![System Sensor logo]

DRAFT

L-Series with LED Indoor Selectable-Output Horns, Strobes, and Horn Strobes

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

Features

- Updated modern aesthetics
- Small profile devices for Horns and Horn Strobes
- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Digital Voltage Meter (DVM) diagnostic test points for Horn Strobes and Strobes
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Field-selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Rotary switch for candela settings
- Rotary switch for tone and volume selections
- Mounting plate for all standard and compact wall units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with legacy SpectrAlert, SpectrAlert Advance, and initial release Xenon L-series devices
- Synchronization through use of UL approved power supplies that support System Sensor Sync protocol or System Sensor MDL3 Sync Module
- Horns, Strobes and Horn Strobes listed for wall or ceiling use

Agency Listings

The System Sensor L-Series with LED offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draws and modern aesthetics. With white and red plastic housings, standard and compact devices, and plain, FIRE, and FUEGO-printed devices, System Sensor L-Series with LED can meet virtually any application requirement.

The L-Series with LED line of horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs 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 and protect devices from construction damage, the L-Series with LED uses a universal mounting plate for all models with an onboard shorting spring, so installers can test wiring continuity before the device is installed. Installers can also easily adapt devices to suit a wide range of application requirements using field-selectable candela settings. Rotary switches select candela, horn tones, and volume.

L-Series Specifications

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Architect/Engineer Specifications

General

L-Series standard horns, LED strobes, LED horn strobes, shall mount to a standard 2 x 4 x 1⅞-inch back box, 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. L-Series compact products shall mount to a single-gang 2 × 4 × 1⅞-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products for all standard models and a separate universal mounting plate shall be used for mounting wall compact models. The notification appliance circuit wiring shall terminate at the universal mounting plate. Indoor L-Series with LED products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC power supply. Wall mount strobes, horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, and 185. Ceiling mount strobes, horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 115, 150, and 177.

LED Strobe

The strobe shall be a System Sensor L-Series LED Model _____ listed to UL 1638 and UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of LEDs and associated lens system.

LED Horn Strobe Combination

The horn strobe shall be a System Sensor L-Series LED Model _____ listed to UL 1638, UL1971, and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of LED's and associated lens 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 and horn strobe models shall operate on a coded or non-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 24 DC
Operating Voltage Range[2]	16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG

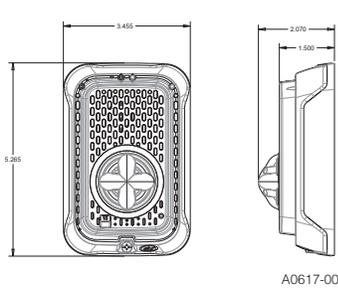# UL/ULC Current Draw Data, Horn Tones, and Sound Output Data

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UL/ULC Maxmimum Strobe Current Draw (mA)

	Candela Rating	16–33 Volts	
		Wall	Ceiling
Candela Range	15	18	18
	30	22	22
	75	70	70
	95	75	75
	110	85	—
	115	—	90
	135	105	—
	150	—	110
	177	—	115
	185	120	—

UL/ULC Maximum Horn Current Draw (mA)

Switch Pos.	Sound Pattern	Volume Setting (dB)	16–33 Volts DC
1	Temporal	High	44
2	Temporal	Low	32
3	Non-Temporal	High	47
4	Non-Temporal	Low	32
5	3.1KHz Temporal	High	41
6	3.1KHz Temporal	Low	32
7	3.1KHz Non-Temporal	High	43
8	3.1KHz Non-Temporal	Low	29

UL/ULC Maximum Horn Strobe Current Draw (mA) and Sound Output (dBA)

Switch Pos.	Sound Pattern	Volume Setting	Current Draw (mA RMS), Horn Strobe, Candela Range (15-185 cd), FCP*										Sound Output (dBA)
			16-33 Volts										16-33V
			15cd	30cd	75cd	95cd	110cd WALL	115cd CEILING	135cd WALL	150cd CEILING	170cd CEILING	185cd WALL	DC
1	Temporal	High	35	38	87	92	94	120	189	189	190	190	89
2	Temporal	Low	35	38	87	92	94	120	135	135	145	145	83
3	Non-Temporal	High	50	52	87	92	94	120	127	127	135	135	90
4	Non-Temporal	Low	35	38	87	92	94	120	125	125	130	130	84
5	3.1KHz Temporal	High	35	38	87	89	91	115	155	155	165	165	88
6	3.1KHz Temporal	Low	35	38	87	89	91	115	128	130	135	135	82
7	3.1KHz Non-Temporal	High	40	42	87	89	91	115	125	125	135	135	89
8	3.1KHz Non-Temporal	Low	35	38	87	89	91	115	120	120	130	130	83

