L-Series Drop-In Ceiling Tile Speakers and Speaker Strobes

General

System Sensor® Drop-In L-Series selectable-output speaker strobes and dual-voltage evacuation speakers enable faster trouble free installation. These speakers and strobes install faster than the traditional ceiling speaker or speaker strobe appliances. Neutral grill pattern makes this an excellent option for schools, office buildings, retail, restaurants, and hospital applications. Quickly upgrade your existing Horn Strobe application to a voice system or spec this for your next new construction project.

These devices also enable faster installations by providing quick wire nut connections, rotary switches to select voltage and power settings, and seven field-selectable candela settings for ceiling speaker strobes.

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

L-Series makes installation easy

- Complete turn-key solution that eliminates the need for a separate back box, extension ring, and suspended ceiling support bracket.
- Less time working overhead which reduces installer fatigue
- No more wasting time routing wires in a crowded junction box to make space for the back of the speaker
- Perfect fit, the First Time, Every Time. No more adjusting support brackets to get a tight fit between the appliance and ceiling tile
- Simplified wiring process saves time and eliminates ground faults
- Fast learning curve for new installers or summer helpers supporting school retrofits.



Speaker Strobe shown (as installed and close-up)

Features

- Complete drop-in suspended ceiling speaker and speaker strobe assembly
- L-Series Platform, common speaker and low current strobe
- Field selectable candela settings on strobe units: 15, 30, 75, 95, 115, 150, and 177
- 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 (¼, ½, 1 and 2 watts)
- Speakers offer high fidelity and high volume sound output
- Compatible with System Sensor synchronization protocol
- Electrical compatibility with existing L-Series, SpectrAlert®, and SpectrAlert Advance products
- UL Listed 2043, suitable for use in air-handling spaces
- Sized to use with standard drop-in ceiling systems 2 ft x 2 ft (61 cm x 61 cm opening)
- Includes seismic tie off or screw attachment points
- Speaker Strobe and Strobe models include a FIRE decal. Additional decals available as accessories.

Architect/Engineer Specifications

GENERAL

L-Series Drop-In speaker and speaker strobes shall mount to a 2 ft x 2 ft (61 cm x 61 cm) suspended ceiling tile opening. The back box is contained within the speaker or speaker strobe assembly. The notification appliance circuit and amplifier wiring shall terminate to wires within the assembly. 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. Speaker strobes shall have field-selectable candela settings including 15, 30, 75, 95, 115, 150, 177.

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 listed to UL 1480 (ULC in Canadian applications) shall be approved for fire protective service. 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.

