



L-Series Low Frequency Sounders and L-Series with LED Low Frequency Sounder Strobes

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



Features

- 520 Hz $\pm$ 10% square wave tone, NFPA compliance
- LED Technology provides lower current draw
- Electrically compatible with legacy SpectrAlert Advance and L-Series devices at 16 - 33VDC
- Digital Voltage Meter (DVM) diagnostic test points for Sounder Strobes and Sounders
- Field-selectable candela settings for sounder strobes units:
Wall = 15, 30, 75, 95, 110, 135, and 185
Ceiling = 15, 30, 75, 95, 115, 150, and 177
- Rotary switch for High/Low, Temp3, Temp4, and Continuous settings. Sounder-only models also offer a Coded setting.
- Plug-in design with minimal intrusion into the back box
- Synchronization through use of UL approved power supplies that support System Sensor Sync or System Sensor MDL Sync Module
- Mounting plate shorting spring checks wiring continuity before device installation
- Compact, standard size for wall and round ceiling options
- Sounders listed for ceiling and wall

Agency Listings



System Sensor L-Series and L-Series with LED platform offer the most versatile and easy-to-use line of Low Frequency Sounders and Sounder Strobes in the industry with lower current draw and modern aesthetics. They are designed to address the NFPA 72 sleeping space requirements that require a low frequency notification appliance that operates within frequency range of 520 Hz $\pm$ 10% and is of a square wave tone.

Flexible design options meet virtually any application requirement: wall or ceiling mount, red or white color choices, bezel kits for alternate markings and languages, and LED color lenses for distinctive visual signaling.

The L-Series and L-Series with LED appliances are developed to simplify 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. The universal mounting plate includes an onboard shorting spring, so installers can test wiring continuity before the device is installed.

In addition, the System Sensor L-Series with LED notification appliances offer a new diagnostic test point feature that allows you to measure device voltage with a digital voltage meter (DVM) without removing the appliance from the wall or ceiling. The DVM test points are discreetly located on the face of the notification appliance, which enables faster troubleshooting and end-of-line (EOL) voltage checks while greatly reducing the risk of misplacing or damaging appliances during troubleshooting.

Physical/Electrical Specifications	
Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Frequency Range	520 Hz ± 10%
Strobe Flash Rate	1 flash per second
Nominal Voltage Low Frequency Sounder	Regulated 24 DC
Nominal Voltage Range Low Frequency Sounder Strobe	Regulated 24 VDC
Operating Voltage Range	16 to 33 V (24 V nominal)
Operating Voltage Range with MDL Sync Module	16.5 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG

Dimensions	
Wall Sounder Strobe (including lens)	5.67" L x 4.7" W x 2.20" D (144 mm L x 119.4 mm W x 55.8 mm D)
Ceiling Sounder Strobe (including lens)	6.80" diameter x 2.20" depth (173 mm diameter x 55.8 mm D)
Wall Sounder	5.67" L x 4.7" W x 1.63" D (144 mm L x 119.4 mm W x 41.3 mm D)
Compact Wall Sounder	5.26" L x 3.46" W x 1.63" D (133.5 mm L x 87.8 mm W x 41.3 mm D)
Ceiling Sounder	6.80" diameter x 1.63" depth (172.7 mm diameter x 41.3 mm D)
Wall Sounder Strobe with SBBRL/SBBWL Surface Mount Back Box	5.77" L x 4.82" W x 4.05" D (146.7 mm L x 122.3 mm W x 102.8 mm D)
Ceiling Sounder Strobe with SBBCRL/SBBCWL Surface Mount Back Box	6.92" diameter x 4.70" depth (175.8 mm diameter x 119.3 mm D)
Wall Sounder with SBBRL/SBBWL Surface Mount Back Box	5.77" L x 4.82" W x 3.48" D (146.7 mm L x 122.3 mm W x 88.3 mm D)
Compact Wall Sounder with SBBGRL/SBBGWL Surface Mount Back Box	5.38" L x 3.57" W x 3.18" D (136.7 mm L x 90.8 mm W x 80.6 mm D)
Ceiling Sounder with SBBCRL/SBBCWL Surface Mount Back Box	6.92" diameter x 4.13" depth (175.8 mm diameter x 104.8 mm D)

UL Current Draw and Sound Output Data

Wall Sounder Strobe Current Draw (mA) and Sound Output (dBA)										
Wall Sounder Strobe Pos Tone Volume Setting			Current Draw (mA)							Sound Output (dBA)
			16-33 VDC							16-33 V
			15cd	30cd	75cd	95cd	110cd	135cd	185cd	DC
1	Temporal 3	High	90	95	117	125	131	137	145	81
2	Temporal 3	Low	89	89	89	89	89	91	99	78
3	Temporal 4	High	89	89	89	89	90	97	125	81
4	Temporal 4	Low	89	89	89	89	89	89	91	78
5	Continuous	High	137	138	158	163	169	176	185	81
6	Continuous	Low	88	89	89	91	97	104	113	78

Ceiling Sounder Strobe Current Draw (mA) and Sound Output (dBA)										
Ceiling Sounder Strobe Pos Tone Volume Setting			Current Draw (mA)							Sound Output (dBA)
			16-33 VDC							16-33 V
			15cd	30cd	75cd	95cd	115cd	150cd	177cd	DC
1	Temporal 3	High	90	95	117	125	130	139	143	79
2	Temporal 3	Low	89	89	89	89	88	94	102	75
3	Temporal 4	High	89	89	89	89	88	107	114	79
4	Temporal 4	Low	89	89	89	89	89	88	89	75
5	Continuous	High	137	138	158	163	171	182	185	79
6	Continuous	Low	88	89	89	91	96	109	111	75