L-Series with LED Dimensions: Wall-Mounted Equipment

3.455

2.070

1.500

5.265

A0617-00

**Compact Strobe, Horn Strobe
for Wall**

3.46"
88 mm

5.27"
133.9 mm

Compact Horn

1.25"
32 mm

3.57"
(9.1 cm)

5.38"
(13.7 cm)

UP

1.55"
(3.9 cm)
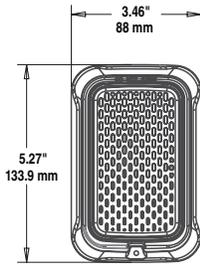
A0547-00
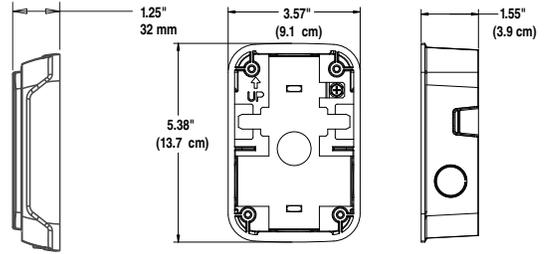
A0557-00

**Compact Surface Mount Back Box
for Walls (SBBGRL, SBBGWL)**

4.700

2.070

1.500

5.670
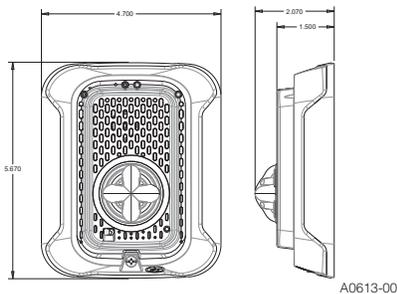
A0613-00

**Strobes, Horn Strobes
for Walls**

4.7"
119 mm

1.25"
32 mm

5.67"
144 mm

A0549-00

Horn

4.82"
(12.24 cm)

5.78"
(14.68 cm)

UP

1.85"
(4.69 cm)
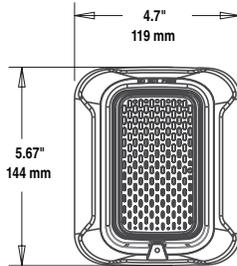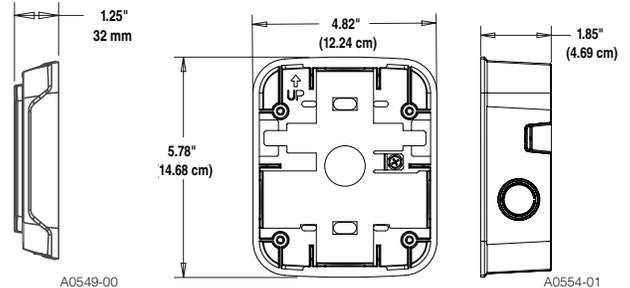
A0554-01

**Surface Mount Back Box
for Walls (SBBRL/SBBWL)**

6.83" diam.
(173.5 mm)

2.07"
(52.6 mm)

1.25"
(31.8 mm)

A0608-00
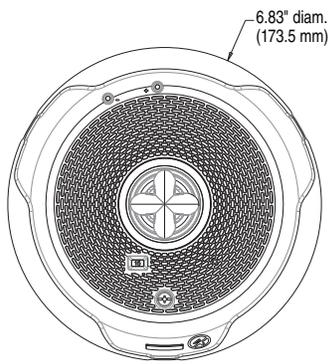
**Horn Strobes
for Ceilings**

6.92" diam.
(175.77 mm)

SPK
STR

2.5"
(64 mm)

A0546-00
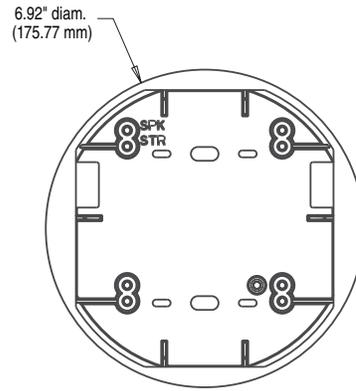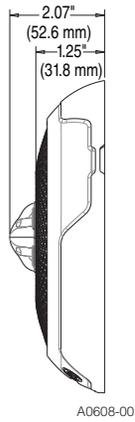
**Surface Mount Back Box
for Ceilings (SBBCRL, SBCWL)**
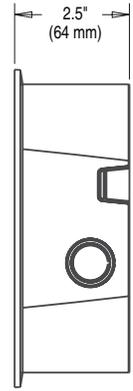
L-Series with LED: Ordering Information

