

SPECTRAlert®

Selectable Output Wall Speaker/Strobes



Models Available

Red SP2R1224MC	White SP2W1224MC
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Accessory Back Box Skirt

Red BBS-SP2R	White BBS-SP2W
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SP2R1224MC



Mounted with BBS-SP2R



Product Overview

- Combines SpectrAlert® Selectable Output Strobe with SP200 speaker technology
- 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

The models SP2R1224MC and SP2W1224MC incorporate a new patent-pending voltage booster design that has a more consistent flash bulb voltage over the range of candela selections. The benefit to the customer is a high quality strobe device.

Engineering Specifications

SpectrAlert Selectable Output Speaker/Strobes offer enhanced features that include the widest range of candela options available and the capability 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 Strobe 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" x 4" x 2 1/8" back box without the need for an extension ring and with no encroachment into the box. 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 Selectable Output Strobes and horn/strobes can operate on either 12V or 24V, with no setting required; the device recognizes and self-adjusts to the correct current automatically. The speaker voltage, either 25.0 or 70.7, and power tap settings, either 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.

Speaker/Strobe shall be a Gamewell 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 Vrms, 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 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.



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General Specifications

Dimensions
4⁷/₈" x 8¹/₄" x 2¹/₄"

Mounting
4" x 4" x 2¹/₈" back box

Indoor Operating Temperature
32° to 120° F (0° to 49° C)

Strobe Specifications

Strobe Operating Voltage
12 or 24 VDC and FWR unfiltered

Operating Voltage Range*
12V: 9.5–17.5V; 24V: 16–33V

* These products should be operated within their rated voltage range. UL does however, test functional integrity to –20% and +10% of manufacturer's stated ranges.

Input Terminals
12 to 18 AWG

Operating Voltage Range w/
Sync-Circuit Module*
12V: 10.5–17.5V; 24V: 17–33V

Speaker Specifications

Input Voltage
25.0 or 70.7 Vrms (nominal)

Frequency Range
400–4000 Hz
The SP2 Series is UL listed from 400 to 4000Hz but will provide an output from 100 to 10,000Hz.

Power Taps
¼, ½, 1 and 2 watts

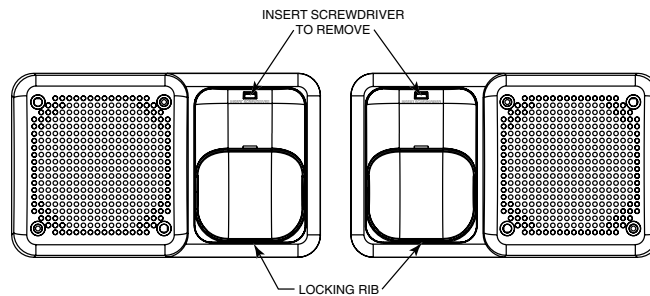
Input Terminals
12 to 18 AWG

U.S. Patent No.
6,049,446

	2 Watts	1 Watt	½ Watt	¼ Watt
Sound Output (UL Reverberant @ 10ft.)	84	81	78	75
Sound Output (UL Anechoic @ 10ft.)	87	84	81	78

Reversible Strobe Feature

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



Ordering Information/Current Draw

Description	Model No.			Current (mA)											
	Red	White	Candela	Avg @ 12V		Avg @ 24V		Peak @ 12V		Peak @ 24V		In Rush @ 12V		In Rush @ 24V	
Wall Speaker/Strobe	SP2R1224MC	SP2W1224MC	15	DC	FWR	DC	FWR	DC	FWR	DC	FWR	DC	FWR	DC	FWR
			15/75	65	59	42	38	174	159	129	165	79	87	133	177
			30	79	69	48	43	175	254	159	206	61	79	123	171
			75	NA	NA	57	68	NA	NA	159	206	NA	NA	131	175
			110	NA	NA	100	90	NA	NA	251	430	NA	NA	119	175
Surface-mount back box skirt	BBS-SP2R	BBS-SP2W	—	—	—	—	—	—	—	—	—	—	—	—	



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