

E70 Multi-candela, Wall-mount, Low-profile Speaker Strobes

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Invented for life



- ▶ 24 VDC, filtered or unfiltered
- ▶ Field-selectable candela settings (15 cd, 30 cd, 75 cd or 110 cd)
- ▶ ADA, NFPA, ANSI compliant
- ▶ Compatible with SM and DSM Synchronization Modules
- ▶ Low average current draw

The E70 Multi-candela Speaker Strobes provide high audio output with clear audibility, and four field-selectable light intensity settings (15 cd, 30 cd, 75 cd or 110 cd). They 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. These notification appliances provide a way to alert hearing impaired persons of an alarm condition, and are well-suited for areas of public gathering such as stores, schools, hospitals, nursing homes and offices. A speaker mounting plate with a built-in level adjustment allows for a faster and easier installation. The two-screw grill cover creates an attractive appearance.

The high-efficiency speakers are designed for maximum output at a minimum wattage across a frequency range of 400 Hz to 4 kHz.

When used with the SM (single) or DSM (dual) Synchronization Modules, the strobe produces a synchronized flash for compliance with ADA guidelines concerning photosensitive epilepsy. All strobe input is

compatible with standard reverse polarity type supervision of circuit wiring by a fire alarm control panel (FACP).

Certifications and approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

| Region | Certification | |
|--------|---------------|--|
| USA | UL | UUKC: Signaling Appliances and Equipment for the Hearing Impaired (UL1971), UUMW: Speakers and Amplifiers for Fire Protective Signaling Systems (UL1480, UL1711, and UL2043) |
| | CSFM | see our website |

Installation/configuration notes

Compatible Products

The following products are compatible with the E70 Speaker Strobes:

| Category | Product ID | Product Description |
|----------------|-----------------------|-----------------------------------|
| Control Panels | D7022 ¹ | Conventional FACP |
| | D7024 ² | Addressable FACP |
| | D7024 | Conventional FACP |
| | D8024 ¹ | Analog FACP |
| | D9124 ¹ | Addressable FACP |
| | D10024A ¹ | Analog FACP |
| | FPD-7024 ² | Addressable FACP |
| | FPD-7024 | Conventional FACP |
| Modules | FPA-1000 | Analog Addressable FACP |
| | SM-12/24-R | Synchronization module (red) |
| | DSM-12/24-R | Dual synchronization module (red) |

These speakers are compatible with Wheelock SAFEPATH4 Facility Communication Systems and Bosch Voice Evacuation Systems.

¹ For synchronization, use the SM or DSM modules with these control panels. The synchronization module must be set for 24 V operation. When used, the D7022 must be set for 24 VDC operation.

² When used with a D7039 Multiplex Expansion Module, the D7024 and FPD-7024 become addressable fire alarm control panels (FACPs).

Mounting

The low profile design of these notification appliances creates more wiring space in standard electrical back boxes. The speaker mounting plate incorporates a built-in level adjustment feature allowing for a faster and easier installation.

These speaker strobes wall mount on the indicated back boxes for the indicated applications:

| | Conduit Applications | Surface Mounted | Flush Mounted |
|-------------------|----------------------|-----------------|---------------|
| Four-inch square* | | | • |
| SBB Back Box | • | • | |

* Requires an SER extension ring.

Wiring

Notice

Do not use the strobe unit in coded or pulsed signaling circuits.

The input terminals accept wires with diameters between 18 AWG and 12 AWG (ISO 0.75 mm² and 4 mm²).

Parts included

| Quant. | Component |
|--------|----------------|
| 1 | Speaker Strobe |

| | |
|---|-----------------|
| 1 | Mounting Plate |
| 1 | Hardware pack |
| 1 | Literature pack |

Technical specifications

Electrical

Strobe Current (RMS maximum)

| | |
|-------|--|
| VDC: | 15 cd = 60 mA; 30 cd = 92 mA; 75 cd = 165 mA; 110 cd = 220 mA |
| VFWR: | 15 cd = 102 mA; 30 cd = 155 mA; 75 cd = 253 mA; 110 cd = 347 mA |

Voltage (input)

| | |
|----------|--------------------------------|
| Nominal: | 24 VDC |
| Range: | 16 VDC or FWR to 33 VDC or FWR |

Environmental

| | |
|--------------------------|-------------------------------|
| Relative Humidity: | Up to 85%, non-condensing |
| Temperature (Operating): | +32°F to +120°F (0° to +49°C) |

Mechanical

| | |
|-------------------------|--|
| Dimensions (H x W x D): | 5.1 in. x 5.1 in. x 5.2 in. (13.0 cm x 13.0 cm x 13.3 cm) |
| Material: | Molded plastic enclosure incorporating a Xenon flashtube and Lexan lens. |
| Candela Selections: | 15 cd, 30 cd, 75 cd, or 110 cd |

Speaker Volume at 10 ft (3 m)

| | |
|----------------|----------|
| 0.125 (1/8) W: | 77.5 dBA |
| 0.25 (1/4) W: | 80.4 dBA |
| 0.5 (1/2) W: | 83.2 dBA |
| 1 W: | 85.7 dBA |
| 2 W: | 87.8 dBA |

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information

E70-24MCW-FN Low-Profile Speaker Strobe (nickel)

Nickel finish, 24 VDC device with high-efficiency sound output, dual voltage capability (25 VRMS or 70 VRMS), field-selectable taps from 1/8 W to 2 W, and strobe intensities of 15 cd, 30 cd, 75 cd, or 110 cd

Order number **E70-24MCW-FN**

E70-24MCW-FR Low-Profile Speaker Strobe (red)

Red, 24 VDC device with high-efficiency sound output, dual voltage capability (25 VRMS or 70 VRMS), field-selectable taps from 1/8 W to 2 W, and strobe intensities of 15 cd, 30 cd, 75 cd, or 110 cd
 Order number **E70-24MCW-FR**

E70-24MCW-FW Low-Profile Speaker Strobe (white)

White, 24 VDC device with high-efficiency sound output, dual voltage capability (25 VRMS or 70 VRMS), field-selectable taps from 1/8 W to 2 W, and strobe intensities of 15 cd, 30 cd, 75 cd, or 110 cd
 Order number **E70-24MCW-FW**

Accessories**ISP2-R Surface Adapter (red)**

13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep
 Order number **ISP2-R**

ISP2-W Surface Adapter (white)

13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep
 Order number **ISP2-W**

RP-R Retrofit Plate (red)

20.3 cm (8 in.) high, 14.9 cm (5.875 in.) wide.
Not Available.
 Order number **RP-R**

SBB-R Surface-mount Back Box (red)

14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)
 Order number **SBB-R**

SBB-W Surface-mount Back Box (white)

14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)
 Order number **SBB-W**

SER-R Square Semi-flush Extension Ring (red)

12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep
 Order number **SER-R**

SER-W Square Semi-flush Extension Ring (white)

12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep
 Order number **SER-W**

SFP-R Semi-flush Plate (red)

15.2 cm (6 in.) square by 0.8 cm (0.3125 in.) thick
 Order number **SFP-R**

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