



Indoor Selectable-Output Strobes and Horn Strobes for Ceiling Applications

System Sensor L-Series audible visible notification products are rich with features guaranteed to cut installation times and maximize profits with lower current draw and modern aesthetics.

Features

- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Field-selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and two volume selections
- Universal mounting plate for wall and ceiling units
- Mounting plate shorting spring feature checks wiring continuity before device installation
- Electrically compatible with legacy SpectrAlert and SpectrAlert Advance devices
- Compatible with MDL3A sync module
- Listed for ceiling mounting only



The System Sensor L-Series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with low current draws and modern aesthetics. With white and red plastic housings, wall and ceiling mounting options, System Sensor L-Series can meet virtually any application requirement.

The entire L-Series product line of ceiling-mount strobes and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature a plug-in design with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation, the L-Series utilizes a universal mounting plate so you can mount them to a wide array of back boxes. With an onboard shorting spring, you can test wiring continuity before the device is installed.

L-Series devices easily adapt to suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with two volume selections.

Agency Listings



S5512
S4011



FM approved except
for ALERT models
3057383

L-Series Specifications

Architect/Engineer Specifications

General

L-Series ceiling-mount strobes and horn strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 17/8-inch back box. A universal mounting plate shall be used for mounting ceiling products. The notification appliance circuit wiring shall terminate at the universal mounting plate. When used with the Sync Circuit Module accessory, L-Series products 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 and 120 degrees Fahrenheit (0 and 49 degrees Celsius) from a regulated DC or full-wave rectified unfiltered power supply. Ceiling strobes and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 115, 150, and 177.

Strobe

The strobe shall be a System Sensor L-Series Model _____ listed to ULC and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the 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.

Horn Strobe Combination

The horn strobe shall be a System Sensor L-Series Model _____ listed to ULC and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the 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. The horn shall have two audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a System Sensor Sync•Circuit model MDL3A listed to ULC and shall be approved for fire protective service. The module shall synchronize strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4 11/16 × 4 11/16 × 2 1/8-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/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 VDC or regulated 24 DC/FWR ¹
Operating Voltage Range²	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Operating Voltage Range (MDL3A)	8.5 to 17.5V (12 V nominal) or 16.5 to 33 V (24V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8" diameter × 2.5" high (173 mm diameter × 64 mm high)
Ceiling-Mount Surface Mount Back Box Skirt Dimensions (SBBCRL, SBBCWL)	6.9" diameter x 3.4" high (175 mm diameter x 86 mm high)

Notes:

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. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 30 cd.

ULC Current Draw Data

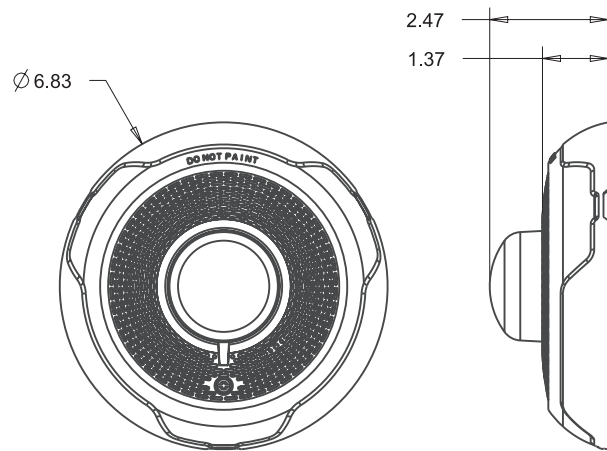
ULC Max. Strobe Current Draw (mA RMS)			
Candela	8–17.5 Volts	16–33 Volts	
	DC	DC	FWR
15	87	41	60
30	153	63	86
75	N/A	111	142
95	N/A	134	164
115	N/A	158	191
150	N/A	189	228
177	N/A	226	264

ULC Max. Current Draw (mA RMS), 2-Wire Horn Strobe									
Candela	8 VDC		16 VDC						
	15	30	15	30	75	95	115	150	177
EM Temp Hi	103	167	71	90	143	165	187	217	254
EM Temp Low	96	165	54	71	137	161	185	211	249
EM Cont Hi	106	173	71	90	141	165	187	230	273
EM Cont Low	95	166	54	71	124	161	170	216	258
3.1K Temp Hi	111	164	69	94	147	163	184	229	257
3.1K Temp Low	103	163	54	88	143	155	185	212	252
3.1K Cont Hi	111	172	69	94	144	164	202	229	271
3.1K Cont Low	103	169	54	88	131	155	187	217	259
Candela	16VFWR								
	15	30	75	95	115	150	177		
EM Temp Hi	107	135	179	198	223	254	286		
EM Temp Low	78	101	151	172	199	229	262		
EM Cont Hi	107	135	179	198	223	254	286		
EM Cont Low	78	101	151	172	199	229	262		
3.1K Temp Hi	108	135	179	200	225	255	289		
3.1K Temp Low	79	101	150	171	196	229	260		
3.1K Cont Hi	108	135	179	200	225	255	289		
3.1K Cont Low	79	101	150	171	196	229	260		

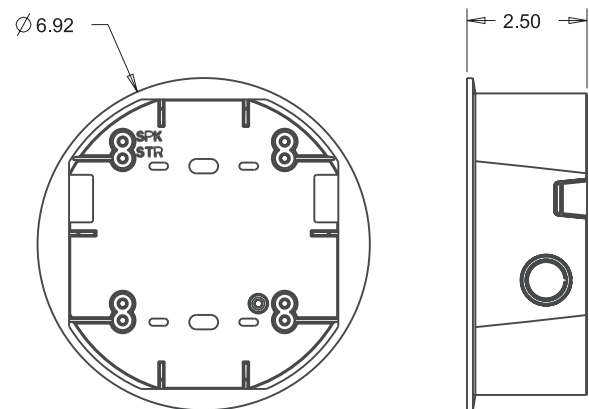
Horn Strobe Tones and Sound Output Data Anechoic (dBA)

Horn and Horn Strobe Output (dBA)					
Switch Position	Sound Pattern	dB	8–17.5 Volts	16–33 Volts	
			DC	DC	FWR
1	Temporal	High	90	96	95
2	Temporal	Low	82	87	88
3	Non-Temporal	High	90	96	95
4	Non-Temporal	Low	81	88	88
5	3.1 KHz Temporal	High	85	90	89
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	90	90
8	3.1 KHz Non-Temporal	Low	76	82	83
9	Coded	High	90	96	96
10	3.1 KHz Coded	High	84	90	90

SL-Series Dimensions



Ceiling-mount horn strobes



Ceiling back box surface mount back box

L-Series Ordering Information

Model	Description
Ceiling Horn Strobes	
PC2RLA	2-Wire, Horn Strobe, Red , Bilingual
PC2WLA	2-Wire, Horn Strobe, White, Bilingual
Add suffix -E for English only, -F for French only.	

Model	Description
Ceiling Strobes	
SCRLA	Strobe, Red
SCWLA	Strobe, White
Accessories	
MDL3A	Synchronization Module
TR-2	Universal Wall Trim Ring Red
TR-2W	Universal Wall Trim Ring White
SBBCRL	Ceiling Surface Mount Back Box, Red
SBBCWL	Ceiling Surface Mount Back Box, White



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