

SpectrAlert® Selectable Output Wall Speaker/Strobes



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Description

SystemSensor SpectrAlert® Selectable Output Wall Speaker/Strobes offer enhanced features that include the widest range of candela options available and the ability to recognize and self-adjust for either 12- or 24-volt operation, along with the fidelity sound quality expected from SpectrAlert® speaker technology.

Performance. The selectable-output speaker/strobe offers average current draws that are not only lower than conventional fixed-candela SpectrAlert® products, but also lower than similar selectable-candela products. In addition, the broad-frequency response range and low harmonic distortion provided by SpectrAlert® speaker technology provides an accurate and intelligible broadcast of evacuation messages.

Installation. SpectrAlert® selectable-output speaker/strobes offer a variety of installation-friendly features, such as the ability to mount to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep backbox without an extension ring and with no encroachment into the box. With field-reversible strobe placement, the speaker/strobe may be either left- or right-mounted to avoid obstructions.

Flexibility. SpectrAlert® selectable-output speaker/strobes offer the broadest range of candela options. In addition, these selectable-output speaker/strobes can operate on either 12 or 24 volts, with no setting required — the device recognizes and self-adjusts to the correct operating voltage automatically. Speaker voltage (25.0 or 70.7) and power tap settings (1/4, 1/2, 1, or 2 watt) are field-selectable.

Aesthetics. SpectrAlert® selectable-output speaker/strobes incorporate the same stylish, low-profile design of the conventional SpectrAlert® products, for a consistent and aesthetically pleasing appearance across the entire product line.

SpectrAlert® and Sync•Circuit™ are trademarks of System Sensor.

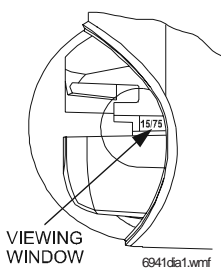
Features

- Combines the technologies of two SpectrAlert® products: Selectable Output Strobes and SP200 Speakers.
- Widest range of candela options:
12 V: 15 and 15/75 candela.
24 V: 15, 15/75, 30, 75, 110 candela.
- Operates on either 12 V or 24 V.
- Easy candela selection with side viewing window.
- 25.0 and 70.7 volt speaker with four field-selectable power taps.
- Field-reversible strobe position for left- or right-mounting.
- Synchronizable with MDL Sync•Circuit™ module or equipment with SpectrAlert® Sync Protocol.
- Optional surface-mount backbox skirt available; BBS-SP2R (red) and BBS-SP2W (White).

Listings

Listings and approvals below apply to the basic SpectrAlert® Selectable Output Wall 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 7320-1209:186.
- MEA approved: file 127-02-E.



For strobe candela selection, adjust slide switch located on the rear of the

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Engineering Specifications

Speaker/Strobe shall be a System Sensor 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 V_{RMS} , and shall have a frequency range of 400 – 4000 Hz. Speaker shall have power taps that are selected by DIP switch. The strobe shall consist of a xenon flash tube with associated lens/reflector system and operate on either 12 volts or 24 volts. The strobe shall also feature selectable-candela output, providing options for 15 or 15/75 candela when operating on 12 volts; and 15, 15/75, 30, 75, or 110 when operating on 24 volts. The strobe shall comply with the Americans with Disabilities Act requirement for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range.

Ordering Information

Description	Model No.		Candela Setting	FWR Operating Current-Strobe (mA RMS)		DC Operating Current-Strobe (mA RMS)	
	Red	White		12 V	24 V	12 V	24 V
	Wall Speaker/Strobe	SP2R1224MC		SP2W41224MC	15	112	64
15/75			135		74	127	69
30					93		90
75					158		160
110					208		209
Surface-mount back box skirt	BBS-SP2R	BBS-SP2W					

Sound Output

Power Tap Selections:	2 Watt	1 Watt	1/2 Watt	1/4 Watt
Sound Output (UL Reverberant @ 10 ft./3.048 m):	84 dBA	81 dBA	78 dBA	75 dBA
Sound Output (UL Anechoic @ 10 ft./3.048 m):	87 dBA	84 dBA	81 dBA	78 dBA

Specifications

Input terminals

12 to 18 AWG (3.25 mm² to 0.51 mm²).

Dimensions

4.875" (12.383 cm) high x 8.25" (20.955 cm) wide x 2.25" (5.715 cm) deep.

Mounting

4" x 4" x 2.125" deep (10.16 x 10.16 x 5.398 cm) backbox.

Reversible strobe feature

Speaker/strobe is shipped in the strobe-right-mounted position. For a left-mounted strobe: Remove the strobe screw and lift the strobe assembly out of the rib slot. Rotate the strobe 180° and remount to the base.

Weight

3 lbs (1.361 kg).

Operating temperature, indoor

32°F to 120°F (0°C to 49°C).

Maximum humidity

85%.

Strobe operating voltages*

12 or 24 VDC and FWR unfiltered.

Operating voltage range:*

12V: 8 – 17.5V.

24V: 16 – 33 V. **With Sync-Circuit™ module MDL***: 12 V: 9 – 17.5 V. 24 V: 17 – 33 V.

Speaker input voltage

25.0 or 70.7 V_{RMS} (nominal).

Speaker frequency range:**

400 – 4,000 Hz.

**The SP2 Series is UL Listed from 400 to 4,000 Hz but will provide an output from 100 to 10,000 Hz.

Speaker power taps

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

U.S. Patent Numbers

5,593,569. 5,914,665. 5,850,178.
5,598,139. 6,049,446. 6,127,935.
6,522,261.



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