# SS-S Two-wire Indoor Strobes

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BOSCH
Invented for life

- Plug-in design with tamper-resistant construction
- Field-selectable standard candela (15 cd, 15/75 cd, 30 cd, 75 cd, 95 cd, 110 cd, or 115 cd) settings or high candela settings (135 cd, 150 cd, 177 cd, or 185 cd)
- Shorting spring on mounting plate for continuity check before installation
- Wall or ceiling mount models

The SS-S System Sensor SpectrAlert Advance notification appliances simplify installations with features such as plug-in designs, instant feedback messages to ensure correct installation of individual devices, and field-selectable candela settings. While there are products specifically designed for use on the ceiling or the wall, these products are listed to be used in either application, and the same mounting plate is used for wall- and ceiling-mount units. SpectrAlert products can be used in either DC or full-wave rectified (FWR) systems (12 V or 24 V). If required, the SSMDL or SSMDLW module can be used to provide synchronization.

**Notice**
Full-wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.

**Notice**
SpectrAlert products set at 15 cd and 15/75 cd automatically work on either 12 V or 24 V power supplies. The products are not listed for 12 V operating voltages when set to any other candela settings.

## Functions

**Strobe**
When wired as a primary-signaling notification appliance, the strobe complies with the Americans with Disabilities Act (ADA) requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light consists of a xenon flash tube and associated lens and reflector system.
For 24 V applications, the total number of strobes on a single NAC must not exceed 40, with a maximum loop resistance of 120 Ω. For 12 V applications, the total number of strobes must not exceed 12, with a maximum loop resistance of 30 Ω.

## Certifications and approvals

System Sensor holds these Listings and Approvals:

| Region | Certification | |
|---|---|---|
| USA | UL | UUKC: Signaling Appliances and Equipment for the Hearing Impaired (UL1971) |
| | FM | SS-S Family |
| | CSFM | see our website |

## Installation/configuration notes

### Mounting Considerations

These strobes mount on a standard 4-inch square back box, a 4-inch octagon back box, a single-gang back box, or a double-gang back box.

### Wiring Considerations

The input terminals on the universal mounting plate accept solid wires between 12 AWG (2.3 mm) to 18 AWG (1.2 mm).

## Parts included

| Quant. | Component |
|---|---|
| 1 | Strobe |
| 1 | Universal mounting plate (MP120K) |
| 1 | Hardware pack |
| 1 | Literature pack |

## Technical specifications

### Electrical

**Current Draw, UL maximum at 8 V to 17.5 V**

**Standard-candela Models only**

| | DC | FWR |
|---|---|---|
| 15 cd: | 123 mA | 128 mA RMS |
| 15/75 cd: | 142 mA | 148 mA RMS |

**Current Draw, UL maximum at 16 V to 33 V**

**Standard-candela Models**

| | DC | FWR |
|---|---|---|
| 15 cd: | 66 mA | 71 mA RMS |
| 15/75 cd: | 77 mA | 81 mA RMS |
| 30 cd: | 94 mA | 96 mA RMS |
| 75 cd: | 158 mA | 153 mA RMS |
| 95 cd: | 181 mA | 176 mA RMS |
| 110 cd: | 202 mA | 195 mA RMS |
| 115 cd: | 210 mA | 205 mA RMS |

**Current Draw, UL maximum at 16 V to 33 V**

**High-candela Models**

| | DC | FWR |
|---|---|---|
| 135 cd: | 228 mA | 207 mA RMS |
| 150 cd: | 246 mA | 220 mA RMS |
| 177 cd: | 281 mA | 251 mA RMS |
| 185 cd: | 286 mA | 258 mA RMS |

**Voltage**

| | |
|---|---|
| Nominal: | Regulated 12 VDC/FWR or Regulated 24 VDC/FWR |
| Operating Range: | **12V nominal:** 8 V to 17.5 V or **24 V nominal:** 16 V to 33 V |

### Environmental

| | |
|---|---|
| Relative Humidity: | 10% to 93%, non-condensing |
| Temperature (operating): | +32°F to +120°F (0°C to +49°C) |

### Mechanical

| | |
|---|---|
| Candela Selections: | 15 cd[1], 15/75 cd[1], 30 cd[2], 75 cd[2], 95 cd[2], 110 cd[2], and 115 cd[2] |

**Dimensions**

| | |
|---|---|
| • Ceiling-mount (Diameter x Height): | 6.8 in × 2.5 in (173 mm × 64 mm) |
| • Wall-mount (Height x Width x Depth): | 5.6 in × 4.7 in × 2.5 in (142 mm × 119 mm × 64 mm) |

[1] When set at these settings, the devices automatically work on both 12 V and 24 V power supplies. The 15/75 cd selection is listed at 15 cd but provides 75 cd on axis.

[2] The strobe is not listed for 12 V operating voltages when set to these selections. When using a 12 V control panel, this device yields required light output only in the 15 cd and 15/75 cd settings.

### Trademarks

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

## Ordering information

**SS-SR Wall-mount, Standard-candela Strobe (red)**
Red, wall-mount strobe with field-selectable strobe intensities of 15 cd, 15/75 cd, 30 cd, 75 cd, 95 cd, 110 cd, or 115 cd
Order number **SS-SR**

**SS-SW Wall-mount, Standard-candela Strobe (white)**
White, wall-mount strobe with field-selectable strobe intensities of 15 cd, 15/75 cd, 30 cd, 75 cd, 95 cd, 110 cd, or 115 cd
Order number **SS-SW**

**SS-SCR Ceiling-mount, Standard-candela Strobe (red)**
Red, ceiling-mount strobe with field-selectable strobe intensities of 15 cd, 15/75 cd, 30 cd, 75 cd, 95 cd, 110 cd, or 115 cd
Order number **SS-SCR**

**SS-SCW Ceiling-mount, Standard-candela Strobe (white)**
White, ceiling-mount strobe with field-selectable strobe intensities of 15 cd, 15/75 cd, 30 cd, 75 cd, 95 cd, 110 cd, or 115 cd
Order number **SS-SCW**

**SS-SCRH Ceiling-mount, High-candela Strobe (red)**
Red, ceiling-mount strobe with field-selectable strobe intensities of 135 cd, 150 cd, 177 cd, or 185 cd
Order number **SS-SCRH**

**SS-SCWH Ceiling-mount, High-candela Strobe (white)**
White, ceiling-mount strobe with field-selectable strobe intensities of 135 cd, 150 cd, 177 cd, or 185 cd
Order number **SS-SCWH**

**Accessories**

**SS-BBS-2 Wall Back Box Skirt (red)**
Red back box skirt.
**Not Available.**
Order number **SS-BBS-2**

**SS-BBSW-2 Wall Back Box Skirt (white)**
White back box skirt
Order number **SS-BBSW-2**

**SS-BBSC-2 Ceiling Back Box Skirt (red)**
Red back box skirt.
**Not Available.**
Order number **SS-BBSC-2**

**SS-BBSCW-2 Ceiling Back Box Skirt (white)**
White back box skirt.
**Not Available.**
Order number **SS-BBSCW-2**

**SSMDL Synchronization Module (red)**
Red, 24VDC device that can connect to two Style Y (Class B) circuits or one Style Z (Class A) circuit and synchronize System Sensor SpectrAlert horns, strobes, and horn strobes.
**Not Available.**
Order number **SSMDL**

**SSMDLW Synchronization Module (white)**
White, 24VDC device that can connect to two Style Y (Class B) circuits or one Style Z (Class A) circuit and synchronize System Sensor SpectrAlert horns, strobes, and horn strobes.
**Not Available.**
Order number **SSMDLW**

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