



Field-Selectable Emergency Communications Devices

System Sensor L-Series emergency communications devices and accessories combine application versatility with all the time- and money-saving benefits of the L-Series line.

Emergency Communications Features:

- Plain or ALERT-printed white housings
- Clear or Amber lens strobes and speaker strobes
- Color lens attachments for use with clear lens wall or ceiling strobes
- Meets DoD specification requirements

L-Series Features:

- Plug-in design for simplified installation and troubleshooting
- Mounting plate shorting spring easily tests wiring continuity
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Field-selectable candela settings of:
 - Wall: 15, 30, 75, 95, 110, 135, 185
 - Ceiling: 15, 30, 75, 95, 115, 150, 177
- Rated from 32°F to 120°F (indoor devices)
- Optional tamper-resistant Torx head screw
- Compatible with System Sensor synchronization protocol

Agency Listings



Horn strobes:
S5512, S4011
Speaker Strobes:
S4048



FM approved except for
ALERT models and colored lenses.
Horn Strobes: 3057383, 3057072
Speaker Strobes: 3057493



Strobes: 7125-1653:0504
Horns/Horn Strobes: 7135-1653:0503
Speaker Strobes: 7320-1653:0505



System Sensor L-Series, the broadest and most versatile line of notification devices available, includes a wide range of devices to meet emergency communications application requirements.

ALERT-printed on white housings amber lens strobes and speaker strobes provide visual signaling for emergency communications in compliance with ANSI/UL 1638 — Standard for General Signaling Visible Appliances. Other Plain or ALERT-printed models provide clear lenses for use with color lens strobe attachments (amber, blue, green, and red) that easily attach to strobe and speaker strobe devices without a candela derating.

In addition, L-Series emergency communications devices include plain (non-printed) strobes, horn strobes, and speaker strobes. These devices, along with ALERT-printed devices and L-Series accessories, can meet a wide range of requirements for indoor applications, including emergency communications, general signaling, severe weather, and emergency response.

All L-Series emergency communications and general signaling devices are compatible with the entire L-Series line and include all the same time- and money-saving innovations. For example, plug in design simplifies installation and reduces costly ground faults, universal mounting plates with onboard shorting springs test wiring continuity to speed installation and protect devices from damage, and field-selectable settings provide versatility and enable installers to quickly set each device to meet application requirements.

L-Series Specifications

Architectural/Engineering Specifications

General

System Sensor L-Series strobes and horn strobes shall mount to a standard 4 x 4 x 1½-inch back box, 4-inch octagon back box, or double-gang back box. L-Series compact devices shall mount to a single-gang 2 x 4 x 1½-inch back box. L-Series speaker strobes shall mount to a 4 x 4 x 2½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring and amplifier wiring shall terminate at the universal mounting plate. Also, L-Series products, 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 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes, horn strobes, and speaker strobes shall have field-selectable candela settings, including 15, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The clear strobe shall be a System Sensor L-Series Model _____ listed to UL 1971 and shall be approved for fire protective service. Colored lens strobes shall be listed to ANSI/UL 1638 and shall be approved for Private Mode Emergency. 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 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 UL 1971 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 a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three-pattern and a non-temporal (continuous) pattern. These options shall be set by a multiple position switch. The horn and horn strobe models shall operate on a coded or non-coded power supply.

Speaker Strobe Combination

The speaker strobe shall be a System Sensor L-Series Model _____ listed to UL 1480 and UL 1971 and be approved for fire protective signaling systems. 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. 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 and shall be approved for fire protective service. The module shall synchronize L-Series 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 411/16 x 411/16 x 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.

Color Lens Strobe Attachment

The System Sensor L-Series color lens attachments shall be approved for fire protective service as listed in UL 1638. The lens attachments shall only be used with (plain non-fire-printed) System Sensor strobe devices. They shall mount to any wall or ceiling strobe and be rated from minus 35 degrees to 151 degrees Fahrenheit. The effective light loss for wall units shall be as follows Amber = 0%, Blue = -40%, Green = -65%, Red = -85%

Physical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Dimensions Wall-Mount Strobe and Horn Strobe (including lens)	5.6" L x 4.7" W x 1.91" D (143 mm L x 119 mm W x 49 mm D)
SPS Speaker Strobe (including lens)	6.5" L x 5.0" W x 2.3" D (165 mm L x 127 mm W x 58 mm D)
Dimensions Ceiling-Mount Strobe (including lens)	6.8" diameter x 2.8" D

Electrical/Operating Specifications

Nominal Voltage (strobes and horn strobes)	Regulated 12 VDC or regulated 24 DC/FWR
Nominal Voltage (speakers)	25 V or 70.7 V (nominal)
Maximum Supervisory Voltage (speakers)	50 VDC
Operating Voltage Range	8 to 17.5 V (12 V nominal) or 17 to 33 V (24 V nominal)
Operating Voltage Range with MDL3	8.5 to 17.5 (12V nominal) or 16.5 to 33V (24V nominal)
Strobe Flash Rate	1 flash per second
Speaker Frequency Range	400 to 4,000 Hz
Speaker Power	¼, ½, 1, 2 watts

Speaker Sound Output

UL Reverberant (dBA @ 10 ft.)	2 W	1 W	½ W	¼ W
Wall-Mount SPS Series	88	85	82	79
Ceiling-Mount SPC Series	88	85	82	79

