SJ**	24V DC, 24V AC, 120V AC, 230V AC	18V DC nom; 0.03A max.	2A@30V DC, Form C	10A@30V DC; 10A@250V AC, Form C	N.O, 2A@30V DC	0.67 to 2.46%/ft. obscuration	2 sec.
Controller - Terminals	**SD-CT**	24V DC, 24V AC, 120V AC, 230V AC	18V DC nom; 0.03A max.	2A@30V DC, Form C	10A@30V DC; 10A@250V AC, Form C	N.O, 2A@30V DC	0.67 to 2.46%/ft. obscuration	2 sec.
Sensor - Terminals	**SD-ST**	24V DC, 24V AC, 120V AC, 230V AC	18V DC nom; 0.03A max.	2A@30V DC, Form C	10A@30V DC; 10A@250V AC, Form C	N.O, 2A@30V DC	0.67 to 2.46%/ft. obscuration	2 sec.

[1]AC voltage frequency at 50/60 Hz

AC/DC · 158°F -4°F OP TEMP · UL · LC · FM APPROVED · MEA

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Conventional Fire Alarms
Duct Detectors, Four-Wire
SuperDuct Series

Accessories

Description	Cat. No.
8-inch sampling tube	**SD-T8**
18-inch sampling tube	**SD-T18**
24-inch sampling tube	**SD-T24**
36-inch sampling tube	**SD-T36**
42-inch sampling tube	**SD-T42**
60-inch sampling tube	**SD-T60**
78-inch sampling tube	**SD-T78**
120-inch sampling tube	**SD-T120**
RJ45 wiring harness kit – 15 ft.	**SD-RJ15**
RJ45 wiring harness kit – 10 ft.	**SD-RJ10**
RJ45 wiring harness kit – 5 ft.	**SD-RJ5**
Remote test station, magnetic	**SD-TRM4**
Remote test station, keyed	**SD-TRK4**
Remote LED Alarm Indicator	**5956A**
Protective housing for high humidity areas	**SD-PH**
Air velocity test kit (stoppers only, etc)	**SD-VTK**
Cover gasket kit	**SD-GSK**
Test magnet kit	**SD-MAG**
Replacement PCB/sensor kit (terminals)	**SD-4WPCBT**
Replacement PCB/sensor kit (RJ45)	**SD-4WPCBJ**
Replacement RJ45 interconnect cable	**7140126-01**

Weights and Dimensions

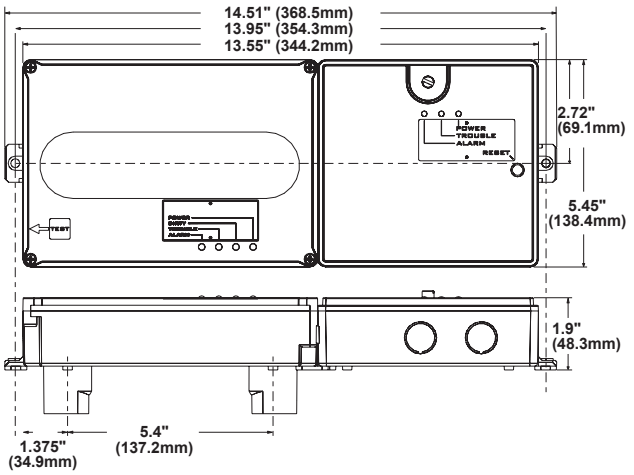
Cat. No.	Approx. Shipping Weight (lb.)
SD-CJ	2.4
SD-SJ	2.4
SD-4WJ	3.7
SD-CT	2.4
SD-ST	2.4
SD-T8	0.5
SD-T18	1.5
SD-T24	1.1
SD-T36	3.0
SD-T42	3.5
SD-T60	5.8
SD-T78	4.1
SD-T120	11.5

Conventional Fire Alarms
Duct Detectors, Four-Wire
SuperDuct Series

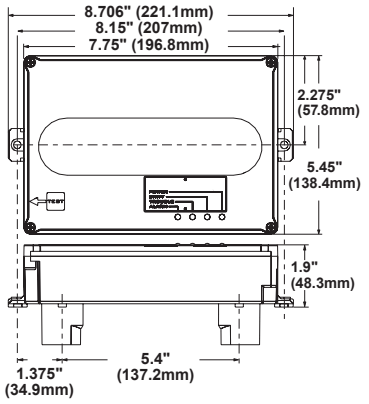
Weights and Dimensions (Continued)

Cat. No.	Approx. Shipping Weight (lb.)
SD-RJ15	1.50
SD-RJ10	1.50
SD-RJ5	0.60
SD-TRM4	1.00
SD-TRK4	1.00
5956A	1.00
SD-PH	5.50
SD-VTK	1.00
SD-GSK	0.50
SD-MAG	0.50
SD-4WPCBT	1.00
SD-4WPCBJ	1.00
7140126-01	0.50

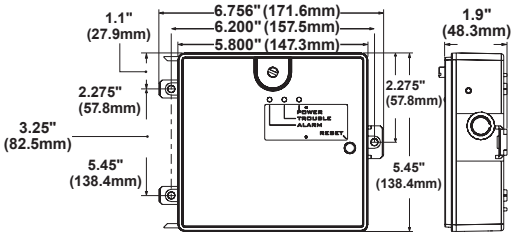
Controller and Detector (mounted in tandem)



Detector



Controller



Conventional Fire Alarms
Smoke Detectors
ReadySET Series

NEW

The ReadySET air aspirating (sampling) smoke detector is a central detection unit that actively draws air from a protected area through its sampling pipe and monitors the stream for the presence of smoke and other products of combustion. It can accommodate up to 10 sampling holes along a maximum pipe length of 164 ft (50 m).

The ReadySET Series smoke detectors have a NEMA 1 rated enclosure, and are resistant to dust and dirt. Forward scattering optical detection adds early warning capability. Predefined application scenarios diagram how to lay out the pipe and where to drill the air intake holes. Field-configurable via internal DIP switches for a range of settings, it connects to any fire alarm control panel through dry contact relays.

ReadySET is designed for mission critical settings like assembly areas and laboratories, as well as large spaces like atria, and applications where concealed detection is desired.

Features and Specifications

- Laser light scattering mass detection
- 2500 square foot (232 square meter) coverage area
- Environmental compensation
- Alarm, pre-alarm and fault relays
- Wall mounting via three screws
- Optional serial interface for PC-based diagnostics
- Operating humidity range: 0-90% non-condensing
- Operating temperature range: 32°F to 100°F (0°C to 38°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Sensitivity Range	Relay Contact Rating	Communication Card
Air Sampling Smoke Detector	**9-30719-KFB**	22.5V - 26.4V DC	0.35 A	0.12% to 7.62% obs/ft.	1 A @ 24V DC res. Load	No
	9-30721-KFB	22.5V - 26.4V DC	0.35 A	0.12% to 7.62% obs/ft.	1 A @ 24V DC res. Load	Yes

Accessories

Description	Cat. No.	Package Qty.
ReadySET replacement air filter	**33-30755A**	
CPVC Sampling Pipe and Fittings		
"3/4" ID x 1" OD x 15' length CPVC Sampling Pipe. Orange. Preprinted "Do Not Disturb – Aspirating Smoke Detection Pipe."	**CV11900**	14
3/4" CPVC Straight Coupling	**CV10908**	25
3/4" CPVC 90° Socket Elbow	**CV10906**	30
3/4" CPVC 45° Socket Elbow	**CV10905**	20
¾" CPVC Socket End Cap	**CV10927**	25
¾" CPVC Socket Union	**CV10915**	10
¾" CPVC Socket TEE Fitting	**CV10909**	20
Reducer Bushing-CPVC.	**CV10935**	25
Quick Connect Fitting	**CV10937**	25

CV11900

CV10908 CV10906 CV10905 CV10927

CV10915 CV10909 CV10935 CV10937

DC
100°F
32°F
OP TEMP
FM APPROVED

Conventional Fire Alarms
Smoke Detectors
ReadySET Series

Accessories (Continued)

Description	Cat. No.	Package Qty.
ABS Sampling Pipe and Fittings		
3/4" ID x 1" OD x 10' length ABS Sampling Pipe. Red; Preprinted "Do Not Disturb – Aspirating Smoke Detection Pipe"	**CM10900**	1
3/4" Red ABS Straight Coupling	**CM10908**	1
3/4" Red ABS Sweeping 90° Elbow	**CM10906**	1
3/4" Red ABS 45° Elbow	**CM10905**	1
Sampling Ports, Fittings and Accessories		
Sampling Point Assembly. Detachable remote Sampling Point.	**CM10943**	1
Patress style detachable Sampling Point	**CM10919**	1
Right Angle Patress style detachable Sampling Point	**CM10944**	1
Bulkhead style detachable Sampling Point	**CM10913**	1
Press Fit Calibrated Sampling Point (white).	**CM10914**	1
In-line Sampling Point Adaptor - ABS. 3/4" to 3/8" Quick Connect Fitting.	**CM10923**	1
End-of-line Sampling Point Adaptor - ABS. 3/4" to 3/8" Quick Connect Fitting.	**CM10922**	1
1/4" ID x 3/8" OD Capillary Sampling Tube.	**CM10963-250**	250 ft.
Pipe Accessories		
3/4" Sample Point Repair Saddle	**CM10933**	1
Sampling Point Identification Decals	**CM10960**	100
3/4" Red ABS Pipe Clip	**CM10954**	1
One-Hole Wrap-Strap for CPVC and ABS Pipe	**CV10931**	100
2 hole strap for ¾" CPVC pipe	**CV10934**	100
Stand-off 2 hole strap for 3/4" CPVC pipe	**CV10936**	100
Fittings and Adaptors		
3/4" ABS to 22mm Copper Tube Adapter	**CM10902**	1

CM10900

CM10908 CM10906 CM10905

CM10943 CM10919 CM10944

CM10913 CM10914 CM10923

CM10922

CM10933 CM10960 CM10954

CV10931 CV10934 CV10936

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Depth (in.)
9-30719-KFB	2.65	7.5	9	4.3
9-30721-KFB	2.65	7.5	9	4.3

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional Fire Alarms
Heat Detectors
280 Series

280B-PL Series heat detectors offer fixed temperature or combination rate-of-rise and fixed temperature detection.

A temperature increase at the sensor of 15°F (9°C) or more per minute activates the rate-of-rise feature, closing the contacts in the sensor to transmit the alarm condition to the fire alarm control panel. When the rate-of-rise element alone has been activated, the sensor is self-restoring.

If the temperature of the center disk rises to the sensor's rated temperature, the fixed temperature element activates, closing contacts in the sensor and transmits an alarm condition to the fire alarm control panel. The fixed temperature element is non-restorable and, when activated, the detector must be replaced. The need for replacement is indicated when the center disk has fallen free from the detector.

Edwards 280B series heat sensors come standard with a white plastic reversible mounting plate. The plate is designed for surface or flush mounting and installs directly to a standard North American 3 ½ or 4 inch octagon box. Once the mounting plate is fixed, a simple twist will lock the sensor in place. It can be removed using a screwdriver to release the tamper-resistant locking finger.

Features and Specifications

- UL listed for 50 ft. (15.2m) spacing
- Single pole — normally open contact
- Low profile with mounting plate
- Pure white finish
- Mounting flexibility with screw terminals
- Easy twist-on installation
- On-site testing of rate-of-rise feature
- Positive operating indication — for fixed temperature element
- Operating temperature range: -22°F to 100°F (-30°C to 37.8°C) (281B-PL and 283B-PL); -22°F to 150°F (-30°C to 65.6°C) (282B-PL and 284B-PL)

Ordering Information

Description	Cat. No.	Contact Ratings		Temperature		UL Recommended		FM Recommended Spacing
		Voltage	Amps	UL Rated	UL Max Ambient at Ceiling	Coverage[1]	Spacing	
Heat Detector - Rate of Rise and Fixed Temperature	**281B-PL**	6-125V AC	3.0	135ºF (57ºC)	100ºF (38ºC)	2500 ft.^{2} (232m^2)	50 ft. (15.2m)	30 ft. (9.14m)
		6-24V DC	1.0					
		125V DC	0.3					
		250V DC	0.1					
	282B-PL	6-125V AC	3.0	194ºF (90ºC)	150ºF (66ºC)	2500 ft.^{2} (232 m^2)	50 ft. (15.2 m)	30 ft. (9.14m)
		6-24V DC	1.0					
		125V DC	0.3					
		250V DC	0.1					
Heat Detector - Fixed Temperature	**283B-PL**	6-125V AC	3.0	135ºF (57ºC)	100ºF (38ºC)	2500 ft.^{2} (232m^2)	50 ft. (15.2m)	30 ft. (9.14m)
		6-24V DC	1.0					
		125V DC	0.3					
		250V DC	0.1					
	284B-PL	6-125V AC	3.0	194ºF (90ºC)	150ºF (66ºC)	2500 ft.^{2} (232m^2)	50 ft. (15.2m)	30 ft. (9.14m)
		6-24V DC	1.0					
		125V DC	0.3					
		250V DC	0.1					

[1]Maximum detector coverage has been determined by UL to provide detection time equal to sprinkler devices spaced at 10 ft (3.05m) intervals on a smooth ceiling 15 feet 9 inches (4.8m) high. Higher ceilings may adversely affect detection time. Earlier detection may be obtained by reducing the spacing between sensors. (See NFPA 72, Chapter 5)

AC/DC

FM APPROVED

Conventional Fire Alarms
Heat Detectors
280 Series

Accessories

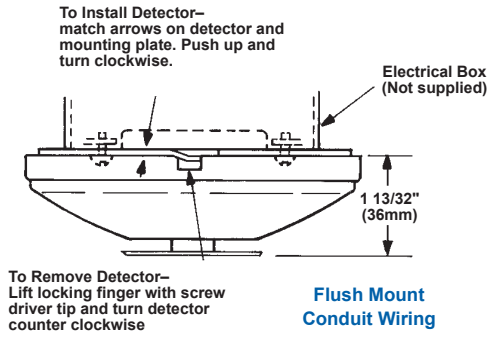
Description	Cat. No.
Reversible Mounting Plate	**280A-PL**[2]

[2]Included with Heat Detectors

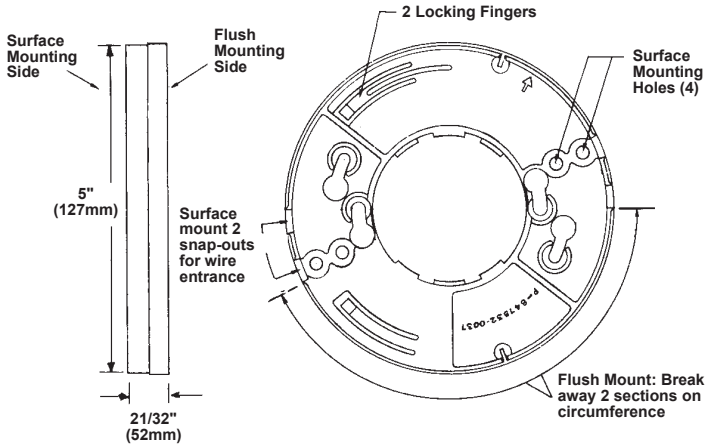
Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
281B-PL	1.0
282B-PL	1.0
283B-PL	1.0
284B-PL	1.0

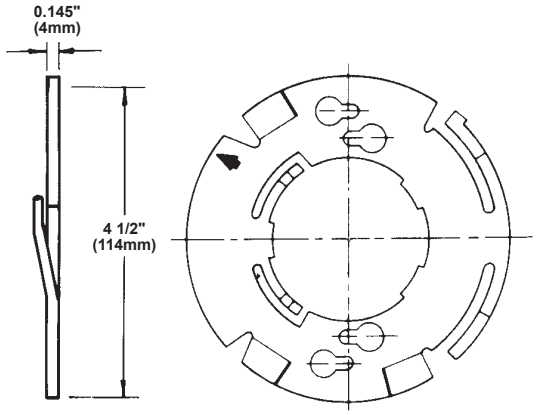
NOTE: The plastic mounting plate is molded to accommodate exposed wiring.



Flush Mount
Conduit Wiring



Front View
Plastic Reversible Mounting Plate Cat. No. 280A-PL



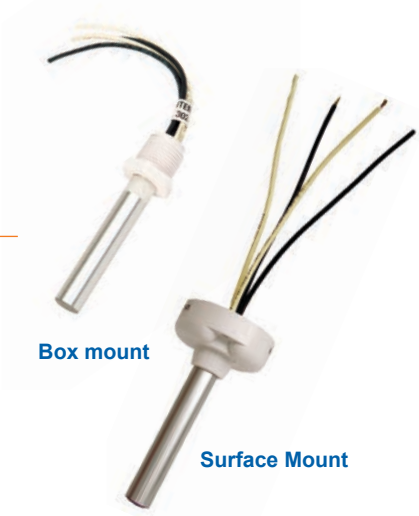
Front View
Metal Mounting Plate P/N 280-MPL
(Order separately)

Conventional Fire Alarms
Heat Detectors, Rate Compensation
302 Series

Edwards Series 302 heat detectors are suitable for use in indoor and outdoor environments and explosive atmospheres. They are normally-open devices designed to close an electrical circuit upon activation. All models feature rate compensation and are available with either 135°F (57.2°C) or 194°F (90°C) ratings. These self-restoring, hermetically sealed detectors are shock-, corrosion- and tamper-resistant.

Features and Specifications

- Rate compensation offsets thermal lag
- Self-restoring – no manual reset required
- Explosionproof versions available. Class 1, Groups C and D; Class 2, Groups E, F and G
- Some versions suitable for outdoor applications
- No back box required on some outdoor-suitable versions
- Box mount and surface mount versions



Ordering Information

Description	Cat. No.	Operating Voltage	Current	Temperature		
				UL Rated	Minimum Ambient	Maximum Ceiling
Indoor Surface Mounting	**302-135**	6-125V AC	5 A	135°F (57.2°C)	-40°	100°F (37.8°C)
		6-25V DC	1 A			
		125V DC	0.5 A			
	302-194	6-125V AC	5 A	194°F (90°C)	-40°	150°F (65.6°C)
		6-25V DC	1 A			
		125V DC	0.5 A			
Indoor or Outdoor Surface Mounting	**302-AW-135**	6-125V AC	5 A	135°F (57.2°C)	-40°	100°F (37.8°C)
		6-25V DC	1 A			
		125V DC	0.5 A			
	302-AW-194	6-125V AC	5 A	194°F (90°C)	-40°	150°F (65.6°C)
		6-25V DC	1 A			
		125V DC	0.5 A			
Indoor or Outdoor Box Mounting[1]	**302-ET-135**	6-125V AC	5 A	135°F (57.2°C)	-40°	100°F (37.8°C)
		6-25V DC	1 A			
		125V DC	0.5 A			
	302-ET-194	6-125V AC	5 A	194°F (90°C)	-40°	150°F (65.6°C)
		6-25V DC	1 A			
		125V DC	0.5 A			
Indoor Explosionproof Box Mounting[2]	**302-EPM-135**	6-125V AC	5 A	135°F (57.2°C)	-40°	100°F (37.8°C)
		6-25V DC	1 A			
		125V DC	0.5 A			
	302-EPM-194	6-125V AC	5 A	194°F (90°C)	-40°	150°F (65.6°C)
		6-25V DC	1 A			
		125V DC	0.5 A			

[1]Requires STONCO27 or equivalent
[2]Requires JALX-11 or equivalent

AC/DC

UL FM APPROVED MEA LISTING SERVICE EX-PROOF HAZ-LOC

Conventional Fire Alarms
Heat Detectors, Rate Compensation
302 Series

Accessories

Description	Cat. No.
Decorative white plastic adaptor plate	**AP-P**
3 ½" round back box and cover suitable for outdoor use	**STONCO27**
Explosionproof outlet body with cover	**JALX11**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions			
		Height (in.)	Overall Length (in.)	Base Diameter (in.)	Diameter (in.)
302-135	0.20	—	4.25	2.063	—
302-194	0.20	—	4.25	2.063	—
302-AW-135	0.20	—	4.125	2.063	—
302-AW-194	0.20	—	4.125	2.063	—
302-ET-135	0.20	—	4.0	1.0	—
302-ET-194	0.20	—	4.0	1.0	—
302-EPM-135	0.30	—	4.25	1.0	—
302-EPM-194	0.30	—	4.25	1.0	—
AP-P	0.10	—	—	—	4.5
STONCO27	3.00	2.0	—	—	3.5
JALX11	3.50	3.0	—	—	4.5 x 4.5

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional Fire Alarms
Heat Detectors, Double Contact
CF/CR Series

CR/CF Series heat detectors offer fixed temperature or combination rate-of-rise and fixed temperature detection.

A temperature increase at the sensor of 15°F (9°C) or more per minute activates the rate-of-rise feature, closing the contacts in the sensor to transmit the alarm condition to the fire alarm control panel. When the rate-of-rise element alone has been activated, the sensor is self-restoring.

If the temperature of the center disk rises to the sensor's rated temperature, the fixed temperature element activates, closing contacts in the sensor and transmits an alarm condition to the fire alarm control panel. The fixed temperature element is non-restorable and, when activated, the detector must be replaced. The need for replacement is indicated when the center disk has fallen free from the detector.

Edwards CR/CF Series heat sensors come standard with metal mounting plate. The plate is designed to install directly to a standard North American 3 ½ or 4 inch octagon box. Once the mounting plate is fixed, a simple twist will hold the detector in place.

Features and Specifications

- UL recommended for 70 ft. (21.3m) spacing
- Double pole — normally open contacts
- Low profile with mounting plate
- Aluminum finish
- Mounting flexibility with screw terminals
- Easy twist-on installation
- Positive operating indication — for fixed temperature element
- 70 ft. spacing **(CR models only)**

Ordering Information

Description	Cat. No.	Contact Rating		Temperature		UL Recommended		UL Max Distance from Wall[1]
		Amps	Voltage	UL Rating	UL Max Ambient at Ceiling	Coverage[1]	Spacing	
Heat Detector - Rate of Rise and Fixed Temp.	**CR135-2**	3.0	125V AC	135ºF (57ºC)	100ºF (38ºC)	4900 ft.^{2} (456 m^2)	70 ft. (21.3 m)	35 ft. (10.5 m)
		1.0	28V DC					
		0.3	125V DC					
		0.1	250V DC					
	CR200-2	3.0	125V AC	200ºF (93ºC)	150ºF (66ºC)	4900 ft.^{2} (456 m^2)	70 ft. (21.3 m)	35 ft. (10.5 m)
		1.0	28V DC					
		0.3	125V DC					
		0.1	250V DC					
Heat Detector - Fixed Temp.	**CF135-2**	3.0	125V AC	135ºF (57ºC)	100ºF (38ºC)	1600 ft.^{2} (149 m^2)	40 ft. (12.2 m)	20 ft. (6 m)
		1.0	28V DC					
		0.3	125V DC					
		0.1	250V DC					
	CF200-2	3.0	125V AC	200ºF (93ºC)	150ºF (66ºC)	1600 ft.^{2} (149 m^2)	40 ft. (12.2 m)	20 ft. (6 m)
		1.0	28V DC					
		0.3	125V DC					
		0.1	250V DC					

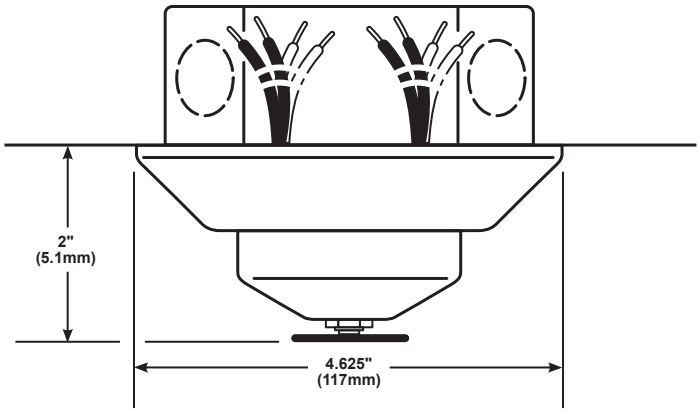
[1]From wall or projection extending down from ceiling more than 12 inches (305 mm).

AC/DC

Conventional Fire Alarms
Heat Detectors, Double Contact
CF/CR Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
CR135-2	1.0
CR200-2	1.0
CF135-2	1.0
CF200-2	1.0



Conventional Fire Alarms
Heat Detectors
SC Series

The Edwards SC20FTU-3 is a fixed temperature heat dectector, with an alarm threshold, operating at 135°F (58°C).

The SC20RRU-3 has an alarm threshold of 135°F (58°C) and operates on the rate of rise of 15° or greater per minute.

A red LED indicator situated on the detector molding provides clear indication when the unit is in alarm. For ease of removal, these detectors plug into the CSBU-1 base unit by a simple twist and lock action. In order to prevent unauthorized removal, a site selectable option is provided to lock the detector into its base. Once applied, the unit can only be removed by means of a special tool.

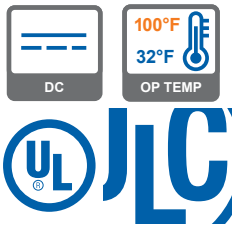
Features and Specifications

- 135°F (58°C) and 180°F (82°C) fixed temperature models
- 135°F (58°C) rate of rise model
- LED alarm indication
- Tamper resistant with site selectable lock
- White molded high impact fire retardant plastic
- Surface mount technology
- All components conformally coated to seal against dust and moisture
- Operating temperature range: 32ºF to 100ºF (0°C to 37.8°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current		Fixed Temp. Alarm Level	Rate of Rise	Terminal Sizes
			Standy	Alarm			
Heat Detector - 58ºC Fixed Temperature	**SC20FTU-3**	14V - 30V DC	0.064 A	0.100 A max.	135°F (58°C)	—	12-18 AWG
Heat Detector - 58ºC FixedTemperature and Rate of Rise	**SC20RRU-3**	14V - 30V DC	0.064 A	0.100 A max.	135°F (58°C)	15°F/Min.	12-18 AWG
Detector Base (Surface Mount)	**CSBU-1**	—	—	—	—	—	—
Detector Base with Resistor	**CSBU-3**[1]	—	—	—	—	—	—

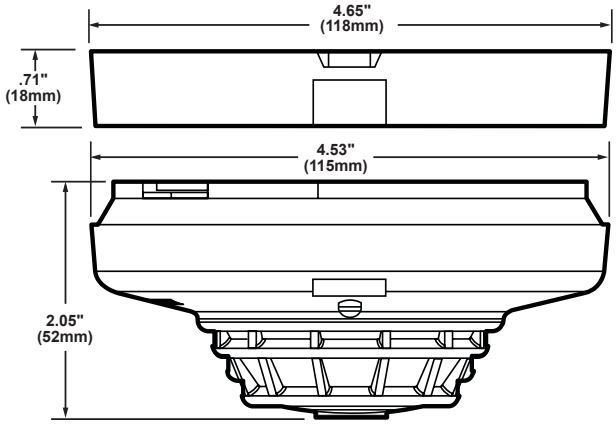
[1]For use with non-current limited circuits.



Conventional Fire Alarms
Heat Detectors
SC Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
SC20FTU-3	0.40
SC20RRU-3	0.40
CSBU-1	0.20
CSBU-3	0.20



Cat. No. CSBU-1
Detector Base

Cat. No. SC20 Series
Heat Detector

Conventional Fire Alarms
Pull Stations
270 Series

Edwards 270 Series non-coded single-action fire alarm stations are sturdy, attractive, and designed for economical installation. The station provides a single action, break glass, initiating operation. It is available with normally open (N.O.), normally closed (N.C.) or combination N.O./N.C. contacts. The 270 Series have screw terminals for field connection. The 270A Series Manual Stations have 6 inch (150mm) wire leads.

All non-coded stations are designed for either flush or surface mounting. For flush mounting a 4-inch standard North American square box with single gang plaster cover should be used.

