



Indoor Selectable Output Speaker Strobes and Dual Voltage Evacuation Speakers

The new SpectrAlert® Advance selectable output speaker strobes and dual evacuation speakers can reduce ground faults and allow faster installation.

Features

- Plug-in design
- Protective cover isolates speaker components, reduces ground faults
- Electrical compatibility with existing SpectrAlert products
- Field selectable candela settings on wall and ceiling units:
Standard: 15, 15/75, 30, 75, 95, 110, 115
High: 135, 150, 177, 185
- Shorting spring on mounting plate tests continuity before installation
- Rotary switch simplifies field selection of speaker voltage (25 and 70.7 Vrms) and power settings (¼, ½, 1 and 2 watts)
- Universal mounting plate for wall- and ceiling-mount units
- Compatible with System Sensor synchronization protocol
- SP speakers offer high fidelity sound output
- SPV speakers offer high volume sound output
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- No extension ring required
- Ceiling and wall mount application
- Optional tamper resistant Torx head screw included

Agency Listings



SPECTRAlert
ADVANCE
from System Sensor

The SpectrAlert Advance Series of speakers and speaker strobes is designed to reduce ground faults. The plug-in design allows the installer to pre-wire mounting plates and dress the wires before plugging in the speakers. The plastic cover prevents nicked wires by covering exposed speaker components.

This design also allows faster installations with instant feedback to ensure that wiring is properly connected, rotary switches to select voltage and power settings, and 11 field selectable candela settings for wall and ceiling speaker strobes.

The low total harmonic distortion of the SP speaker offers high fidelity sound output while the SPV speaker offers high volume sound output for use in high ambient noise applications.

SpectrAlert Advance makes installation easy

- Attach a universal mounting plate to a 4 × 4 × 2⅞ inch back box. Flush mount applications are achievable without the need for an extension ring.
- Connect the notification appliance circuit or speaker wiring to the terminals on the mounting plate.
- Attach the speaker or speaker strobe to the mounting plate by inserting the product tabs into the mounting plate grooves. Rotate the device into position to lock the product pins into the mounting plate terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

SpectrAlert Advance Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General

SpectrAlert Advance speaker and speaker strobes shall mount to a 4 × 4 × 2¹/₈-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance speaker strobes, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between nine and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32°F and 120°F from a regulated DC, or full-wave rectified, unfiltered power supply. Speaker strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

Speaker

The speaker shall be a System Sensor SpectrAlert Advance model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. It should be listed to UL 1480 and shall be approved for fire protective service. The speaker shall have a frequency range of 400 to 4000 Hz and shall have an operating temperature between 32°F and 120°F. Speaker shall have power taps and voltage that are selected by rotary switches.

Speaker Strobe combination

The speaker strobe shall be a System Sensor SpectrAlert Advance model _____ listed to UL1480 and UL 1971 and be approved for fire protective signaling systems. Speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4000 Hz. Speaker shall have power taps which are selected by rotary switch. The strobe shall comply with the NFPA72 requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1Hz. The module shall mount to a 4¹¹/₁₆ × 4¹¹/₁₆ × 2¹/₈-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical Specifications

| | |
|----------------------------------|---|
| Operating Temperature | 32°F to 120°F (0°C to 49°C) |
| Humidity Range | 10 to 93% non-condensing |
| Dimensions, Wall-Mount | |
| SPS Speaker Strobe | 6.0 in L × 5.0 in W × 4.7 in D (including lens and speaker) |
| SPSV Speaker Strobe | 6.0 in L × 5.0 in W × 4.9 in D (including lens and speaker) |
| SP Speaker | 6.0 in L × 5.0 in W × 2.8 in D |
| SPSV Speaker | 6.0 in L × 5.0 in W × 2.9 in D |
| Dimensions, Ceiling-Mount | |
| SPS Speaker Strobe | 6.8 in Dia. × 4.7 in D (including lens and speaker) |
| SPSV Speaker Strobe | 6.8 in Dia. × 4.8 in D (including lens and speaker) |
| SP Speaker | 6.8 in Dia. × 2.8 in D |
| SPV Speaker | 6.8 in Dia. × 2.9 in D |

