



## Genesis® Chimes & Chime/Strobes

***Multi-Candela, Multi-Watt, Field Configurable***

**EG1\*-C & EG1\*-CVM Series**

### FEATURES

- > Unique low-profile design
- > Attractive appearance
- > Ultra-slim - protrudes less than one inch from wall
- > FullLight® Strobe Technology
- > Low current draw
- > 15/30/75/110 candela output
- > Select non-coded (default), temporal, or coded (single-stroke) chime operation
- > Single microprocessor controls both chime and strobe
- > Select high (default) or low dB chime output
- > No visible mounting screws

### AGENCY APPROVALS

- > UL 1971 Listed for the hearing impaired
- > UL 1638 Listed as protective visual signaling appliances
- > UL 464, CE, FCC
- > MEA, FM, CSFM pending

\*Standard models in white. Insert "R" for red, "F" for white with fire marking, "RF" for red with fire marking.

The Genesis line of signals are the smallest, most compact audible-visible emergency signaling devices in the world. Genesis chimes and chime strobes blend with any decor and feature textured housings in neutral white or traditional fire alarm red.

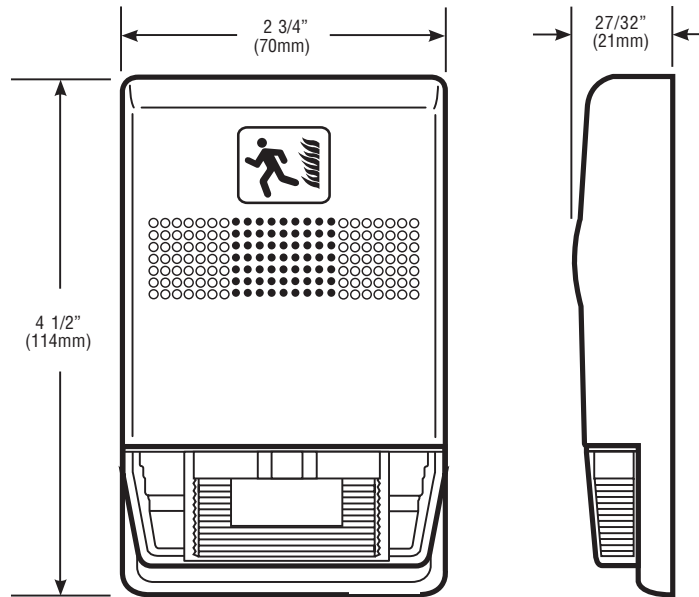
Genesis strobes do not require bulky specular reflectors. Instead, an exclusive mask-and-cavity design channels and conditions light to produce a highly controllable distribution pattern. Intensive development efforts employing this new technology have given rise to a new benchmark in strobe performance – FullLight® technology. This technology produces a smooth light distribution pattern without the spikes and voids characteristic of specular reflectors. This ensures the entire coverage area receives consistent illumination from the strobe flash.

Genesis strobes are self-synchronizing, but when installed with an optional synchronization module, strobe flashes from devices on the same circuit synchronize to within 10 milliseconds of each other *indefinitely*. Chime/Strobes feature 15, 30, 75 or 110 candela output, selectable with a conveniently-located switch on the bottom of the device. Settings are clearly visible even after installation.

Genesis chimes produce a pleasing mellow tone. When steady (non-stroked) voltage is applied, the chime automatically pulses at 60 strokes per minute, 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, which enables the chime output to match the rate that voltage is applied to the circuit. The chime's 79 dBA (peak) output level makes this device suitable for many private mode applications. Chimes may be set for low dB output with a jumper cut that reduces sound output by about 5 dB.