Features and Specifications

- Single action models
- Pull lever for simple, positive operation
- Break glass operation
- Terminals or wire leads for field connections
- Surface or flush mounting
- Red finish
- Less than 5 lb pull force complies with ADA
- Solid, die-cast metal construction
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Contact Rating		Field Connections	Switch Contacts
		Amps	Voltage		
Single-Action Pull Station	**270-DPO**	1.5	125V AC/DC	Screw Terminals	Double-pole Alarm, Open Circuit
		0.5	250V AC/DC		
	270-SPO	3.0	30V AC, 60V DC	Screw Terminals	Single-pole Alarm, Open Circuit
	270A-DPO	1.5	125V AC/DC	6" Wire Leads	Double-pole Alarm, Open Circuit
		0.5	250V AC/DC		
	270A-SPO	3.0	30V AC, 60V DC	6" Wire Leads	Single-pole Alarm, Open Circuit
	270-DOC	1.5	125V AC/DC	Screw Terminals	Double-pole Alarm, Open/Closed Circuit
		0.5	250V AC/DC		

Accessories

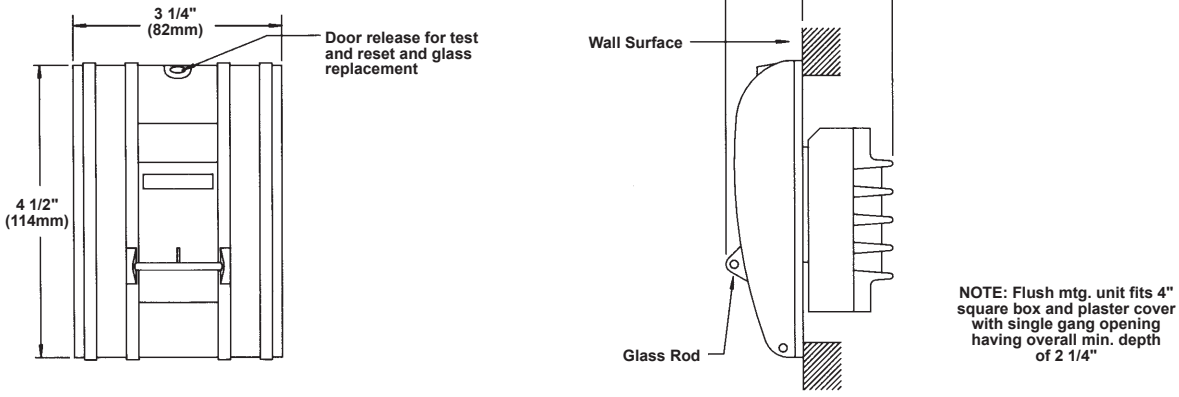
Description	Cat. No.
Cast Box for Surface Mounting	**P-027193**
Steel Box for Surface Mounting	**P-039250**
Replacement Glass Rods	**270-GLR**

AC/DC
120°F
32°F
OP TEMP
FM APPROVED
MEA

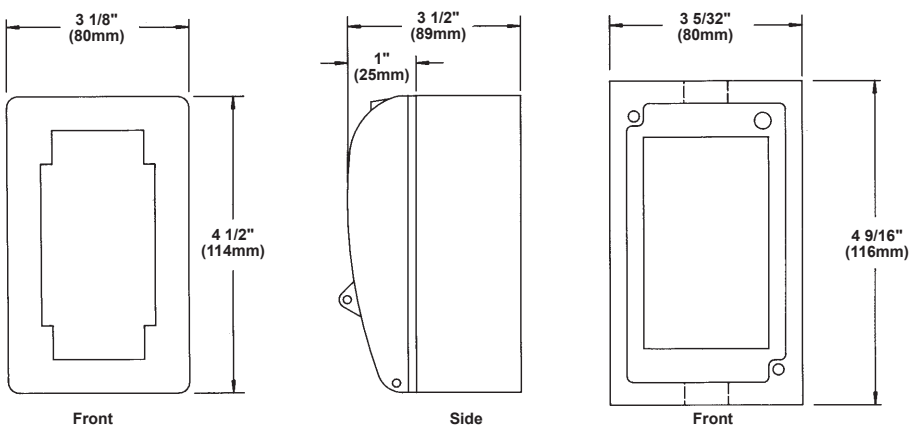
Conventional Fire Alarms
Pull Stations
270 Series

Weights and Dimensions

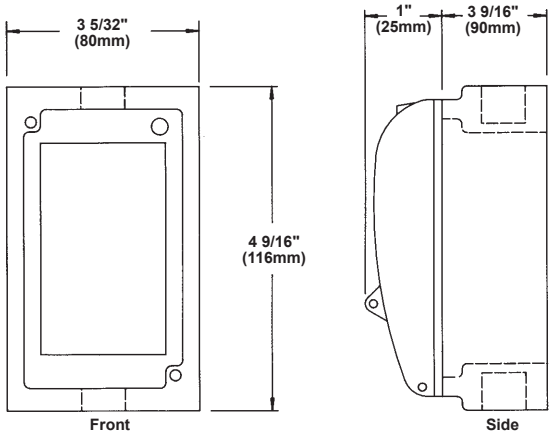
Cat. No.	Approx. Shipping Weight (lb.)
270-DPO	1.0
270-SPO	1.0
270A-DPO	1.0
270A-SPO	1.0
270-DOC	1.0
P-027193	1.0
P-039250	1.0



Flush Installation Using
P-024900 Steel Box



Steel Surface Box
P-039250



Cast Surface Box
P-027193

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional Fire Alarms
Pull Stations
270 Series

The Edwards 276B/277B series non-coded, single-action fire alarm stations are UL listed, contemporary-styled Lexan stations. The 276B series feature terminals for field wiring connections, and the 277B series use 6" (150mm) wire leads for field wiring connections.

All types are available with single pole alarm contacts that can be normally open, normally closed or a combination of both. Either a key or tool (depending on station selected) is required to reset mechanism. Where a manual station is installed on a circuit that also includes smoke detectors, a resistor can be added in series with the alarm initiating contacts on the station so the operation of the station does not extinguish alarm LEDs on operated detectors.The 276-R resistor kits permit field installation of the series resistor on applicable stations.

For semi flush mounting, use a standard North-American 4 inch square box with single gang plaster cover having an overall minimum depth of 2-1/4 inches (57mm). For surface mounting use a 276B-RSB surface back box.

Features and Specifications

- Single action models
- Single pole contacts
- Terminals or wire leads for field connections
- Key lock or tool reset
- Break glass operation
- Surface or semi flush mounting
- Red finish
- Contemporary styling
- Rugged Lexan construction
- Latch action until reset
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Contact Ratings		Field Connections	Switch Contacts	Station Reset
		Voltage	Amps			
Single-Action Pull Station	**276B-1110**[1]	30V AC	3.0	Screw Terminals	Single-pole Alarm, Open Circuit	Tool Operated
		28V DC	1.0			
	276B-1120[1]	30V AC	3.0	Screw Terminals	Single-pole Alarm, Open Circuit	Key Operated
		28V DC	1.0			
	277B-1110	30V AC	3.0	6" Wire Leads	Single-pole Alarm, Open Circuit	Tool Operated
		28V DC	1.0			

[1]Suitable for optional resister kit, 276-R.

Accessories

Description	Cat. No.
Optional Resistor Kit	**276-R**[2]
Replacement Glass Rods	**276-GLR**
Station Reset Key (supplied with all Key Reset Stations)	**276-K1**
Surface Back Box, Red	**276B-RSB**

[2]For use in stations connected to smoke detector circuits. 560 Ohms, +/-5%; 2W.

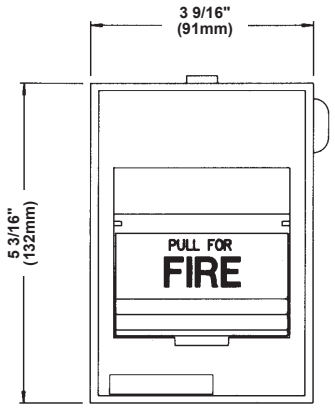
AC/DC
120°F
32°F
OP TEMP
UL
FM
APPROVED

Conventional Fire Alarms
Pull Stations
270 Series

Weights and Dimensions

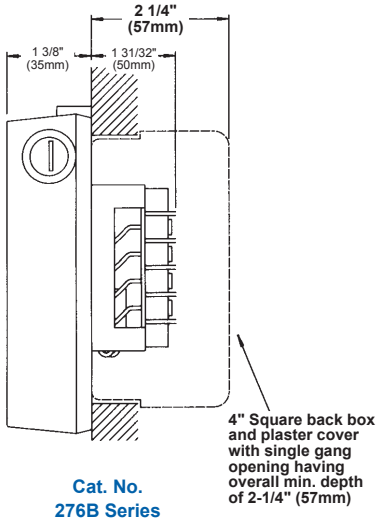
Cat. No.	Approx. Shipping Weight (lb.)
276B-1110	1.0
276B-1120	1.0
277B-1110	1.0

Front View



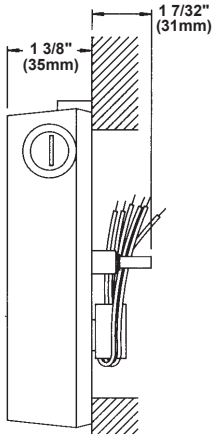
Cat. No's.
276B and 277B Series

Semi-Flush

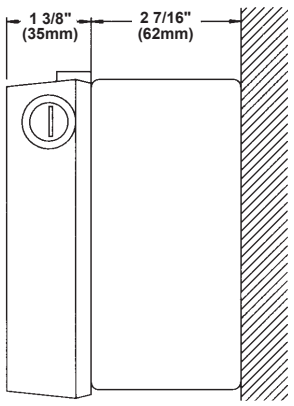


Cat. No.
276B Series
With Optional Back Box

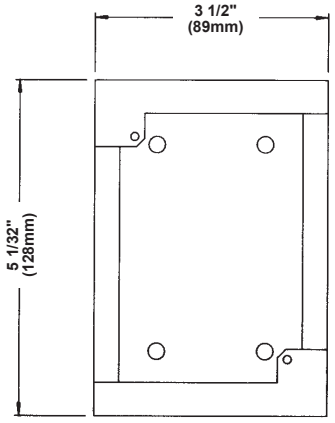
Surface



Cat. No.
277B Series
Without Back Box



Cat. No's.
276B & 277B Series
With 276B-RSB
Back Box



Cat. No. 276B-RSB

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional Fire Alarms
Pull Stations
270 Series

The Edwards 278B/279B series non-coded, double-action fire alarm stations are UL listed, contemporary-styled Lexan stations. The 278B series feature terminals for field wiring connections, and the 279B series use 6" (150mm) wire leads for field wiring connections.

All types are available with single or double pole alarm contacts that can be normally open, normally closed or a combination of both. Either a key or tool (depending on station selected) is required to reset mechanism. Where a manual station is installed on a circuit that also includes smoke detectors, a resistor can be added in series with the alarm initiating contacts on the station so the operation of the station does not extinguish alarm LEDs on operated detectors. The 276-R and 276-RT resistor kits permit field installation of the series resistor on applicable stations.

For semi flush mounting, use a standard North-American 4 inch square box with single gang plaster cover having an overall minimum depth of 2-1/4 inches (57mm). For surface mounting use a 276B-RSB surface back box.

Features and Specifications

- Double action models
- Single or double pole contacts
- Terminals or wire leads for field connections
- Key lock or tool reset
- Break glass operation
- Surface or semi flush mounting
- Red finish
- Contemporary styling
- Rugged Lexan construction
- Latch action until reset
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Contact Ratings		Field Connections	Switch Contacts	Station Reset
		Voltage	Amps			
Double-Action Pull Station	**278B-1110**	30V AC	3.0	screw terminals	Single-pole Alarm, Open Circuit	Tool Operated
		28V DC	1.0			
	278B-1120	30V AC	3.0	screw terminals	Single-pole Alarm, Open Circuit	Key Operated
		28V DC	1.0			
	278B-1420	30V AC	1.5	screw terminals	Double-pole, Open and Closed Circuit	Key Operated
		28V DC	1.0			
	279B-1110	30V AC	3.0	6" wire leads	Single-pole Alarm, Open Circuit	Tool Operated
		28V DC	1.0			

Accessories

Description	Cat. No.
Optional Resistor Kit (single-pole)	**276-R**[1]
Optional Resistor Kit (double-pole)	**276-RT**[1]
Replacement Glass Rods	**276-GLR**
Station Reset Key (supplied with all Key Reset Stations)	**276-K1**
Surface Back Box, Red	**276B-RSB**

[1]For use in stations connected to smoke detector circuits. 560 Ohms, +/-5%; 2W.

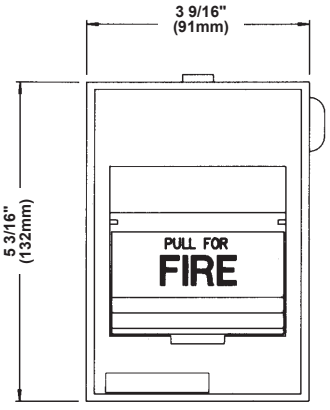
AC/DC
120°F 32°F OP TEMP
UL
FM APPROVED
MEA

Conventional Fire Alarms
Pull Stations
270 Series

Weights and Dimensions

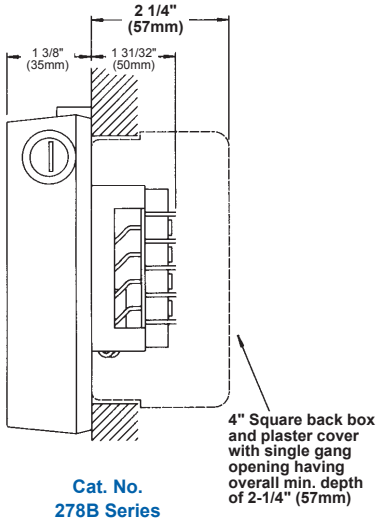
Cat. No.	Approx. Shipping Weight (lb.)
278B-1110	1.0
278B-1120	1.0
278B-1420	1.0
279B-1110	1.0

Front View



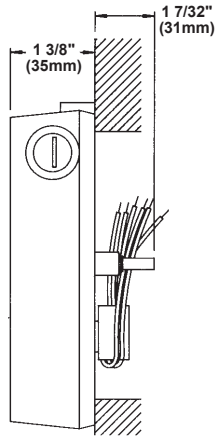
Cat. No's.
278B and 279B Series

Semi-Flush

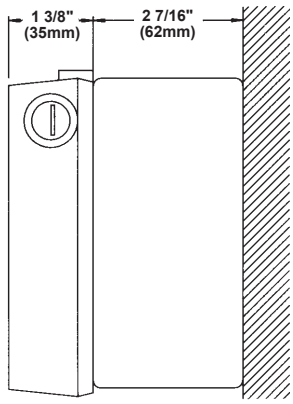


Cat. No.
278B Series
With Optional Back Box

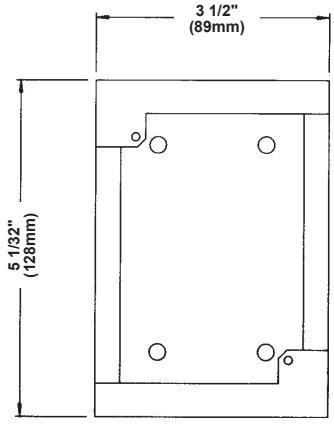
Surface



Cat. No's.
277B & 279B Series
Without Back Box



Cat. No's.
278B & 276B-RSB
Back Box



Cat. No. 276B-RSB

Conventional Fire Alarms
Harsh Environment Pull Stations
MPSR Series

Edwards MPSR Series manual pull stations are non-coded fire alarm stations constructed of die-cast material. All components are pre-painted or have plated surfaces to inhibit corrosion. MPSR Series manual stations are suitable for outdoor use and feature a NEMA 4X enclosure.

Single-and double-action MPSR models are available with either single-pole (normally open) or double-pole (double throw) alarm contacts. Dependent on the model, access to the unit for resetting purposes is gained with either a keylock or hex screw. All models feature terminal block connections and 10 amp contacts.

Explosionproof MPSR Series manual stations are rated for Class I, Group B (hydrogen), C and D; Class II, Groups E, F and G; and Class III environments.

Features and Specifications

- Solid corrosion-resistant construction
- Surface mount backbox and gasket, suitable for outdoor use, included
- Positive activation
- Terminals for wire connections
- NEMA 4X enclosure
- Operating temperature range: -30°F to 150°F (-35°C to 66°C)

Non-explosion proof models:
- Single and double action models
- Single or double pole contacts
- Key lock or hex screw reset

Explosionproof models
- Single-action models convertible to double-action operation
- Key lock reset
- Double pole contacts
- Class I, Group B, C and D,; Class II, Groups E, F and G; Class III

Ordering Information

Description	Cat. No.	Contact Rating		Switch Contacts	Reset	Field Connections	Wire Size
		Amps	Voltage				
Single-action Station	**MPSR1-SHTW-GE**	10 A	120V AC	SPST	Hex Screw	Terminals	14 to 18 AWG
	MPSR1-S45W-GE	10 A	120V AC	SPST	Key Lock	Terminals	14 to 18 AWG
	MPSR1-DHTW-GE	10 A	120V AC	DPDT	Hex Screw	Terminals	14 to 18 AWG
	MPSR1-D45W-GE	10 A	120V AC	DPDT	Key Lock	Terminals	14 to 18 AWG
Double-action Station	**MPSR2-SHTW-GE**	10 A	120V AC	SPST	Hex Screw	Terminals	14 to 18 AWG
	MPSR2-DHTW-GE	10 A	120V AC	DPDT	Hex Screw	Terminals	14 to 18 AWG
	MPSR2-S45W-GE	10 A	120V AC	SPST	Key Lock	Terminals	14 to 18 AWG
	MPSR2-D45W-GE	10 A	120V AC	DPDT	Key Lock	Terminals	14 to 18 AWG
Double-action Station with NYC White Strip	**MPSR2-SHTW-GE-NYW**	10 A	120V AC	SPST	Hex Screw	Terminals	14 to 18 AWG
	MPSR2-S45W-GE-NYW	10 A	120V AC	SPST	Key Lock	Terminals	14 to 18 AWG
Explosionproof Manual Station	**MPSR1-D45WX-GE**	10 A	120V AC	DPDT	Key Lock	Terminals	14 to 18 AWG
Double-action Cover	**MPSR-LP**	10 A	120V AC	N/A	N/A	N/A	N/A

Accessories

Description	Cat. No.
Replacement glass rods for MPSR stations (10 pack).	**MPSRGR10**
Cat 45 Key (each)	**276-K1**

AC · 150°F -30°F OP TEMP · UL · ULC · FM APPROVED · EX-PROOF* · HAZ-LOC*

*See ordering information for catalog numbers

Conventional Fire Alarms
Harsh Environment Pull Stations
MPSR Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Depth (in.)
MPSR1-SHTW-GE	2.75	3.06	4.75	3.0
MPSR1-S45W-GE	2.75	3.06	4.75	3.0
MPSR1-DHTW-GE	2.75	3.06	4.75	3.0
MPSR1-D45W-GE	2.75	3.06	4.75	3.0
MPSR2-SHTW-GE	2.75	3.06	4.75	3.0
MPSR2-DHTW-GE	2.75	3.06	4.75	3.0
MPSR2-S45W-GE	2.75	3.06	4.75	3.0
MPSR2-D45W-GE	2.75	3.06	4.75	3.0
MPSR2-SHTW-GE-NYW	2.75	3.06	4.75	3.0
MPSR2-S45W-GE-NYW	2.75	3.06	4.75	3.0
MPSR1-D45WX-GE	2.75	3.06	4.75	3.0
MPSR-LP	0.77	—	—	—
MPSRGR10	0.25	—	—	—
276-K1	0.10	—	—	—

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional Fire Alarms
Pull Station Covers
STI Series

The STI Series Pull Station Covers help to prevent false fire alarms without restricting legitimate alarms. They consist of a tamper-proof, clear Lexan polycarbonate shield and frame that fits easily over manual pull stations. Some models offer a piercing warning horn when cover is lifted.

Features and Specifications

- Fits virtually all pull stations
- Tested and approved by wide range of fire prevention and testing authorities
- Guards against physical damage to manual pull station
- Optional gasket for outdoor use is available
- Optional battery-powered horn (9-volt alkaline battery included)

Ordering Information

Description	Cat. No.	Mounting
Pull Station Cover with Horn	**STI-1100**	Flush
	STI-1130	Surface
Pull Station Cover without Horn	**STI-1200**	Flush
	STI-1230	Surface
Pull Station Cover with Gasket	**STI-1250**	Flush
Pull Station Cover w/Gaskets, 2" Spacer and Conduit Gasket Kit	**STI-3150**	Surface

Accessories

Description	Cat. No.
2 inch (50mm) Spacer	**STI-3100**
Gasket for Outdoor Applications	**STI-3002**
Conduit Gasket for Outdoor Applications	**STI-3003**
Conduit Insert	**STI-3004**
Back Plate for rough wall mounting	**STI-1280**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Height (in.)	Width (in.)	Depth (in.)
STI-1100	1.3	10	7	2.75
STI-1130	1.3	10	7	4.75
STI-1200	1.3	10	7	2.75
STI-1230	1.3	10	7	4.75
STI-1250	1.3	10	7	2.75
STI-3150	1.3	10	7	4.75
STI-3100	0.5	10	7	2.0
STI-3002	0.2	—	—	—
STI-3003	0.2	—	—	—
STI-3004	0.2	—	—	—
STI-1280	0.2	—	—	—

Conventional Fire Alarms
Carbon Monoxide Detector
260 Series (Replaces 250 Series)

NEW

The Edwards SafeAir™ 260-CO carbon monoxide (CO) detector is a device designed to alert building occupants of potentially dangerous levels of CO in the protected area. The internal electro-chemical sensor communicates with an on-board microprocessor which tracks CO levels over time. The 260-CO self-adjusts for indoor environmental changes and monitors its own performance, automatically compensating for sensitivity drift throughout the course of its service life.

An integrated temporal four-horn provides local signaling capability for the 260-CO. The 260-CO can also be connected in tandem so that multiple detectors will sound when any one alarms. It interfaces with any listed intrusion or fire alarm system by means of its 150mA output relay.

The 260-CO features a ten-year end-of-life timer that will automatically trigger a warning, locally, at the control panel, and optionally, at a central monitoring station, indicating that the device should be serviced.

The 260-CO complies with UL 2075 requirements, making it suitable for use in residential and commercial applications.

Features and Specifications

- Long-life ten-year sensor
- Electro-chemical sensing technology
- Self-diagnostics
- SafeTest™ functional test feature enables full functional test with CO gas
- Built-in trouble/power supervision relay
- 150mA relay contact configurable for normally open or normally closed operation
- Transmits sensor end-of-life to the control panel and central station if the system is monitored
- Complies with UL 2075 CO standard
- One-touch TEST/HUSH button
- Integrated 85 dBa temporal 4-sounder for local notification
- On-board LED provides local alarm and trouble indication
- Can be connected in tandem
- Operating temperature range: 40°F to 100°F (4.4°C to 37.8°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current (Standby)	Current (Alarm)	Alarm Relay	CO Alarm Level	db at 1m/10ft.	Wire Size
Carbon Monoxide Detector	**260-CO***	12/24V DC	0.020 A	0.04 A	0.15 A @ 12/24V DC Form C	70ppm /60-240 min.	95/85	14-22 AWG

*Direct replacement of 250-CO

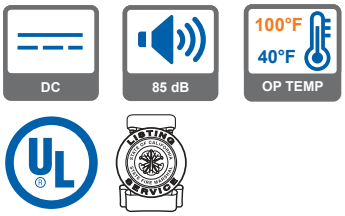
Accessories

Description	Cat. No.
Adaptor Plate	**250-COPLT-5PKG**
Functional CO Gas Test Spray	**CO Gas Test Spray****
Reverse Polarity Relay (for tandem connection)	**405-01**

**Available from SDI through security distribution (www.sdifire.com)

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Width (in.)	Length (in.)	Height (in.)
260-CO	0.50	3.1	4.6	1.3
250-COPLT-5PKG	0.13	4.5	6.5	0.2



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Addressable Fire Alarms
Panels
E-FSA Series

NEW

E-FSA64

The Edwards Signaling E-FSA64 life safety system offers the reliability of analog/addressable fire detection for small to mid-sized applications. Built for long service, this system offers rotary device addressing, optional Ethernet® connectivity, and a full line of easy-to-configure option cards and modules.

The E-FSA64 provides one Class B analog/addressable device loop that supports up to 64 device addresses, and two Class B Notification Appliance Circuits (NACs). Optional Class A NAC wiring with the use of a separate module. The E-FSA64 supports a wide range of accessories and related equipment, including intelligent modules and pull stations, intelligent detectors, and bases remote annunciators and option cards that expand system capacity and extend system capabilities.

Features and Specifications

- One loop (expandable to two) that supports up to 64 analog/addressable devices of any type and two Class B NACs
- Form C contacts for alarm and trouble, Form A for supervisory
- Rotary addressing
- Optional Ethernet port for diagnostics, programming and system reports
- Two programmable switches with LEDs and custom labeling
- Supports horn silence over two wires and UL 1971-compliant strobe synchronization
- Optional Class A wiring
- Supports up to eight serial annunciators, (LCD, LED-only, and graphic interface)
- Use existing wiring for most retrofit applications
- Upload/download remotely or locally
- Two-level maintenance alert reporting
- Pre-alarm and alarm verification by point
- Adjustable detector sensitivity
- 4 x 20 character backlit LCD display
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Option Cards

Edwards Signaling panels are supported by a complete line of modules and related equipment that enhance performance and extend system capabilities. Option cards are easy to install and set up. They simply plug directly into the control panel main circuit board or are connected to it with a ribbon cable. After installation, terminals remain easily accessible for quick connection of field wiring. The cabinet provides ample room for wire routing, keeping wiring neat and easy to service at all times.

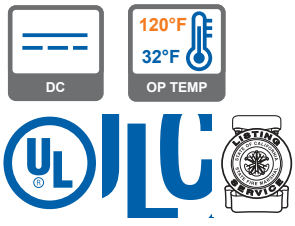
SA-CLA Class A Module
The SA-CLA card provides Class A capability for NAC wiring. Its terminal block provides the wiring connection for NAC return wiring. The SA-CLA is also required for "Class A" communications to R-Series remote annunciators. E-FSA250 panels are Class A ready. The SA-CLA is installed directly to the control panel circuit board using its plastic standoffs and plug connection.

SA-232 RS-232 Interface
The SA-232 card provides an RS-232 interface with Edwards Signaling panels. It can be used for connecting a printer to the control panel to print system events. The card also can be used for connecting a computer to download a configuration program from the FSA-CU to the control panel.

The RS-232 card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

SA-ETH Ethernet Interface Card
The SA-ETH card provides a standard 10/100 Base T Ethernet network connection for connecting to an intranet, a local network, or the Internet. The card can be used to download configuration programming from the FSA-CU to the panel over the network.

The Ethernet card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Addressable Fire Alarms
Panels
E-FSA Series

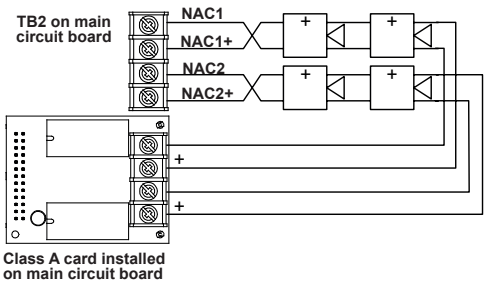
SA-DACT Dialer
The SA-DACT provides communications between the control panel and the central station over a telephone line system. It transmits system status changes (events) to a compatible digital alarm communicator receiver over the public switched telephone network. The dialer is capable of single, dual, or split reporting of events to two different account and telephone numbers. The modem feature of the SA-DACT can also be used for uploading and downloading panel configuration, history, and current status to a PC running the FSA-CU.

The SA-DACT queues messages and transmits them based on priority (alarm, supervisory, trouble, and monitor). Activations are transmitted before restorations.

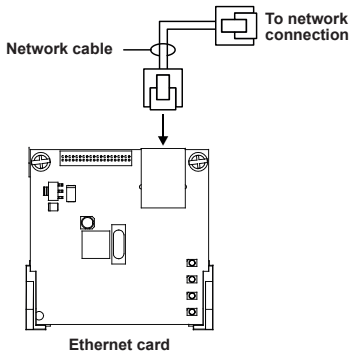
The SA-DACT is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

Technical Information

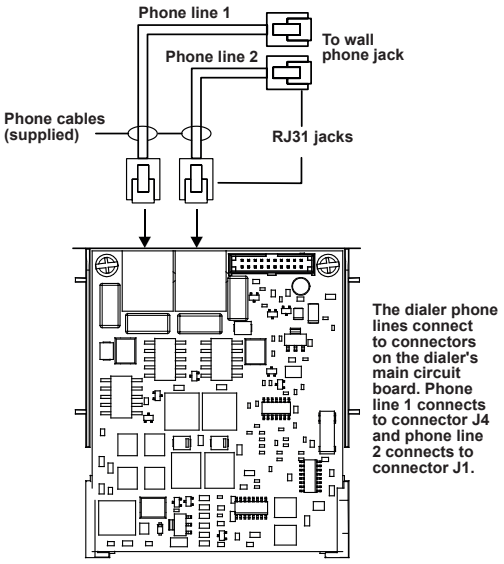
SA-CLA Wiring



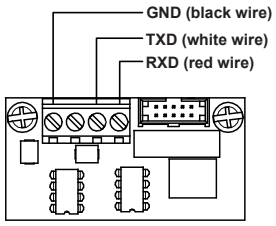
SA-ETH Wiring



SA-DACT Wiring



SA-232 Wiring



Ordering Information

Description	Cat. No.	NAC Circuits	Maximum NAC Current	Aux Power Continuous Circuit	Aux Power Resettable Circuit	Includes Dialer	Auxiliary Contacts	Color
Life Safety System Panel, 64 Point Capacity: 1 loop, Class B, Class A Optional	**E-FSA64RD**	2 Class B, Class A optional, 2.5 A each	3.75 A total @ 24Vfwr	24V DC nominal at 0.5 A	24V DC nominal at 0.5 A	Yes	24V DC @ 1 A resistive load	Red
	E-FSA64R	2 Class B, Class A optional, 2.5 A each	3.75 A total @ 24Vfwr	24V DC nominal at 0.5 A	24V DC nominal at 0.5 A	No	24V DC @ 1 A resistive load	Red
	E-FSA64GD	2 Class B, Class A optional, 2.5 A each	3.75 A total @ 24Vfwr	24V DC nominal at 0.5 A	24V DC nominal at 0.5 A	Yes	24V DC @ 1 A resistive load	Gray
	E-FSA64G	2 Class B, Class A optional, 2.5 A each	3.75 A total @ 24Vfwr	24V DC nominal at 0.5 A	24V DC nominal at 0.5 A	No	24V DC @ 1 A resistive load	Gray

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

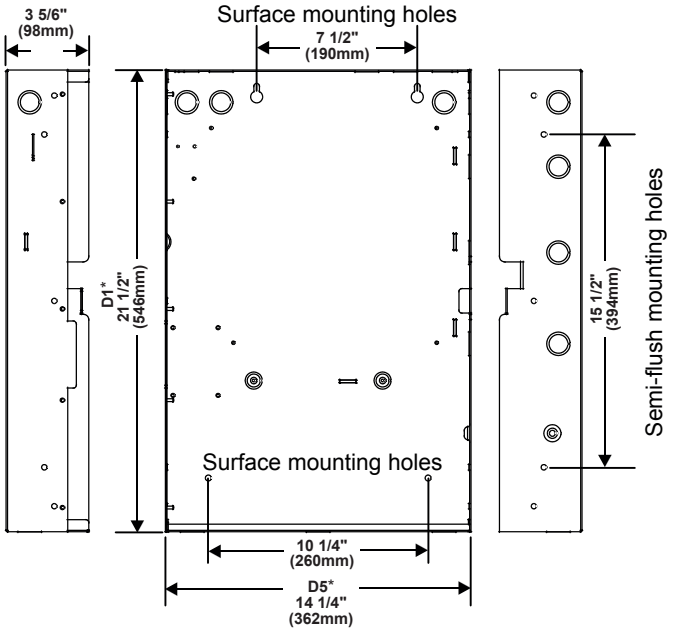
Accessories	
Description	**Cat. No.**
Flush Mount Trim - Black	**SA-TRIM1**
Option Cards:	
Dual Line Dialer/Modem, supports Contact ID (SIA DC-05), mounts in cabinet on base plate.	**SA-DACT**
Serial Port (RS-232), for connection to printers & computers, mounts in cabinet to base plate	**SA-232**
Ethernet Port, Slave, mounts in cabinet on base plate	**SA-ETH**
Class A adapter module. Provides Class A capacity on NACs. Mounts in cabinet on main board.	**SA-CLA**
Annunciators:	
Remote Annunciator, 4X20 LCD and Common Indicators for displaying system status, mounts to standard 4" Square electrical box. White housing.	**E-RLCD**
Remote Annunciator, 4X20 LCD, Common Indicators & Common Controls for displaying system status, mounts to standard 4" Square electrical box. White housing.	**E-RLCD-C**
Remote Annunciator, Common Indicators for displaying system status, common controls & 16 groups w/2 LEDs each for zone display, mounts to standard 4" Square electrical box. White housing.	**E-RLED-C**
Remote Annunciator Zone expander, 24 groups of 2 LEDS each for display of alarm and trouble. Each with custom label area. Mounts to standard 4" electrical box. White housing.	**RLED24**
Graphic Annunciator Driver, provides outputs for common indicators and 32 alarm/supv zones as well as inputs for common switches. Provided with a snap track for mounting in custom graphic enclosures.	**GCI**

Accessories	(Continued)
Description	**Cat. No.**
Remote Annunciator Cabinets and Accessories	
Remote Annunciator Enclosure, key locked with plexiglass window for one RLCD(C) or RLED(C).	**RA-ENC1**
Remote Annunciator Enclosure, key locked with plexiglass window with space for 2 of either RLCDx, RLEDx or RLED24.	**RA-ENC2**
Remote Annunciator Enclosure, key locked with plexiglass window with space for 3 of either RLCDx, RLEDx or RLED25.	**RA-ENC3**
Keyswitch, single gang, provides key operated enable or disable of common controls on RLCD or RLED units.	**RKEY**
Surface Mount Box - for R-Series Annunciators.	**LSRA-SB**
Programming Tools:FSC/FSA Series configuration and diagnostics utility	**FSA-CU**

Addressable Fire Alarms
Panels
E-FSA Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
E-FSA64RD	28.00
E-FSA64R	28.00
E-FSA64GD	28.00
E-FSA64G	28.00
SA-TRIM	2.00
SA-DACT	0.50
SA-232	0.25
SA-ETH	0.25
SA-CLA	0.25



* Add 1-1/2 in. (38.1mm) for trim kit.

