Features

- Synchronized audible & synchronized visual signal
- Supervised wiring
- Terminals for easy wiring
- · Red or white flame resistant hous-
- Strobe available in 15, 30, 15/75, and 110 candela models

Description

The Edwards 2452THS series is a low current, high decibel, high quality notification appliance intended for use in fire alarm applications. The unit is a self-synchronized, temporal-audible and synchronized visual signal that meets the requirements of NFPA 72. It is suitable for wall or ceiling mounting in outdoor or indoor applications. Both output level and sound pattern are field selectable. The unit comes factory set for a temporal signal with a 102 dB output.

Agency Approvals

- UI 1971 Listed
- UL 1638 Listed
- UL 464 Listed
- CSFM Listed
- Engineered thermoplastic housing UL flame rated 94V-0

Specifications

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- · Horn output: selectable 98 or 102dB
- · Horn pattern: selectable temporal pattern or continuous
- Temporal horn pattern: 1/2 sec on, 1/2 sec off, 1/2 sec on, 1/2 sec off, 1/ 2 sec on, 1 1/2 sec off, repeat cycle
- Strobe flashes at 1 fps synchronized
- · Operating voltage: 24V DC (-20% to +10% of nominal

- Horn may be connected to continuous or pulsed voltage when set to sound the continuous pattern
- Strobe must always be connected to a continuous voltage
- Indoor Operating Environment: 85% relative humidity at 86°F (30°C): 32°F to 120°F (0° to 49°C) variable ambient
- Outdoor Operating Environment: 95% relative humidity at 86°F (30°C); -31°F to 150°F (-35° to 66°C) variable ambient

Installation

The 2452THS is designed for indoor or outdoor wall or ceiling mounting. For flush mounting use a 4" (102mm) square box with a minimum depth of 2 1/8" (38mm). For surface mounting, use Cat. No. 2459-SMB-R (red) or 2459-SMB-W (white) surface mount box. For weatherproof mounting, use weatherproof surface box Cat. No. 2459-WPB-R (red) or 2459-WPB-W (white).

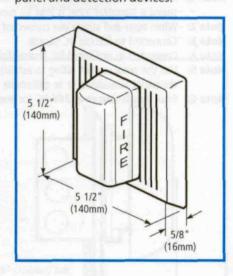
See Strobe Application Data, page 12-38, for the following: sizing wall and ceiling mounted strobes to room size, mounting strobes in corridors, and mounting strobes in sleeping rooms.

See System Design Criteria on page



Applications

The 2452THS horn/strobe is an audible/visual signaling appliance for installations that operate in conjunction with an installed fire alarm panel and detection devices.



Catalog Numbers

| Color | Candela Rating |
|-------|---|
| Red | 15 |
| White | 15 |
| Red | 15/75 |
| White | 15/75 |
| Red | 30 |
| White | 30 |
| Red | 110 |
| White | 110 |
| | Red White Red White Red White Red |

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Specification Information for 2452THS Horn/Strobes

| Tone | Temporal | | Continuous | | |
|--|--|---|--|---|--|
| Operating Voltage (1) | 20 to 24V DC | 20 to 24V FWR | 20 to 24V DC | 20 to 24V FWR | |
| Operating Current - Horn (2) | Low High Volume Volume 20 mA 40 mA | Low High Volume Volume 23 mA 52 mA | Low High Volume Volume 20 mA 40 mA | Low High Volume Volume 23 mA 52 mA | |
| Horn Synchronization | Pulses at temporal rate within 200 ms on common circuit* | | | | |
| Strobe Flash Rate (per second) | 1 fps (synchronized) | | | | |
| Sound Level Output at 10 ft. (3.05 m) Anechoic - Peak at 24V DC Anechoic - Average at 24V DC Reverberant Room per UL 464 at 24V DC ULI at 20V DC | Low Volume 98 dBA 93 dBA 75 dBA 75 dBA | High Volume 102 dBA 97 dBA 79 dBA 79 dBA | Low Volume 98 dBA 93 dBA 79 dBA 79 dBA | High Volume 102 dBA 97 dBA 85 dBA 82 dBA | |
| Light Output (cd) UL 1971 UL 1638 ULC S526 | 2452THS-15 15 cd wall mount only 15 cd 15 cd | 2452THS-30 30 cd wall 15 cd ceiling 30 cd 30 cd | 2452THS-15/75 15 cd wall 15 cd ceiling 75 cd 75 cd | 2452THS-110 110 cd wall 60 cd ceiling 120 cd 120 cd | |
| Operating Current - Strobe (2) | · This to pile th | को सम्बद्धान अस्ति । | -audd Imeasters | mali spirity to be | |
| Average operating current (3,5) | 70mA @ 24VDC 79mA @ 20VDC | 105mA @ 24VDC 125mA @ 20VDC | 105mA @ 24VDC 125mA @ 20VDC | 219mA @ 24VDC 272mA @ 20VDC | |
| Peak operating current (3,5) | 125mA @ 20VDC | 185mA @ 20VDC | 185mA @ 20V DC | 340mA @ 20VDC | |
| Peak operating current (4,5) | 375mA @ 20VDC | 530mA @ 20VDC | 530mA @ 20VDC | 910mA @ 20VDC | |
| Peak inrush current (6) | 7.6A @ 24VDC | 7.6A @ 24VDC | 7.6A @ 24VDC | 7.8A @ 24VDC | |

Note 1: The strobe must be connected to a continuous voltage. The horn must be connected to a continuous voltage when it is set to sound a temporal tone; it may be connected to either a pulsed or continuous voltage when set to sound a steady tone.

Note 2: When horn and strobe are connected in parallel to the same circuit the currents for each must be added together.

Note 3: Connected to filtered DC source.

Note 4: Connected to unfiltered DC source (full wave rectified).

Note 5: Use the peak current rating to establish the maximum number of strobes, wire gauge, and standby power requirements. Consult the panel manufacturer to determine the maximum number of strobes for each signaling circuit.

Note 6: Peak inrush current at 24V DC for less than 50 microseconds.