Electrical/Operating Specifications

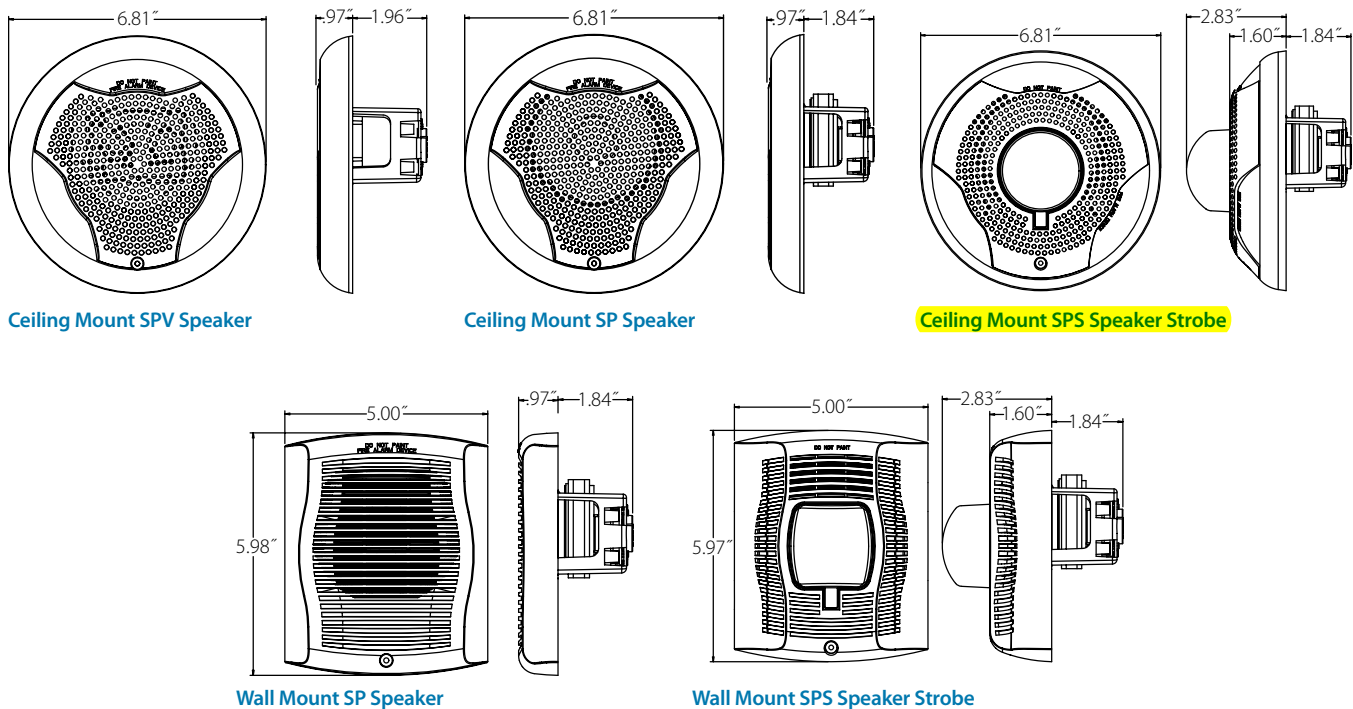
| | |
|---|--|
| Nominal Voltage (speakers) | 25 Volts or 70.7 Volts (nominal) |
| Maximum Supervisory Voltage (speakers) | 50 VDC |
| Strobe Flash Rate | 1 flash per second |
| Nominal Voltage (strobes) | Regulated 12 VDC/FWR or regulated 24 DC/FWR |
| Operating Voltage Range (includes fire alarm panels with built in sync) | 8 to 17.5 V (12 V nominal) or 16 to 33V (24 V nominal) |
| Operating Voltage with MDL Sync Module | 9 to 17.5 V (12 V nominal) or 17 to 33V (24 V nominal) |
| Frequency Range | 400 to 4000 Hz |
| Power | ¼, ½, 1, 2 watts |