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Addressable Fire Alarms
Panels
E-FSA Series

E-FSA250

The Edwards Signaling E-FSA250 life safety system offers the reliability of analog/addressable fire detection for small to mid-sized applications. Built for long service, this system offers rotary device addressing, optional Ethernet® connectivity, and a full line of easy-to-configure option cards and modules.

The E-FSA250 provides one Class A or Class B analog/addressable device loop that supports up to 127 devices. A second 127-point loop may be added to the E-FSA250 to expand total system capacity to up to 254 device addresses. The panel includes four Class B NACs that can be configured as two Class A NACs.

The E-FSA250 supports a wide range of accessories and related equipment, including intelligent modules and pull stations, intelligent detectors, and bases remote annunciators and option cards that expand system capacity and extend system capabilities.

Features and Specifications

- One loop (expandable to two) that supports up to 127 (expandable to 254) analog/addressable devices
- Supports intelligent modules, pull stations, detectors, and bases
- Four Class B NACs or two Class A NACs
- Form C contacts for alarm and trouble, Form A for supervisory
- Rotary addressing on all intelligent addressable devices
- Optional Ethernet port for diagnostics, programming and system reports
- Two programmable switches with LEDs and custom labeling
- Supports horn silence over two wires and UL 1971-compliant strobe synchronization
- Standard Class A wiring
- 1,000-event panel history log
- Supports up to eight serial annunciators, (LCD, LED-only, and graphic interface)
- Use existing wiring for most retrofit applications
- Upload/download remotely or locally
- Two-level maintenance alert reporting
- Pre-alarm and alarm verification by point
- Adjustable detector sensitivity
- 4 x 20 character backlit LCD display
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Option Cards

E-FSA250 panels are supported by a complete line of modules and related equipment that enhance performance and extend system capabilities. Option cards plug directly into the control panel main circuit board or are connected to it with a ribbon cable. After installation, terminals remain accessible. The cabinet provides ample room for wire routing, keeping wiring neat at all times.

SA-ETH Ethernet Interface Card
The SA-ETH card provides a standard 10/100 Base T Ethernet network connection for connecting to an intranet, a local network, or the Internet. The card can be used to download configuration programming from the FSA-CU to the panel over the network.

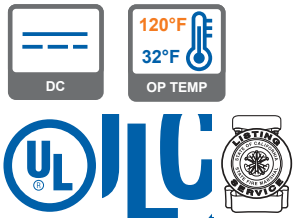
The Ethernet card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

XAL127 Loop Expander Card
The XAL127 Loop Expander Card provides an additional device loop on the control panel. The card expands the control panel's device capacity to 254 total device addresses, 127 per loop.

The card is compatible with Class B or Class A wiring. It is compatible with E-FSA250 control panels only.

The loop expander card connects to connector J7 on the main circuit board.

SA-DACT Dialer
The SA-DACT provides communications between the control panel and the central station over a telephone line system. It transmits system status changes (events) to a compatible digital alarm communicator receiver over the public switched telephone network. The dialer is capable of single, dual, or split reporting of events to two different account and telephone numbers. The modem feature of the SA-DACT can also be used for



uploading and downloading panel configuration, history, and current status to a PC running the FSA-CU.

The SA-DACT queues messages and transmits them based on priority (alarm, supervisory, trouble, and monitor). Activations are transmitted before restorations.

The SA-DACT is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

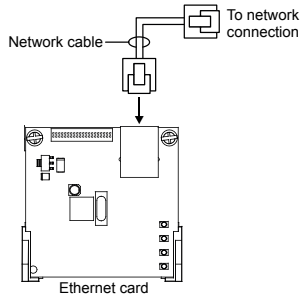
SA-232 RS-232 Interface

The SA-232 card provides an RS-232 interface with E-FSA250 panels. It can be used for connecting a printer to the control panel to print system events. The card also can be used for connecting a computer to download a configuration program from the FSA-CU to the control panel.

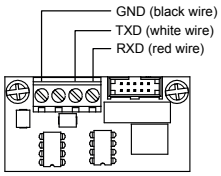
The RS-232 card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

Technical Information

SA-ETH Wiring

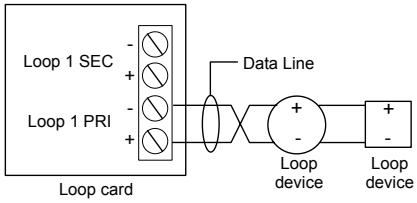


SA-232 Wiring

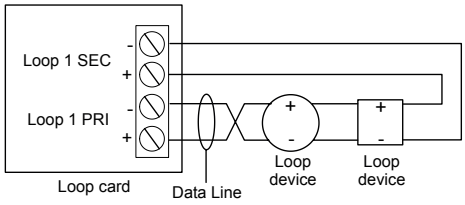


XAL127 Loop Expander Card

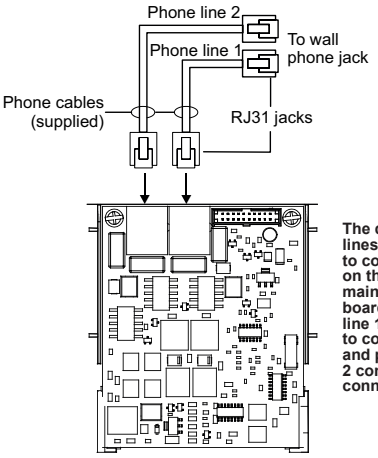
Class B Wiring



Class A Wiring



SA-DACT Wiring



The dialer phone lines connect to connectors on the dialer's main circuit board. Phone line 1 connects to connector J4 and phone line 2 connects to connector J1.

Ordering Information

Description	Cat. No.	NAC Circuits	Maximum NAC Current	Aux Power Continuous Circuit	Aux Power Resettable Circuit	Includes Dialer	Auxiliary Contacts	Color
Life Safety System Panel, 254 Point Capacity:1 loop, expandable to 2, Class A or B, each loop supporting up to 127 device addresses	**E-FSA250RD**	4 Class B or 2 Class A, 2.5 A each	6.0 A total @ 24Vfwr	24V DC nominal at 0.5 A	24V DC nominal at 0.5 A	Yes	24V DC @ 1 A resistive load	Red
	E-FSA250R	4 Class B or 2 Class A, 2.5 A each	6.0 A total @ 24Vfwr	24V DC nominal at 0.5 A	24V DC nominal at 0.5 A	No	24V DC @ 1 A resistive load	Red
	E-FSA250GD	4 Class B or 2 Class A, 2.5 A each	6.0 A total @ 24Vfwr	24V DC nominal at 0.5 A	24V DC nominal at 0.5 A	Yes	24V DC @ 1 A resistive load	Gray
	E-FSA250G	4 Class B or 2 Class A, 2.5 A each	6.0 A total @ 24Vfwr	24V DC nominal at 0.5 A	24V DC nominal at 0.5 A	No	24V DC @ 1 A resistive load	Gray

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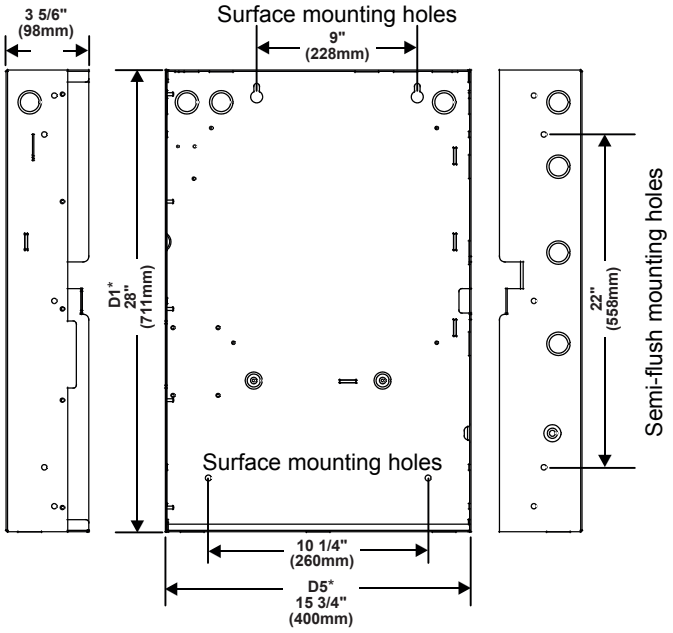
Accessories	
Description	**Cat. No.**
Flush Mount Trim - Black	**SA-TRIM2**
Option Cards:	
Dual Line Dialer/Modem, supports Contact ID (SIA DC-05), mounts in cabinet on base plate.	**SA-DACT**
Serial Port (RS-232), for connection to printers and computers, mounts in cabinet to base plate	**SA-232**
Ethernet Port, Slave, mounts in cabinet on base plate	**SA-ETH**
Loop Expansion Module. Adds second loop (127 devices) to E-FSA250 for a total capacity of 254 points. Mounts in cabinet on main board.	**XAL127**
LED Annunciator Module, 16 groups, 2 LEDs per group with insertable labeling. Mounts in cabinet on E-FSA250 systems.	**D16L-Fa**
Annunciators:	
Remote Annunciator, 4X20 LCD and Common Indicators for displaying system status, mounts to standard 4" Square electrical box. White housing.	**E-RLCD**
Remote Annunciator, 4X20 LCD, Common Indicators and Common Controls for displaying system status, mounts to standard 4" Square electrical box. White housing.	**E-RLCD-C**
Remote Annunciator, Common Indicators for displaying system status, common controls & 16 groups w/2 LEDs each for zone display, mounts to standard 4" Square electrical box. White housing.	**E-RLED-C**
Remote Annunciator Zone expander, 24 groups of 2 LEDS each for display of alarm and trouble. Each with custom label area. Mounts to standard 4" electrical box. White housing.	**RLED24**
Graphic Annunciator Driver, provides outputs for common indicators and 32 alarm/supv zones as well as inputs for common switches. Provided with a snap track for mounting in custom graphic enclosures.	**GCI**

Accessories	(Continued)
Description	**Cat. No.**
Remote Annunciator Cabinets and Accessories	
Remote Annunciator Enclosure, key locked with plexiglass window for one RLCD(C) or RLED(C).	**RA-ENC1**
Remote Annunciator Enclosure, key locked with plexiglass window with space for 2 of either RLCDx, RLEDx or RLED24.	**RA-ENC2**
Remote Annunciator Enclosure, key locked with plexiglass window with space for 3 of either RLCDx, RLEDx or RLED25.	**RA-ENC3**
Keyswitch, single gang, provides key operated enable or disable of common controls on RLCD or RLED units.	**RKEY**
Surface Mount Box - for R-Series Annunciators	**LSRA-SB**
Programming Tools:FSC/FSA Series configuration and diagnostics utility	**FSA-CU**

Addressable Fire Alarms
Panels
E-FSA Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
E-FSA250RD	35.00
E-FSA250R	35.00
E-FSA250GD	35.00
E-FSA250G	35.00
SA-TRIM2	2.50
SA-DACT	0.50
SA-232	0.25
SA-ETH	0.25
XAL127	0.25
D16L-Fa	0.25



* Add 1-1/2 in. (38.1mm) for trim kit.

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Addressable Fire Alarms
Remote Annunciators
E-FSA Series

Edwards R-Series are remote annunciators that provide status indication and common controls for compatible fire alarm control panels, including E-FSA-Series small analog fire alarm systems. Models are available with LCD or LED annunciation, and the LCD models are available with and without common controls. An LED-based expander module can be connected to any annunciator to extend its capabilities.

All annunciator models include status LEDs and an internal buzzer. Two models have an LCD text display, and one has 16 pairs of LEDs for zone annunciation. LCD models feature a large back-lit LCD display.

R-Series annunciators and expanders are mounted on a standard 4-inch square electrical box, using the included mounting ring. They can also be surface mounted in locking steel enclosures.

Features and Specifications

- 4 x 20 character backlit LCD display **(LCD models)**
- 16 pairs of LEDs for zone annunciation **(LED models)**
- Expander extends capability with 24 pairs of LEDs
- Up to two expanders may be wired to each annunciator
- Status LEDs and internal buzzer standard on all models
- Common controls available for LED and LCD display models
- Available keyswitch for disabling common controls
- Standard 4-inch square electrical box mounting
- Class B or Class A RS485 wiring standard
- One-, two-, and three-position enclosures available
- Graphic Annunciator interface, includes common control, indicators and 32 LEDS
- No programming required, set the address and unit receives all information from panel
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage	Current		Wire Size
			Standby	Alarm	
LCD Annunciator	**E-RLCD**	24V DC	0.099 A	0.115 A	14 - 18 AWG
LCD Annunciator with Common Controls	**E-RLCD-C**	24V DC	0.098 A	0.113 A	14 - 18 AWG
LED Annunciator with Common Controls	**E-RLED-C**	24V DC	0.028 A	0.062 A	14 - 18 AWG
LED Expander Module	**RLED24**	24V DC	0.006 A	0.034 A	14 - 18 AWG
Graphic Annunciator Interface	**GCI**	24V DC	0.036 A	0.146 A	14 - 18 AWG

DC
120°F
32°F
OP TEMP

Addressable Fire Alarms
Remote Annunciators
E-FSA Series

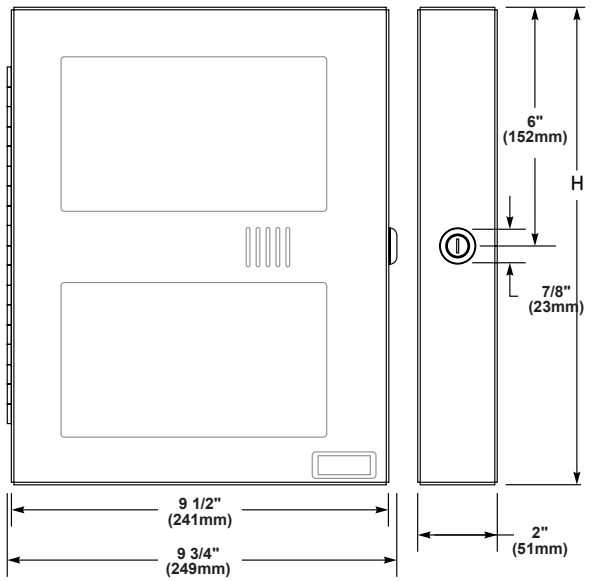
Accessories

Description	Cat. No.
One-position enclosure for Remote Annunciator	**RA-ENC1**
Two-position enclosure for Remote Annunciator and one Remote Expander, including one interconnection cable	**RA-ENC2**
Three-position enclosure for Remote Annunciator and two Remote Expanders, including two interconnection cables	**RA-ENC3**
Surface Mount Box - for single R Series annunciator	**LSRA-SB**
Remote key switch	**RKEY**
Electrical box, surface mount, white, single-gang, for RKEY	**27193-16**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Height (in.)	Width (in.)	Depth (in.)
E-RLCD	1.50	5.625	8.5	1.5
E-RLCD-C	1.50	5.625	8.5	1.5
E-RLED-C	1.50	5.625	8.5	1.5
RLED24	1.50	5.625	8.5	1.5
RA-ENC1	—	6.3	9.8	2.0
RA-ENC2	—	12.0	9.8	2.0
RA-ENC3	—	17.7	9.8	2.0
LSRA-SB	2.25	5.75	8.5	2.0
GCI	0.25	—	—	—
RKEY	0.25	—	—	—
27193-16	1.10	4.25	3.0	2.5

NOTE: Allow approximately 2 inches (50cm) clearance on both sides of the enclosure, to permit inserting and removing the key, and opening the door through 90 degrees.



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Addressable Fire Alarms
Detectors and Bases
E-Series

Edwards E-Series Addressable Detectors are available in three versions: The E-HD is a selectable rate of rise or fixed-temperature heat detector with an alarm threshold of 135ºF (57ºC). The E-PHD houses an optical sensing chamber that detects smoke, as well as a fixed-temperature sensor that detects heat. The detector analyzes data from both sensors to determine when an alarm is initiated. The E-PD houses an optical sensing chamber that detects smoke.

E-Series detectors resist air movement caused by heating and air conditioning and feature comprehensive self-diagnostic capability. E-PD and E-PHD optical detectors continuously adjust their sensitivity reference value to compensate for changes in the environment such as the presence of dirt, temperature, and humidity. These detectors issue a dirty sensor warning when they reach their preset limit.

E-Series detectors have a twist-and-lock design to simplify installation and maintenance operations. A plastic breakout on the detector housing prevents removal from the base except with a special tool. A red LED flashes red when the detector is in alarm.

Features and Specifications

- Optical, heat, and multi-sensor models
- Up to 100dB @ 1m/90dB @ 10ft.
- Field replaceable optical chamber
- Compatible standard, relay, isolator, and audible bases
- Bases mount to standard North American two-gang or 4" square electrical boxes
- Twist-and-lock installation
- LED alarm indication
- Tamper-resistant feature
- Self-diagnostic capability with on-board storage of results
- Optical detectors feature automatic rate compensated sensitivity adjustment, as well as dirty sensor warnings
- Conformally coated components resist dust and humidity
- Automatic detector test
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Contact Ratings	Air Velocity	Smoke Sensitivity Range	UL Fixed Temp Alarm Rating	High dB - Temporal dB at 1m/10ft.
Combination Smoke and Heat Detector	**E-PHD**	15.2 - 19.95V DC	0.000045 A	—	0 to 5000 ft./min. (0 to 25.39 m/s)	0.67% - 3.66%	135ºF (57ºC)	—
Optical Smoke Detector	**E-PD**	15.2 - 19.95V DC	0.000045 A	—	0 to 5000 ft./min. (0 to 25.39 m/s)	0.67% - 3.66%	N/A	—
Fixed Temperature/ROR Heat Detector	**E-HD**	15.2 - 19.95V DC	0.000045 A	—	—	—	135ºF (57ºC)	—
Audible Detector Base	**SB4U**	24V DC	0.024 - 0.041 A	—	—	—	—	100/90
Standard Base	**B4U**	—	—	—	—	—	—	—
Relay Base	**RB4U**	—	—	2 A @ 30V DC, Form C	—	—	—	—
Isolator Base	**IB4U**[1]	—	—	—	—	—	—	—

[1]For use on Class A circuits only. Protects SLC from complete collapse due to a wire to wire short.

Addressable Fire Alarms
Detectors and Bases
E-Series

Accessories

Description	Cat. No.
Surface Box for Audible Base	**AB4G-SB**
Remote alarm LED, use with standard base only	**RLED**
Replacement optical chambers (package of 10)	**211-10PKG**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions			
		Diameter (in.)	Width (in.)	Height (in.)	Depth (in.)
E-PHD	0.25	4	—	1.75	—
E-PD	0.25	4	—	1.75	—
E-HD	0.25	4	—	1.75	—
SB4U	0.11	6	—	2.57[1]	—
B4U	0.11	6	—	2.08[1]	—
RB4U	0.11	6	—	2.57[1]	—
IB4U	0.11	6	—	2.57[1]	—
AB4G-SB	1.00	6.8	—	1.8	—
RLED	0.20	—	2.35	4.5	0.75
211-10PKG	0.25	—	—	—	—

[1]Including detector

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Addressable Fire Alarms
Detectors and Bases
E-Series

The Edwards E-PDD Duct Smoke Detector provides early warning of an impending fire and shuts down the HVAC unit in order to prevent smoke from circulating throughout the building. The duct smoke detector is designed for use in duct applications where temperatures can exceed standard detector capabilities.

The E-PDD Duct Smoke Detector features removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets to keep contaminants away from components. When cleaning is required, the assemblies easily come apart and snap back together.

Features and Specifications

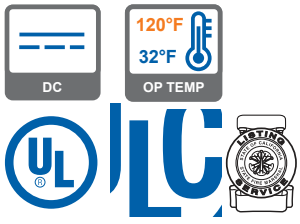
- Less than 2" deep
- 100 ft./min. to 4,000 ft./min. air velocity rating
- Low current drain
- Status LEDs remain visible through clear assembly cover
- Cover monitor switch for added security
- Standard sampling tube spacing
- Sampling tube can be installed with or without the cover in place; can be rotated in 45° increments
- Magnet-activated test switch
- One programmable Form C auxiliary alarm relay for controlling ancillary equipment (e.g., HVAC controls)
- Environmental compensation with differential sensing for reliable, stable, and drift-free sensitivity
- Wide 0.79% to 2.46% obscuration/ft. smoke sensitivity
- Identification of dirty or defective detectors
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Communication Line Voltage	Operating Current			Alarm Test Response Time	Common Alarm Relay	Sensitivity	Wire Size
			Normal	Standby	Inrush				
Intelligent Duct Detector	**E-PDD**	Max. 20 V peak-to-peak	0.000045 A	0.000045 A	0.001 A	5 sec.	2 A @ 30V DC, Form C	0.79 to 2.46%/ft. obscuration	14 - 22 AWG

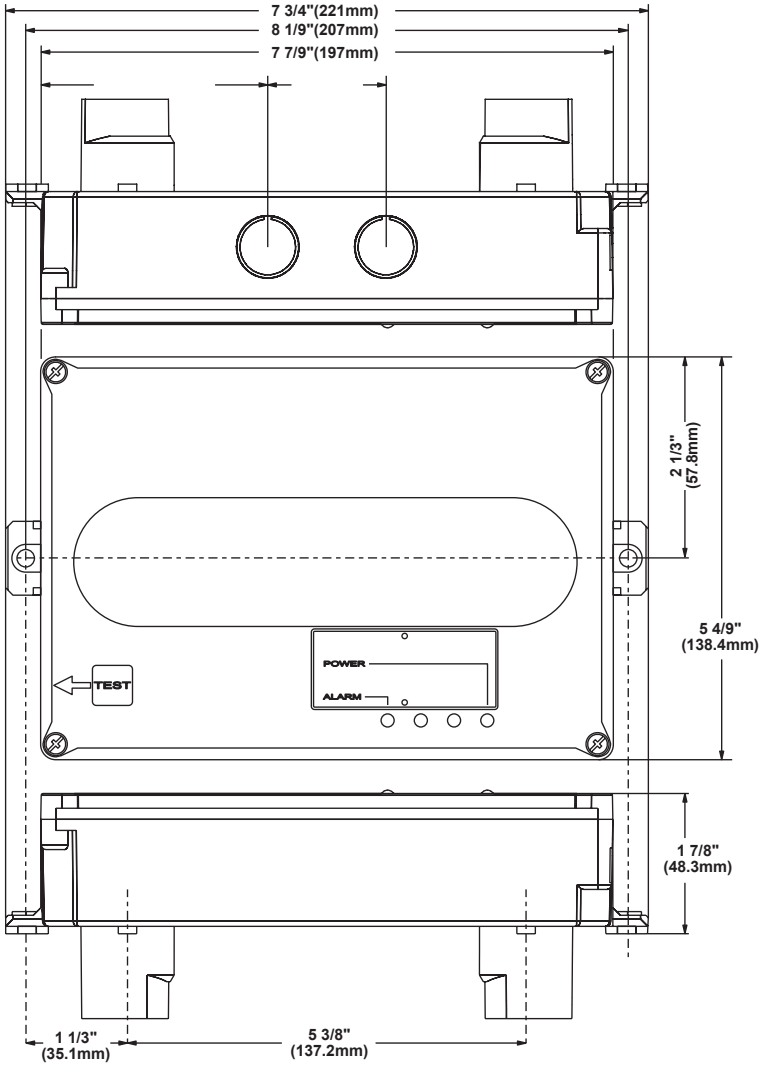
Accessories

Description	Cat. No.
8-inch sampling tube	**SD-T8**
18-inch sampling tube	**SD-T18**
24-inch sampling tube	**SD-T24**
36-inch sampling tube	**SD-T36**
42-inch sampling tube	**SD-T42**
60-inch sampling tube	**SD-T60**
78-inch sampling tube	**SD-T78**
120-inch sampling tube	**SD-T120**
Protective housing for high humidity areas	**SD-PH**
Remote test station, magnetic	**SD-TRM**
Remote test station, keyed	**SD-TRK**
Remote LED indicator	**R-LED**
Air velocity test kit (stoppers only, etc)	**SD-VTK**
Test magnet kit	**SD-MAG**
Replacement PCB kit	**E-SDPCB**



Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
E-PDD	2.4
SD-T8	0.5
SD-T18	1.5
SD-T24	2.7
SD-T36	3.0
SD-T42	3.5
SD-T60	5.8
SD-T78	7.8
SD-T120	11.5
SD-PH	5.5
SD-TRM	1.0
SD-TRK	1.0
R-LED	1.0
SD-VTK	1.0
SD-MAG	0.5
E-SDPCB	1.0



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Addressable Fire Alarms
Modules and Pull Stations
E-Series

E-IDC2B

E-IDC1B

Edwards Signaling modules are addressable devices designed for use in small buildings, and are uniquely identified on the system by means of rotary switches. Once registered, they share data and update status information that determines how the system behaves and how connected devices interact with one another.

E-Series modules feature a unique ground fault detection that pinpoints the specific module where the wiring problem has occurred.

Each E-Series device contains a microprocessor to distribute intelligence throughout the system so that command decisions are made instantly at the individual module, rather than at the control panel. This feature helps to speed event processing.

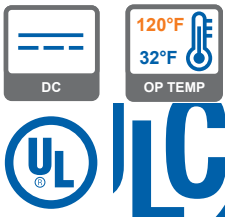
Features and Specifications

- **Analog Class A single input module:** Used to connect a normally open, alarm, supervisory, or monitor type dry contact initiating device circuit to the Edwards Signaling control panel
- **Analog single input mini module:** Connects a normally open, alarm, supervisory, or monitor type dry contact initiating device circuit (IDC) to the Edwards Signaling control panel. For Class B circuit operation.
- **Class A-B two-wire module:** Acts as an interface between conventional two-wire smoke detectors and the Edwards Signaling control panel
- **Analog dual input module:** Connects two normally open, alarm, supervisory, or monitor type dry contact initiating device circuits to the Edwards Signaling control panel
- **Analog dual input waterflow, supervisory module:** Connects normally open waterflow alarm and supervisory initiating device circuits to the Edwards Signaling control panel. For Class B circuit operation.
- **Analog NAC module:** Connects supervised output circuit to a signal riser
- **Analog contact relay module:** Provides one Form C dry relay contact and can be configured to provide polarity reversal of its output
- **Analog SLC fault isolator module:** Protects Class A SLC from total collapse due to wire-to-wire short circuits
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Communication Line Voltage	Current		Wire Size	NAC Rating	Contact Ratings	Compatible Electrical Boxes
			Standby	Activated				
Analog Class A Single Input Module	**E-IDC1A**	Max. 20 V peak-to-peak	0.0004 A	0.0005 A	12 - 18 AWG	—	—	4" square or dbl. gang, 1.5" deep
Analog Single Input Mini Module	**E-IDC1B**	Max. 20 V peak-to-peak	0.00035 A	0.0005 A	12 - 18 AWG	—	—	—
Two-Wire Smoke Detector Module	**E-2WIRE**	Max. 20.6 V peak-to-peak	0.00035 A	0.00035 A	12 - 18 AWG	—	—	4" square or dbl. gang, 1.5" deep
Analog Dual Input Module	**E-IDC2B**	Max. 20 V peak-to-peak	0.00055 A	0.000725 A	12 - 18 AWG	—	—	4" square or dbl. gang, 1.5" deep
Analog Dual Input Waterflow-Supervisory Module	**E-IDCWS**	Max. 20 V peak-to-peak	0.00055 A	0.000725 A	12 - 18 AWG	—	—	4" square or dbl. gang, 1.5" deep
Analog NAC Module	**E-NAC**	Max. 20 V peak-to-peak	0.00035 A	0.0002 A	12 - 18 AWG	2.0 A	—	4" square or dbl. gang, 1.5" deep
Analog Contact Relay Module	**E-RLY**	Max. 20 V peak-to-peak	0.000125 A	0.000125 A	12 - 18 AWG	—	2 A @ 30V DC; 0.5 A @ 125V DC	4" square or dbl. gang, 1.5" deep
Analog SLC Fault Isolator Module	**E-ISO**[1]	Max. 20 V peak-to-peak	0.000175 A	0.0002 A	12 - 18 AWG	—	—	4" square or dbl. gang, 1.5" deep

[1]For Class A circuits only.



Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Depth (in.)
E-IDC1A	0.50	4.5	4	1.375
E-IDC1B	0.34	2.75	1.5	0.75
E-2WIRE	0.50	4.5	4	1.375
E-IDC2B	0.50	4.5	4	1.375
E-2IDCWS	0.50	4.5	4	1.375
E-NAC	0.50	4.5	4	1.375
E-RLY	0.50	4.5	4	1.375
E-ISO	0.50	4.5	4	1.375

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Addressable Fire Alarms
Modules and Pull Stations
E-Series

Edwards Signaling pull stations are addressable modules designed for use in small buildings, and are uniquely identified on the system by means of rotary switches. Once registered, they share data and update status information that determines how the system behaves and how connected devices interact with one another.

