Series E
Speaker/Strobes



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5741ss90.jpg

Description

Series E low-profile speaker/strobes are designed for high-efficiency sound output, with dual voltage capability (25/70 VRMS) and field-selectable taps from 1/8 to 2 watts. The low-profile design incorporates a speaker mounting plate for faster and easier installation. Each model has a built-in level adjustment feature and an attractive grille cover with two flush screws.

The Series E speaker/strobe models incorporate the low-current, zero-inrush, Series RSS non-sync/sync strobe. Strobe options include 15/75 cd or multi-candela strobe with field-selectable candela settings of: 15, 30, 75, or 110 cd (wall); or 15, 30, 75, or 95 cd, or 115/177 cd (ceiling, depending on model).

Series E speaker/strobes provide high audio output with clear audibility, and are designed to meet the critical needs of the life safety industry for effective emergency voice communications, tone signaling, and visible signaling to alert the hearing impaired. The strobe portion of all Series E speaker/strobes may be synchronized when used in conjunction with the SM or DSM (P/N 71548, 71549) sync modules or the Gamewell FF8 power supply. Synchronized strobes offer an easy way to comply with ADA recommendations concerning photosensitive epilepsy. Series E speaker/strobes are listed for indoor use, with a temperature range of 32°F to 120°F (0°C to 49°C) and a maximum humidity of 85%.

Architectural/Engineering Specifications

The speaker appliances shall be Series E speaker/strobes. The speakers shall be UL Listed under Standard 1480 for Fire Protective Service; speaker appliances equipped with strobes shall additionally be Listed under UL Standard 1971, Emergency Devices for the Hearing Impaired. In addition, the strobes shall be certified to meet the requirements of FCC Part 15, Class B.

All speakers shall be designed for a field-selectable input of either 25 or 70 VRMS, with selectable power taps from 1/8 watt to 2 watts. All models shall have a Listed sound output of up to 87 dB at 10 feet (3.048 m), and a Listed frequency response of 400 to 4000 Hz. The speaker shall incorporate sealed back construction. All inputs shall employ terminals that accept 12 AWG to 18 AWG (3.1 to 0.78 mm²) wire. The strobe portion of the appliance shall produce a flash rate of one flash per second over the regulated voltage range and shall incorporate a Xenon flashtube enclosed in a rugged LEXAN® lens. The strobe shall be of low-current design. Where multiple-candela speaker/strobes are specified, the strobe intensity shall be rated per UL 1971 for 15, 30, 75, or 110 candela for wall-mount applications; and 15, 30, 75, or 95 candela, or for 115/177 candela, for ceiling-mount applications (depending on model). The selector switch for selecting the candela shall be

Features

- Wall-mount models available with field-selectable candela settings of 15/30/75/110 cd on multi-candela models, or 15/75 cd on non-selectable model.
- Ceiling-mount multi-candela models are available with field-selectable candela settings of 15/30/75/95 cd or 115/177 cd, depending on model.
- Strobes produce one flash per second over the regulated voltage range.
- Zero inrush above peak.
- Strobes operate at 24 VDC with wide UL "regulated voltage" using filtered DC or unfiltered VRMS input voltage.
- Synchronize strobes with SM or DSM sync modules (P/N 71548, 71549) or FF8 power supply with built-in sync protocol.
- Field-selectable taps for 25 or 70 VRMS operation from 1/8 watt to 2 watts.
- High-efficiency design for maximum output at minimum wattage across a frequency range of 400 to 4000 Hz.
- Fast installation with in/out screw terminals using 12 to 18 AWG (3.1 to 0.78 mm²) wires.

Speaker/strobe sound output

- 1/8 watt: 77.5 dBA @ 10 ft (3.048 m).
- 1/4 watt: 80.4 dBA @ 10 ft (3.048 m).
- 1/2 watt: 83.2 dBA @ 10 ft (3.048 m).
- 1.0 watt: 85.7 dBA @ 10 ft (3.048 m).
- 2.0 watt: 87.8 dBA @ 10 ft (3.048 m).

