



## Selectable Output Wall Speaker/Strobes

*SP2 and SP3 Series Speaker/Strobes offer enhanced features that include the widest range of candela options available, the capability to self-adjust for 12 or 24 volt operation, and the fidelity sound quality expected from SpectrAlert speaker technology.*

**Performance.** SpectrAlert® Selectable Output Speaker/Strobes offer 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" x 4" x 2 1/8" back box without the need for an extension ring. Also, with the field-reversible strobe, the speaker/strobe may be either left- or right-mounted to avoid potential obstructions.

**Flexibility.** SpectrAlert Selectable Output Speaker/Strobes offer the broadest range of candela options. In addition, the 15 cd and 15/75 cd options can operate on either 12V or 24V, with no setting required; the device recognizes the applied voltage and self-adjusts to the correct setting automatically. The speaker voltage, either 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 as the conventional SpectrAlert products, for a consistent and aesthetically pleasing appearance across the entire product line.



**SPECTRAlert®**

### Features

- Fidelity sound quality (SP2)
- Enhanced SPL (SP3)
- Operates on either 12V or 24V
- Widest range of candela options:
  - 12V: 15 and 15/75 candela options
  - 24V: 15, 15/75, 30, 75, and 110 candela options
- Easy candela selection
- 25.0 and 70.7 volt speaker with four field-selectable power taps
- Field-reversible strobe for left- or right-mounting
- Synchronizable with MDL Sync-Circuit™ Module
- Optional surface-mount back box skirt available

### Agency Listings



## SPECTRA Alert Selectable Output Speaker/Strobe Specifications

### Architectural/Engineering Specifications

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 Vrms, and shall have a frequency range of 400 – 4000 Hz. Speaker shall have power taps that are selected by shunts. The strobe shall consist of a xenon flash tube with associated lens/reflector system and operate on either 12V or 24V. The strobe shall also feature selectable candela output, providing options for 15 or 15/75 candela when operating on 12V and 15, 15/75, 30, 75, or 110 when operating on 24V. 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.

### Physical Specifications

Dimensions	4 $\frac{7}{8}$ " x 8 $\frac{1}{4}$ " x 2 $\frac{1}{4}$ "
Mounting	4" x 4" x 2 $\frac{1}{8}$ " back box
Indoor Operating Temperature	32°F to 120°F (0°C to 49°C)

### Strobe Specifications

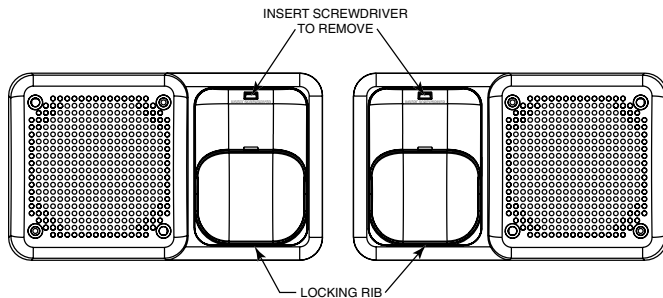
Strobe Operating Voltage	12 or 24 VDC and FWR unfiltered
Input Terminals	12 to 18 AWG
Operating Voltage Range	12V: 8–17.5V; 24V: 16–33V
Operating Voltage Range w/Sync-Circuit™ Module	12V: 9–17.5V; 24V: 17–33V

### Speaker Specifications

Input Voltage	25.0 or 70.7 Vrms (nominal)			
Input Terminals	12 to 18 AWG			
Frequency Range	400–4000 Hz The SP2 and SP3 Series are UL listed from 400 to 4000Hz. The SP2 Series will provide a flat ( $\pm 10$ dB) output from 100 to 15,000Hz. The SP3 Series will provide a flat ( $\pm 10$ dB) output from 500 to 13,000 Hz.			
Power Taps	¼, ½, 1 and 2 watts			
U.S. Patent No.	6,049,446; 6,127,935			
Sound Output (UL Reverberant @ 10ft.)	<b>2 Watts</b>	<b>1 Watt</b>	<b>½ Watt</b>	<b>¼ Watt</b>
SP2	84	81	78	75
SP3	89	87	84	81

### Reversible Strobe Feature

Removing the strobe screw and lifting the strobe assembly out of the rib slot allows the strobe to be rotated 180° and remounted to the base resulting in a left-mounted strobe configuration.



### Explanation of Published Strobe Specifications

In May 2004, Underwriters Laboratories changed standard UL 1971 to require that operating current measurements are made using RMS (root mean square) instead of peak or average values. RMS measurements more accurately predict the power consumption of a device since they take into account the entire current draw profile including surge, repetitive surge, and peak values. The published RMS current is the maximum operating current of that device within its operating voltage range. This current maximum may or may not occur at the endpoints of the voltage range.

In May 2004, UL also changed the way they list the voltage range of a device. All 12V products will be listed between 8–17.5V and all 24V products will be listed between 16–33V. These devices are considered "regulated." Any product that does not operate within these ranges will be listed as a "special application" with its operating voltage specified on the device.

### Ordering Information/Current Draw

Description	Model No.		Candela Setting	UL Max. FWR Operating Current–Strobe (mA RMS)		UL Max. DC Operating Current–Strobe (mA RMS)	
	Red	White		8–17.5V	16–33V	8–17.5V	16–33V
Wall Speaker/Strobe	SP2R1224MC	SP2W1224MC	15	112	64	127	59
			15/75	135	74	127	69
	SP3R1224MC	SP3W1224MC	30	n/a	93	n/a	90
			75	n/a	158	n/a	160
	110	n/a	208	n/a	209		

### Accessories

BBS-SP2R	Surface-mount back box skirt, red
BBS-SP2W	Surface-mount back box skirt, white