Each E-Series device contains a microprocessor to distribute intelligence throughout the system so that command decisions are made instantly at the individual module, rather than at the control panel. This feature helps to speed event processing.

Features and Specifications

- Intelligent device with integral microprocessor
- Simple positive pull action
- Break glass operation
- Die-cast metal body **(E-270)**
- Single action and double action models
- Lexan housings with keyed reset **(E-278)**
- ADA Compliant
- Rotary Addressing
- Status LEDs; flashing GREEN shows normal polling; flashing RED shows alarm state
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Communication Line Voltage	Current		Wire Size	Compatible Electrical Boxes
			Standby	Activated		
Single-action Pull Station	**E-270**	Max. 20 V peak-to-peak	0.00035 A	0.0005 A	12 - 18 AWG	North American 2.5" deep, 1 gang box; Standard 4" square box, 1.5" deep with 1 gang cover
Double-action Pull Station	**E-278**	Max. 20 V peak-to-peak	0.00035 A	0.0005 A	12 - 18 AWG	

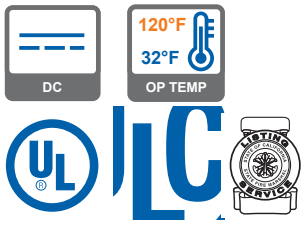
Accessories

Description	Cat. No.
Surface Backbox, Red	**276B-RSB**
Station Reset Key, Supplied with all Key Reset Stations	**276-K1**
20 Glass Rods - for E-270 series (USA ONLY)	**270-GLR**
20 Glass Rods - for E-278 series	**276-GLR**

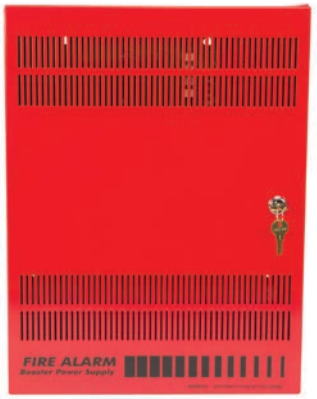
Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions				
		Width (in.)	Height (in.)	Depth (in.)	Length (in.)	Diameter (in.)
E-270[1]	1.0	3.25	4.5	1.0	—	—
E-278[1]	1.0	3.563	5.188	1.375	—	—
276B-RSB	1.2	3.5	5	2.375	—	—
276-K1	0.1	—	—	—	—	—
270-GLR[2]	0.1	—	—	—	2.188	0.156
276-GLR[2]	0.1	—	—	—	3.31	0.118

[1]Module depth, add 1.625"
[2]Dimensions are per glass rod.



Conventional and Addressable Accessories
Booster Power Supplies
EBPS Series



The Edwards EBPS Series Booster Power Supply is UL 864, 9th Edition listed. It is a 24V DC filtered-regulated, and supervised unit that can easily be configured to provide additional notification appliance circuits (NACs) or auxiliary power for Mass Notification/ Emergency Communication (MNEC), as well as life safety, security, and access control applications.

The EBPS contains circuitry to monitor and charge internal or external batteries. Its steel enclosure accommodates up to two 10 ampere-hour batteries. It has four Class B (convertible to two Class A) NACs that can be activated in one or two groups from its unique dual input circuits.

The EBPS is available in 6.5 or 10 ampere models. Each output circuit has a capacity of three amperes.

Features and Specifications

- Provides for Genesis and Enhanced Integrity notification appliance synchronization
- Supports coded output operation
- Self-restoring overcurrent protection
- Multiple signal rates
- Can be cascaded or controlled independently
- Easy field configuration
- On-board diagnostic LEDs identify wiring or internal faults
- Standard Edwards keyed lockable steel cabinet with removable door
- Accommodates 18 to 12 AWG wire sizes
- Optional tamper switch
- Dual battery charging rates
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	NAC Rating	Aux. Outputs
Booster Power Supply	**EBPS6A**	120V AC	6.5 A	3 A max/circuit @ 24V DC; 6.5 A max total	4 - configurable
	EBPS10A	120V AC	10 A	3 A max/circuit @ 24V DC; 10 A max total	4 - configurable

[1]AC voltage frequency is 50/60 Hz

Accessories

Description	Cat. No.
7.2 Amp Hour Battery, two required	**12V6A5**
10 Amp Hour Battery, two required	**12V10A**
18 Amp Hour Battery, two required[2]	**12V17A**
24 Amp Hour Battery, two required[2]	**12V24A**
Battery Cabinet (up to 2 - 40 Amp Hour Batteries)	**BC-1**
Battery Cabinet (up to 2 - 17 Amp Hour Batteries)	**BC-2**

[2]Requires installation of separate battery cabinet.

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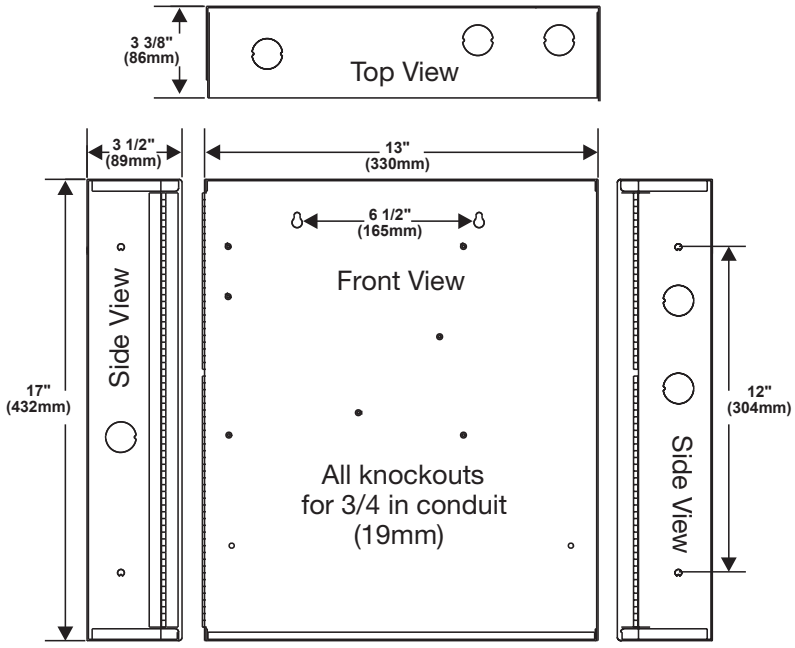
Conventional and Addressable Accessories
Booster Power Supplies
EBPS Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
EBPS6A	13.0
EBPS10A	13.0
12V6A5	3.4
12V10A	9.5
12V17A	13.0
12V24A	20.0
BC-1	58.0
BC-2	19.0



Conventional and Addressable Accessories
Wall Horns and Strobes
Genesis Series

The Genesis line of wall-mount horns and strobes are small, compact audible-visible life safety signaling devices. Protruding no more than one inch from the wall, Genesis horns and horn-strobes feature textured housings in white or red.

Edwards Genesis strobes do not require bulky specular reflectors and lenses. The patented cavity design conditions light to produce a highly controlled distribution pattern. FullLight strobe technology produces a smooth light distribution pattern. This ensures the entire coverage area receives consistent illumination from the strobe flash.

The strobes are designed to flash at the same rate (synchronized) when used with a compatible synchronization source such as the EG1M-RM and EG1M synchronization modules, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

Genesis strobes and horn-strobes feature selectable candela output with a switch located on the bottom of the device. The candela setting is visible even after the device is installed. Models are also available with fixed 15/75 cd output.

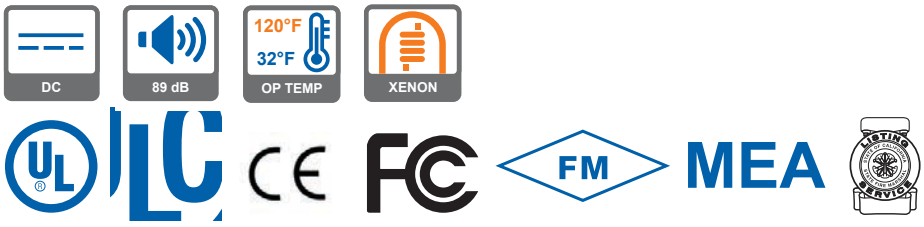
Features and Specifications

- Xenon light source
- Clear lens
- White or red housing
- Low profile design
- Field selectable candela output via switch
- 99dB @ 1m/89dB @ 10ft. output
- Field selectable for high or low dB horn output and temporal or steady horn output (-HD models)
- Fits standard single gang electrical boxes – no extension ring or trim plate required
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current[2]	Candela Rating	Marking	Color
Strobe Only	**EG1-VM**	24V DC	0.103 A, 0.141 A, 0.255 A, 0.311 A	Selectable: 15, 30, 75, 110	None	White
		24Vfwr	0.125 A, 0.179 A, 0.346 A, 0.392 A			
	EG1F-V1575	24V DC	0.152 A	15/75[3]	FIRE	White
		24Vfwr	0.224 A			
	EG1F-VM	24V DC	0.103 A, 0.141 A, 0.255 A, 0.311 A	Selectable: 15, 30, 75, 110	FIRE	White
		24Vfwr	0.125 A, 0.179 A, 0.346 A, 0.392 A			
	EG1RF-V1575	24V DC	0.152 A	15/75[3]	FIRE	Red
		24Vfwr	0.224 A			
	EG1RF-VM	24V DC	0.103 A, 0.141 A, 0.255 A, 0.311 A	Selectable: 15, 30, 75, 110	FIRE	Red
		24Vfwr	0.125 A, 0.179 A, 0.346 A, 0.392 A			
	EG1R-VM	24V DC	0.103 A, 0.141 A, 0.255 A, 0.311 A	Selectable: 15, 30, 75, 110	None	Red
		24Vfwr	0.125 A, 0.179 A, 0.346 A, 0.392 A			

[1]Regulated 16V to 33V.
[2]Currents are UL, RMS ratings.
[3]15cd per UL1971, 75cd per UL1638.



Ordering Information (Continued)

Description	Cat. No.	Operating Voltage[1]	Current[3]	Current High dB[3]	Current Low dB[3]	Steady Tone dB at 1m/10ft.[4]	Temporal Tone dB at 1m/10ft.[4]	Marking	Color
Temporal Horn Only	EG1F-HD	24V DC	—	0.036 A	0.027 A	98.6/88.6	94.4/84.4	FIRE	White
		24Vfwr	—	0.069 A	0.052 A				
	EG1-HD	24V DC	—	0.036 A	0.027 A	98.6/88.6	94.4/84.4	None	White
		24Vfwr	—	0.069 A	0.052 A				
	EG1RF-HD	24V DC	—	0.036 A	0.027 A	98.6/88.6	94.4/84.4	FIRE	Red
		24Vfwr	—	0.069 A	0.052 A				
	EG1R-HD	24V DC	—	0.036 A	0.027 A	98.6/88.6	94.4/84.4	None	Red
		24Vfwr	—	0.069 A	0.052 A				
Steady Horn[2]	EG1F-P	24V DC	0.013 A	—	—	87/77	—	FIRE	White
		24Vfwr	0.011 A						
	EG1-P	24V DC	0.013 A	—	—	87/77	—	None	White
		24Vfwr	0.011 A						
	EG1RF-P	24V DC	0.013 A	—	—	87/77	—	FIRE	Red
		24Vfwr	0.011 A						
	EG1R-P	24V DC	0.013 A	—	—	87/77	—	None	Red
		24Vfwr	0.011 A						

[1]Regulated 16V to 33V
[2]Not compatible with synchronized circuits
[3]Current values are UL, RMS ratings
[4]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current High dB[3]	Current Low dB[3]	Candela Rating	Steady Tone dB at 1m/10ft.[4]	Temporal Tone dB at 1m/10ft.[4]	Marking	Color
Temporal Horn and Strobe	EG1F-HDV1575	24V DC	0.172 A	0.146 A	15/75[5]	98.6/88.6	94.4/84.4	FIRE	White
		24Vfwr	0.269 A	0.231 A					
	EG1F-HDVM	24V DC	0.129 A, 0.167 A, 0.281 A, 0.337 A	0.122 A, 0.160 A, 0.274 A, 0.330 A	Selectable: 15, 30, 75, 110	98.6/88.6	94.4/84.4	FIRE	White
		24Vfwr	0.176 A, 0.230 A, 0.397 A, 0.443 A	0.162 A, 0.216 A, 0.383 A, 0.429 A					
	EG1-HDVM	24V DC	0.129 A, 0.167 A, 0.281 A, 0.337 A	0.122 A, 0.160 A, 0.274 A, 0.330 A	Selectable: 15, 30, 75, 110	98.6/88.6	94.4/84.4	None	White
		24Vfwr	0.176 A, 0.230 A, 0.397 A, 0.443 A	0.162 A, 0.216 A, 0.383 A, 0.429 A					
	EG1RF-HDV1575	24V DC	0.172 A	0.146 A	15/75[5]	98.6/88.6	94.4/84.4	FIRE	Red
		24Vfwr	0.269 A	0.231 A					
	EG1RF-HDVM	24V DC	0.129 A, 0.167 A, 0.281 A, 0.337 A	0.122 A, 0.160 A, 0.274 A, 0.330 A	Selectable: 15, 30, 75, 110	98.6/88.6	94.4/84.4	FIRE	Red
		24Vfwr	0.176 A, 0.230 A, 0.397 A, 0.443 A	0.162 A, 0.216 A, 0.383 A, 0.429 A					
	EG1R-HDVM	24V DC	0.129 A, 0.167 A, 0.281 A, 0.337 A	0.122 A, 0.160 A, 0.274 A, 0.330 A	Selectable: 15, 30, 75, 110	98.6/88.6	94.4/84.4	None	Red
		24Vfwr	0.176 A, 0.230 A, 0.397 A, 0.443 A	0.162 A, 0.216 A, 0.383 A, 0.429 A					

[5]15cd per UL1971, 75cd per UL1638.

Conventional and Addressable Accessories
Wall Horns and Strobes
Genesis Series

Accessories

Description	Cat. No.	Marking	Color
Genesis Trim Plate (for two-gang or 4" square boxes)	**EG1T**	None	White
Genesis Trim Plate (for two-gang or 4" square boxes)	**EG1RT**	None	Red
Genesis Trim Plate (for two-gang or 4" square boxes)	**EG1T-FIRE**	FIRE	White
Genesis Trim Plate (for two-gang or 4" square boxes)	**EG1RT-FIRE**	FIRE	Red
One-gang surface mount box	**27193-16**	—	White
One-gang surface mount box	**27193-11**	—	Red
Synchronization module	**EG1M**		
Synchronization module	**EG1M-RM**		

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Height (in.)	Width (in.)	Depth (in.)
EG1-VM	0.25	4.5	2.75	0.82
EG1F-V1575	0.25	4.5	2.75	0.82
EG1F-VM	0.25	4.5	2.75	0.82
EG1RF-V1575	0.25	4.5	2.75	0.82
EG1RF-VM	0.25	4.5	2.75	0.82
EG1R-VM	0.25	4.5	2.75	0.82
EG1F-HD	0.25	4.5	2.75	0.82
EG1-HD	0.25	4.5	2.75	0.82
EG1RF-HD	0.25	4.5	2.75	0.82
EG1R-HD	0.25	4.5	2.75	0.82
EG1F-P	0.25	4.5	2.75	0.82
EG1-P	0.25	4.5	2.75	0.82
EG1RF-P	0.25	4.5	2.75	0.82
EG1R-P	0.25	4.5	2.75	0.82
EG1F-HDV1575	0.25	4.5	2.75	0.82
EG1F-HDVM	0.25	4.5	2.75	0.82
EG1-HDVM	0.25	4.5	2.75	0.82
EG1RF-HDV1575	0.25	4.5	2.75	0.82
EG1RF-HDVM	0.25	4.5	2.75	0.82
EG1R-HDVM	0.25	4.5	2.75	0.82
EG1T	0.15	5.875	5.0	0.5
EG1RT	0.15	5.875	5.0	0.5
EG1T-FIRE	0.15	5.875	5.0	0.5
EG1RT-FIRE	0.15	5.875	5.0	0.5
27193-16	1.00	4.75	3.0	2.5
27193-11	1.00	4.75	3.0	2.5

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Conventional and Addressable Accessories
Ceiling Horns and Strobes
Genesis Series

Genesis life safety ceiling strobes are small, compact, visible emergency signaling devices. Protruding no more than 1.6" (41mm) from the ceiling, Genesis strobes feature housings in neutral white or life safety red.

Edwards Genesis ceiling strobes do not require bulky specular reflectors and lenses. The patented cavity design conditions light to produce a highly controlled distribution pattern. FullLight strobe technology produces a smooth light distribution pattern. This ensures the entire coverage area receives consistent illumination from the strobe flash.

The strobes are designed to flash at the same rate (synchronized) when used with a compatible synchronization source such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

Genesis Series include models 15 to 95, or 95 to 177 candela output that is selectable with a conveniently located switch. The candela output setting remains clearly visible and locked into place after final installation.

Features and Specifications

- Xenon light source
- Clear lens
- White or red housing
- Low profile design
- Field selectable candela output via switch
- Fits all standard 4" square electrical boxes – no extension ring or trim plate required
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

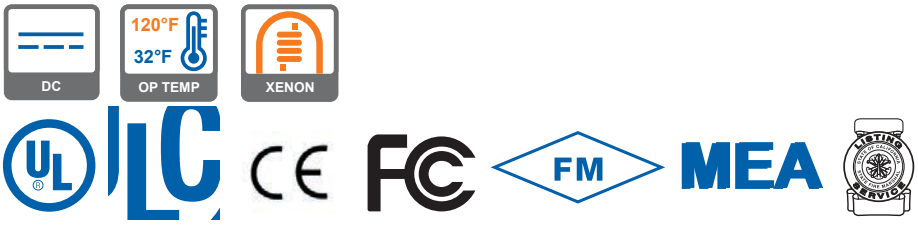
Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current[2]	Candela Rating	Marking	Housing Color
Field Configurable Ceiling Strobe	**EGC-VM**	24V DC	0.109 A, 0.151 A, 0.281 A, 0.318 A	Selectable: 15, 30, 75, 95	None	White
		24Vfwr	0.131 A, 0.194 A, 0.379 A, 0.437 A			
	EGCF-VM	24V DC	0.109 A, 0.151 A, 0.281 A, 0.318 A	Selectable: 15, 30, 75, 95	FIRE	White
		24Vfwr	0.131 A, 0.194 A, 0.379 A, 0.437 A			
	EGCFR-VM	24V DC	0.109 A, 0.151 A, 0.281 A, 0.318 A	Selectable: 15, 30, 75, 95	FIRE	Red
		24Vfwr	0.131 A, 0.194 A, 0.379 A, 0.437 A			
	EGC-VMH	24V DC	0.330 A, 0.392 A, 0.502 A, 0.565 A	Selectable: 95, 115, 150, 177	None	White
		24Vfwr	0.432 A, 0.518 A, 0.643 A, 0.693 A			
	EGCF-VMH	24V DC	0.330 A, 0.392 A, 0.502 A, 0.565 A	Selectable: 95, 115, 150, 177	FIRE	White
		24Vfwr	0.432 A, 0.518 A, 0.643 A, 0.693 A			

[1]Regulated 16V to 33V
[2]Current values are UL, RMS ratings

Accessories

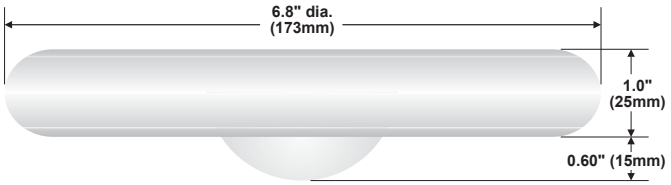
Description	Cat. No.
Synchronization module	**EG1M-RM**



Conventional and Addressable Accessories
Ceiling Horns and Strobes
Genesis Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
EGC-VM	1.8
EGCF-VM	1.8
EGCFR-VM	1.8
EGC-VMH	1.8
EGCF-VMH	1.8
EG1M-RM	0.3



Conventional and Addressable Accessories
Ceiling Horns and Strobes
Genesis Series

Genesis ceiling horn-strobes are small, compact, audible-visible emergency signaling devices. Protruding no more than 1.6" (41mm) from the ceiling, Genesis horn-strobes feature textured housings in neutral white or life safety red.

Edwards Genesis strobes do not require bulky specular reflectors and lenses. The patented cavity design conditions light to produce a highly controlled distribution pattern. FullLight strobe technology produces a smooth light distribution pattern. This ensures the entire coverage area receives consistent illumination from the strobe flash.

The strobes are designed to flash at the same rate (synchronized) when used with a compatible synchronization source such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

Genesis Series include models 15 to 95, or 95 to 177 candela output that is selectable with a conveniently located switch. The candela output setting remains clearly visible and locked into place after final installation.

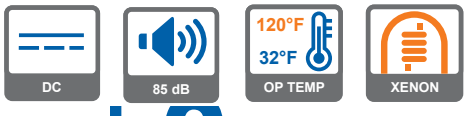
Features and Specifications

- Xenon light source
- Clear lens
- White or red housing
- Low profile design
- Field selectable candela output via switch
- 95dB @ 1m/ 85dB @ 10ft. output
- Fits all standard 4" square electrical boxes – no extension ring or trim plate required
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current[2]	Candela Rating	dB at 1m/10ft.[3]	Marking	Housing Color
Ceiling Horn and Strobe	**EGC-HDVM**	24V DC	0.147 A, 0.190 A, 0.316 A, 0.372 A	Selectable: 15, 30, 75, 95	95/85	None	White
		24Vfwr	0.189 A, 0.253 A, 0.417 A, 0.451 A				
	EGCF-HDVM	24V DC	0.147 A, 0.190 A, 0.316 A, 0.372 A	Selectable: 15, 30, 75, 95	95/85	FIRE	White
		24Vfwr	0.189 A, 0.253 A, 0.417 A, 0.451 A				
	EGCFR-HDVM	24V DC	0.147 A, 0.190 A, 0.316 A, 0.372 A	Selectable: 15, 30, 75, 95	95/85	FIRE	Red
		24Vfwr	0.189 A, 0.253 A, 0.417 A, 0.451 A				
	EGC-HDVMH	24V DC	0.341 A, 0.399 A, 0.506 A, 0.570 A	Selectable: 95, 115, 150, 177	95/85	None	White
		24Vfwr	0.487 A, 0.578 A, 0.670 A, 0.711 A				
	EGCF-HDVMH	24V DC	0.341 A, 0.399 A, 0.506 A, 0.570 A	Selectable: 95, 115, 150, 177	95/85	FIRE	White
		24Vfwr	0.487 A, 0.578 A, 0.670 A, 0.711 A				

[1]Regulated 16V to 33V
[2]Current values are UL, RMS ratings
[3]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.



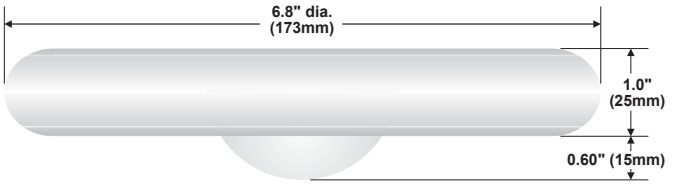
Conventional and Addressable Accessories
Ceiling Horns and Strobes
Genesis Series

Accessories

Description	Cat. No.
Synchronization module	**EG1M-RM**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
EGC-HDVM	0.82
EGCF-HDVM	0.82
EGCFR-HDVM	0.82
EGC-HDVMH	0.82
EGCF-HDVMH	0.82
EG1M-RM	0.30



Conventional and Addressable Accessories
Outdoor/Indoor Horns and Strobes
Genesis WG4 Series

Genesis WG4 Series horns and horn-strobe appliances have field-configurable light and sound output settings and optional FIRE markings. These appliances are suitable for indoor and outdoor applications.

WG4 Series appliances feature a piezoelectric sounder. The multi-candela strobes are available with clear lenses in two output categories – standard and high-output. They meet UL 1971 synchronization standards, and are field-configurable for one of four candela intensities. Candela settings are viewable even after installation through a sealed viewport display.

The WG4 Series are available for mounting on the ceiling or the wall, and an optional full backplane sealing gasket permits installation to recessed (in-the-pour/block) electrical boxes. WG4 notification appliances also mount to suitable surface boxes. Optional color-matched trim skirts are available. All appliance wiring is accomplished room-side for easy installation.

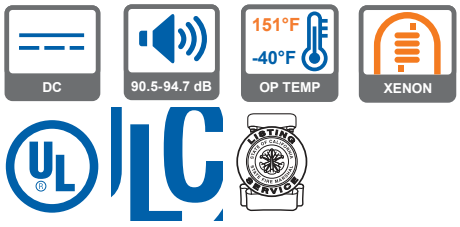
Features and Specifications

- Horn only and horn-strobe options
- Xenon strobe light source
- Suitable for indoor and outdoor applications
- Wall or ceiling mount
- Field-selectable settings
- Standard and high-output strobe intensities
- Operating temperature range: -40°F to 151°F (-40°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Horn Strobe Current, High dB[2]	Horn Current High dB	Candela Rating	Temporal dB at 1m/10ft.[3]	Steady dB at 1m/10ft.[3]	Marking	Housing Color
Horn-Strobe Standard Output	**WG4RF-HVMC**	24V DC	0.127, 0.168, 0.297, 0.351	—	15, 29, 70, 87 (selectable)	100.5/90.5	104.7/94.7	FIRE	Red
		24Vfwr	0.218, 0.239, 0.393, 0.422	—					
	WG4WF-HVMC	24V DC	0.127, 0.168, 0.297, 0.351	—	15, 29, 70, 87 (selectable)	100.5/90.5	104.7/94.7	FIRE	White
		24Vfwr	0.218, 0.239, 0.393, 0.422	—					
	WG4RN-HVMC	24V DC	0.127, 0.168, 0.297, 0.351	—	15, 29, 70, 87 (selectable)	100.5/90.5	104.7/94.7	None	Red
		24Vfwr	0.218, 0.239, 0.393, 0.422	—					
	WG4WN-HVMC	24V DC	0.127, 0.168, 0.297, 0.351	—	15, 29, 70, 87 (selectable)	100.5/90.5	104.7/94.7	None	White
		24Vfwr	0.218, 0.239, 0.393, 0.422	—					
Horn-Strobe High Output	**WG4RF-HVMHC**	24V DC	0.342, 0.408, 0.517, 0.526	—	102, 123, 147, 161 (selectable)	100.5/90.5	104.7/94.7	FIRE	Red
		24Vfwr	0.447, 0.502, 0.614, 0.679	—					
	WG4WF-HVMHC	24V DC	0.342, 0.408, 0.517, 0.526	—	102, 123, 147, 161 (selectable)	100.5/90.5	104.7/94.7	FIRE	White
		24Vfwr	0.447, 0.502, 0.614, 0.679	—					

[1]Regulated 16V to 33V
[2]Current values are UL, RMS ratings
[3]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.



Conventional and Addressable Accessories
Outdoor/Indoor Horns and Strobes
Genesis WG4 Series

Ordering Information (Continued)

Description	Cat. No.	Operating Voltage[1]	Horn Strobe Current, High dB[2]	Horn Current High dB	Candela Rating	Temporal dB at 1m/10ft.[3]	Steady dB at 1m/10ft.[3]	Marking	Housing Color
Horn-Strobe High Output	**WG4RN-HVMHC**	24V DC	0.342, 0.408, 0.517, 0.526	—	102, 123, 147, 161 (selectable)	100.5/90.5	104.7/94.7	None	Red
		24Vfwr	0.447, 0.502, 0.164, 0.679	—					
	WG4WN-HVMHC	24V DC	0.342, 0.408, 0.517, 0.526	—	102, 123, 147, 161 (selectable)	100.5/90.5	104.7/94.7	None	White
		24Vfwr	0.447, 0.502, 0.164, 0.679	—					
Horn Only	**WG4RF-H**	24V DC	—	0.069	—	100.5/90.5	104.7/94.7	FIRE	Red
		24Vfwr	—	0.135	—	100.5/90.5	104.7/94.7		
	WG4WF-H	24V DC	—	0.069	—	100.5/90.5	104.7/94.7	FIRE	White
		24Vfwr	—	0.135	—	100.5/90.5	104.7/94.7		
	WG4RN-H	24V DC	—	0.069	—	100.5/90.5	104.7/94.7	None	Red
		24Vfwr	—	0.135	—	100.5/90.5	104.7/94.7		
	WG4WN-H	24V DC	—	0.069	—	100.5/90.5	104.7/94.7	None	White
		24Vfwr	—	0.135	—	100.5/90.5	104.7/94.7		

[1]Regulated 16V to 33V
[2]Current values are UL, RMS ratings
[3]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.

Accessories

Description	Cat. No.
Surface mount trim skirt, white	**WG4WTS**
Surface mount trim skirt, red	**WG4RTS**
Full size gasket for smooth surfaces	**WG4GSKT**
Outdoor, surface mount box	**449**
Synchronization module	**EG1M-RM**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Width (in.)	Height (in.)	Depth (in.)
WG4RF-HVMC	1.5	5.6	8.5	1.4
WG4WF-HVMC	1.5	5.6	8.5	1.4
WG4RN-HVMC	1.5	5.6	8.5	1.4
WG4WN-HVMC	1.5	5.6	8.5	1.4
WG4RF-HVMHC	1.5	5.6	8.5	1.4
WG4WF-HVMHC	1.5	5.6	8.5	1.4
WG4RN-HVMHC	1.5	5.6	8.5	1.4
WG4WN-HVMHC	1.5	5.6	8.5	1.4
WG4RF-H	1.5	5.6	8.5	1.4
WG4WF-H	1.5	5.6	8.5	1.4
WG4RN-H	1.5	5.6	8.5	1.4
WG4WN-H	1.5	5.6	8.5	1.4
WG4WTS	0.2	8.88	5.63	1.31
WG4RTS	0.2	8.88	5.63	1.31
WG4GSKT	0.2	8.88	5.63	1.31
449	1.2	4.50	4.50	2.25

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Conventional and Addressable Accessories
Outdoor/Indoor Horns and Strobes
2400 Series

Edwards 2400 Series temporal horns and temporal horn-strobes are designed for use with compatible life safety communication and control equipment to alert occupants of a life safety event. The horn emits up to a 95dB (@ 1meter) low frequency sound, and must be connected to signal circuits that output a constant (not pulsed) voltage. A diode is used to allow full signal circuit supervision.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

The plastic housing is made from durable and fire retardant, high impact plastic with a slightly textured surface. The mounting plate firmly holds the device in place with a single screw. A separate trim plate is not required. Terminals accept up to #12 AWG (2.5mm^2) wire for polarized connections.

