

System Sensor SpectrAlert Series

www.firecontrolinstruments.com

Description

The System Sensor Spectralert® selectable output strobes and horn/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.

Spectralert selectable candela wall-mounted strobes and horn/strobes offer key performance features long associated with the Spectralert name. The selectable candela strobes and horn/strobes offer average current draws that are not only lower than conventional fixed-candela Spectralert products, but also lower than similar products by others. By consuming less current, the ability to connect even more devices per circuit is possible, resulting in lower installed cost.

Spectralert selectable candela strobes and horn/strobes offer the same installation-friendly features synonymous with the Spectralert name, such as the option of 2- and 4-wire operation; the ability to use standard size backboxes with no encroachment into the box; and universal mounting incorporating the labor-saving QuickClick™ feature. Such labor-saving features make wire connections simple and fast, further reducing installed cost.

These strobes and horn/strobes offer the broadest range of candela options. In addition, they can operate on either 12V or 24V with no settings required. The device recognizes and self-adjusts to the correct current automatically. Temporal Pattern 3 or continuous tone options continue to be available, in either an electro-mechanical or 3 kHz pattern

These strobes and horn/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. The selectable strobe and horn/strobe is available in either red or white.

The devices mount on a standard 4" x 4" x 1 1/2" backbox or a single gang 2" x 4" x

1 7/8" backbox using the universal mounting plate included with each Spectralert unit.

An optional strobe synchronization module is available for compliance the Americans with Disabilities Act (ADA). The MDL (red) MDLW (white) synchronizes the strobes at 1 Hz and the horns to a Temporal 3 coded pattern. The synchronization modules mounts on a 4 11/16" x 4 11/16" x 2 1/8" backbox and supports two (2) Style Y (Class B) or one (1) Style Z (Class A) notification appliance circuit. A separate horn control input is available to allow silenceable audible devices and non-silenceable visual devices on the same pair of wires.

Features

- **Operates on either 12 or 24 VDC**
- **Widest Range of Candela Options:**
- **12V: 15, 15/75 candela**
- **24V: 15, 15/75, 30, 75, 110 candela**
- **Easy Candela Selection**
- **Easy DIP Switch Selection for Horn Options**
- **Weatherproof Versions Available**
- **Eask Mounting with QuickClick™**
- **Synchronization available with optional MDL Sync•Circuit™ module**
- **Meets UL1971, NFPA72, and ADA Signaling Requirements**

SELECTABLE OUTPUT STROBES AND HORNS MODELS P1224MC, S1224MC



S5512 S4011



122-02-E
126-02-E



APPROVED

3014150



7125-1209:222
7135-1209:223

An ISO 9001 Company

Specifications are provided for information only, and are not intended to be used for installation purposes and are believed to be accurate. However, no responsibility is assumed by Fire Control Instruments for their use. Specifications subject to change without notice.

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Spectralert Current Tables

Model No.	Candela Setting	FWR Operating Current-Strobe (mA RMS)		DC Operating Current-Strobe (mA RMS)		FWR Operating Current-Horn (mA RMS)		DC Operating Current-Horn (mA RMS)		Horn Audibility (dBA)
		12V	24V	12V	24V	12V	24V	12V	24V	
S1224MC Strobe	15	112	64	127	69					
	15/75	135	74	127	69					
	30		93		90					
	75		158		160					
	110		208		209					
P1224MC Horn/Strobe	15	112	64	127	69	45.7	57.5	44.4	57	75
	15/75	135	74	127	69	45.7	57.5	44.4	57	75
	30		93		90		57.5		57	75
	75		158		160		57.5		57	75
	110		208		209		57.5		57	75
H12/24 Horn						45.7	57.5	44.4	57	75

Temporal	Low Volume	Electromechanical
		3000 Hz Interrupted
	High Volume	Electromechanical
		3000 Hz Interrupted
Non-Temporal	Low Volume	Electromechanical
		3000 Hz Interrupted
	High Volume	Electromechanical
		3000 Hz Interrupted

AGENCY LISTINGS:

Indoor Models: UL, ULC, FM, CSFM, MEA.

Weatherproof models: UL, CSFM (strobe only), MEA, ULC.

NOTE:

All of these products are designed for wall mount only. All weatherproof models must use weatherproof back box model WBB.

Installation of strobes lower than 75 cd may be permissible under the equivalent facilitation clause of the ADAAG (Sec. 2.2). However, it is the responsibility of the fire alarm designer to determine the acceptability of strobes less than 75 candela. All 15/75 candela strobes or horn/strobes are recommended for 20' x 20' rooms or smaller.

SpectrAlert Selectable Output Strobe and Horn/Strobe

Specifications

Walk Test

SpectrAlert horn/strobe and horn only operate on "walk tests" with time durations of 4 seconds or greater

Input terminals

12 to 18 AWG

Dimensions

Strobe and horn/strobe with universal plate

5" x 5 ⁵/₈" x 2 ¹⁵/₁₆"

Strobe and horn/strobe with small footprint plate

3 ³/₈" x 5 ⁵/₈" x 2 ⁵/₁₆"

Horn with universal mounting plate

5" x 5 ⁵/₈" x 1 ⁵/₁₆"

Horn without mounting plate

2 ¹⁵/₁₆" x 5 ⁵/₁₆" x 1 ⁵/₁₆"

Weight, horn only

7.2 Oz.

Weight, strobe and horn/strobe

8.8 oz.

Mounting

4" x 4"x 1 ¹/₂" or 2" x 4" x 1 ⁷/₈"

standard boxes

Indoor operating temperature

32°F to 120°F (0°C to 49°C)

Maximum humidity

95% as tested per UL464

Weatherproof (horn and horn/strobe)

Operating temperature

32°F to 150°F (0°C to 66°C)

(Weatherproof strobe only)

-40°F to 158°F (-40°C to 70°C)

Voltages

12 or 24VDC and FWR unfiltered

Operating Voltage Range*

12V: 8-17.5 V; 24V: 16-33 V

Operating Voltage Range

(with Sync•Circuit module MDL)

12V: 9-17.5 V; 24V: 17-33 V

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

Ordering Information

Description	Red	White	WP	Voltage	Candela	Avg.mA* @Nom. VDC	Avg.mA* @Nom. VDC
Horn/Strobes	P1224M	P1224MCW	P1224MCK	12/24	Selectable: 15, 15/75, 30, 75, 110*	-	-
Strobes	S1224MC	S1224MCW	S1224MCK	12/24	Selectable: 15, 15/75, 30, 75, 110*	-	-

*NOTE: Strobes available for 12 V operation in 15 and 15/75 cd only

Accessories

Sync. Circuit Module	MDL	MDLW	12/24	NA		10/11	12/15
Small Mtg Plate for Single Gang	SMP	SMPW	NA	NA		NA	NA
Surf. Mt. Back box skirt	BBS	BBSW	NA	NA		NA	NA
Universal Mtg. Plate (replacement)	D-MP	D-MPW	NA	NA		NA	NA

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