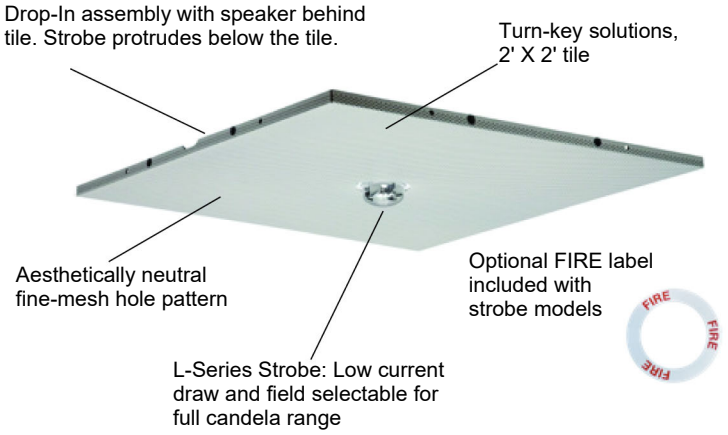
SPEAKER STROBE COMBINATION

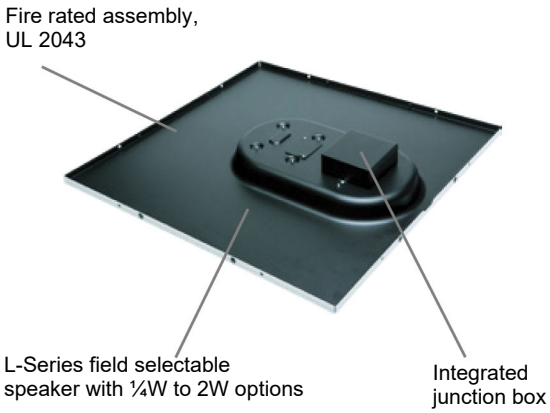
The speaker strobe shall be a System Sensor L-Series model listed to UL1480 and UL 1971 (ULC in Canadian applications) and be approved for fire protective signaling systems. The speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range 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 MDL3 listed to UL 464 (ULC in Canadian applications) and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz. The module shall mount to a $4^{11}/_{16}$ x $4^{11}/_{16}$ x $2^{1}/_{8}$ inch (11.9 cm x 11.9 cm x 5.4 cm) back box. The module shall also control two Class B circuits or one 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.

FEATURES





Physical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)		
Humidity Range	10 to 93% non-condensing		
Dimensions	**Length**	**Width**	**Depth**
SPCWL-TILE/SPCWLA-TILE Speaker	23.69 in. (602 cm)	23.69 in. (602 cm)	3.29 in. (84 mm)
SCWL-TILE/ SCWLA-TILE Strobe	23.69 in. (602 cm)	23.69 in. (602 cm)	3.29 in. (84 mm)
SPSCWL-TILE/ SPSCWLA-TILE Speaker Strobe	23.69 in. (602 cm)	23.69 in. (602 cm)	3.29 in. (84 mm)

Electrical Specifications

Nominal Voltage (speakers)	25 Volts or 70.7 Volts (nominal)
Maximum Supervisory Voltage (speakers)	50 VDC
Strobe Flash Rate	1 flash per second
Nominal Voltage (strobes)	Regulated 12 VDC or regulated 24 VDC/FWR[1,2]
Operating Voltage Range (includes fire alarm panels with built in sync)	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Operating Voltage with MDL3 Sync Module	8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal)
Frequency Range (Speakers)	400 to 4,000 Hz[3]
Power	¼, ½, 1, 2 watts

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. Strobe products will operate at 12 V nominal only for 15 and 30 cd.
3. 520 Hz +/- 10% square wave tone capable with compatible fire alarm control panel.

UL/ULC Current Draw and Sound Output Data

UL/ULC Max Strobe Current draw (mA RMS)

Candela	8 to 17.5 Volts	16 to 33 Volts	
	DC	DC	FWR
15	87	41	60
30	153	63	86
75	NA	111	142
95	NA	134	164
115	NA	158	191
150	NA	189	228
177	NA	226	264

Ceiling Mount Speaker Sound Output

Setting	UL Reverberant (dBA @ 10ft)	ULC Anechoic (dBA @ 10ft)
¼ W	77	79
½ W	79	82
1 W	83	85
2 W	86	88

Ordering Information

NOTE: *Tile models of the speaker and strobe products are electrically identical to standard models.*

Ceiling Mount		
Model	**Marking**	**Description**
SPCWL-TILE	PLAIN	Speaker Only, UL-listed
SCWL-TILE	FIRE	Strobe Only, UL-listed
SPSCWL-TILE	FIRE	Speaker Strobe, UL-listed
SPSCWLA-TILE	FIRE	Speaker Strobe, ULC-listed
Accessories		
DECAL-TILE-ALERT	ALERT	Labeling Kit, ALERT (pack of 10)
DECAL-TILE-E	FIRE	Labeling Kit, FIRE (pack of 10)
DECAL-TILE-FR	FIRE/FEU	Labeling Kit, FIRE/FEU (pack of 10)
DECAL-TILE-SPF	FUEGO	Labeling Kit, FUEGO (pack of 10)
LENS-AC2	na	Lens, Ceiling, Amber
LENS-BC2	na	Lens, Ceiling, Blue
LENS-GC2	na	Lens, Ceiling, Green
LENS-RC2	na	Lens, Ceiling, Red

Agency Listings

UL/ULC:

- S4048 (SPCWL-TILE, SPCWLA-TILE, SPSCW-TILE, SPSCWA-TILE)
- S5512 (SCWL-TILE, SCWLA-TILE)

FM: 3057493, 3057383

CSFM: 7125-1653:0522, 7320-1653:0521

ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING QUALITY SYSTEMS

This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

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