2400 Series strobes are shipped with standard wall mount style “FIRE” lens markings. Where ceiling orientation, other languages, or different lens markings are required, Edwards offers optional 2440KTW and 2440KTC series Lens Marking Kits.

Features and Specifications

- Xenon strobe light source
- Flash rate 60 fpm
- Suitable for use in indoor and outdoor applications
- Adjustable audible output: 92-95dB @ 1m (82-85dB @ 10ft.)
- Red or white front plate
- Field interchangeable markings with optional lens kits
- Flush mount to standard North American 4” square or two-gang box
- UL 1971 and UL 1638 listed
- Operating temperature range: -31ºF to 150ºF (-35ºC to 66ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current Low Setting[2]	Current High Setting	Candela Rating	dB at 1m/10ft.[4]	Housing Color
Horns	**2447TH-R**	24V	0.020 A DC, 0.028 A fwr	0.040 A DC, 0.055 A fwr	—	95/85	Red
	2447TH-W	24V	0.020 A DC, 0.028 A fwr	0.040 A DC, 0.055 A fwr	—	95/85	White
Horn Strobes	**2452THS-15/75-R**	24V	0.150 A DC, 0.210 A fwr[3]	—	15/75[5]	95/85	Red
	2452THS-15/75-W	24V	0.150 A DC, 0.210 A fwr[3]	—	15/75[5]	95/85	White
	2452THS-110-R	24V	0.329 A DC, 0.420 A fwr[3]	—	110	95/85	Red
	2452THS-110-W	24V	0.329 A DC, 0.420 A fwr[3]	—	110	95/85	White

[1]Regulated 16V to 33V DC/fwr.
[2]Current values are UL, RMS ratings
[3]Does not include horn current (same as 2447TH).
[4]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.
[5]15cd per UL1971, 75cd per UL1638.

DC | 85 dB | 150°F -31°F OP TEMP | XENON

FM APPROVED

Conventional and Addressable Accessories
Outdoor/Indoor Horns and Strobes
2400 Series

Accessories

Description	Cat. No.
Surface Box, Red, Indoor	**2459-SMB-R**
Surface Box, White, Indoor	**2459-SMB-W**
Surface Box, Red, Outdoor	**2459-WPB-R**
Surface Box, White, Outdoor	**2459-WPB-W**
Lens Marking Kits:	
“FIRE”, Wall Orientation (supplied)	**2440KTW-01**
“FIRE”, Ceiling Orientation	**2440KTC-01**
“EMERGENCY”, Wall Orientation	**2440KTW-07**
“EMERGENCY”, Ceiling Orientation	**2440KTC-07**
Synchronization Module	**EG1M-RM**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Width (in.)	Length (in.)	Height (in.)
2447TH-R	1.7	5.5	5.5	0.625
2447TH-W	1.7	5.5	5.5	0.625
2452THS-15/75-R	2.0	5.5	5.5	2.375
2452THS-15/75-W	2.0	5.5	5.5	2.375
2452THS-110-R	2.0	5.5	5.5	2.375
2452THS-110-W	2.0	5.5	5.5	2.375
2459-SMB-R	1.5	5.625	5.625	3.563
2459-SMB-W	1.5	5.625	5.625	3.563
2459-WPB-R	1.5	5.92	5.92	3.4
2459-WPB-W	1.5	5.92	5.92	3.4
2440KTW-01	0.1	—	—	—
2440KTC-01	0.1	—	—	—
2440KTW-07	0.1	—	—	—
2440KTC-07	0.1	—	—	—

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Conventional and Addressable Accessories
Outdoor/Indoor Horns and Strobes
CS405 Series

CS405 Series strobes are designed for use with compatible life safety communication and control equipment to alert the hearing impaired of a life safety event. Strobes are available with 15/75 cd and 110 cd effective flash intensity, and are fully compatible with Genesis signals. The flash from CS405 Series strobes can be noticed from almost any position in the room, corridor, or large open space.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

CS405 Series must be connected to signal circuits that output a constant (not pulsed) voltage. A diode is used to allow full signal circuit supervision and polarized connections are made to terminals that accept up to 12 AWG wire.

The strobe front plate is of steel construction finished with durable baked epoxy polyester powder-coat paint.

Features and Specifications

- Xenon light source
- Flash rate 60 fpm
- Suitable for use in indoor and outdoor applications
- UL 1971-listed as signaling devices for the hearing impaired and UL 1638-listed as protective visual signaling appliances.
- Genesis-compatible
- Red steel front plate with epoxy polyester powder-coat paint
- Rated for wall or ceiling installation
- Field changeable markings
- Fits 4-inch square flush box
- Operating temperature range: -40°F to 150°F (-40°C to 66°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current[2]	Candela Rating	Color
Strobes	**CS405-7A-T**	24V	0.150 A DC, 0.392 A fwr	15/75[3]	Red
	CS405-8A-T	24V	0.210 A DC, 0.420 A fwr	110	Red

[1]Regulated 16V to 33V DC/fwr.
[2]Current values are UL, RMS ratings.
[3]15cd per UL1971, 75cd per UL1638.

Accessories

Description	Cat. No.
Gray Surface Mount Outdoor Box[4]	**449**
Synchronization Module	**EG1M-RM**

[4]Required for outdoor mounting

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Height (in.)	Length (in.)	Depth (in.)
CS405-7A-T	1.0	5.5	5.5	1.875
CS405-8A-T	1.0	5.5	5.5	1.875
449	1.2	4.5	4.5	2.25

DC
150°F -40°F OP TEMP
XENON
FM APPROVED
MEA CE

Conventional and Addressable Accessories
Chimes and Strobes
Genesis Series

The Genesis line of chimes and strobes are audible-visible emergency signaling devices. Protruding no more than one inch from the wall, Genesis chimes and chime-strobes feature textured housings in white or red. Genesis strobes are designed to channel and condition light to produce a highly controllable distribution pattern.

Chime-strobes feature selectable candela output with a switch located on the bottom of the device. The candela setting is visible even after the device is installed.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1-M and EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

Genesis Series chimes 60 strokes per minute when steady voltage is applied, or may be field-configured for temporal output. When installed with a EG1M Signal Master Module, the chime may also be field-configured for coded operation. Chimes may be set for low dB output with a jumper cut that reduces sound output.

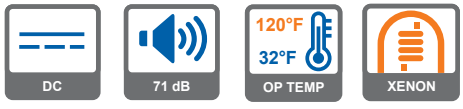
Features and Specifications

- Xenon light source
- Clear lens
- White or red housing
- Low profile design
- Field selectable candela output via switch
- 81dB @ 1m/71dB @ 10ft. output
- Fits standard single gang electrical boxes – no extension ring or trim plate required
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current Low dB[2]	Current High dB[2]	Candela Rating	dB at 1m/10ft.[3]	Marking	Color
Chime-Strobe	**EG1-CVM**	24V DC	0.088 A, 0.123 A, 0.222 A, 0.266 A	0.099 A, 0.134 A, 0.233 A, 0.277 A	Selectable: 15, 30, 75, 95	70.8/60.8 - high; 65.6/55.6 - low	None	White
		24Vfwr	0.134 A, 0.175 A, 0.318 A, 0.363 A	0.154 A, 0.195 A, 0.338 A, 0.383 A				
	EG1R-CVM	24V DC	0.088 A, 0.123 A, 0.222 A, 0.266 A	0.099 A, 0.134 A, 0.233 A, 0.277 A	Selectable: 15, 30, 75, 95	70.8/60.8 - high; 65.6/55.6 - low	None	Red
		24Vfwr	0.134 A, 0.175 A, 0.318 A, 0.363 A	0.154 A, 0.195 A, 0.338 A, 0.383 A				
	EG1F-CVM	24V DC	0.088 A, 0.123 A, 0.222 A, 0.266 A	0.099 A, 0.134 A, 0.233 A, 0.277 A	Selectable: 15, 30, 75, 95	70.8/60.8 - high; 65.6/55.6 - low	FIRE	White
		24Vfwr	0.134 A, 0.175 A, 0.318 A, 0.363 A	0.154 A, 0.195 A, 0.338 A, 0.383 A				
	EG1RF-CVM	24V DC	0.088 A, 0.123 A, 0.222 A, 0.266 A	0.099 A, 0.134 A, 0.233 A, 0.277 A	Selectable: 15, 30, 75, 95	70.8/60.8 - high; 65.6/55.6 - low	FIRE	Red
		24Vfwr	0.134 A, 0.175 A, 0.318 A, 0.363 A	0.154 A, 0.195 A, 0.338 A, 0.383 A				
Chime	**EG1-C**	24V DC	0.026 A	0.043 A	—	70.8/60.8 - high; 65.6/55.6 - low	None	White
		24Vfwr	0.049 A	0.076 A				
	EG1R-C	24V DC	0.026 A	0.043 A	—	70.8/60.8 - high; 65.6/55.6 - low	None	Red
		24Vfwr	0.049 A	0.076 A				
	EG1F-C	24V DC	0.026 A	0.043 A	—	70.8/60.8 - high; 65.6/55.6 - low	FIRE	White
		24Vfwr	0.049 A	0.076 A				
	EG1RF-C	24V DC	0.026 A	0.043 A	—	70.8/60.8 - high; 65.6/55.6 - low	FIRE	Red
		24Vfwr	0.049 A	0.076 A				

[1]Regulated 16V to 33V DC/fwr.
[2]Current values are UL, RMS ratings
[3]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.



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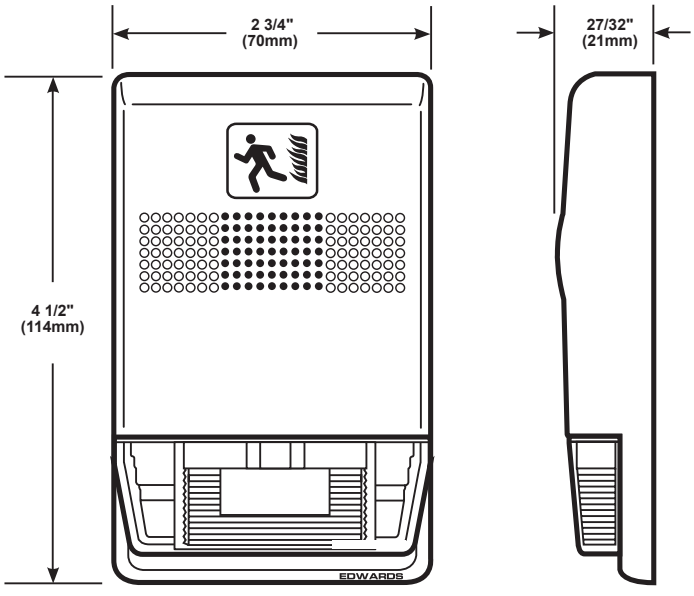
Conventional and Addressable Accessories
Chimes and Strobes
Genesis Series

Accessories

Description	Cat. No.	Color
Genesis Trim Plate (for two-gang or 4" square boxes)	**EG1T**	White
Genesis Trim Plate (for two-gang or 4" square boxes)	**EG1RT**	Red
Genesis Trim Plate (for two-gang or 4" square boxes)	**EG1T-FIRE**	White
Genesis Trim Plate (for two-gang or 4" square boxes)	**EG1RT-FIRE**	Red
One-gang surface mount box	**27193-16**	White
One-gang surface mount box	**27193-11**	Red
Synchronization Module	**EG1M**	
Synchronization Module	**EG1M-RM**	

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
EG1-CVM	0.5
EG1R-CVM	0.5
EG1F-C	0.5
EG1RF-C	0.5
EG1-C	0.5
EG1R-C	0.5
EG1T	0.5
EG1RT	0.5
EG1T-FIRE	0.5
EG1RT-FIRE	0.5
27193-16	0.5
27193-11	0.5



Conventional and Addressable Accessories
Bells
430D Series

Edwards 430D Series fire alarm bells are diode polarized, vibrating bells for use with fire alarm equipment. They operate in conjunction with an installed fire alarm panel and detection devices. The steel alloy gongs are red epoxy powder finish and produce a loud, resonant tone required in fire alarm systems.

Features and Specifications

- 6", 8" and 10" gong sizes
- Heavy duty die cast housing
- Steel alloy gong with red epoxy powder coating
- Back box available for use in outdoor applications
- Under dome mechanism
- Available in red

Ordering Information

Description	Cat. No.	Operating Voltage	Gong Size	Amps	dB at 1m/10ft.[1]	Lead Length
AC	**438D-6N5-R**	120V AC	6" (152mm)	0.034 A	95/85	10" (25mm)
	438D-8N5-R	120V AC	8" (203mm)	0.034 A	95/85	10" (25mm)
	438D-10N5-R	120V AC	10" (254mm)	0.034 A	98/88	10" (25mm)
DC	**439D-6AW-R**	24V DC	6" (152mm)	0.085 A	92/82	10" (25mm)
	439D-8AW-R	24V DC	8" (203mm)	0.085 A	92/82	10" (25mm)
	439D-10AW-R	24V DC	10" (254mm)	0.085 A	95/85	10" (25mm)

[1]Anechoic Chamber

Accessories

Description	Cat. No.
Outdoor rated back box	**449**

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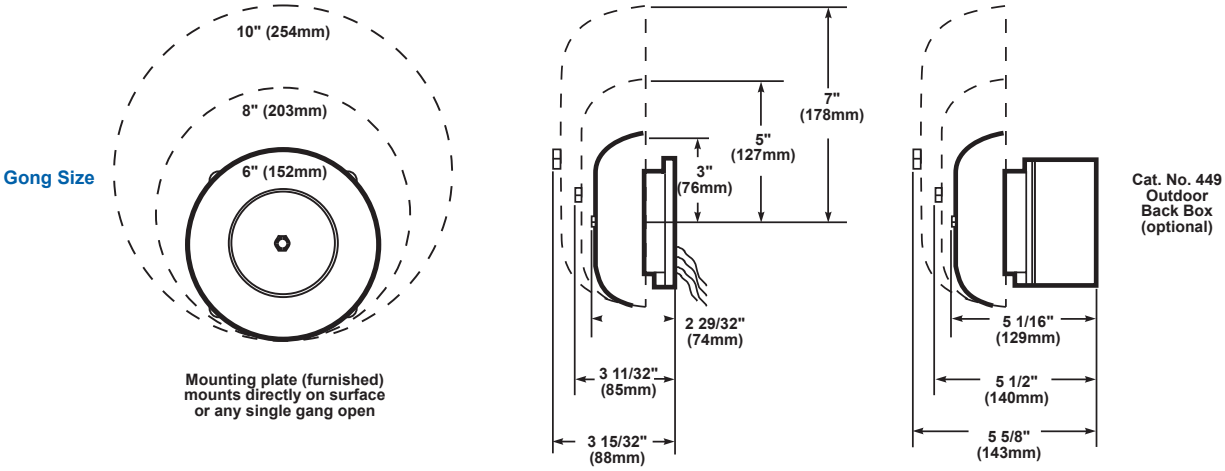
Conventional and Addressable Accessories
Bells
430D Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
438D-6N5-R	2.90
438D-8N5-R	4.76
438D-10N5-R	6.20
439D-6AW-R	2.90
439D-8AW-R	4.76
439D-10AW-R	6.20



Conventional and Addressable Accessories
Bell Strobe Adaptors
2400 Series

The Edwards 2400 Series Bell/Strobe Adaptor Plate contains a 30, 15/75, or 110 candela strobe. The unit is specifically designed for use with the 439D-AW-R series of 6" (152mm), 8" (203mm) and 10" (254mm) red fire alarm bells (ordered separately).

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies. Wire leads are provided for easy installation of the strobe. The units are suitable for indoor use. The strobes require a continuous (non-pulsed) DC source.

The 2400 Series is designed for indoor wall mounting on a variety of standard, flush mounted, North-American electrical boxes.

Features and Specifications

- Available in red
- Clear Lexan lens (strobe)
- Low current draw synchronous strobe
- 60 flashes per minute (fpm)
- Marked "FIRE" on both sides
- Strobe: UL 1971 Listed for the Hearing Impaired; UL 1638
- Meets NFPA and ADA requirements
- Operating temperature range: 32ºF to 120ºF (0°C to 49°C)

Ordering Information

Description	Cat. No.	Strobe Operating Voltage[1]	Candela Rating	Current
Bell Strobe Adapters	**2453BSA-15/75-R**	24V (Continuous)	15/75 cd Wall	0.150 A DC, 0.210 A fwr

[1]Regulated 16V to 33V DC/fwr.

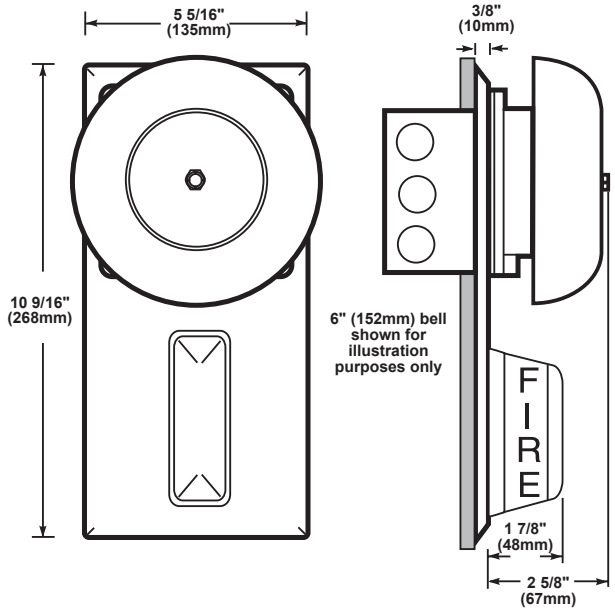
Accessories

Description	Cat. No.
Synchronization Module	**EG1M-RM**

Conventional and Addressable Accessories
Bell Strobe Adaptors
2400 Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
2453BSA-15/75-R	1.6



Conventional and Addressable Accessories
Hazardous Location Signals
870EX Series

The Edwards 870EX Series are diode polarized, heavy-duty, high decibel, vibrating horn signals. They are intended for use in indoor hazardous locations requiring electrical supervision of signaling circuit field wiring, including fire alarm systems. May also be used for unsupervised signaling applications.

Two mounting brackets are provided on either side of the unit for wall mounting.

Features and Specifications

- Diode polarized
- Red corrosion resistant heat flowed epoxy finish
- Low current drain
- Wide operating voltage range -20% to +10% of nominal voltage
- Power connection wires embedded in sealing compound
- UL listed for Class 1, Div. 1 and 2, Groups B, C and D; Class II, Div. 1 and 2, Groups E, F and G; Class III locations
- Operating temperature range: 25ºF to 104ºF (4ºC to 40ºC)

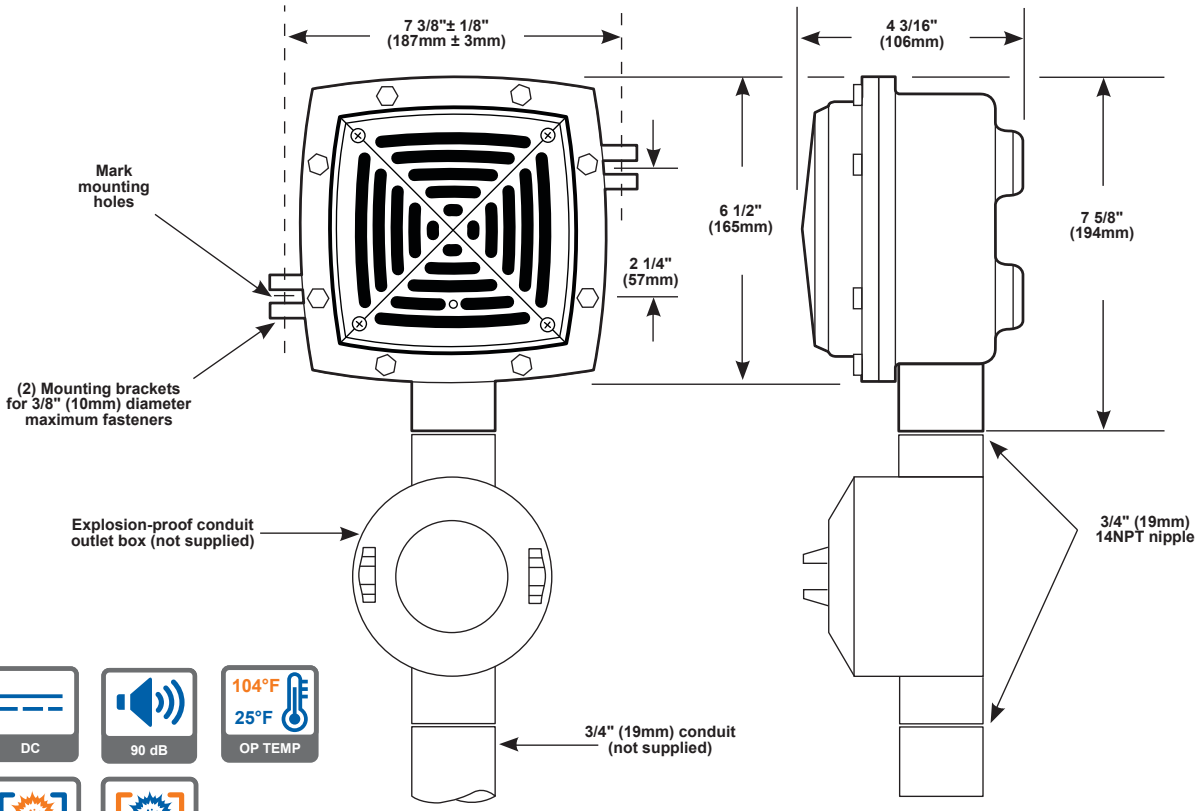
Ordering Information

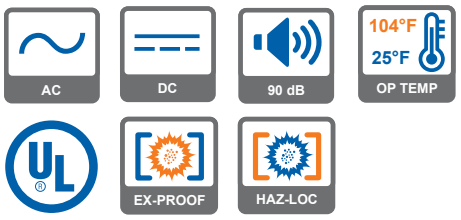
Description	Cat. No.	Operating Voltage	Amps	VA	Average dB at 1m/10ft.[1]	DC Coil Res (Ohms)
Hazardous Location, Horn Diode Polarized	**888D-N5**	120V AC	0.165	15.6	100/90	150.0
	889D-AW	20-24V DC	0.16	3.8	94/84	20.0

[1]10ft. dB measurements per UL 464 in a reverberant room. Anechoic dB measurements are typically higher.

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
888D-N5	11.0
889D-AW	11.0





Conventional and Addressable Accessories
Hazardous Location Signals
Millennium Class

The Edwards 5553 Series Speakers are UL Listed, Class 1, Div. 2 hazardous location audible signaling appliances for use in conjunction with compatible control equipment. They produce audible emergency and protective signals as well as voice messages. They accept system audio input levels of 25 or 70 volts RMS.

The Edwards 5553 Series comply with the requirements of UL Standard 1480, Fire Protective Signaling Speakers. The speakers are suitable for outdoor use with a UL1480 wet locations rated enclosure. They include a supervisory capacitor and are suitable for installation in systems employing supervised circuitry.

Speaker direction is adjustable and the output wattage is adjustable via an internal rotary switch.

Features and Specifications

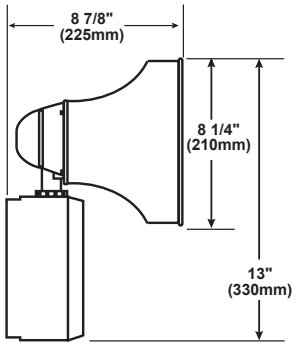
- Suitable for use in outdoor and hazardous locations
- Speaker swivels
- Adjustable up to 15 watts maximum
- 113 dB at 1 meter/103 dB at 10 ft.
- Frequency range 400Hz to 4000Hz
- UL listed for Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III, Div. 1 and 2
- Operating temperature range: -40ºF to 104ºF (-40ºC to 40ºC)

Ordering Information

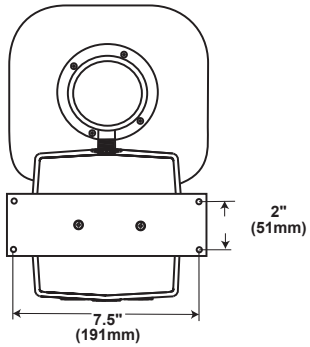
Description	Cat. No.	dB at 1m/10ft.	Color
Hazardous Location Speakers	**5553-25/70-G**	113/103	Gray
	5553-25/70-R	113/103	Red

Weights and Dimensions

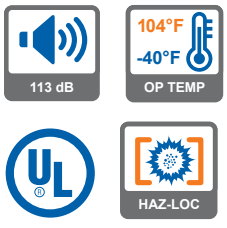
Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
5553-25/70-G	4.20	9.00
5553-25/70-R	4.20	9.00



Side



Back



Conventional and Addressable Accessories
Hazardous Location Signals
439DEX Series

Edwards 439DEX Series hazardous location fire alarm bells are DC vibrating bells that produce a long, continuous ringing sound. The striker continues to strike the gong in rapid-fire as long as current is applied. Diode polarized models are available for use in electrically supervised circuits.

Features and Specifications

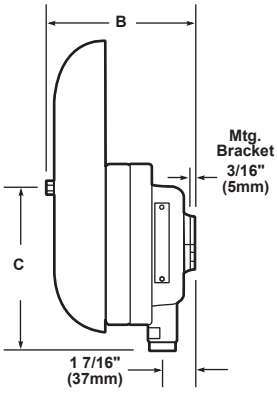
- 6", 8" and 10" gong sizes
- Completely assembled
- Suitable for use in indoor applications
- Corrosion resistant gray epoxy finish
- Mounts directly on any solid surface
- Low power draw for efficient operation over long runs
- Adjustment free self-compensating solenoid plunger
- Wire leads and sealing fitting for connection to 3/4" conduit
- UL listed for Class I, Divisions 1 and 2, Groups B, C and D; Class II, Divisions 1 and 2, Groups E, F and G; Class III

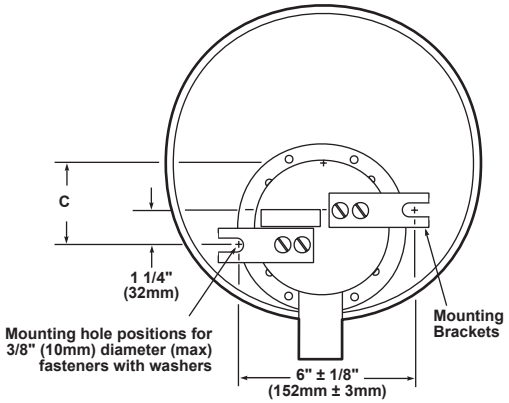
Ordering Information

Description	Cat. No.	Operating Voltage	Amps	Gong Size	Color	dB at 1m/10ft.
DC Fire Alarm	**439DEX-6AW**	20-24V DC	0.240 A	6" (152mm)	Gray	93/83
	439DEX-6AW-R	20-24V DC	0.240 A	6" (152mm)	Red	93/83
	439DEX-8AW	20-24V DC	0.240 A	8" (203mm)	Gray	96/86
	439DEX-8AW-R	20-24V DC	0.240 A	8" (203mm)	Red	96/86
	439DEX-10AW	20-24V DC	0.240 A	10" (254mm)	Gray	99/89
	439DEX-10AW-R	20-24V DC	0.240 A	10" (254mm)	Red	99/89

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Gong Size	Dimensions A	Dimensions B	Dimensions C
439DEX-6AW	7.2	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
439DEX-6AW-R	7.2	6" (152mm)	4 1/16" (103mm)	4 13/16" (122mm)	5/8" (16mm)
439DEX-8AW	12.0	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
439DEX-8AW-R	12.0	8" (203mm)	5 1/16" (129mm)	5 1/4" (133mm)	1 5/8" (41mm)
439DEX-10AW	11.1	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)
439DEX-10AW-R	11.1	10" (254mm)	6 1/16" (154mm)	5 3/8" (137mm)	2 5/8" (67mm)





Mounts to any solid surface using 3/8" (10mm) fasteners. Units fitted with a sealing fitting for 3/4" (19mm) conduit and wire leads for power connections.

DC
83-89 dB
EX-PROOF
HAZ-LOC

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional and Addressable Accessories
Hazardous Location Signals
116 Series

NOTE: Mounting options not included. (Ordered separately)

Edwards 116 Series Genesis fire alarm strobe is designed for use in Class 1, Division 1 and 2 explosionproof and hazardous location applications where electrical supervision is required. The diode-polarized strobe is intended for indoor use in UL 1971 listed compatible fire alarm systems and is ADA compliant for the hearing impaired.

116 Series Genesis strobe provides 125 cd ceiling and 60 cd wall light output. With the guard installed, the strobe flashes with an output of 86 cd ceiling and 51 cd wall.

These units are UL 1638 and cUL listed for outdoor use as a NEMA Type 3R and 4X enclosure; and Canada (cUL) to Canadian standard ULC-S526-07 suitable for indoor or outdoor applications.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

Features and Specifications

- Clear globe with dome guard
- Three mounting options: wall, ceiling, or pendant
- Negligible in-rush current
- Approved for fire alarm applications
- NEMA Type 3R and 4X enclosures
- 60 flashes per minute (fpm)
- Can be synchronized when connected to a compatible Edwards control panel, booster power supply or synchronization module
- UL 1638, UL 1971 and cUL Listed
- Class I, Div. 2, Groups A and B; Class I, Div. 1 and 2, Groups C and D; Class II, Div. 1, Groups E, F, G and Class III; Class II, Div. 2, Groups F, G and Class III.

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current	Lens Color	Flash Rate	Replacement	
						Dome	Guard
Explosion proof Fire Alarm Strobe	**116DEGEX-FJ**	24V DC	0.505 A, DC, RMS 0.683 A, FWR, RMS	Clear	60 fpm	116-Globe	116-GRD

[1]Regulated 16 to 33V DC/fwr.

Accessories[2]

Description	Cat. No.	Conduit Size
Wall Bracket Mounting Elbow	**116EX-B**[3]	N/A
Ceiling/Wall Mounting Module	**116EX-C**	3/4" NPT
Pendant Mounting Module	**116EX-P**	3/4" NPT
Synchronization Module	**EG1M-RM**	—

[2]Mounting Modules must be ordered separately
[3]NOTE: Wall mount requires both 116EX-B and 116EX-C.