Average RMS current for multi-candela models

- Wall, 15 cd @ 24 VDC: 0.041 A.
- Wall, 15/75 cd @ 24 VDC: 0.064 A.
- Wall, 30 cd @ 24 VDC: 0.065 A.
- Wall, 75 cd @ 24 VDC: 0.116 A.
- Wall, 110 cd @ 24 VDC: 0.155 A.
- Ceiling, 15 cd @ 24 VDC: 0.045 A.
- Ceiling, 30 cd @ 24 VDC: 0.072 A.
- Ceiling, 75 cd @ 24 VDC: 0.128 A.
- Ceiling, 95 cd @ 24 VDC: 0.171 A.
- Ceiling, 115 cd @ 24 VDC: 0.195 A.
- Ceiling, 177 cd @ 24 VDC: 0.270 A.

Listings

- UL 1971, 1480 Listed.
- CSFM, MEA (NYC) and BFP (City of Chicago) approved.
- Meets ADA accessibility guidelines.
- Meets FCC Part 15.
- Meets OSHA 29, Part 1910.165.

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tamper resistant. The 15/75 candela wall strobe shall be specified when 15 candela UL 1971 Listing with 75 candela intensity on-axis is required (e.g., ADA compliance). When synchronization is required, the strobe portion of the appliance shall be compatible with SM and DSM (P/N 71548, 71549) sync modules and the Gamewell FF8 power supply with built-in sync protocols. The strobes shall not drift out of synchronization at any time during operation. If the sync module or power supply fails to operate (i.e., contacts remain closed), the strobes shall revert to a non-synchronized default flash rate of one flash per second.

The speaker/strobe appliances shall be designed for indoor surface- or flush-mounting. The speaker/strobes shall incorporate a speaker mounting plate with a grille cover, which is secured with two screws for a level, aesthetic finish. Speaker/strobes shall mount to standard electrical hardware requiring no additional trimplate or adapter. Speaker/strobes shall be finished in a textured red or white color. All speaker/strobe appliances shall be backward compatible.

Ordering Information

All 24 V models below feature field-selectable taps for 25 or 70 V_{RMS} operation, from 1/8 watt to 2 watts.

72045 Wall-mount multi-candela (15, 30, 75, 110) speaker/strobe, 24 VDC, square, red (**E70-24MCW-FR**).

72046 Wall-mount multi-candela (15, 30, 75, 110) speaker/strobe, 24 VDC, square, white (**E70-24MCW-FW**).

71745 15/75-candela speaker/strobe, wall-mount, 24 VDC, 0.064 A, square, red (**E70-241575W-FR**).

72285 Ceiling-mount multi-candela (15, 30, 75, 95) speaker/strobe, 24 VDC, round, white (**E90-24MCC-FW**).

72286 Ceiling-mount multi-candela (115, 177) speaker/strobe, 24 VDC, round, white (**E90-24MCCH-FW**).

Sync modules, power supply

71548 SM sync module, single-circuit Class B, rated for 3.0 A @ 24 VDC (**SM-12/24-R**).

71549 DSM sync module, single-circuit Class A or multiple-circuit Class B, rated for 3.0 A per circuit. The maximum number of interconnected modules is 20 (**DSM-12/24-R**).

FF8 FireForce 8, NAC expander/power supply. 12/24 VDC, 8.0 A, 4 NACs, built-in sync protocols. *See data sheet CS-2282.*

Mounting accessories for Series E speaker/strobes

70418 Surface-mount backbox, 5.5" (13.970 cm) x 5.563" (14.129 cm) x 3.563" (9.049 cm), red (**SBB-R**).

71317 Extender, molded, 5.25" (13.335 cm) square 0.781" (1.984 cm) deep, red (**ISP-R**).

71318 Retrofit plate, 8.0" (20.320 cm) x 5.875" (14.923 cm) x 0.406" (1.032 cm) deep, red (**RP-R**).

68292 Semi-flush plate, 6.0" (15.240 cm) square x 0.313" (0.794 cm) deep, red (**SFP-R**).

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