## TECHNICAL INFORMATION



### GENESIS CHIMES & CHIME/STROBES

<b>Housing</b>	Red or white textured UV stabilized, color impregnated engineered plastic. Exceeds 94V-0 UL flammability rating.
<b>Lens</b>	Optical grade polycarbonate
<b>Mounting</b> (indoor wall mount only)	Flush: 2 1/2" (64mm) deep one-gang box Surface: Edwards model 27193 surface mount box, wiremold box, or equivalent surface-mount box With optional trim plate: One-gang, two-gang, four-inch square, octagonal, or European single-gang box
<b>Wire Connections</b>	Screw terminals: separate polarized inputs for speaker & strobe, #18 to #12 AWG (0.75 mm <sup>2</sup> to 2.5 mm <sup>2</sup> ) wire size
<b>Operating Environment</b>	32-120° F (0-49° C) ambient temperature; 93% relative humidity.
<b>Agency Approvals</b>	UL1971, UL1638, UL464, CE, FCC, (MEA, FM, CSFM pending). (All models comply with ADA Code of Federal Regulation Chapter 28 Part 36 Final Rule).
<b>Operating Voltage</b>	EG1-C Series chimes: Non-coded, filtered 16-33V DC or unfiltered 16-33V DC FWR (or coded when chime set to single-stroke operation) EG1-CVM Series chime-strobes: Non-coded, filtered 16-33V DC or unfiltered 16-33V DC FWR (or coded (audible NAC only) when used with optional EG1M Signal Master)
<b>Strobe Output Rating</b>	UL 1971, UL 1638, selectable 15 cd, 30 cd, 75 cd, or 110 cd output
<b>Strobe Flash Rate</b>	One flash per second (fps) with optional EG1M Signal Master indefinitely within 10 milliseconds (or self synchronized within 200 milliseconds over 30 minutes on common circuit without EG1M).
<b>Compatible Sync Module</b>	EG1M-RM
<b>Chime Pulse Rate</b>	Non-coded operation - one stroke per second synchronized with optional EG1M Signal Master, indefinitely within 10 milliseconds (or self-synchronized within 200 milliseconds over thirty minutes on a common circuit without the EG1M Signal Master); coded operation - up to one stroke per second (EG1M Signal Master required)



## Current Draw

Multi-cd Temporal Chime/Strobes (EG1-CVM) Low dB Setting								
UL Nameplate Rating (UL1971 Standard (revised) Effective 5/04)								
	15cd RMS		30cd RMS		75cd RMS		110cd RMS	
16 Vdc	88		123		222		266	
16 Vfwr	134		175		318		363	
Typical Current (Measured by Edwards)								
	15cd		30cd		75cd		110cd	
	RMS	mean	RMS	mean	RMS	mean	RMS	mean
16 Vdc	101	88	137	130	247	243	302	298
20 Vdc	85	76	112	106	194	190	247	243
24 Vdc	75	67	97	92	165	161	205	202
33 Vdc	61	56	77	74	124	121	149	146
16 Vfwr	139	74	187	107	350	209	395	247
20 Vfwr	127	63	164	87	277	162	356	205
24 Vfwr	119	56	152	76	239	133	284	163
33 Vfwr	116	50	139	64	202	101	230	118

Multi-cd Temporal Chime/Strobes (EG1-CVM) High dB Setting								
UL Nameplate Rating (UL1971 Standard (revised) Effective 5/04)								
	15cd RMS		30cd RMS		75cd RMS		110cd RMS	
16 Vdc	99		134		233		277	
16 Vfwr	154		195		338		383	
Typical Current (Measured by Edwards)								
	15cd		30cd		75cd		110cd	
	RMS	mean	RMS	mean	RMS	mean	RMS	mean
16 Vdc	106	92	141	133	255	251	311	307
20 Vdc	94	82	119	112	205	200	257	253
24 Vdc	85	74	105	98	174	170	214	209
33 Vdc	72	63	87	81	137	132	162	158
16 Vfwr	152	80	199	112	356	212	402	251
20 Vfwr	144	70	180	95	300	169	379	218
24 Vfwr	140	65	170	84	262	143	312	174
33 Vfwr	140	59	162	73	223	111	256	131

Wall Chimes (EG1-C) UL Nameplate Rating (UL1971, Effective 5/04)		
	High dB	Low dB
	RMS	RMS
16 Vdc	30	19
24 Vdc	43	26
33 Vdc	45	27
16Vfwr	60	40
24 Vfwr	76	49
33 Vfwr	81	55