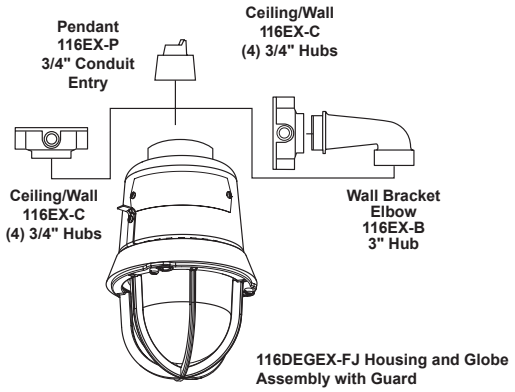
DC XENON HAZ-LOC EX-PROOF

Conventional and Addressable Accessories
Hazardous Location Signals
116 Series

Hazardous Location Ratings

	Operating Temperature					
	Ambient Temp.	Supply Wire Temp. Marking	Class I, Div. 2 Groups A, B	Class I, Div. 1 & 2 Groups C, D	Class II, Div. 1 Groups E, F, G, & Class III	Class II, Div. 2 Groups F, G, & Class III
116 Series	40°C	75°C	T2B (260°C)	T6 (85°C)	T4A (120°C)	T4A (120°C)
	55°C	90°C	T2B (260°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)
	65°C	105°C	T2B (260°C)	T6 (85°C)	T3C (160°C)	T3C (160°C)

Mounting Options

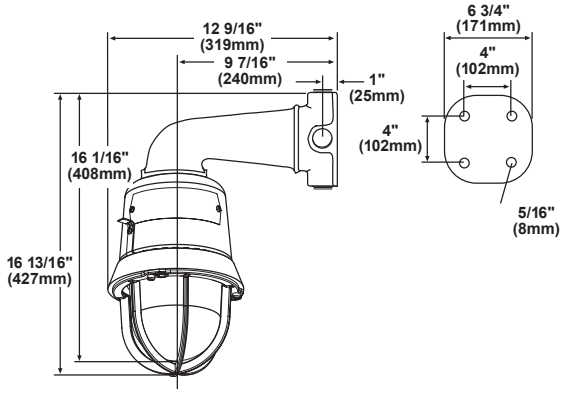


Note: 116EX-C must be used when application requires 116EX-B

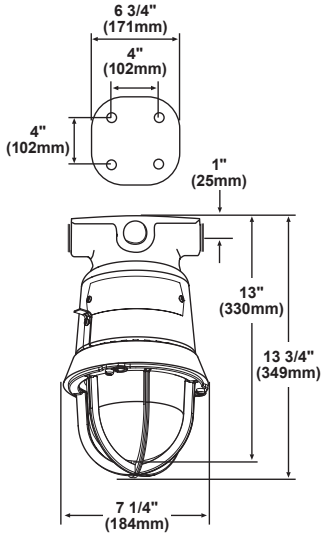
Weights and Dimensions

Cat. No.	Shipping Weight (lb.)
116DEGEX-FJ	12.44
116EX-B*	2.30
116EX-C	2.80
116EX-P	1.25

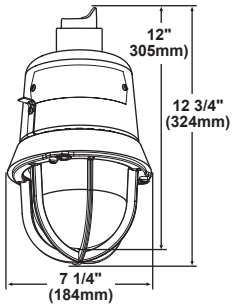
Wall Mount
116EX-B



Ceiling Mount
116EX-C



Pendant Mount
116EX-P



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional and Addressable Accessories
Hazardous Location Signals
105 Series

Edwards 105 Series Xenon strobe beacons are heavy-duty visual signals suitable for use in indoor and outdoor applications where a corrosion resistant Type 4X enclosure is required. Base material is gray, manufactured from glass-reinforced thermoplastic polyester resin and features brass hardware. The double fresnel lens is made of shatter-resistant polycarbonate.

The 105DHISTC-FJ high intensity strobe is designed for use in compatible fire alarm system and other applications requiring electrical supervision of signaling circuit field wiring.

Features and Specifications

- Xenon strobe light source
- Shatter-resistant double fresnel polycarbonate lens
- Gray base with brass hardware
- Flash rate 65 fpm
- Suitable for indoor, outdoor and marine applications
- For outdoor applications, lens should face up
- Option for panel, conduit or wall mounting
- NEMA Type 4X enclosure
- Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Lens Colors	Peak Candlepower	Lamp Ratings[1]	Replacement Lamp
Fire Alarm (UL 1971) 8 Joule Strobe	**105DHISTC-FJ**	20-30V DC	1.08 - 0.83 A	Clear	26 cd wall (dome out) 24 cd wall (dome down) 26 cd ceiling	3,000 hours	92-ST

[1]Strobe tube life at operating power to 75% efficiency.

Accessories[2]

Description	Cat. No.
Wall Mount Bracket	**105BM**[3]
Outlet Box Attachment	**105BX**
Pipe Mount Attachment	**105PM**

[2]Mounting accessories must be ordered separately.
[3]Must be used with 105BX.

Wall Mount Bracket

Outlet Box Attachment

Pipe Mount Attachment

Hazardous Location Ratings

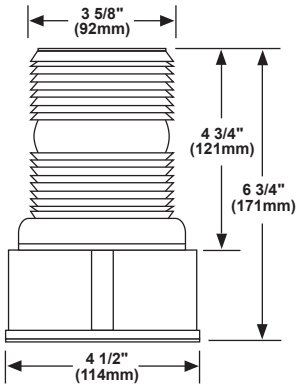
	Class	Division	Group	Operating Temperature
105DHISTC-FJ	II	2	F, G	TB3 (165°C, 329°F)

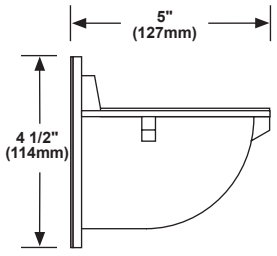
Conventional and Addressable Accessories
Hazardous Location Signals
105 Series

Weights and Dimensions

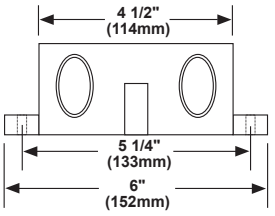
Cat. No.	Approx. Shipping Weight (lb.)
105DHISTC-FJ	1.63
105BM	1.00
105BX	1.00
105PM	1.00

Cat. No's.
105DHIST

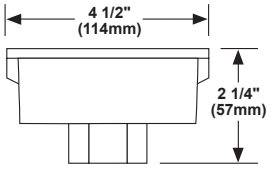




Cat. No. 105BM Mounting Bracket
(use with 105BX)



Cat. No. 105BX
Outlet Box Attachment



Cat. No. 105PM
Pipe Mount Attachment
(3/4" NPT Conduit Size)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Conventional and Addressable Accessories
Door Holders
1500 Series

The Edwards 1500 Series electromagnetic door holders feature housings finished with durable baked polyester powder paint. The floor or wall section houses the electromagnet while the contact plate attaches to the door. The contact plate has a shock absorbing nylon (swivel) ball that allows the plate to adjust to any door angle. Floor units are available in single-door or double-door (back to back) versions. Wall units are available in flush or surface mounted versions.

If power fails, doors are released automatically but may be opened or closed manually at any time. All units are free of moving parts, are self-contained and require no maintenance.

The device holders hold a door open while energized. When de-energized by a relay controlled by the fire alarm system or other switch, the door is released to a closed position.

Features and Specifications

- Floor and wall mounted styles
- Baked polyester powder paint finish
- Low power consumption
- Silent operation
- 25 Lbf (111N) nominal holding force
- Adjustable, swivel contact plate
- Single-door or double-door (back to back) versions – floor mounted
- Flush or surface mounted versions – wall mounted
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current
Floor Mounted (Single Door)	**1501-AQN5**	24V AC; 24V DC/120V AC	0.015 A
Floor Mounted (Double Door)	**1502-AQN5**	24V AC; 24V DC/120V AC	0.015 A[2]
Flush Wall Mounted (Long Catch Plate)	**1504-AQN5**	24V AC; 24V DC/120V AC	0.015 A
Flush Wall Mounted (Short Catch Plate)	**1505-AQN5**	24V AC; 24V DC/120V AC	0.015 A
Surface Wall Mounted	**1508-AQN5**	24V AC; 24V DC/120V AC	0.015 A
Completely Flush Wall Mounted	**1509-AQN5**	24V AC; 24V DC/120V AC	0.015 A

[1]AC voltage frequency is 60 Hz
[2]Draws 0.015 A per side

Accessories

Description	Cat. No.
Catch plate extension assembly, 1.5”	**1500-1**
Catch plate extension assembly, 2.5”	**1500-2**
Catch plate extension assembly (5.25 to 7.5 inches)	**1500-7**
Catch plate extension assembly (7.5 to 12 inches)	**1500-12**
Replacement armature - short (for use with 1501, 1502, 1505, 1508 and 1509 door holders)	**CS2595-5**
Replacement armature - long (for use with 1504 door holder)	**CS2598-5**

AC/DC
120°F 32°F OP TEMP
LISTED
FM APPROVED
MEA

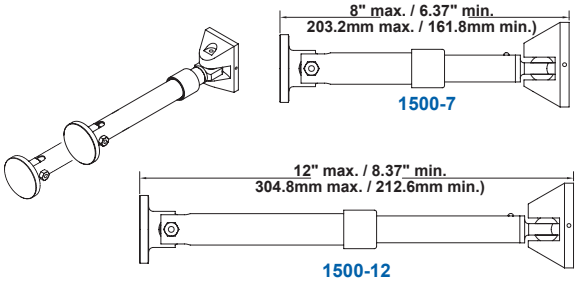
Conventional and Addressable Accessories
Door Holders
1500 Series

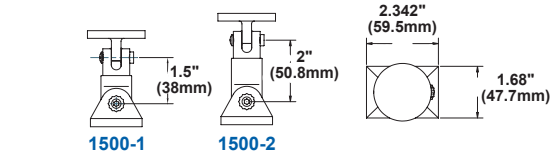
Weights and Dimensions

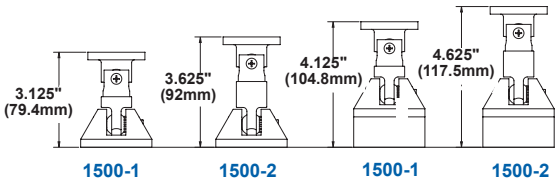
Cat. No.	Approx. Shipping Weight (lb.)
1501-AQN5	5.40
1502-AQN5	5.00
1504-AQN5	2.00
1505-AQN5	2.00
1508-AQN5	3.00
1509-AQN5	2.00
1500-1	0.25
1500-2	0.25
1500-7	0.50
1500-12	1.00
CS2595-5	0.25
CS2598-5	0.25

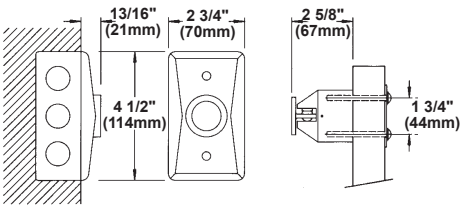
Catch Plate Extensions

NOTE: Only the extension rods are included. The end pieces are included with the doorholders or can be ordered separately.

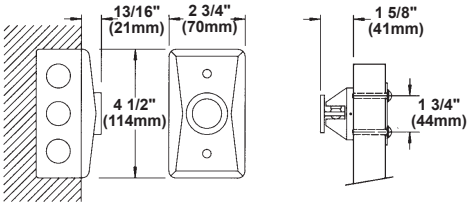




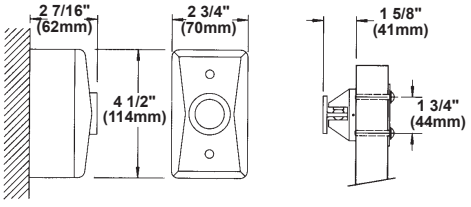




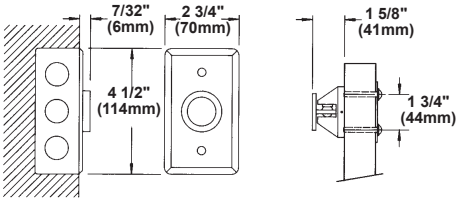
1504-AQN5 Flush Wall Mounted (Long Catch Plate)



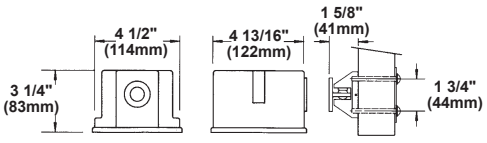
1505-AQN5 Flush Wall Mounted (Short Catch Plate)



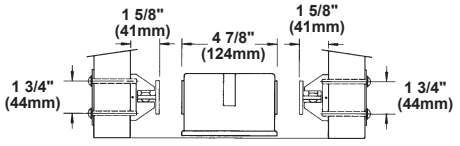
1508-AQN5 Surface Wall Mounted



1509-AQN5 Completely Flush Wall Mounted



1501-AQN5 Floor Mounted (Single Door)



1502-AQN5 Floor Mounted (Double Door)

Conventional and Addressable Accessories
Relays
MR Series

MR101/C

MR104T

The MR Series Multi-Voltage Control Relays offer SPDT or DPDT 10 Amp contacts that may be operated by one of four input control voltages. A single relay may be energized from a voltage source of 24V DC, 24V AC, 115V AC or 230V AC by wiring to appropriate input terminals.

Each relay position contains a red light emitting diode (LED) that indicates the relay coil is energized. Relays may be "snapped apart" from a standard four-module assembly and used independently.

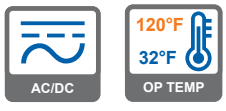
These devices are suitable for applications where local contacts are required for system status and remote contacts for control of electrical loads and general purpose switching, such as HVAC, temperature control, fire alarm, security, energy management and lighting control systems.

Features and Specifications

- May be energized from one of four input voltages
- Contains red LED which illuminates when the coil is energized
- Single, or quad relay modules may be "snapped apart" from a standard four-position master
- SPDT or DPDT relays available
- Available in dustproof metal enclosures with LED viewing port
- Track mounting hardware to facilitate installation in standard cabinets
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Contacts	Contact Rating	Mounting
Single-position Relays	**MR101/T**	24V AC, 24V DC, 115V AC, 230V AC	0.015 A	SPDT	10 A @ 115V AC	Track
	MR101/C	24V AC, 24V DC, 115V AC, 230V AC	0.015 A	SPDT	10 A @ 115V AC	Metal Enclosure
	MR201/T	24V AC, 24V DC, 115V AC, 230V AC	0.035 A	DPDT	10 A @ 115V AC	Track
	MR201/C	24V AC, 24V DC, 115V AC, 230V AC	0.035 A	DPDT	10 A @ 115V AC	Metal Enclosure
Four-position Relays	**MR104T**	24V AC, 24V DC, 115V AC, 230V AC	0.015 A	SPDT	10 A @ 115V AC	Track
	MR104C	24V AC, 24V DC, 115V AC, 230V AC	0.015 A	SPDT	10 A @ 115V AC	Metal Enclosure
	MR204/T	24V AC, 24V DC, 115V AC, 230V AC	0.035 A	DPDT	10 A @ 115V AC	Track
	MR204/C	24V AC, 24V DC, 115V AC, 230V AC	0.035 A	DPDT	10 A @ 115V AC	Metal Enclosure



Conventional and Addressable Accessories
Relays
MR Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Height (in.)	Width (in.)	Depth (in.)
MR101/T	0.25	3.0	2.125	1.5
MR101/C	1.00	6.125	3.25	2.5
MR201/T	0.25	3.0	2.125	1.5
MR201/C	1.00	6.125	3.25	2.5
MR104T	1.00	3.0	8.5	1.5
MR104C	4.00	6.125	9.5	2.5
MR204/T	1.00	3.0	8.5	1.5
MR204/C	4.00	6.125	9.5	2.5

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Conventional and Addressable Accessories
Relays
MR Series

The Edwards MR-199 Heavy Duty Power Relays are designed for control applications where 30 Amp DPDT contacts are required. Two models are available; 115V AC coil and 24V DC coil, each of which may be mounted in a rugged steel enclosure.

Features and Specifications

- Heavy duty 30 Amp DPDT contacts
- 24V DC or 120V AC models available
- Sturdy metal enclosure
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Contacts	Contact Rating	Includes Enclosure
Heavy Duty Power Relays	**MR199X13**	24V DC	0.085 A	DPDT	30 A @ 300V AC	No
	MR199X13/C	24V DC	0.085 A	DPDT	30 A @ 300V AC	Yes
	MR199AX14	120V AC	0.085 A	DPDT	30 A @ 300V AC	No
	MR199AX14/C	120V AC	0.085 A	DPDT	30 A @ 300V AC	Yes

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Height (in.)	Width (in.)	Depth (in.)
MR199X13	0.8	3.13 (79.4mm)	2.5 (63.5mm)	2.31 (58.7mm)
MR199X13/C	0.9	5.31 (134.9mm)	3.38 (85.9mm)	3.13 (96.8mm)
MR199AX14	0.8	3.13 (79.4mm)	2.5 (63.5mm)	2.31 (58.7mm)
MR199AX14/C	0.9	5.31 (134.9mm)	3.38 (85.9mm)	3.13 (96.8mm)

Conventional and Addressable Accessories
Relays
PAM Series

The PAM1 Relay is an encapsulated multi-voltage device providing 10 Amp Form C contacts. The relay may be energized by one of three input voltages: 24V AC, 24V DC, or 115V AC. A red light emitting diode (LED) that indicates the relay coil is energized.

The PAM1 may be mounted by using the double-sided adhesive tape, the self-drilling screw, or loosely placed in a back box.

The PAM1 is suitable for applications where remote relays are required for control or status feedback, such as HVAC, temperature control, fire alarm, security, energy management and lighting control systems.

Features and Specifications

- Completely encapsulated 10 Amp relay
- Relay may be energized by one of three input voltages
- Red LED illuminates when relay coil is energized
- May be mounted by double-sided adhesive tape, self-drilling screw or placed in back box
- 6 in (150mm) wire leads for electrical connections
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Operating Voltage	Current	Contacts	Contact Rating
Control Relay	**PAM1**	24V AC, 24V DC, 115V AC	0.015 A	SPDT	10 A @ 115V AC

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions[1] Height (in.)	Width (in.)	Depth (in.)
PAM1	0.8	1.5 (38.1mm)	1 (24.5mm)	0.875 (22.2mm)

[1]With 6" (150mm) wire leads, 18 AWG (1.00mm^2)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Audio Evacuation
Amplifiers
ANS Series

The Edwards ANS Series of products are audio notification systems that provide voice evacuation capability that meet the Emergency Voice Alarm requirements of NFPA 72 for UL listed fire alarm applications. ANS panels include an amplifier, tone generator, digital message repeater (DMR), and supervisory interface.

The ANS Series products are self-contained systems with field-configurable features. A range of accessory equipment provides application for new and retrofit installations.

ANS systems are designed for use with Edwards E-FSC and E-FSA fire alarm control panels when emergency voice alarm service is required. All ANS systems are compatible with Edwards Genesis® line of field-configurable speakers and speaker-strobes.

Features and Specifications

- Meets NFPA 72 Emergency Voice Alarm requirements
- Dead-front construction
- Integrated digital message repeater
- Four-minute message capacity
- 25, 50, or 100 Watt models
- Field selectable for either 25 or 70 Vrms speakers
- 120V AC power supply and battery charger included
- Paging microphone overrides message and tone
- Built-in alarm and alert signals
- Compatible with E-FSC and E-FSA control panels
- 24 hour backup with two 12V, 7 AH batteries
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Speaker Voltage	Output Power	Frequency Response	Color
Amplifier - includes cabinet, door, amplifier, microphone and digital message repeater	**ANS25MDG**	120V AC	25 or 70V RMS	25 W	800 - 2800 Hz	Gray
	ANS25MDR	120V AC	25 or 70V RMS	25 W	800 - 2800 Hz	Red
	ANS50MDG	120V AC	25 or 70V RMS	50 W	400 - 4000 Hz	Gray
	ANS50MDR	120V AC	25 or 70V RMS	50 W	400 - 4000 Hz	Red
	ANS100MDG	120V AC	25 or 70V RMS	100 W	400 - 4000 Hz	Gray
	ANS100MDR	120V AC	25 or 70V RMS	100 W	400 - 4000 Hz	Red

[1]AC voltage frequency is 60 Hz.

Accessories

Description	Cat. No.	Color
Audio Expander Panels[2]:		
25 Watt	**ANS25XG**	Gray
25 Watt	**ANS25XR**	Red
50 Watt	**ANS50XG**	Gray
50 Watt	**ANS50XR**	Red
100 Watt	**ANS100XG**	Gray
100 Watt	**ANS100XR**	Red

[2]Includes cabinet, door and amplifier.

Audio Evacuation
Amplifiers
ANS Series

Accessories (Continued)		
Description	**Cat. No.**	**Color**
Zone Splitters:		
4 Class B circuits with zone selection switches and All-Call switch	**ANSZS4B**	
2 Class A circuits with zone selection switches and All-Call switch	**ANSZS2A**	
Class A Converter	**ANSZSC4A**	
Zone Adapter, 1 circuit to 2 circuits	**ANSZC2B**	
Remote Microphones:		
Requires ANSREMSUP card in ANS panel; supervised	**ANSREMG**	Gray
Requires ANSREMSUP card in ANS panel; supervised	**ANSREMR**	Red
Supervisory card, one per system. Supervises up to 5 remote microphones	**ANSREMSUP**	
Relay card for supervision/zone splitter to remote microphone	**ANSZSR**	
Microphone	**ANSMIKE**	
Backup amplifier switching module	**ANSBKUP**	
Audio Matching - line input/output card	**ANSAUX**	
Eight-input remote serial interface module. Message recording included.	**ANSRSI8**	
Modules & Transformers:		
25 Watt expander module	**ANS25A**	
25 Watt expander module with microphone	**ANS25AM**	
25 Watt audio notification module with DMR and microphone	**ANS25AMD**	
50 Watt expander module	**ANS50A**	
50 Watt expander module with microphone	**ANS50AM**	
50 Watt audio notification module with DMR and microphone	**ANS50AMD**	
100 Watt expander module	**ANS100A**	
100 Watt expander module with microphone	**ANS100AM**	
100 Watt audio notification module with DMR and microphone	**ANS100AMD**	
Power transformer, open frame, 28V AC @ 100 VA. (ANS25)	**ANST2885**	
Power transformer, open frame, 28V AC @ 180 VA. (ANS50/ANS100)	**ANST28180**	
Custom Messages:		
Alternate prerecorded DMR message PROM from library	**ANSMDRALT**	
Custom recorded message PROM	**ANSDMRCUSTOM**	

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Audio Evacuation
Amplifiers
ANS Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Rough-In Dimensions			Finished Door Dimensions	
		Width (in.)	Height (in.)	Depth (in.)	Width (in.)	Height (in.)
ANS25MDG	29	14.5	18	4	16.25	19.5
ANS25MDR	29	14.5	18	4	16.25	19.5
ANS50MDG	32	14.5	18	4	16.25	19.5
ANS50MDR	32	14.5	18	4	16.25	19.5
ANS100MDG	32	14.5	18	4	16.25	19.5
ANS100MDR	32	14.5	18	4	16.25	19.5
ANS25XG	29	14.5	18	4	16.25	19.5
ANS25XR	29	14.5	18	4	16.25	19.5
ANS50XG	32	14.5	18	4	16.25	19.5
ANS50XR	32	14.5	18	4	16.25	19.5
ANS100XG	32	14.5	18	4	16.25	19.5
ANS100XR	32	14.5	18	4	16.25	19.5
ANSZS4B	1	—	—	—	—	—
ANSZS2A	1	—	—	—	—	—
ANSZSC4A	1	—	—	—	—	—
ANSZC2B	1	—	—	—	—	—
ANSREMG	8	8	10	2.75	9.75	11.25
ANSREMR	8	8	10	2.75	9.75	11.25
ANSREMSUP	1	—	—	—	—	—
ANSZSR	1	—	—	—	—	—
ANSMIKE	1	—	—	—	—	—
ANSBKUP	1	—	—	—	—	—
ANSAUX	1	—	—	—	—	—
ANSRSI8	1	—	—	—	—	—
ANS25A	5	—	—	—	—	—
ANS25AM	5	—	—	—	—	—
ANS25AMD	5	—	—	—	—	—
ANS50A	5	—	—	—	—	—
ANS50AM	5	—	—	—	—	—
ANS50AMD	5	—	—	—	—	—
ANS100A	5	—	—	—	—	—
ANS100AM	5	—	—	—	—	—
ANS100AMD	5	—	—	—	—	—
ANST2885	4	—	—	—	—	—
ANST28180	5	—	—	—	—	—
ANSMDRALT	—	—	—	—	—	—
ANSDMRCUSTOM	—	—	—	—	—	—

Audio Evacuation
Ceiling Speakers and Strobes
Genesis Series

Genesis life safety ceiling speakers are small, compact, audible emergency signaling devices. Protruding no more than 1.6" (41mm) from the ceiling, Genesis speakers feature textured housings in neutral white or life safety red.

Edwards Genesis speakers feature 1/4 W to 2 W operation that is selectable with a conveniently located switch. The wattage tap setting remains clearly visible and locked into place after final installation.

All Genesis ceiling speakers include a DC blocking capacitor to allow electrical supervision of the audio distribution circuit.

Features and Specifications

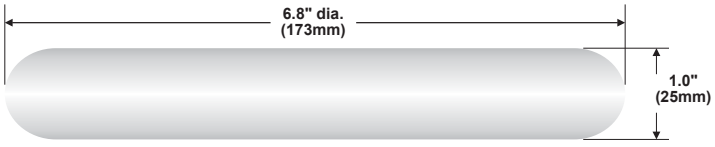
- Low profile design
- Red or white housings
- 1/4, 1/2, 1, and 2 watt selections via switch
- Up to 100dB @ 1m/90dB @ 10ft. output
- Fits all standard 4" square electrical boxes – no extension ring or trim plate required
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

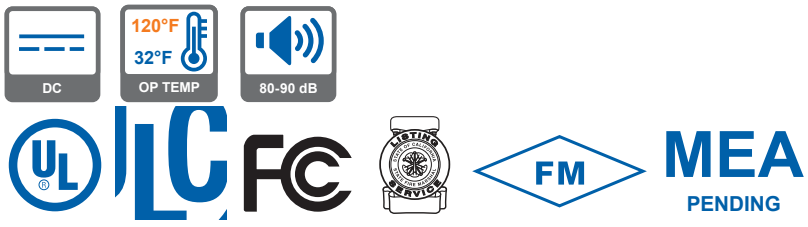
Ordering Information

Description	Cat. No.	Operating Voltage	Wattage Taps	dB at 1m/10ft.	Marking	Housing Color
Field Configurable Ceiling Speaker	**EGC-S2**	25V RMS	0.25, 0.5, 1.0, 2.0	90-100/80-90	None	White
	EGCF-S2	25V RMS	0.25, 0.5, 1.0, 2.0	90-100/80-90	FIRE	White
	EGCFR-S2	25V RMS	0.25, 0.5, 1.0, 2.0	90-100/80-90	FIRE	Red
	EGC-S7	70V RMS	0.25, 0.5, 1.0, 2.0	90-100/80-90	None	White
	EGCF-S7	70V RMS	0.25, 0.5, 1.0, 2.0	90-100/80-90	FIRE	White
	EGCFR-S7	70V RMS	0.25, 0.5, 1.0, 2.0	90-100/80-90	FIRE	Red

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
EGC-S2	1.62
EGCF-S2	1.62
EGCFR-S2	1.62
EGC-S7	1.62
EGCF-S7	1.62
EGCFR-S7	1.62





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Audio Evacuation
Ceiling Speakers and Strobes
Genesis Series

Genesis life safety ceiling speaker-strobes are small, compact, audible-visible emergency signaling devices. Protruding no more than 1.6" (41mm) from the ceiling, Genesis speaker-strobes feature textured housings in neutral white or life safety red.

Edwards Genesis strobes do not require bulky specular reflectors and lenses. The patented cavity design conditions light to produce a highly controlled distribution pattern. FullLight strobe technology produces a smooth light distribution pattern. This ensures the entire coverage area receives consistent illumination from the strobe flash.

Genesis Series include models 15 to 95, or 95 to 177 candela output that is selectable with a conveniently located switch. The candela output setting remains clearly visible and locked into place after final installation.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

Features and Specifications

- Xenon light source
- Clear lens
- White or red housing
- Low profile design
- 1/4, 1/2, 1, and 2 watt selections via switch
- Field selectable candela output via switch
- Up to 101dB @ 1m/91dB @ 10ft. output
- Fits all standard 4" square electrical boxes – no extension ring or trim plate required
- Operating temperature range: 32°F to 120°F (0°C to 49°C)

Ordering Information

Description	Cat. No.	Operating Voltage		Current[2]	Candela Rating	dB at 1m/10ft.	Marking	Housing Color
		Speaker	Strobe[1]					
Ceiling Speaker and Strobe	**EGC-S2VM**	25V RMS	24V	0.109 A - 0.318 A DC; 0.131 A - 0.437 A fwr	Selectable: 15, 30, 75, 95	90-101/ 80-91	None	White
	EGCF-S2VM	25V RMS	24V	0.109 A - 0.318 A DC; 0.131 A - 0.437 A fwr	Selectable: 15, 30, 75, 95	90-101/ 80-91	FIRE	White
	EGC-S2VMH	25V RMS	24V	0.330 A - 0.565 A DC; 0.432 A - 0.693 A fwr	Selectable: 95, 115, 150, 177	90-101/ 80-91	None	White
	EGCF-S2VMH	25V RMS	24V	0.330 A - 0.565 A DC; 0.432 A - 0.693 A fwr	Selectable: 95, 115, 150, 177	90-101/ 80-91	FIRE	White
	EGC-S7VM	70V RMS	24V	0.109 A - 0.318 A DC; 0.131 A - 0.437 A fwr	Selectable: 15, 30, 75, 95	90-101/ 80-91	None	White
	EGCF-S7VM	70V RMS	24V	0.109 A - 0.318 A DC; 0.131 A - 0.437 A fwr	Selectable: 15, 30, 75, 95	90-101/ 80-91	FIRE	White
	EGCFR-S7VM	70V RMS	24V	0.109 A - 0.318 A DC; 0.131 A - 0.437 A fwr	Selectable: 15, 30, 75, 95	90-101/ 80-91	FIRE	Red
	EGC-S7VMH	70V RMS	24V	0.330 A - 0.565 A DC; 0.432 A - 0.693 A fwr	Selectable: 95, 115, 150, 177	90-101/ 80-91	None	White
	EGCF-S7VMH	70V RMS	24V	0.330 A - 0.565 A DC; 0.432 A - 0.693 A fwr	Selectable: 95, 115, 150, 177	90-101/ 80-91	FIRE	White

[1]Regulated 16-33V DC/fwr
[2]Current values are UL, RMS ratings.