UL Current Draw Data

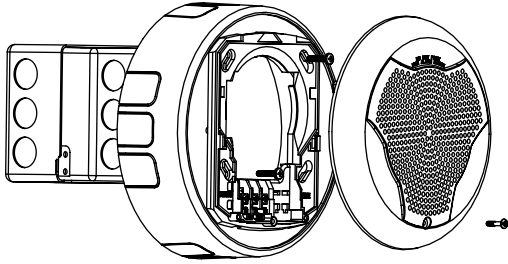
| UL Max. Strobe Current Draw (mA RMS) | | | | | |
|--------------------------------------|---------|-----------------|-----|----------------|-----|
| | Candela | 8 to 17.5 Volts | | 16 to 33 Volts | |
| | | DC | FWR | DC | FWR |
| Standard Candela Range | 15 | 123 | 128 | 66 | 71 |
| | 15/75 | 142 | 148 | 77 | 81 |
| | 30 | NA | NA | 94 | 96 |
| | 75 | NA | NA | 158 | 153 |
| | 95 | NA | NA | 181 | 176 |
| | 110 | NA | NA | 202 | 195 |
| | 115 | NA | NA | 210 | 205 |
| High Candela Range | 135 | NA | NA | 228 | 207 |
| | 150 | NA | NA | 246 | 220 |
| | 177 | NA | NA | 281 | 251 |
| | 185 | NA | NA | 286 | 258 |

| Sound Output | | | | | |
|-------------------------------|----|----|-----|-----|--|
| UL Reverberant (dBA @ 10 ft.) | 2W | 1W | ½ W | ¼ W | |
| Wall-Mount SP Series | 86 | 83 | 80 | 77 | |
| Wall-Mount SPV Series | 90 | 87 | 84 | 81 | |
| Ceiling-Mount SPC Series | 86 | 83 | 80 | 77 | |
| Ceiling-Mount SPCV Series | 90 | 87 | 84 | 81 | |
| Wall-Mount SPS Series | 85 | 82 | 79 | 76 | |
| Wall-Mount SPSV Series | 89 | 86 | 83 | 80 | |
| Ceiling-Mount SPSC Series | 85 | 82 | 79 | 76 | |
| Ceiling-Mount SPSCV Series | 89 | 86 | 83 | 80 | |

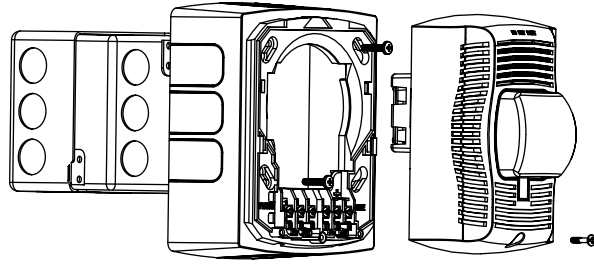
Dimensions



Surface Mounting



Ceiling Mount Speaker with SPBBSCW Back Box Skirt



Wall Mount Speaker Strobe with SPBBS Back Box Skirt

Ordering Information for SpectrAlert® Advance Speakers and Speaker Strobes

| Wall Mount | | |
|---------------|---------|---|
| White | Red | Description |
| SPW | SPR | Speaker only |
| SPWV | SPRV | Speaker only, High dB |
| SPSW* | SPSR* | Speaker Strobe, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115) |
| SPSWH* | SPSRH* | Speaker Strobe, Selectable Candela, High cd (135, 150, 177, 185) |
| SPSWV* | SPSRV* | Speaker Strobe, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), High dB |
| Ceiling Mount | | |
| White | Red | Description |
| SPCW | SPCR | Speaker only |
| SPCWV | SPCRV | Speaker only, High dB |
| SPSCW* | SPSCR | Speaker Strobe, Selectable Candela (15, 15/75, 30, 50, 75, 95, 110, 115) |
| SPSCWH* | SPSCRH | Speaker Strobe, Selectable Candela, High cd (135, 150, 177, 185) |
| SPSCWV* | SPSCRV | Speaker Strobe, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), High dB |
| SPSCWVH* | SPSCRVH | Speaker Strobe, Selectable Candela, High dB, High cd (135, 150, 177, 185) |
| Accessories | | |
| White | Red | Description |
| RFPW | RFP | 7 in x 9.5 in Retrofit Plate |
| SPBBSCW | SPBBSC | Ceiling Mount Back Box Skirt |
| SPBBSW | SPBBS | Wall Mount Back Box Skirt |
| TRW | TR | Wall Mount Trim Ring |
| TRCW | TRC | Ceiling Mount Trim Ring |

* Add -P to model number for plain housing (no "FIRE" marking on the cover) e.g. SPSW-P



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