

# 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.

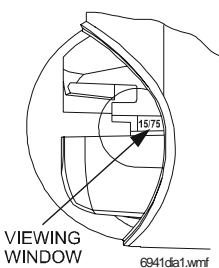
## Features

- 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

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## Specifications

### Input terminals

12 to 18 AWG (3.25 mm<sup>2</sup> to 0.51 mm<sup>2</sup>).

### 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.

Specifications and wiring information are provided for information only and are believed to be accurate. Gamewell assumes no responsibility for their use. Data and design are subject to change without notice. Installation and wiring instructions shipped with the product shall always be used for actual installation. For more information, contact Gamewell.