DC | 80-91 dB | 120°F 32°F OP TEMP | XENON

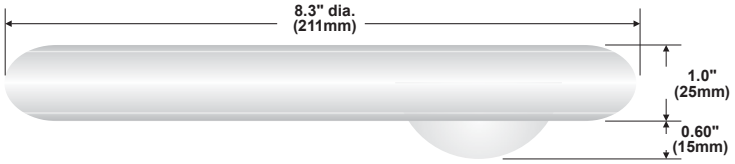
Audio Evacuation
Ceiling Speakers and Strobes
Genesis Series

Accessories

Description	Cat. No.
Synchronization Output Module (1-gang)	**EG1M-RM**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
EGC-S2VM	2.25
EGCF-S2VM	2.25
EGC-S2VMH	2.25
EGCF-S2VMH	2.25
EGC-S7VM	2.25
EGCF-S7VM	2.25
EGCFR-S7VM	2.25
EGC-S7VMH	2.25
EGCF-S7VMH	2.25
EG1M-RM	0.20



Audio Evacuation
Wall Speakers and Strobes
Genesis Series

The Genesis line of speakers and strobes are audible-visible emergency signaling devices. Protruding no more than one inch from the wall, Genesis speakers and speaker-strobes feature textured housings in white or red. Genesis strobes are designed to channel and condition light to produce a highly controllable distribution pattern.

Speaker-strobes feature selectable candela output with a switch located on the bottom of the device. The candela setting is visible even after the device is installed.

All Genesis speakers include a DC blocking capacitor to allow electrical supervision of the audio distribution circuit. The speaker has a sealed back construction for extra durability and improved audibility.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

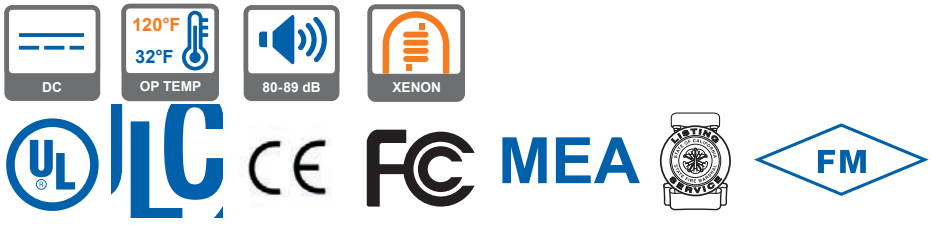
Features and Specifications

- Xenon light source
- Clear lens
- White or red housing
- Low profile design
- Field selectable candela output via switch
- 1/4, 1/2, 1, and 2 watt selections via switch
- Up to 99dB @ 1m/89dB @ 10ft. output
- DC blocking capacitor for audio circuit supervision
- Fits all standard 4" square electrical boxes – no extension ring or trim plate required
- Operating temperature range: 32ºF to 120ºF (0ºC to 49ºC)

Ordering Information

Description	Cat. No.	Operating Voltage		Current	Candela Rating	dB at 1m/10ft.[3]	Marking	Color
		Strobe[1]	Speaker					
Speaker Only	**EG4-S2**	24V	25V RMS	—	—	90-99/80-89	None	White
	EG4R-S2	24V	25V RMS	—	—	90-99/80-89	None	Red
	EG4F-S2	24V	25V RMS	—	—	90-99/80-89	FIRE	White
	EG4RF-S2	24V	25V RMS	—	—	90-99/80-89	FIRE	Red
	EG4-S7	24V	70V RMS	—	—	90-99/80-89	None	White
	EG4R-S7	24V	70V RMS	—	—	90-99/80-89	None	Red
	EG4F-S7	24V	70V RMS	—	—	90-99/80-89	FIRE	White
	EG4RF-S7	24V	70V RMS	—	—	90-99/80-89	FIRE	Red
Speaker and Strobes	**EG4-S2VM**	24V	25V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	Selectable: 15, 30, 75, 110	90-99/80-89	None	White
	EG4R-S2VM	24V	25V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	Selectable: 15, 30, 75, 110	90-99/80-89	None	Red
	EG4F-S2VM	24V	25V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	Selectable: 15, 30, 75, 110	90-99/80-89	FIRE	White
	EG4RF-S2VM	24V	25V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	Selectable: 15, 30, 75, 110	90-99/80-89	FIRE	Red
	EG4-S7VM	24V	70V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	Selectable: 15, 30, 75, 110	90-99/80-89	None	White

[1]Regulated 16-33V DC/fwr
[2]Current values are UL, RMS ratings.
[3]10ft. dB measurement per UL 464.



Audio Evacuation
Wall Speakers and Strobes
Genesis Series

Ordering Information (Continued)

Description	Cat. No.	Operating Voltage		Current[2]	Candela Rating	dB at 1m/10ft.[3]	Marking	Color
		Strobe[1]	Speaker					
Speaker and Strobe	**EG4R-S7VM**	24V	70V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	Selectable: 15, 30, 75, 110	90-99/80-89	None	Red
	EG4F-S7VM	24V	70V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	Selectable: 15, 30, 75, 110	90-99/80-89	FIRE	White
	EG4RF-S7VM	24V	70V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	Selectable: 15, 30, 75, 110	90-99/80-89	FIRE	Red
	EG4F-S7V1575	24V	70V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	15/75	90-99/80-89	FIRE	White
	EG4RF-S7V1575	24V	70V RMS	0.096 A - 0.294 A DC; 0.120 A - 0.375 A fwr	15/75	90-99/80-89	FIRE	Red

[1]Regulated 16-33V DC/fwr
[2]Current values are UL, RMS ratings.
[3]10ft. dB measurement per UL 464.

Accessories

Description	Cat. No.
Surface mount box, white	**EG4B**
Surface mount box, red	**EG4RB**
Synchronization Module	**EG1M-RM**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
EG4-S2	1.5
EG4R-S2	1.5
EG4F-S2	1.5
EG4RF-S2	1.5
EG4-S2VM	1.5
EG4R-S2VM	1.5
EG4F-S2VM	1.5
EG4RF-S2VM	1.5
EG4-S7	1.5
EG4R-S7	1.5
EG4F-S7	1.5
EG4RF-S7	1.5
EG4-S7VM	1.5
EG4R-S7VM	1.5
EG4F-S7VM	1.5
EG4RF-S7VM	1.5
EG4F-S7V1575	1.5
EG4RF-S7V1575	1.5
EG4B	0.7
EG4RB	0.7

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Audio Evacuation
Outdoor/Indoor Speakers and Strobes
Genesis Series

The Genesis WG4 line of speakers and speaker-strobe appliances are audible-visible emergency signaling devices that are rated for indoor and outdoor use in a wide range of wet and harsh environment applications. They have field-configurable light and sound output settings, and can be mounted on ceilings or walls.

The Genesis WGW line features a full backplane sealing gasket for installation in recessed (in-the-pour/block) electrical boxes. WG4 signals also mount to suitable surface boxes served by raceways. All appliance wiring is accomplished room-side for easy installation.

WG4 Series appliances have dual-voltage mylar-cone loudspeakers with field-selectable output taps and multi-candela strobes with standard and high output. Wattage and candela settings are viewable after installation through a sealed viewport display.

The strobes are designed to flash at the same rate (synchronize) when used with a compatible sychronization source, such as the EG1M-RM synchronization module, E-FSC and E-FSA fire panels, and EBPS series booster supplies.

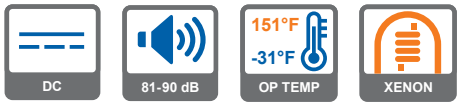
Features and Specifications

- Suitable for outdoor and indoor applications
- Xenon light source
- Clear lens
- White or red housing
- Low profile design
- Wall or ceiling mount
- Field-selectable speaker wattage, voltage, and strobe candela settings
- Standard and high-output strobe
- 1/4, 1/2, 1, 2 watt taps
- Up to 100dB @ 1m/90dB @ 10ft. output
- Room-side wiring accepts 18 to 12 AWG (0.75 to 2.5 mm^2)
- Operating temperature range: -31ºF to 151ºF (-35ºC to 66ºC)

Ordering Information

Description	Cat. No.	Operating Voltage		Current[2]	Candela Rating	dB at 1m/10ft.	Marking	Color
		Strobe[1]	Speaker					
Speaker and Strobe	**WG4RF-SVMC**	24V	25/70V RMS	0.106 A - 0.319 A DC; 0.120 A - 0.386 A fwr	Selectable: 15, 29, 70, 87	91-100/ 81-90	FIRE	Red
	WG4WF-SVMC	24V	25/70V RMS	0.106 A - 0.319 A DC; 0.120 A - 0.386 A fwr	Selectable: 15, 29, 70, 87	91-100/ 81-90	FIRE	White
	WG4RN-SVMC	24V	25/70V RMS	0.106 A - 0.319 A DC; 0.120 A - 0.386 A fwr	Selectable: 15, 29, 70, 87	91-100/ 81-90	None	Red
	WG4WN-SVMC	24V	25/70V RMS	0.106 A - 0.319 A DC; 0.120 A - 0.386 A fwr	Selectable: 15, 29, 70, 87	91-100/ 81-90	None	White
	WG4RF-SVMHC	24V	25/70V RMS	0.324 A - 0.496 A DC; 0.412 A - 0.646 A fwr	Selectable: 102, 123, 147, 161	91-100/ 81-90	FIRE	Red
	WG4WF-SVMHC	24V	25/70V RMS	0.324 A - 0.496 A DC; 0.412 A - 0.646 A fwr	Selectable: 102, 123, 147, 161	91-100/ 81-90	FIRE	White
	WG4RN-SVMHC	24V	25/70V RMS	0.324 A - 0.496 A DC; 0.412 A - 0.646 A fwr	Selectable: 102, 123, 147, 161	91-100/ 81-90	None	Red
	WG4WN-SVMHC	24V	25/70V RMS	0.324 A - 0.496 A DC; 0.412 A - 0.646 A fwr	Selectable: 102, 123, 147, 161	91-100/ 81-90	None	White

[1]Regulated 16-33V DC/fwr
[2]Current values are UL, RMS ratings.
[3]10ft. dB measurement per UL 464



Audio Evacuation
Outdoor/Indoor Speakers and Strobes
Genesis Series

Ordering Information (Continued)

Description	Cat. No.	Operating Voltage		Current[2]	Candela Rating	dB at 1m/10ft.	Marking	Color
		Strobe[1]	Speaker					
Speaker Only	**WG4RF-S**	—	25/70V RMS	—	—	91-100/ 81-90	FIRE	Red
	WG4WF-S	—	25/70V RMS	—	—	91-100/ 81-90	FIRE	White
	WG4RN-S	—	25/70V RMS	—	—	91-100/ 81-90	None	Red
	WG4WN-S	—	25/70V RMS	—	—	91-100/ 81-90	None	White

[1]Regulated 16-33V DC/fwr
[2]Current values are UL, RMS ratings.
[3]10ft. dB measurement per UL 464

Accessories

Description	Cat. No.	Color
Surface Skirt for Genesis WG4 appliance family	**WG4WTS**	White
Surface Skirt for Genesis WG4 appliance family	**WG4RTS**	Red
Replacement Mounting Gasket	**WG4GSKT**	
Surface mount box, outdoor rated	**449**	
Synchronization Module	**EG1M-RM**	

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Length (in)	Width (in)	Depth (in)
WG4RF-SVMC	1.5	8.625	5.625	1.313
WG4WF-SVMC	1.5	8.625	5.625	1.313
WG4RN-SVMC	1.5	8.625	5.625	1.313
WG4WN-SVMC	1.5	8.625	5.625	1.313
WG4RF-SVMHC	1.5	8.625	5.625	1.313
WG4WF-SVMHC	1.5	8.625	5.625	1.313
WG4RN-SVMHC	1.5	8.625	5.625	1.313
WG4WN-SVMHC	1.5	8.625	5.625	1.313
WG4RF-S	1.5	8.625	5.625	1.313
WG4WF-S	1.5	8.625	5.625	1.313
WG4RN-S	1.5	8.625	5.625	1.313
WG4WN-S	1.5	8.625	5.625	1.313
WG4WTS	0.2	8.875	5.875	2.25
WG4RTS	0.2	8.875	5.875	2.25
WG4GSKT	0.2	8.875	5.875	2.25
449	1.2	4.5	4.5	2.25

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Standalone Detection
Smoke Detectors
517 Series

Edwards 517 Series Single Station Smoke Detectors feature a solid state piezo signal and a strobe with "FIRE" lettering.

The 517TCS/517TCSB Series provides the 3 pulse temporal pattern evacuation tone as a standard feature. The smoke alarm operates on the light scattering principle, using a pulsing LED light source and a photodiode sensor in a fully screened sensing chamber. Upon activation, the alarm will emit a local audible signal and activate the high intensity strobe.

They are designed for ceiling or wall mounting on a 4" (102mm) square mounting box using a universal mounting plate, and have a quick-disconnect plug connection.

Features and Specifications

- Quadra-port smoke entry
- 3 position functional test switch
- Solid-state LED condition indicator
- Quick disconnect wiring harness
- 9V DC alkaline battery back-up
- Tandem connection up to 6 alarms per system
- Dry contacts will activate from the tandem wire
- Temporal pattern evacuation sounding device
- 100dB @ 1m/90dB @ 10ft.
- Operating temperature range: 40ºF to 100ºF (4.4ºC to 37.8ºC)

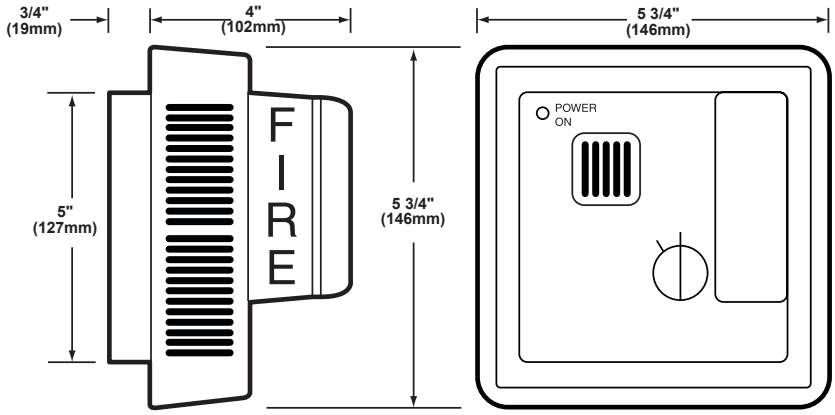
Ordering Information

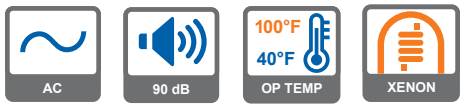
Description	Cat. No.	Operating Voltage[1]	Current	UL 1971 Strobe Output	dB at 1m/10ft.	Mounting	Nominal Sensitivity	Auxiliary Relay (Standard)
Smoke Detector	**517TCS-C**	120V AC	0.4 A (peak)	177 cd	100/90	Ceiling	2.5% Obscuration	1 Form C (1 A @ 24V DC; 0.6 A @ 125V AC)
	517TCS-W	120V AC	0.4 A (peak)	177 cd	100/90	Wall		
Smoke Detector with 9V DC Battery Backup	**517TCSB-C**	120V AC	0.4 A (peak)	177 cd	100/90	Ceiling		
	517TCSB-W	120V AC	0.4 A (peak)	177 cd	100/90	Wall		

[1]AC voltage frequency is 60 Hz.

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
517TCS-C	1.2
517TCS-W	1.2
517TCSB-C	1.6
517TCSB-W	1.6





MEA ADA

Patented

Standalone Detection
Smoke Detectors
517 Series

The Edwards 517 Series Smoke Detectors are designed for multi-family, residential and institutional occupancies defined by NFPA 101, in compliance with UL 217 and NFPA 72.

The Edwards 517 Series provides a three position test feature that simulates actual smoke conditions. It also provides a maintenance indicator and makes the 100% testing requirement easy.

The temporal pattern evacuation tone is a standard feature.

It is designed for ceiling or wall mounting on a standard electrical box and can tandem wire up to 12 units (or 6 with relay) to form a system.

Features and Specifications

- Solid-state non-latching piezo horn
- Pulsing LED sensing chamber
- 3 position functional test switch
- Solid-state LED condition indicator
- Quick-disconnect wiring harness
- Mounting hardware adapts to standard junction boxes
- Dust cover
- 3 pulse temporal pattern evacuation sounding device
- 5-to-1 signal-to-noise ratio
- Operating temperature range: 40ºF to 100ºF (4.4°C to 37.8°C)

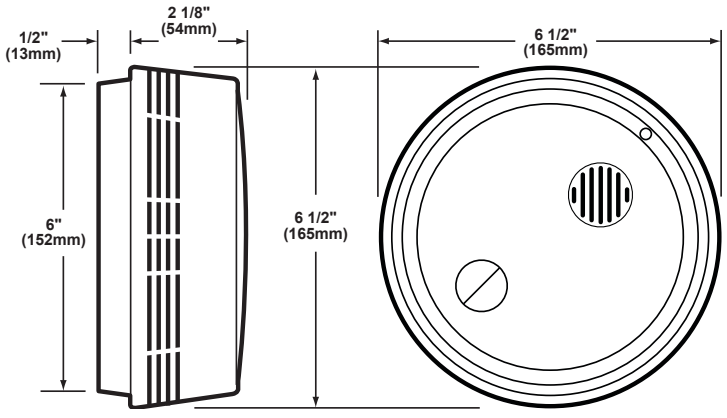
Ordering Information

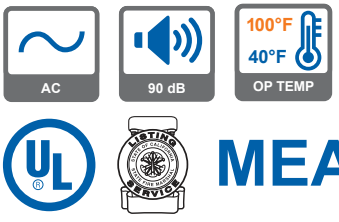
Description	Cat. No.	Operating Voltage[1]	Aux. Contact 1 Form A, 1 Form C	Nominal Sensitivity	dB at 1m/10ft.	Isolated Heat 135°F	Contact Rating
Smoke Detector	**517T**	120V AC	—	2.5%	100/90	—	—
	517TH	120V AC	—	2.5%	100/90	Yes	—
	517TC	120V AC	Yes	2.5%	100/90	—	1 A @ 24V DC; 0.6 A @ 125V AC
Smoke Detector with 9V Battery Backup	**517TB**	120V AC	—	2.5%	100/90	—	—
	517THB	120V AC	—	2.5%	100/90	Yes	—
	517TCB	120V AC	Yes	2.5%	100/90	—	1 A @ 24V DC; 0.6 A @ 125V AC

[1]AC voltage frequency is 60Hz.

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
517T	1.2
517TH	1.2
517TC	1.2
517TB	1.2
517THB	1.2
517TCB	1.3





Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Emergency Systems

"When disaster strikes, whether it's in a single building or across a sprawling complex, we need to communicate with those affected quickly, efficiently and accurately.

Warning and Notification Systems from Edwards help us do just that."

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@stevenengineering.com - www.stevenengineering.com

Product Index

Ideal for overcoming high levels of industrial noise, Edwards provides outdoor warning and communication systems that provide high intensity warning signals over a wide area. Offering industrial and commercial solutions for mass notification, Edwards Warning and Notification Systems are the premier signaling choice.

Warning and Notification Systems

Omni Directional 13-6

High Power Speaker Arrays 13-14

Air Horns 13-18

Control Valves 13-23

Warning and Notification Systems
Table of Contents

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Outdoor Warning Systems		
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Air Horns	KB Series	13-18
Air Horns	CA Series	13-22
Control Valves	KB Series	13-23

Warning and Notification Systems
System Design Criteria

The Edwards Difference

Since 1872 Edwards has been dedicated to producing the finest Signaling Equipment available. Edwards Warning Systems are shaped by continuous quality, perfomance, durability and reliability. Each siren is hand built in the United States by signaling professionals and then tested to exacting standards. We use only American made, industrial quality, continuous duty motors, for the ultimate in reliability. Edwards sirens are rated by the Nuclear Regulatory Commission at 53 years of trouble free use.

Edwards decoders are field programmable and field serviceable and Edwards will work with your local service technicians to ensure any repairs are completed correctly. All siren parts are made from non-corrosive metals and are powder-coated to provide additional protection form the elements. Sound projection from all but one of Edwards sirens is Omni-Directional resulting in full decibel output in all directions at all times.

The OMNI-Directional Advantage

It is a common misconception to directly compare the dB rating of a rotating siren with that of an Omni-Directional siren. Because the siren rotates, it spends much of its on-time facing away from any given point, where the dB level has dropped. When a siren survey is done for a given area, the siren's output is considered, and a circle is drawn on a map to estimate the area that the siren should cover. However, with a rotating beam type siren, the area is covered only 25% of the on-time by the maximum beam output, and 75% of the on-time by a lesser beam output. Therefore, the rotating beam siren presents its maximum output to your ear only 1/4 of the time.

Furthermore, the survey map does not consider the effect that the rotation has on the sound of the signal to the human ear. The effect of the sound rotating toward, and then away from any given point causes a "peaking" and "ebbing" of the sound - and a potentially dangerous problem. Imagine for a moment that your town uses a series of signals to warn its populace: one steady blast for a tornado, and a warbling tone for "all clear." Now consider what the rotating siren's "steady" tone will sound like with its peaking and ebbing effect. The result can be a very confused populace and a resulting disastrous situation.

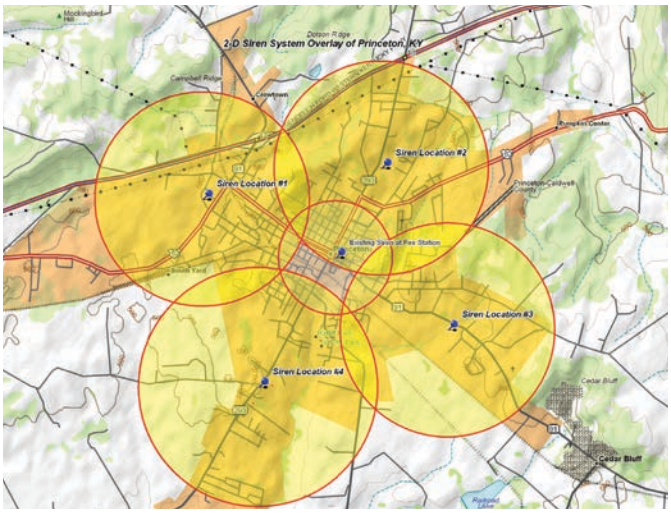
Edwards Omni-Directional sirens project the same decibel level in all directions simultaneously. They provide 360 degrees of coverage and, if you use multiple sirens, there will not be the distortion that occurs with a rotating siren.

Custom Siren Survey

At Edwards, we specialize in designing custom siren systems to best fit any given project. Our no charge, no obligation Siren Survey will take away the guesswork. Just call and we will connect you to a site designer who will produce a scale, topographical map of your project, complete with suggested siren placement, siren models, activation equipment, and estimated costs. Let us know what you want to do and Edwards will help make your project a reality. See Map 1 and Map 2 on the following page for examples of 2-D and 3-D project maps.

Omni-Directional Warning Siren
8 Horn, Equal Length, Single Row
EWS-V3 and EWS-V10 Series

Siren Activation Systems



Map 1: 2-D Image for topographical study

Map 2: 3-D Image for topographical study

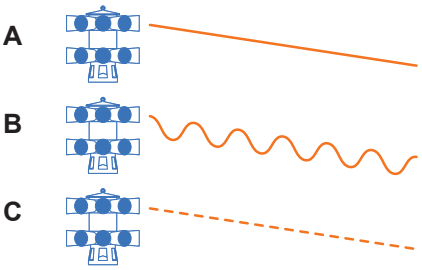
Examples Of Standard Siren Output Signals:

A. Alert (Civil Defense), Steady blast for three minutes

B. Attack (Civil Defense), Warbling signal for three minutes

C. Fire Typically 15 sec. on, 15 sec. off; bursts for three minutes but is field programmable

D. Cancel Stops all functions (all timing is adjustable)



Radio Activation:

VHF-Band Decoder (150-174 MHz)

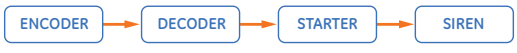
UHF-Band Decoder (450-470 MHZ)

Available with the following pre-programmed signal packages (please see “Standard Siren Output Signals” above)

1. A, B, C, D

2. A, B, D

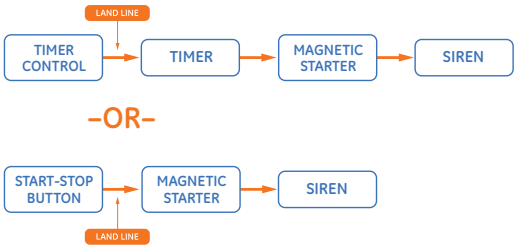
3. C, D



4. CHOOSE ONE ONLY—A, B, OR C

Land Line Activation (Used to Achieve Siren Timing Functions Without Radio Equipment)

GEN-1	Multi-function Push Button controller
Model EWS-SWM	Start button (momentary) (operator controlled)
Model EWS-SW	Start/Stop button (on & off functions only) (operator controlled)
Model EWS-CL	Clock. Use alone or in conjunction with another activation system. Allows (for example) a daily blast at noon, or blasts at 7 a.m., noon, and 5 p.m. Field programmable, activates magnetic starter directly, and acts independently from other activation systems.



Outdoor Warning Systems
Omni Directional
EWS Series

The EWS Series feature a non-corrosive, cast aluminum fan that is powered by a 5 Hp motor in your choice of single or three-phase power. All exposed siren components are made of zinc plated, steel construction, which are “powder coated” for a durable finish. The fan and housing are both made of non-corrosive cast aluminum.

The EWS-V2 Series uses projectors to distribute and organize sound. Rated at 109 dB, the EWS-V2 is an omni-directional siren that produces continuous 360˚ coverage.

Features and Specifications

- Omni-directional
- Continuous duty motor
- Port tone frequency 460 cps
- Skirted horn design - **EWS-V1 Series**
- 8 horn, equal length, single row - **EWS-V2 Series**
- Powder coated exterior
- 5 Hp singe phase or three phase motor

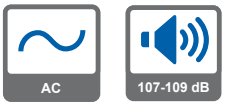
EWS-V1

EWS-V2

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current		Estimated Sound Circle	dB at 100ft.
			Starting	Running		
Skirted Horn - Three Phase Motor	**EWS-V1-3**	208/230/460V AC	66 A[2]	12 A[2]	3200 ft. (975.4m) continuous	107
Skirted Horn - Single Phase Motor	**EWS-V1**	230V AC	127 A	23 A	3200 ft. (975.4m) continuous	107
8 Horn - Three Phase Motor	**EWS-V2-3**	208/230/460V AC	66 A[2]	12 A[2]	4000 ft. (1219.2m) continuous	109
8 Horn - Single Phase Motor	**EWS-V2**	230V AC	127 A	23 A	4000 ft. (1219.2m) continuous	109

[1] AC voltage frequency is 60 Hz
[2] Current measured at 208/230 volts



Outdoor Warning Systems
Omni Directional
EWS Series

Accessories

Description	Cat. No.
Remote Magnetic Motor Starter - 3 Phase	**EWS-MS-V1-3** (Discontinued Replaced by EWS-MS-V1-3-W)
Remote Magnetic Motor Starter - 3 Phase Weather Resistant	**EWS-MS-V1-3-W**
Remote Magnetic Motor Starter - 1 Phase	**EWS-MS-V1** (Discontinued Replaced by EWS-MS-V1-W)
Remote Magnetic Motor Starter - 1 Phase Weather Resistant	**EWS-MS-V1-W**
Multi-function Push Button Controller	**GEN-1**
Multi-function Radio Controller	**GEN-3**
Clock Network, 100V AC Input	**EWS-CL**
Radio Control - Hand Held Encoder	**EWS-ENC-H**
Radio Control - Desk Mount Encoder	**EWS-ENC-D**
Utility Pole Mounting Bracket - Powder Coat Finish	**EWS-PMB**
Utility Pole Mounting Bracket - Stainless Steel Finish	**EWS-PMB-SS**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Max. Diameter (in./cm.)	Max. Height (in./cm.)	Max. Mounting Base (in./cm.)
EWS-V1-3	350	34/86.4	34/86.4	19/48.3
EWS-V1	350	34/86.4	34/86.4	19/48.3
EWS-V2-3	350	34/86.4	34/86.4	19/48.3
EWS-V2	350	34/86.4	34/86.4	19/48.3

Outdoor Warning Systems
Omni Directional
EWS Series

The EWS-V3 is available in single phase or three phase and is a single tone siren, producing 460 cycles per second, for optimal sound penetration. All exposed siren components are of metal construction, which are “powder coated” for a durable finish. The fan and housing are made of non-corrosive cast aluminum

The EWS-V3 is rated at 112 dB and is Omni-Directional. The EWS-V10 is a battery-powered version of the EWS-V3. The EWS-V10 includes a motor starter, charging system and battery box.

