

SPECTRAlert®

Selectable Output Outdoor Wall Speaker/Strobes



Models Available

Red

SP2R1224MCK
(weatherproof backbox included)



Product Overview

- Combines SpectrAlert® Selectable Output Strobe with SP200 speaker technology
- Operates on either 12V or 24V
- Wide 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
- Synchronizable with MDL Sync•Circuit™ Module
- Suitable for use in outdoor environments

SpectrAlert Selectable Output Outdoor Speaker/Strobes offer enhanced features that include a wide range of candela options and the capability to recognize and self-adjust for either 12 or 24 volt strobe operation, along with the sound quality expected from SpectrAlert speaker technology.

Performance. SpectrAlert Selectable Output Outdoor Speaker/Strobes offer reliable operation over their entire temperature range (-40°F to 151°F). They may be used indoors or outdoors in wet or dry applications. In addition, these speakers provide a broad frequency response range and low harmonic distortion to provide an accurate and intelligible broadcast of evacuation messages. High sound pressure level at all tap settings ensures that messages are clearly heard.

Installation. SpectrAlert Selectable Output Outdoor Speaker/Strobe is supplied with its own weatherproof back box.

Flexibility. SpectrAlert Selectable Output Outdoor Speaker/Strobes offers a broad 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 and self-adjusts to the correct voltage 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 for installation flexibility.

Aesthetics. SpectrAlert Selectable Output Outdoor 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.

Engineering Specifications

Speaker/Strobe shall be a System Sensor Model SP2R1224MCK listed to UL 1638 and UL 1480 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. The speaker/strobe must be installed with its weatherproof backbox in order to remain outdoor approved per UL. The speaker/strobe shall be suitable for use in wet environments.



General Specifications

Dimensions

4⁷/₈" × 8¹/₄" × 2¹/₄"
(124mm × 210mm × 57mm)

Operating Temperature

-40°F to 150.8°F (-40°C to 66°C)

Back Box

9.2" × 5.9" × 2.4"
(234mm × 149mm × 60mm)

Strobe Specifications

Strobe Operating Voltage

12 or 24 VDC and FWR unfiltered

Operating Voltage Range

12V: 8–17.5V; 24V: 16–33V

Input Terminals

12 to 18 AWG

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)

Frequency Range

400 – 4000 Hz
Outdoor speakers are UL listed from 400 to 4000Hz but will provide an output from 500 to 13,000Hz (± 10 dB).

Power Taps

¼, ½, 1 and 2 watts

Input Terminals

12 to 18 AWG

U.S. Patent No.

6,822,400; 6,833,783; 6,793,375;
6,127,935; 5,914,665; 6,049,446;
6,661,337; 5,850,178; 5,598,139

Sound levels for each transformer power tap

INPUT VOLTS	2 W	1 W	½ W	¼ W
25.0	89	87	85	81
70.7	90	87	84	81

UL
Reverberant
(dBA @ 10 ft.)

Ordering Information/Current Draw

Description	Model No.	Candela Setting	FWR Operating Current–Strobe (mA RMS)		DC Operating Current–Strobe (mA RMS)	
			12V	24V	12V	24V
Wall Speaker/Strobe	SP2R1224MCK	15	112	64	127	59
		15/75	135	74	127	69
		30		93		90
		75		158		160
		110		208		209
Surface-mount outdoor backbox (Included)	Included					

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