Wall Chimes (EG1-C) Typical Current				
	High dB		Low dB	
	RMS	Mean	RMS	Mean
16 Vdc	32	23	20	16
20 Vdc	41	29	24	19
24 Vdc	44	32	26	20
33 Vdc	46	34	27	22
16 Vfwr	65	29	43	19
20 Vfwr	75	32	48	21
24 Vfwr	77	33	51	22
33 Vfwr	84	36	56	23

### CURRENT DATA NOTES & COMMENTS

- Current values are shown in mA.
- UL Nameplate Rating can vary from Typical Current due to measurement methods and instruments used.
- Edwards recommends using the Typical current for system design including NAC and Power Supply loading and voltage drop calculations.
- Use the Vdc RMS current ratings for filtered power supply and battery AH calculations. Use the Vfwr RMS current ratings for unfiltered power supply calculations.
- Fuses, circuit breakers and other overcurrent protection devices are typically rated for current in RMS values. Most of these devices operate based upon the heating affect of the current flowing through the device. The RMS current (not the mean current) determines the heating affect and therefore, the trip and hold threshold for those devices.
- Our industry has used 'mean' currents over the years. However, UL will direct the industry to use the 2004 RMS values in the future.

## Chime dBA Output

Wall Chimes (EG1-C & EG1-CVM)						
	UL464		Average		Peak	
	High	Low	High	Low	High	Low
16 Vdc	58.2	52.8	66.1	61	77	72.8
24 Vdc	60.8	55.6	67.8	63.2	78.6	74.7
33 Vdc	61.3	56.1	68.1	63.7	79.4	75.9

### NOTES

- All values shown are measured at 10 feet (3.01m).
- UL464 values measured in reverberation room.
- Average and peak values are measured in anechoic chamber.



## INSTALLATION

Genesis chimes and strobes mount to any standard one-gang surface or flush electrical box. Matching optional trim plates are used to cover oversized openings and can accommodate one-gang, two-gang, four-inch square, or octagonal boxes, and European 100 mm square.



Genesis Chime-strobe with optional trim plate

All Genesis signals come pre-assembled with captive mounting screws for easy installation. Two

tabs at the top of the signal unlock the cover to reveal the mounting hardware. The shallow depth of Genesis devices leaves ample room behind the signal for extra wiring. Once installed with the cover in place, no mounting screws are visible.

## FIELD CONFIGURATION

Genesis strobes and chime-strobes may be set for 15, 30, 75, or 110 candela output. The output setting is changed by simply opening the device and sliding the switch to the desired setting. The device does not have to be removed to change the output setting. The setting remains visible through a small window on the side of the device after the cover is closed.

Chimes and chime-strobes are factory set for high dB output. Optional low dB output may be selected by cutting a jumper on the circuit board. This reduces the audible output by about 5 dB. A second jumper cut changes the chime output from the factory set rate of 60 strokes per minute to three-pulse temporal output.

Chimes may also be configured for single-stroke coded operation. This operates the chime once each time voltage is applied to the circuit. Voltage must be discontinued and then re-applied to operate the chime again. These optional coders produce a predetermined pattern of audible signals. A Genesis Signal Master is required when chimes are configured for coded operation.

## WIRING

Field wiring terminals accommodate #18 to #12 AWG (0.75 mm<sup>2</sup> to 2.5 mm<sup>2</sup>) wiring. Chimes, strobes, and combination chime-strobes are interconnected with a single pair of wires.

## ORDERING INFORMATION

Catalog Number		Description
White	Red	
EG1-CVM	EG1R-CVM	Genesis Chime/Strobe (selectable 15, 30, 75, or 110 cd output, selectable high/low dB output)
EG1-C	EG1R-C	Genesis Chime (selectable high/low dB output)
EG1F-C	EG1RF-C	Genesis Chime/Strobe (selectable 15, 30, 75 or 110 cd output, selectable high/low dB output) with "FIRE" marking
Mounting Accessories		
EG1T	EG1RT	Genesis Trim Plate (for two-gang or 4" square boxes)
EG1T-FIRE	EG1RT-FIRE	Genesis Trim Plate (for two-gang or 4" square boxes) with "FIRE" markings
27193-16	27193-11	One-gang surface mount box
Synchronization Modules		
EG1M		Genesis Signal Master - Snap-on Mount
EG1M-RM		Genesis Signal Master - Remote Mount (1-gang)