Features and Specifications

- Omni-directional
- Continuous duty motor
- Port tone frequency 460 cps
- 8 horn, equal length, single row
- Powder coated exterior
- 7.5 Hp single phase or three phase motor

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current		Estimated Sound Circle	dB at 100ft.
			Starting	Running		
8 Horn Outdoor Warning Siren - Three Phase Motor	**EWS-V3-3**	208/230/460V AC	105 A[2]	19 A[2]	5000 ft. (1524m) continuous	112
8 Horn Outdoor Warning Siren - Single Phase Motor	**EWS-V3**	230V AC	204 A	37 A	5000 ft. (1524m) continuous	112
8 Horn Outdoor Warning Siren - Battery Powered	**EWS-V10**	N/A	N/A	N/A	7000 ft. (2133.6m) continuous	118

[1] AC voltage frequency is 60 Hz
[2] Current measured at 208/230 volts

Accessories

Description	Cat. No.
Remote Magnetic Motor Starter - 3 Phase	**EWS-MS-V3-3** (Discontinued Replaced by EWS-MS-V3-3-W)
Remote Magnetic Motor Starter - 3 Phase, Weather Resistant	**EWS-MS-V3-3-W**
Remote Magnetic Motor Starter - 1 Phase	**EWS-MS-V3** (Discontinued Replaced by EWS-MS-V3-W)
Remote Magnetic Motor Starter - 1 Phase, Weather Resistant	**EWS-MS-V3-W**
Multi-function Push Button Controller	**GEN-1**
Multi-function Radio Controller	**GEN-3**
Clock Network, 100V AC Input	**EWS-CL**

Accessories Continued

Description	Cat. No.
Radio Control - Hand Held Encoder	**EWS-ENC-H**
Radio Control - Desk Mount Encoder	**EWS-ENC-D**
Utility Pole Mounting Bracket - Powder Coat Finish	**EWS-PMB**
Utility Pole Mounting Bracket - Stainless Steel Finish	**EWS-PMB-SS**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Max. Diameter (in./cm.)	Max. Height (in./cm.)	Max. Mounting Base (in./cm.)
EWS-V3-3	400	56/142.2	41/104.1	19/48.3
EWS-V3	400	56/142.2	41/104.1	19/48.3
EWS-V10	400	56/142.2	41/104.1	19/48.3

Outdoor Warning Systems
Omni Directional
EWS Series

The EWS-V4 Series is an omni-directional siren which produces continuous 360˚ coverage. Staged horn projectors help organize sound for even distribution over a large radius.

The EWS-V4 is available in either single or three phase power and is a single tone siren, producing 460 cycles per second. All exposed siren components are of metal construction, which are "powder coated" for a durable finish. The fan and housing are made of non-corrosive cast aluminum.

Features and Specifications

- Omni-directional
- Continuous duty motor
- Port tone frequency 460 cps
- 8 horn, equal length, single row
- Powder coated exterior
- 10 Hp single phase or three phase motor

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current		Estimated Sound Circle	dB at 100ft.
			Starting	Running		
Omni Directional Siren - Three Phase	**EWS-V4-3**	208/230/460V AC	132 A[2]	24 A[2]	6000 ft. (1828.8m) continuous	115
Omni Directional Siren - Single Phase	**EWS-V4**	230V AC	258 A	47 A	6000 ft. (1828.8m) continuous	115

[1] AC voltage frequency is 60 Hz
[2] Current measured at 208/230 volts

Accessories

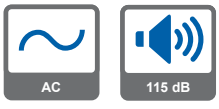
Description	Cat. No.
Remote Magnetic Motor Starter - 3 Phase	**EWS-MS-V4-3** (Discontinued Replaced by EWS-MS-V4-3-W)
Remote Magnetic Motor Starter - 3 Phase, Weather Resistant	**EWS-MS-V4-3-W**
Remote Magnetic Motor Starter - 1 Phase	**EWS-MS-V4** (Discontinued Replaced by EWS-MS-V4-W)
Remote Magnetic Motor Starter - 1 Phase, Weather Resistant	**EWS-MS-V4-W**
Multi-function Push Button Controller	**GEN-1**
Multi-function Radio Controller	**GEN-3**
Clock Network, 100V AC Input	**EWS-CL**
Radio Control - Hand Held Encoder	**EWS-ENC-H**
Radio Control - Desk Mount Encoder	**EWS-ENC-D**

Accessories Continued

Description	Cat. No.
Utility Pole Mounting Bracket - Powder Coat Finish	**EWS-PMB**
Utility Pole Mounting Bracket - Stainless Steel Finish	**EWS-PMB-SS**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Max. Diameter (in./cm.)	Max. Height (in./cm.)	Max. Mounting Base (in./cm.)
EWS-V4-3	480	78/198.1	56/142.2	19/48.3
EWS-V4	480	78/198.1	56/142.2	19/48.3



Outdoor Warning Systems
Omni Directional
EWS Series

The EWS-V6 is an omni-directional siren that produces continuous 360° coverage. The. EWS-V9 is a battery-powered version of the EWS-V6. The EWS-V9 includes a motor starter, charging system and battery box.

The EWS-V6 is available in either single or three phase power. Both the EWS-V6 and EWS-V9 are dual tone sirens, employing two rotors with different numbers of ports to produce a greater range of frequency. One rotor produces 460 cycles per second, and the other produces 920 cycles per second. All exposed siren components are of metal construction, which are "powder coated" for a durable finish. The fan and housing are made of non-corrosive cast aluminum.

Features and Specifications

- Omni-directional
- Dual tone sirens
- Port tone frequency 460 cps and 920 cps
- Continuous duty motor
- 8 horn, equal length, dual row
- Powder coated exterior
- 15 Hp three phase motor
- Two 7.5 Hp 230 volt single phase motors

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current		Estimated Sound Circle	dB at 100ft.
			Starting	Running		
Omni Directional Siren - Three Phase Motor	**EWS-V6-3**	208/230/460V AC	198 A	36 A	9400 ft. (2865.1 m) continuous	122
Omni Directional Siren - Single Phase Motor	**EWS-V6**	230V AC	204 A	37 A	9400 ft. (2865.1 m) continuous	122
Omni Directional Siren - DC Motor	**EWS-V9**	72V DC	310 A	93 A	11,000 ft. (3352.8 m) continuous	125

[1] AC voltage frequency is 60 Hz

Accessories

Description	Cat. No.
Remote Magnetic Motor Starter - 3 Phase	**EWS-MS-V6-3** (Discontinued Replaced by EWS-MS-V6-3-W)
Remote Magnetic Motor Starter - 3 Phase, Weather Resistant	**EWS-MS-V6-3-W**
Remote Magnetic Motor Starter - 1 Phase	**EWS-MS-V6** (Discontinued Replaced by EWS-MS-V6-W)
Remote Magnetic Motor Starter - 1 Phase, Weather Resistant	**EWS-MS-V6-W**
Multi-function Push Button Controller	**GEN-1**
Multi-function Radio Controller	**GEN-3**
Clock Network, 100V AC Input	**EWS-CL**
Radio Control - Hand Held Encoder	**EWS-ENC-H**
Radio Control - Desk Mount Encoder	**EWS-ENC-D**
Utility Pole Mounting Bracket - Powder Coat Finish	**EWS-PMB**
Utility Pole Mounting Bracket - Stainless Steel Finish	**EWS-PMB-SS**

Outdoor Warning Systems
Omni Directional
EWS Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Max. Diameter (in./cm.)	Max. Height (in./cm.)	Max. Mounting Base (in./cm.)
EWS-V6-3	750	78/198.1	65/165.1	19/48.3
EWS-V6	800	78/198.1	65/165.1	19/48.3
EWS-V9	660	78/198.1	65/165.1	19/48.3

Outdoor Warning Systems
Omni Directional
EWS Series

The EWS-V7 is an omni-directional siren which produces continuous 360° coverage

The EWS-V7 is available in either single or three phase power, and is a dual tone siren, employing two rotors with different numbers of ports to produce a greater range of frequency. One rotor produces 460 cycles per second, and the other produces 920 cycles per second. All exposed siren components are of metal construction, which are "powder coated" for a durable finish. The fan and housing are made of non-corrosive cast aluminum.

Features and Specifications

- Omni-directional
- Continuous duty motor
- Dual tone sirens
- 8 horn, equal length, dual row
- Powder coated exterior
- Port tone frequency 460 cps and 920 cps
- 20 Hp three phase motor
- Two 10 Hp 230 volt single phase motors

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current		Estimated Sound Circle	dB at 100ft.
			Starting	Running		
Omni Directional Siren - Three Phase Motor	**EWS-V7-3**	208/230/460V AC	258 A[2]	47 A[2]	10,500 ft. (3200.4 m) continuous	124
Omni Directional Siren - Single Phase Motor	**EWS-V7**	230V AC	510 A	94 A	10,500 ft. (3200.4 m) continuous	124

[1] AC voltage frequency is 60 Hz
[2] Current measured at 208/230 volts

Accessories

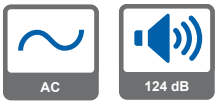
Description	Cat. No.
Remote Magnetic Motor Starter - 3 Phase	**EWS-MS-V7-3** (Discontinued Replaced by EWS-MS-V7-3-W)
Remote Magnetic Motor Starter - 3 Phase, Weather Resistant	**EWS-MS-V7-3-W**
Remote Magnetic Motor Starter - 1 Phase	**EWS-MS-V7** (Discontinued Replaced by EWS-MS-V7-W)
Remote Magnetic Motor Starter - 1 Phase, Weather Resistant	**EWS-MS-V7-W**
Multi-function Push Button Controller	**GEN-1**
Multi-function Radio Controller	**GEN-3**
Clock Network, 100V AC Input	**EWS-CL**

Accessories Continued

Description	Cat. No.
Radio Control - Hand Held Encoder	**EWS-ENC-H**
Radio Control - Desk Mount Encoder	**EWS-ENC-D**
Utility Pole Mounting Bracket - Powder Coat Finish	**EWS-PMB**
Utility Pole Mounting Bracket - Stainless Steel Finish	**EWS-PMB-SS**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Max. Diameter (in./cm.)	Max. Height (in./cm.)	Max. Mounting Base (in./cm.)
EWS-V7-3	800	78/198.1	56/142.2	19/48.3
EWS-V7	800	78/198.1	56/142.2	19/48.3



Outdoor Warning Systems
Omni Directional
EWS Series

The EWS-V8-3 produces continuous 360° coverage. The EWS-V8-3 is available in three phase power only, and is a dual tone siren, employing two rotors with different numbers of ports to produce a greater range of frequency. One rotor produces 600 cycles per second, and the other produces 850 cycles per second.

All exposed siren components are of galvanized steel construction, which are powder coated for a durable finish. The fan and housing are made of non-corrosive cast aluminum.

Features and Specifications

- Omni-directional
- Continuous duty motor
- 5 horn, equal length, dual row
- Powder coated exterior
- Port tone frequency 600 cps and 850 cps
- 40 Hp three phase motor

Ordering Information

Description	Cat. No.	Operating Voltage[1]	Current		Estimated Sound Circle	dB at 100ft.
			Starting	Running		
Omni Directional Siren - Three Phase Motor	**EWS-V8-3**	208/230/460V AC	500 A	96 A	12,800 ft. (3901.4 m) continuous	127

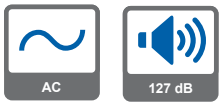
[1] AC voltage frequency is 60 Hz

Accessories

Description	Cat. No.
Remote Magnetic Motor Starter - 3 Phase	**EWS-MS-V8-3-W**
Multi-function Push Button Controller	**GEN-1**
Multi-function Radio Controller	**GEN-3**
Clock Network, 100V AC Input	**EWS-CL**
Radio Control - Hand Held Encoder	**EWS-ENC-H**
Radio Control - Desk Mount Encoder	**EWS-ENC-D**
Utility Pole Mounting Bracket - Powder Coat Finish	**EWS-PMB**
Utility Pole Mounting Bracket - Stainless Steel Finish	**EWS-PMB-SS**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions		
		Max. Diameter (in./cm.)	Max. Height (in./cm.)	Max. Mounting Base (in./cm.)
EWS-V8-3	1400	78/198.1	67/170.2	24/61.0



Outdoor Warning Systems
High Power Speaker Arrays
MN Series

The MN-GVD Series Directional High Power Speaker Arrays consist of a single or multiple 400 Watt speakers that can be aimed where sound energy is needed. These re-entrant speakers are suitable for outdoor applications and are made of durable, powder-coated spun aluminum. Units are available with 90, 180, 270 or a full 360-degree horizontal angle of dispersion.

All units operate on 24V DC, and can be charged from line power and/or solar arrays. The Electronic Control Cabinet (ECC) has a lockable, tamper-resistant NEMA 4X enclosure, and is powered from rechargeable batteries that are contained in a separate and lockable NEMA 4X enclosure.

Features and Specifications

- Suitable for outdoor applications
- Modular electronics
- Mounting options include pole-mount, roof-mount and wall-mount
- Electronic Control Cabinet is NEMA 4X rated
- Operating temperature range: -40°F to 140°F (-40°C to 60°C)

Ordering Information

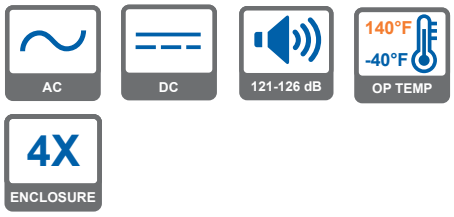
Description	Cat. No.	Rating	Angle of Dispersion	No. of Horns	Operating Voltage	Current	Battery Charger Voltage	dB at 100ft.
Directional One Level	**MN-GVD04**	400 watts	90°	1	24V DC	18-144 A DC	120V AC	121
	MN-GVD08	800 watts	180°	2	24V DC	18-144 A DC	120V AC	121
	MN-GVD12	1200 watts	270°	3	24V DC	18-144 A DC	120V AC	121
	MN-GVD16	1600 watts	360°	4	24V DC	18-144 A DC	120V AC	121
Directional Two Level	**MN-GVD32**	3200 watts	360°	8	24V DC	18-144 A DC	120V AC	126

Accessories

Description	Cat. No.
EST3 interface kit (hard wire)	**MN-GVZINTD4**
Local Physical Ethernet Interface kit	**MN-GVZINTLE**
Wireless Encrypted Ethernet Interface kit	**MN-GVZINTWE**
Pole mount kit	**MN-GVPMD**
Roof-mount apparatus	**MN-GVRMAD**
2-piece steel pole	**MN-GVSP1**
Wall-mount bracket	**MN-GVWBD1**
Wood pole	**MN-GVWP1**
400 Watt replacement amplifier	**MN-GVAMP4**
Stand-Alone Omni-directional antenna kit	**MN-GVANT2**
Extra battery cabinet (w/o batteries)	**MN-GVBATEX**
24V battery compliment (2 12V batteries)	**MN-GVBT1**

Accessories Continued

Description	Cat. No.
Battery heating system (requires 120 VAC)	**MN-GVBTH1**
Cabinet heating element (requires 120 VAC)	**MN-GVHTR1**
Replacement power supply and charger	**MN-GVPS25**
Solar charging array (under 1600 watt) with power equalizer and regulator	**MN-GVSOL1**
Solar charging array (over 1600 watt) with power equalizer and regulator	**MN-GVSOL2**
Replacement speaker circuit transient protector (4 circuits) 2 required for any system	**MN-GVSPTP1**
Cabinet high/low temperature sensor	**MN-GVTST1**
Wireless Ethernet antenna surge protector	**MN-GVWASP1**
Cabinet coax whip	**MN-GVWTN18**



Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Outdoor Warning Systems
High Power Speaker Arrays
MN Series

Weights and Dimensions

Cat. No.	Speaker Approx. Shipping Weight (lb.)	Control Approx. Shipping Weight (lb.)	Dimensions								
			Siren			Control Cabinet			Battery Cabinet		
			Length (in./cm.)	Width (in./cm.)	Height (in./cm.)	Length (in./cm.)	Width (in./cm.)	Height (in./cm.)	Length (in./cm.)	Width (in./cm.)	Height (in./cm.)
MN-GVD04	100	180	22/55.9	22/55.9	22/55.9	8/20.3	48/121.9	24/70	24/61	24/61	8/20.3
MN-GVD08	150	200	53/134.6	22/55.9	22/55.9	8/20.3	48/121.9	24/70	24/61	24/61	8/20.3
MN-GVD12	200	220	53/134.6	22/55.9	22/55.9	8/20.3	48/121.9	24/70	24/61	24/61	8/20.3
MN-GVD16	315	200	64/162.6	64/162.6	20/50.8	24/61	24/61	8/20.3	24/61	24/61	8/20.3
MN-GVD32	570	220	64/162.6	64/162.6	20/50.8	36/91.4	24/61	8/20.3	24/61	24/61	8/20.3

Outdoor Warning Systems
High Power Speaker Arrays
MN Series

The MN-GVM Series Omni-directional High Power Speaker Arrays consist of single or multiple levels of omni-directional 800 watt speakers. These speakers are suitable for outdoor applications and are made of color-impregnated fiberglass.

All units operate on 24V DC, and can be charged from line power and/or solar arrays. The Electronic Control Cabinet (ECC) has a lockable, tamper-resistant NEMA 4X enclosure, and is powered from rechargeable batteries that are contained in a separate and lockable NEMA 4X enclosure.

Features and Specifications

- Suitable for outdoor applications
- Modular electronics
- Mounting options include pole-mount, roof-mount and wall-mount
- Electronic Control Cabinet is NEMA 4X rated
- Operating temperature range: -40°F to 140°F (-40°C to 60°C)

Ordering Information

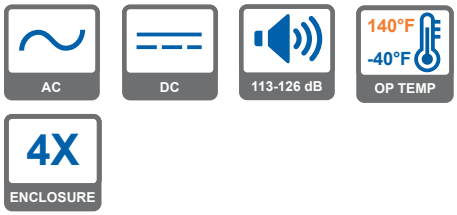
Description	Cat. No.	Rating	Operating Voltage	Current	Battery Charger Voltage	dB at 100ft.
Omni-directional	**MN-GVM08**	800 watts	24V DC	36-144 A DC	120V AC	113
	MN-GVM16	1600 watts	24V DC	36-144 A DC	120V AC	118
	MN-GVM24	2400 watts	24V DC	36-144 A DC	120V AC	121
	MN-GVM32	3200 watts	24V DC	36-144 A DC	120V AC	126

Accessories

Description	Cat. No.
EST3 interface kit (hard wire)	**MN-GVZINTD4**
Local Physical Ethernet Interface kit	**MN-GVZINTLE**
Wireless Encrypted Ethernet Interface kit	**MN-GVZINTWE**
Pole mount kit	**MN-GVPMM**
Roof-mount apparatus	**MN-GVRMAM**
2-piece steel pole	**MN-GVSP1**
Wall-mount bracket	**MN-GVWBM1**
Wood pole	**MN-GVWP1**
400 Watt replacement amplifier	**MN-GVAMP4**
Stand-Alone Omni-directional antenna kit	**MN-GVANT1**
Extra battery cabinet (w/o batteries)	**MN-GVBATEX**
24V battery compliment (2 12V batteries)	**MN-GVBT1**
Battery heating system (requires 120 VAC)	**MN-GVBTH1**

Accessories Continued

Description	Cat. No.
Cabinet heating element (requires 120 VAC)	**MN-GVHTR1**
Replacement power supply and charger	**MN-GVPS25**
Solar charging array (under 1600 watt) with power equalizer and regulator	**MN-GVSOL1**
Solar charging array (over 1600 watt) with power equalizer and regulator	**MN-GVSOL2**
Replacement speaker circuit transient protector (4 circuits) 2 required for any system	**MN-GVSPTP1**
Cabinet high/low temperature sensor	**MN-GVTST1**
Wireless Ethernet antenna surge protector	**MN-GVWASP1**
Cabinet coax whip	**MN-GVWTN18**



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Outdoor Warning Systems
High Power Speaker Arrays
MN Series

Weights and Dimensions

Cat. No.	Speaker Approx. Shipping Weight (lb.)	Control Approx. Shipping Weight (lb.)	Dimensions							
			Siren		Control Cabinet			Battery Cabinet		
			Diameter (in./cm.)	Height (in./cm.)	Length (in./cm.)	Width (in./cm.)	Height (in./cm.)	Length (in./cm.)	Width (in./cm.)	Height (in./cm.)
MN-GVM08	340	200	52/132.1	40/101.6	8/20.3	48/121.9	24/70	24/61	24/61	8/20.3
MN-GVM16	490	200	53/134.6	56/142.2	24/61	24/61	8/20.3	24/61	24/61	8/20.3
MN-GVM24	640	360	52/132.1	72/182.9	8/20.3	60/152.4	24/70	24/61	24/61	8/20.3
MN-GVM32	790	220	53/134.6	88/223.5	36/91.4	24/61	8/20.3	24/61	24/61	8/20.3

Outdoor Warning Systems
Air Horns
KB Series

Photo Not Available

These units are available featuring our KMJ-4 air horn and consist of a motor directly connected to a rotary compressor. They are designed featuring a horizontal bell with horizontal diaphragm head so that water will drain away from the diaphragm seal.

KB Series air horns are cast in light weight corrosion-resistant aluminum. All fasteners are corrosion proof stainless steel. No adjustment to diaphragm is necessary.

They are compliant with collision regulation standards for sound signal appliances at sea (72 COLREGS). These models meet or exceed the current IMO / Coast Guard collision regulations for Class IV; vessel length less than 20m; and Class III vessel length 20m to 75m.

Features and Specifications

- Cast in light weight aluminum
- Corrosion resistant
- Stainless steel fasteners
- Effective range - 1/4 mile (.4km)[1]
- Single tone frequency
- Operating range - 15 to 120 PSIG
- 1/2" (12mm) inlet NPT

Ordering Information

Description	Cat. No.	Frequency (Hz)	dB(c) at 100ft.	Air Consumption cu.ft./ sec (ltr./sec.)
Marine Rated Self-Contained Air Horn	**KMJ-4SC75120VAC**	311	104	3.8 (108)
	KMJ-4SC7524VDC	311	104	3.8 (108)

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions Length (in./cm.)
KMJ-4SC75120VAC	55	31.75/80.6
KMJ-4SC7524VDC	55	29/73.6

[1] Subject to environmental and geographical conditions, these models have a typical effective range of 1/4 mile (.4 km) assuming an ambient background level of 60dB, a line pressure of 60 psi (7.03 kg/sq cm) and temperature of 60°F (15.6°C). Derated per FEMA guidelines @ 10 dB per distance doubled.

Outdoor Warning Systems
Air Horns
KB Series

Photo Not Available

The KB Series air horns generate sound by means of a vibrating diaphragm that modulates the flow of compressed air into a resonating projector. All horn shapes are mathematically calculated to amplify sound while closely retaining its fundamental frequency and natural harmonics.

The signal is designed so that moisture naturally drains away from the diaphragm seat.

Designed for mounting on air supply piping, supplying between 50 and 150 PSIG (3.5 and 10.5 kg/sqcm).

Features and Specifications

- Cast marine aluminum horns - primed and painted
- Stainless steel diaphragm
- Effective range - 1 1/4 mile (2 km)[1]
- Single tone frequency
- Operating range - 50 to 150 PSIG (3.5 to 10.5 kg/sq cm)
- 3/4" (19mm) inlet NPT

Ordering Information

Description	Cat. No.	Frequency (Hz)	dB(c) at 100ft.	Air Consumption cu.ft./sec (ltr./sec.)
Marine Rated Air Horn	**KM-135**	135	121	2.4 (67)
	KM-200	200	118	1.5 (43)
	KM-250	250	119	1.3 (38)

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions Length (in./cm.)
KM-135	45.0	42.13/107
KM-200	40.0	26.75/67.9
KM-250	33.0	21.38/54.3

[1] Subject to environmental and geographical conditions, these models have a typical effective range of 1 1/4 mile (2 km) assuming an ambient background level of 60dB, a line pressure of 100 psi (7.03 kg/sq cm) and temperature of 60°F (15.6°C). Derated per FEMA guidelines @ 10 dB per distance doubled.

Outdoor Warning Systems
Air Horns
KB Series

The KB series generate sound by means of a vibrating diaphragm that modulates the flow of compressed air into a resonating projector. All horn shapes are mathematically calculated to amplify sound while closely retaining its fundamental frequency and natural harmonics.

These horns are suitable for indoor/outdoor applications and for hazardous location use. Volume is adjustable by regulating air pressure.

Designed for mounting on air supply piping, supplying between 50 and 150 PSIG (3.5 and 10.5 kg/sq cm).

Features and Specifications

- High strength aluminum body and projector
- Stainless steel diaphragm
- Machined or spun bell
- Effective range - 1/4 mile (.4 km)[1]

K-1

K-12

K-25

Ordering Information

Description	Cat. No.	Frequency (Hz)	dB(c) at 100ft.	Air Consumption cu.ft./sec (ltr./sec.)
Single Tone Air Horn	**K-1**	311	114	0.50 (14)
	K-2	370	110	0.50 (14)
	K-3	470	113	0.50 (14)
	K-5	622	112	0.50 (14)
Dual Tone Air Horn	**K-12**	311/370	114	1 (28)
	K-25	370/622	115	1 (28)
Dual Tone Air Horn 180° Coverage	**K-12R12**	311/370	115	2 (56)
	K-25R25	370/622	116	2 (56)

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Inlet NPT (in.)	Length (in./cm.)
K-1	9.00	1/2	16.5/41.9
K-2	8.00	1/2	12.88/32.7
K-3	7.00	1/2	10.25/26
K-5	7.00	1/2	7.5/19.1
K-12	18.00	1/2	16.5/41.9
K-25	15.00	1/2	12.88/32.7
K-12R12	30.00	3/4	16.5/41.9
K-25R25	60.00	3/4	12.88/32.7

[1]Subject to environmental and geographical conditions, these models have a typical effective range of 1/4 mile (.4 km) assuming an ambient background level of 60dB, a line pressure of 100 psi (7.03 kg/sq cm) and temperature of 60°F (15.6°C). Derated per FEMA guidelines @ 10 dB per distance doubled.

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Outdoor Warning Systems
Air Horns
KB Series

K4-25

The KB series units are designed for general signaling services and generate sound by means of vibrating diaphragms that modulate the flow of compressed air into resonating projectors. All horn shapes are mathematically calculated to amplify sound while closely retaining its fundamental frequency and natural harmonics.

These horns are suitable for indoor/outdoor applications and for hazardous location use. Volume is adjustable by regulating air pressure.

Designed for mounting on air supply piping, supplying between 50 and 150 PSIG (3.5 and 10.5 kg/sq cm)

Features and Specifications

- High strength aluminum body and projector
- Adjust volume via air pressure
- Stainless steel diaphragm
- Provides complete signaling coverage
- Single or dual tone models
- Effect. range - 3/4 mile (1.2 km)[1]
- Operating range - 50 to 150 PSIG (3.5 to 10.5 kg/sq cm)
- 1 1/4" (32mm) NPT inlet

Ordering Information

Description	Cat. No.	Frequency (Hz)	dB(c) at 100ft.	Air Consumption cu.ft./sec (ltr./sec.)
Single Tone Air Horn	**K4-1**	311	115	2 (56)
Dual Tone Air Horn	**K4-12**	311/370	116	4 (112)
	K4-25	370/622	116	4 (112)

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Length (in./cm.)	Width (in./cm.)
K4-1	46.0	27/68.5	27/68.5
K4-12	68.0	27/68.5	27/68.5
K4-25	60.0	23/58.4	23/58.4

[1]Subject to environmental and geographical conditions, these models have a typical effective range of 1/4 mile (.4 km) assuming an ambient background level of 60dB, a line pressure of 100 psi (7.03 kg/sq cm) and temperature of 60°F (15.6°C). Derated per FEMA guidelines @ 10 dB per distance doubled.

115-116 dB

Outdoor Warning Systems
Air Horns
CA Series

CA

These air horns are for general signaling services. They generate sound by means of a vibrating diaphragm that modulates the flow of compressed air into a resonating projector. All horn shapes are mathematically calculated to amplify sound while closely retaining its fundamental frequency and natural harmonics. All horn frequencies are designed to give balance to any combination of horn tones.

These horns are suitable for indoor/outdoor applications, hazardous location use, and individual equipment and plant warnings. Volume is adjustable by regulating air pressure.

Designed for mounting on air supply piping, supplying between 50 and 150 PSIG (3.5 and 10.5 kg/sq cm). May be bracket mounted using the AC30106 post bracket.

Features and Specifications

- Corrosion resistant cast bronze body
- Stainless steel diaphragm
- Machined or spun bell
- Effective range - 1/4 mile (.4 km)[1]

Ordering Information

Description	Cat. No.	Frequency (Hz)	dB(c) at 100ft.	Air Consumption cu.ft./sec (ltr./sec.)	Air Pressure PSI (Kg/Sq Cm)
Single Tone Machined Horn	**CA**	745	104	0.25 (7.1)	50-150 (5.3-10.5)
Omni-directional 4 Model CA Horn	**CA-4**	745	104	1 (28.4)	50-150 (5.3-10.5)

Accessories

Description	Cat. No.
Post Bracket for Air Horn Cat. No. CA	**AC30106**

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)	Dimensions	
		Inlet NPT (in.)	Length (in./cm.)
CA	4.0	3/8	4.75/12
CA-4	19.0	1/2	11.25/28.6

[1]Subject to environmental and geographical conditions, these models have a typical effective range of 1/4 mile (.4 km) assuming an ambient background level of 60dB, a line pressure of 100 psi (7.03 kg/sq cm) and temperature of 60°F (15.6°C). Derated per FEMA guidelines @ 10 dB per distance doubled.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Outdoor Warning Systems
Control Valves
KB Series

Solenoid and combination solenoid/manual control valves are designed for use with Edwards Airchime air horns.

Features and Specifications

Solenoid Valves
- Local or remote operation
- Class 1, Div, 1, Groups C and D; Class II, Div. 1, Groups E, F and G approvals

Combination Valves
- Manual and solenoid control
- Class 1, Div, 1, Groups C and D; Class II, Div. 1, Groups E, F and G approvals
- Provides for operation in the event of a power failure

Ordering Information

Description	Cat. No.	Operating Voltage	Pipe Thread (in.)
Solenoid Valve	**10746-N5**	120V AC	3/8
	10748-N5	120V AC	1/2
	10750-N5	120V AC	3/4
	10754-N5	120V AC	1 1/4
	10746-G1	24V DC	3/8
	10748-G1	24V DC	1/2
	10750-G1	24V DC	3/4
	10754-G1	24V DC	1 1/4
Solenoid/Manual Valve	**10775-N5**	120V AC	3/8
	10776-N5	120V AC	1/2
	10777-N5	120V AC	3/4
	10778-N5	120V AC	1 1/4
	10775-G1	24V DC	3/8
	10776-G1	24V DC	1/2
	10777-G1	24V DC	3/4
	10778-G1	24V DC	1 1/4

AC DC

UL HAZ-LOC

Outdoor Warning Systems
Control Valves
KB Series

Weights and Dimensions

Cat. No.	Approx. Shipping Weight (lb.)
10746-N5	2.1
10748-N5	2.1
10750-N5	2.1
10754-N5	2.1
10746-G1	2.1
10748-G1	2.1
10750-G1	2.1
10754-G1	2.1
10775-N5	2.1
10776-N5	2.1
10777-N5	2.1
10778-N5	2.1
10775-G1	2.1
10776-G1	2.1
10777-G1	2.1
10778-G1	2.1