Field Programmable Electronic Horn/Strobe

2452THS

FEATURES

- Synchronized audible & synchronized visual signal
- Supervised wiring
- Terminals for easy wiring
- Red or white flame resistant housing
- Strobe available in 15/75, and 110 candela models
- Engineered thermoplastic housing UL flame rated 94V-0

AGENCY APPROVALS

- UL 1971 Listed
- UL 1638 Listed
- UL 464 Listed
- CSFM Listed

The Edwards 2452THS Series temporal horn/strobe are especially designed for use with compatible life safety communication and control equipment to alert occupants of a life safety event. The horn emits a piercing low frequency sound that is easily heard above moderate ambient noise levels. The flash from its strobe can be noticed from almost any position in the room, corridor, or large open space.

Its rugged plastic housing is made from durable and fire retardant, high impact plastic with a slightly textured surface. Its ingenious mounting plate firmly holds the device in place with a single screw.

HORN: During installation, the horn is configured for steady or temporal tone signal and either low (94 dBA) or high (98 dBA) output. When temporal output is selected all horns on a common two-wire circuit are self-synchronized. External control modules are not required for audible synchronization.

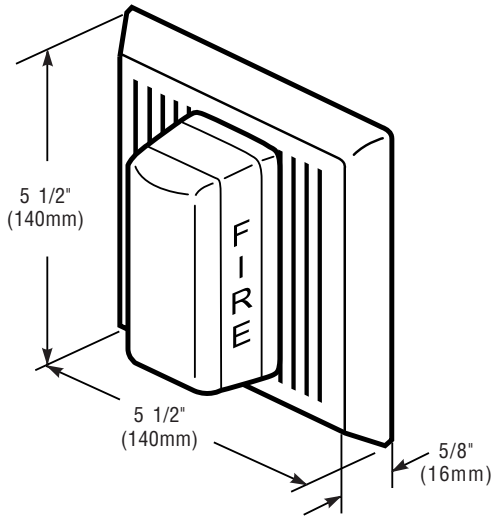
STROBE: The strobe exceeds UL synchronization requirements (within 10 milliseconds over a two-hour period) when used with a separately installed EG1M Signal Master. Fully compatible with Genesis signals.

Synchronization is important because a small portion of the population have a condition which may cause them to become disoriented from multiple random flashes of light. This strobe minimizes the risk.

The 2452THS horn/strobe is for use in rest rooms, meeting rooms, lobbies, hallways, sleeping rooms or work areas intended for use by the hearing impaired, or any area where a visual alarm signal is required.

Edwards Signaling & Security Systems®

TECHNICAL INFORMATION



Catalog Number	2452THS-15/75-R (red) & 2452-15/75-W (white)	2452THS-110-R (red) & 2452THS-110-W (white)
Light Output (cd) **UL 1638/ULC S526** **UL 1971**	 75 cd 15 cd wall 15 cd ceiling	 110 cd 110 cd wall 60 cd ceiling
Mean operating current [1, 2]	96mA @ 24VDC 115mA @ 20VDC	197mA @ 24VDC 241mA @ 20VDC
Peak operating current [2]	277mA @ 20V DC	402mA @ 20VDC
Mean operating current FWR [3]	79mA @ 24VDC 97mA @ 20VDC	286mA @ 24VDC 202mA @ 20VDC
Peak operating current FWR [3]	446mA @ 20VDC	868mA @ 20VDC
Stand-alone Synchronization Characteristics [5]	Strobe flash at 1 per second within 200 milliseconds on common circuit Horn pulses at temporal rate within 200 milliseconds on common circuit	
Operating Voltage	Strobe: 20-24V DC continuous; Horn: 20-31V DC continuous	
Horn Output [4]	Anechoic: High setting - 104 dBA (peak)/98 dBA (avg); Low setting - 99 dBA (peak)/94 dBA (avg) Reverberant: High setting - 85 dBA (continuous)/82 dBA (temporal); Low setting - 82 dBA (continuous)/75 dBA (temporal)	
Horn Current	High output: 40 mA @ 24V DC; 55mA @ 24 Vrms FWR; Low output: 20 mA @ 24V DC; 28 mA @ 24 Vrms FWR	
Strobe Flash Synchronization	Synchronized at one flash per second. External control module necessary to meet UL 1971 synchronization requirements of 10 milliseconds over a two-hour period	
Compatible Synchronization Modules	EG1M, EG1M-RM	
Flash Tube Enclosure	Clear LEXAN with white marking sleeve	
Housing	Textured, color impregnated engineered plastics - exceeds 94V-O UL flammability rating	
Wire Connections	Terminals - separate, polarized inputs for Horn & Strobe, #12 AWG (2.5mm^2) maximum	
INDOOR Operating Environment	32-120°F (0-49°C) ambient temperature, 93% relative humidity @ 40°C	
OUTDOOR Operating Environment (must use weatherproof box)	98% relative humidity @ 40°C; -35-150°F (-31-66°C) ambient temperature (2452THS-15/75 rated at 17.7 cd @ -35°C per UL/@ -40°C per ULC) (2452THS-110 rated at 70.7 cd @ -35°C per UL/@ -40°C per ULC)	

Note 1 - Use the mean current rating to establish the maximum number of strobes, wire gauge and standby power requirements. 2400 Series uses 24V DC. FireShield uses 24V DC FWR. **Note 2** - From a FILTERED DC source. **Note 3** - From an UNFILTERED (Full Wave Rectified) DC source. **Note 4** - Measurement at 10 ft (3m) @ 24V DC. Subtract 3 dBA for models with strobes. **Note 5** - Temporal audible pattern is defined as: 1/2 sec ON, 1/2 sec OFF, 1/2 sec ON, 1/2 sec OFF, 1/2 sec ON, 1/2 sec OFF, then repeat cycle.