Model	Description
LED Horn Strobes	
P2RLED	2-Wire, Horn Strobe, Wall, Red
P2RLED-B	2-Wire, Horn Strobe, Wall, Red, Bilingual
P2WLED	2-Wire, Horn Strobe, Wall, White
P2WLED-B	2-Wire, Horn Strobe, Wall, White, Bilingual
P2GRLED	2-Wire, Compact Horn Strobe, Wall, Red
P2GRLED-B	2-Wire, Compact Horn Strobe, Wall, Red, Bilingual
P2GWLED	2-Wire, Compact Horn Strobe, Wall, White
P2GWLED-B	2-Wire, Compact Horn Strobe, Wall, White, Bilingual
P2RLED-P	2-Wire, Horn Strobe, Wall, Red, Plain
P2WLED-P	2-Wire, Horn Strobe, Wall, White, Plain
P2RLED-SP	2-Wire, Horn Strobe, Wall, Red, FUEGO
P2WLED-SP	2-Wire, Horn Strobe, Wall, White, FUEGO
P4RLED	4-Wire, Horn Strobe, Wall, Red
P4RLED-B	4-Wire, Horn Strobe, Wall, Red, Bilingual
P4WLED	4-Wire, Horn Strobe, Wall, White
P4WLED-B	4-Wire, Horn Strobe, Wall, White, Bilingual
PC2RLED	2-Wire, Horn Strobe, Ceiling, Red
PC2RLED-B	2-Wire, Horn Strobe, Ceiling, Red, Bilingual
PC2WLED	2-Wire, Horn Strobe, Ceiling, White
PC2WLED-B	2-Wire, Horn Strobe, Ceiling, White, Bilingual
PC4RLED	4-Wire, Horn Strobe, Ceiling, Red
PC4RLED-B	4-Wire, Horn Strobe, Ceiling, Red, Bilingual
PC4WLED	4-Wire, Horn Strobe, Ceiling, White
PC4WLED-B	4-Wire, Horn Strobe, Ceiling, White, Bilingual

Model	Description
LED Horns	
HRL*	Horn, Red
HRLA*†	Horn, Red, Plain
HWL*	Horn, White
HWLA*†	Horn, White, Plain
HGRL*	Compact Horn, Red
HGRLA*†	Compact Horn, Red, Plain
HGWL*	Compact Horn, White
HGWLA*†	Compact Horn, White, Plain

Model	Description
LED Strobes	
SRLED	Strobe, Wall, Red
SRLED-B	Strobe, Wall, Red, Bilingual
SWLED	Strobe, Wall, White
SWLED-B	Strobe, Wall, White, Bilingual
SGRLED	Strobe, Compact, Wall, Red
SGRLED-B	Strobe, Compact, Wall, Red, Bilingual
SGWLED	Strobe, Compact, Wall, White
SGWLED-B	Strobe, Compact, Wall, White, Bilingual
SRLED-P	Strobe, Wall, Red, Plain
SWLED-P	Strobe, Wall, White, Plain
SRLED-SP	Strobe, Wall, Red, FUEGO
SWLED-CLR-ALERT	Strobe, Wall, White, ALERT
SWLED-ALERT	Strobe, Wall, White, ALERT, Amber Lens
SCRLED	Strobe, Ceiling, Red
SCRLED-B	Strobe, Ceiling, Red, Bilingual
SCRLED-P	Strobe, Ceiling, White, Plain
SCWLED	Strobe, Ceiling, White
SCWLED-B	Strobe, Ceiling, White, Bilingual
SCWLED-P	Strobe, Ceiling, White, Plain
SCWLED-CLR-ALERT	Strobe, Ceiling, White, ALERT

Model	Description
Accessories	
TR-2	Universal Wall Trim Ring Red
TR-2W	Universal Wall Trim Ring White
SBBRL	Wall Surface Mount Back Box, Red
SBBWL	Wall Surface Mount Back Box, White
SBBGRL	Compact Wall Surface Mount Back Box, Red
SBBGWL	Compact Wall Surface Mount Back Box, White
TRC-2	Universal Ceiling Trim Ring, Red
TRC-2W	Universal Ceiling Trim Ring, White
SBBCRL	Ceiling Surface Mount Back Box, Red
SBBCWL	Ceiling Surface Mount Back Box, White

Notes:

All -P models have a plain housing (no "FIRE" marking on cover).
All -SP models have "FUEGO" marking on cover.
All -ALERT models have "ALERT" marking on cover.
All -B models have "FIRE/FEU" marking on cover for use in Canadian applications.
Amber lenses are not for use in Canadian applications
*Horn-only models are listed for wall or ceiling use.
*Horn-only models ending in "A" are for use in Canadian applications

System Sensor®