UL Current Draw Data

UL 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
110	N/A	148	179
115	N/A	158	191
135	N/A	172	209
150	N/A	189	228
177	N/A	226	264
185	N/A	222	257

Wall Candela Settings: 15, 30, 75, 95, 110, 135, 185

Ceiling Candela Settings: 15, 30, 75, 95, 115, 150, 177

UL Max. Current Draw (mA RMA), 2-Wire Horn Strobe												
DC Input	8VDC		16VDC									
	15	30	15	30	75	95	110	115	135	150	175	185
Temporal High	98	158	54	74	121	142	162	187	196	217	254	245
Temporal Low	93	154	44	65	111	133	157	185	184	211	249	235
Non-Temporal High	106	166	73	94	139	160	182	187	211	230	273	262
Non-Temporal Low	93	156	51	71	119	139	162	170	190	216	258	239
3.1K Temporal High	93	156	53	73	119	140	164	184	190	229	257	242
3.1K Temporal Low	91	154	45	66	112	133	160	185	185	212	252	235
3.1K Non-Temporal High	99	162	69	90	135	157	175	202	208	229	271	261
3.1K Non-Temporal Low	93	156	52	72	119	138	162	187	192	217	259	242
16VFWR												
FWR Input	15	30	75	95	110	115	135	150	175	185		
Temporal High	83	107	156	177	198	223	234	254	286	287		
Temporal Low	68	91	145	165	185	199	223	229	262	271		
Non-Temporal High	108	135	181	207	230	223	264	254	286	315		
Non-Temporal Low	79	104	157	175	197	199	235	229	262	281		
3.1K Temporal High	81	105	155	177	196	225	234	255	289	284		
3.1K Temporal Low	68	90	145	166	186	196	222	229	260	276		
3.1K Non-Temporal High	101	131	176	204	230	225	264	255	289	326		
3.1K Non-Temporal Low	77	102	156	177	199	196	234	229	260	291		

Wall Candela Settings: 15, 30, 75, 95, 110, 135, 185

Ceiling Candela Settings: 15, 30, 75, 95, 115, 150, 177

Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)					
Switch Position	Sound Pattern	dB	8–17.5 Volts	16–33 Volts	
			DC	DC	FWR
1	Temporal	High	84	89	89
2	Temporal	Low	75	83	83
3	Non-Temporal	High	85	90	90
4	Non-Temporal	Low	76	84	84
5	3.1 KHz Temporal	High	83	88	88
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	89	89
8	3.1 KHz Non-Temporal	Low	77	83	83
9*	Coded	High	85	90	90
10*	3.1 KHz Coded	High	84	89	89

* Settings 9 and 10 are not available on the 2-wire horn strobes.

L-Series Ordering Information

Part No.	Description
Alert Devices	
SWL-CLR-ALERT	Strobe, White, Wall, Clear Lens, Alert
SWL-ALERT	Strobe, White, Wall, Amber Lens, Alert
SCWL-CLR-ALERT	Strobe, White, Ceiling, Clear Lens, Alert
SPSWL-ALERT	Speaker Strobe, White, Wall, Amber Lens, Alert
SPSWL-CLR-ALERT	Speaker Strobe, White, Wall, Clear Lens, Alert
SPSCWL-CLR-ALERT	Speaker Strobe, White, Ceiling, Clear Lens, Alert
Plain Wall Strobes	
SRL-P	Strobe, Red, Wall, Plain
SWL-P	Strobe, White, Wall, Plain
Plain Wall Horn Strobes	
P2RL-P	Horn Strobe, Red, Wall, Plain
P2WL-P	Horn Strobe, White, Wall, Plain
Plain Wall Speaker Strobes	
SPSRL-P	Speaker Strobe, Red, Wall, Plain
SPSWL-P	Speaker Strobe, White, Wall, Plain
Plain Ceiling Speaker Strobes	
SPSCWL-P	Speaker Strobe, White, Ceiling, Plain

Notes:

All -P models have a plain housing (no "FIRE" marking on cover).

Part No.	Description
Colored Lenses	
LENS-A2	Wall-Mount Lens Attachment, Amber
LENS-B2	Wall-Mount Lens Attachment, Blue
LENS-G2	Wall-Mount Lens Attachment, Green
LENS-R2	Wall-Mount Lens Attachment, Red
LENS-AC2	Ceiling-Mount Lens Attachment, Amber
LENS-BC2	Ceiling-Mount Lens Attachment, Blue
LENS-GC2	Ceiling-Mount Lens Attachment, Green
LENS-RC2	Ceiling-Mount Lens Attachment, Red
Bezel Kits*	
BZR	Wall Red Bezel Kit
BZW	Wall White Bezel Kit
BZGR	Compact Wall Red Bezel Kit
BZGW	Compact Wall White Bezel Kit
BZRC	Horn/Strobe Ceiling Red Bezel Kit
BZWC	Horn/Strobe Ceiling White Bezel Kit
BZSPR	Speaker Wall Red Bezel Kit
BZSPW	Speaker Wall White Bezel Kit
BZSPRC	Speaker Ceiling Red Bezel Kit
BZSPWC	Speaker Ceiling White Bezel Kit

*Each bezel pack ships in a package of 5. For bezel option add -F (FIRE), -AL (ALERT), -EV (EVAC), -AG (AGENT), -P (Plain), -SP (FUEGO), -PG (FOGO) for desired printing.



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 AVDS87102 • 03/17