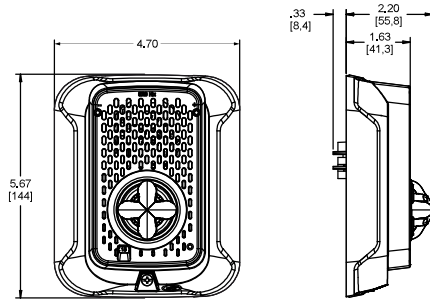
Low Frequency Wall Sounder Only Current Draw (mA)				
Wall Sounder Pos Tone Volume Setting			Current Draw (mA)	Sound Output (dBA) Reverberant
			16-33 Volts	16-33 Volts
			DC	DC
1	Temporal 3	High	79	80
2	Temporal 3	Low	79	76
3	Temporal 4	High	79	80
4	Temporal 4	Low	78	76
5	Continuous	High	82	80
6	Continuous	Low	78	76
7	Coded	High	82	80
8	Coded	Low	79	76

*NOTE: For coded tones, temporal coding must be provided by the NAC. If the NAC voltage is held constant, the sounder output will remain constantly on. Coded ratings provided are for continuous voltage.

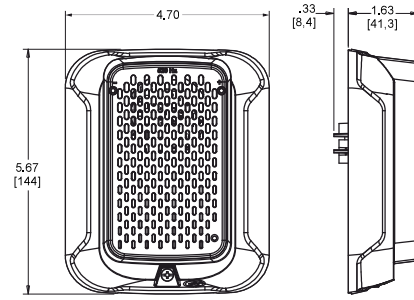
Low Frequency Ceiling Sounder Only Current Draw (mA)				
Ceiling Sounder Pos Tone Volume Setting			Current Draw (mA)	Sound Output (dBA) Reverberant
			16-33 Volts	16-33 Volts
			DC	DC
1	Temporal 3	High	79	78
2	Temporal 3	Low	79	74
3	Temporal 4	High	79	78
4	Temporal 4	Low	78	74
5	Continuous	High	82	78
6	Continuous	Low	78	74
7	Coded	High	82	78
8	Coded	Low	79	74

*NOTE: For coded tones, temporal coding must be provided by the NAC. If the NAC voltage is held constant, the sounder output will remain constantly on. Coded ratings provided are for continuous voltage.

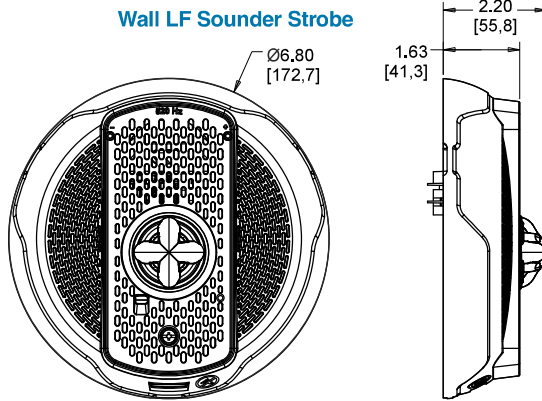
L-Series Dimensions



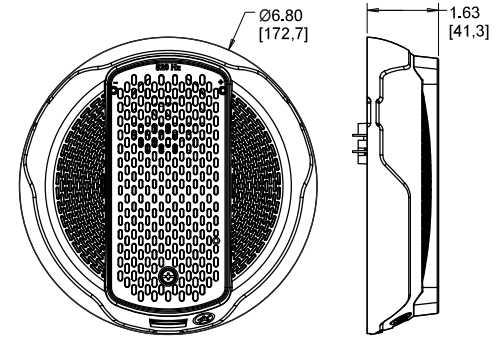
Wall LF Sounder Strobe



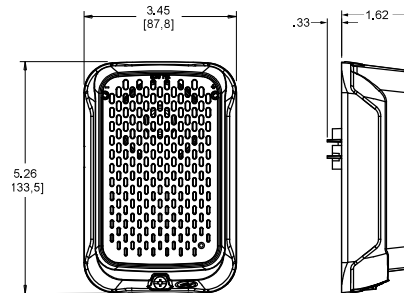
Wall LF Sounder



Ceiling LF Sounder Strobe



Ceiling LF Sounder



Compact Wall LF Sounder

Part No.		Description
Red	White	
Low Frequency Sounder Strobes		
P2RLED-LF	P2WLED-LF	LF Sounder Strobe, Wall
PC2RLED-LF	PC2WLED-LF	LF Sounder Strobe, Ceiling
Low Frequency Sounders		
HRL2-LF	HWL2-LF	LF Sounder, Wall
HGRL2-LF	HGWL2-LF	Compact LF Sounder, Wall
HCRL2-LF	HCWL2-LF	LF Sounder, Ceiling
Accessories		
MDL3R	MDL3W	Sync•Circuit Module, UL-listed
SBBRL	SBBWL	Surface Mount Back Box, Wall
SBBCRL	SBBCWL	Surface Mount Back Box, Ceiling
SBBGRL	SBBGWL	Surface Mount Back Box, Wall, Compact

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