



Indoor Selectable-Output Speaker Strobes and Dual Voltage Evacuation Speakers for Wall Applications

System Sensor L-Series selectable output speaker strobes and dual-voltage evacuation speakers can reduce ground faults and enable faster installation with lower current draw and modern aesthetics.

Features

- Plug-in design and protective cover reduce ground faults
- Universal mounting plate with an onboard shorting spring tests wiring continuity before installation
- No extension ring required
- Field selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, 185
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Rotary switch simplifies field selection of speaker voltage (25 and 70.7 Vrms) and power settings (1/4, 1/2, 1 and 2 watts)
- Seakers offer high fidelity and high volume sound output
- Compatible with System Sensor synchronization protocol
- Electrical compatibility with existing SpectrAlert and SpectrAlert Advance products
- Tamper-resistant construction
- Updated modern aesthetics

Agency Listings





FM approved exceptor ALERT models



The System Sensor L-Series of speakers and speaker strobes reduce costly ground faults using a plug-in design and universal mounting plate that allow the installer to pre-wire mounting plates, dress the wires, and confirm wiring continuity before plugging in the speakers. In addition, a protective plastic cover prevents nicked wires by covering exposed speaker components.

These devices also enable faster installations by providing instant feedback to ensure that wiring is properly connected, rotary switches to select voltage and power settings, and 7 field-selectable candela settings for wall speaker strobes.

The low total harmonic distortion of the speaker offers high fidelity sound output while still offering high volume sound output for use in high ambient noise applications.

System Sensor L-Series makes installation easy

- \bullet Attach a universal mounting plate to a 4 \times 4 \times 2½ inch back box. Flush-mount applications do not require an extension ring.
- Connect the notification appliance circuit or speaker wiring to the terminals on the mounting plate.
- Attach the speaker or speaker strobe to the mounting plate by
 inserting the product tabs into the mounting plate grooves. Hinge
 the device into position to lock the product pins into the mounting
 plate terminals. The device will temporarily hold in place with a
 catch until it is secured with a captured mounting screw.

L-Series Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General

L-Series speaker and speaker strobes shall mount to a 4 × 4 × 21/8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, L-Series speaker strobes, when used with the Sync◆Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync◆Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series products shall operate between 32°F and 120°F (0°C and 49°C) from a regulated DC, or full-wave rectified, unfiltered power supply. Wall-mount speaker strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, 185.

Speaker

The speaker shall be a System Sensor L-Series model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. It should be ULC listed. The speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature between 32°F and 120°F (0°C and 49°C). The speaker shall have power taps and voltage that are selected by rotary switches.

Speaker Strobe combination

The speaker strobe shall be a System Sensor L-Series model _____ and ULC listed. The speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4,000 Hz. The speaker shall have power taps that are selected by rotary switch. The strobe shall comply with the NFPA 72 requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Synchronization Module

The module shall be a System Sensor Sync Circuit model MDL3RA or MDL3WA and ULC listed. The module shall synchronize strobes at 1 Hz. The module shall mount to a 411/16 × 411/16 × 21/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical Considerations					
Physical Specifications	0005 - 10005 (000 -	1000)			
Operating Temperature	32°F to 120°F (0°C to 49°C)				
Humidity Range	10 to 93% non-condensing				
Dimensions, Wall-Mount	Length	Width	Depth		
SPL Speaker	6.5 in, 165 mm	5 in, 127 mm	2.3 in, 58 mm		
With Surface Mount Back Box	6.6 in, 168 mm	5.1 in, 130 mm	3.2 in, 82 mm		
SPSL Speaker/Strobe	6.5 in, 165 mm	5.0 in, 127 mm	2.3 in, 58 mm		
(including lens and speaker)					
With Surface Mount Back Box	6.6 in, 168 mm	5.1 in, 130 mm	4.55 in, 116 mm		
Electrical/Operating Specifications					
Nominal Voltage (speakers)	25 or 70.7 (nominal)				
Maximum Supervisory Voltage (speakers)	50 VDC				
Strobe Flash Rate	1 flash per second				
Nominal Voltage (strobes)	Regulated 12 VDC or regulated 24 DC/FWR ^{1,2}				
Operating Voltage Range (includes fire	8 to 17.5 V (12 V nominal) or 16 to 33V (24 V nominal)				
alarm panels with built in sync)					
Operating Voltage with MDL3 Sync Module	8.5 to 17.5 V (12 V nominal) or 16.5 to 33V (24 V nominal)				
Frequency Range	400 to 4000 Hz				
Power	1/4, 1/2, 1, 2 watts				

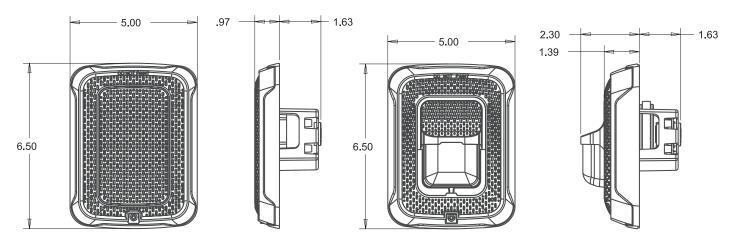
^{1.} Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.

^{2.} Strobe products will operate at 12 V nominal only for 15 and 30 cd.

ULC Current Draw Data

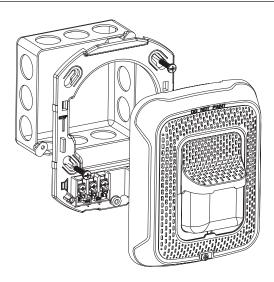
	8 to 17.5 Volts	16 to 33	Volts		
Candela	DC	DC		FWR	
15	88	43		60	
30	143	63		83	
75	N/A	107		136	
95	N/A	121		155	
110	N/A	148		179	
135	N/A	172		209	
185	N/A	222		257	
Sound Output Speaker St	robe				
	1/4 W	½ W	1 W	2 W	
Anechoic (dBA @10 ft)	77	80	83	86	
Sound Output Speaker					
	1⁄4 W	½ W	1 W	2 W	
Anechoic (dBA @10 ft)	79	82	85	88	

L-Series Dimensions



Wall-Mount Speaker

Wall-Mount Speaker Strobe



Wall-Mount Speaker Strobe with SBBSPRL Surface Mount Back

Ordering Information for L-Series Speakers and Speaker Strobes

Wall Mount			
White	Red	Description	
SPWLA	SPRLA	Speaker only, Plain	
SPSWLA	SPSRLA	Speaker Strobe, Bilingual	
SPSWLA-P	SPSRLA-P	Speaker Strobe, Plain	
Accessories			
White	Red	Description	
RFPW	RFP	7 in × 9.5 in Retrofit Plate	
SBBSPWL	SBBSPRL	Surface Mount Back Box for Speakers and Speaker Strobes	
TR-2W	TR-2	Wall Mount Trim Ring	

For strobe models, add suffix -E for English only, -F for French only.

