

# SpectrAlert® SP2C Series Ceiling-Mount Speaker/Strobes



## Description

System Sensor's **SP2C Series Speaker/Strobes** combine leading-edge strobe and speaker technology with a design specifically intended for ceiling-mount applications.

## Technology

— SpectrAlert® SP2C ceiling speaker/strobes combine the low current draw of the ceiling-

mount SpectrAlert® strobes, with the intelligible, fidelity sound quality of the SpectrAlert® SP200 Series evacuation speaker.

**Flexibility** — Like all SpectrAlert® products, the SP2C Series ceiling speaker/strobes feature the flexibility to meet a wide variety of applications. The 24-volt strobe is available in six different candelas, including 177 candela for sleeping areas. The speaker offers field-selectable 25.0/70.7 voltage and 1/4, 1/2, 1, and 2 watt power taps.

**Aesthetics** — The SP2C Series ceiling speaker/strobes offer a design that is sensitive to the aesthetic demands of ceiling-mount applications. The round shape maintains a low-profile appearance, similar to that of a smoke detector. Its stylish curves and design further refine the aesthetics over other generic wall/ceiling-mount designs. Yet SpectrAlert®'s round shape provides clearly visible "FIRE" identification from all angles.

**Installation** — The SP2C Series ceiling speaker/strobes include several features to simplify installation. By incorporating the SP200 Series speaker, the entire unit may be mounted to a standard 4" x 4" x 2-1/8" (101.6 x 101.6 x 53.975 mm) backbox without an extension ring. An optional backbox skirt is also available for surface-mount applications. With SpectrAlert®'s round shape, aligning the backbox with the room's walls is not necessary — SpectrAlert® always lines up.

## Engineer's Specifications

Ceiling speaker/strobe shall be a System Sensor Model \_\_\_\_\_ listed to UL 1480 and UL 1971 and be approved for fire protective signaling systems. Speaker shall be capable of operating at 25.0 or 70.7 nominal  $V_{RMS}$ , and shall have a frequency range of 400 to 4,000 Hz. Speaker shall have power taps which are selected by shunts. The strobe shall comply with the NFPA 72 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

## Features

- Combines SpectrAlert® ceiling-mount strobe and speaker technologies for low current draw, fidelity sound quality.
- 24 VDC models available with 15, 15/75, 30, 75, 95, 115, and 177 candela strobes.
- 25.0 and 70.7 volt speaker with four field-selectable power taps.
- Ceiling-specific shape, profile, and aesthetics.
- Strobe is synchronizable with MDL Sync•Circuit™ module.
- Mounts to a 4" x 4" x 2-1/8" (101.6 x 101.6 x 53.975 mm) backbox without an extension ring.
- Round shape offers greater placement flexibility.

## Listings

Listings and approvals below apply to the basic SpectrAlert® SP2C Series Ceiling-Mount Speaker/Strobes. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file S4048.
- CSFM approved: file 7320-1209:200.
- MEA approved: file 63-00-E (15, 15/75, 30, 75, 95 cd models), 218-00-E (115, 177 cd models).

SpectrAlert® is a registered trademark and Sync•Circuit™ is a trademark of System Sensor.

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## Ordering Information with Current Draw

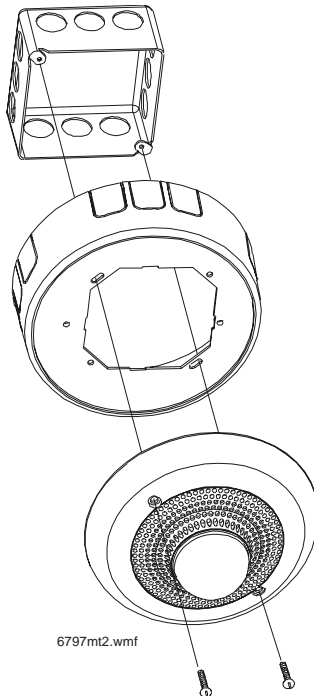
Description	Model No. (White)	Candela	FWR Max. Operating Strobe Current (mA RMS)	DC Max. Operating Strobe Current (mA RMS)
Ceiling Speaker /Strobes	SP2C2415	15	68	64
	SP2C241575	15/75	77	78
	SP2C2430	30	107	113
	SP2C2475	75	197	205
	SP2C2495	95	239	274
	SP2C24115	115	298	325
	SP2C24177	177	399	489
Surface-mount back box skirt	BBSCW			

### BBSCW Surface-Mount Backbox Skirt

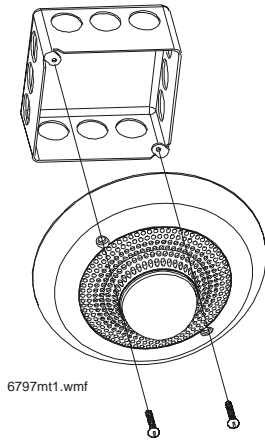


6797bbsc.jpg

### Mounting Speaker/Strobe with accessory Backbox Skirt



### Standard Speaker/Strobe Mounting



6797mt1.wmf

6797mt2.wmf

## Specifications

### GENERAL

#### Dimensions

6.8" (172.72 mm) diameter.

#### Mounting

4" x 4" x 2-1/8" (101.6 x 101.6 x 53.975 mm) backbox.

#### Indoor operating temperature

32°F to 120°F (0°C to 49°C).

### STROBES

#### Strobe operating voltage

24 VDC and FWR unfiltered.

#### Input terminals

12 to 18 AWG (3.25 to 0.75 mm<sup>2</sup>).

#### Operating voltage range

24 volts, 16 – 33 volts.

#### Operating voltage range with Sync•Circuit™ module

24 volts, 17 – 33 volts.

### SPEAKERS

#### Input voltage

25.0 or 70.7 volts (nominal).

#### Input terminals

12 to 18 AWG (3.25 to 0.75 mm<sup>2</sup>).

#### Frequency range

400 – 4,000 Hz.

**NOTE:** The SP2C Series is UL listed from 400 to 4,000 Hz, but will provide an output from 100 to 10,000 Hz.

#### Power taps

1/4, 1/2, 1, and 2 watts.

### SOUND OUTPUT

dBA @ 10 Ft.	2 W	1 W	1/2 W	1/4 W
UL Reverberant*	84	81	78	75
UL Anechoic	87	84	81	78

\*Assumes flush-mount installation

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