Field-Selectable Emergency Communications Devices

NOTIFIER® by Honeywell

Audio/Visual Devices

General

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

The L-Series of Audio Visual devices has the broadest and most versatile line of notification devices available. It 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.

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.
- 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.
- UL 464 (520 Hz) listed and complies with NFPA 72 requirements for low frequency with compatible fire alarm control panel.



SPSCWL-CLR-ALERT, P2GRL-P, SWL-CLR-ALERT

L-Series Specifications

ARCHITECTURAL/ENGINEERING SPECIFICATIONS

General: System Sensor L-Series strobes and horn strobes shall mount to a standard 4" × 4" × 1½" back box, 4" octagon back box, or double-gang back box. L-Series Compact shall mount to a single-gang 2" × 4" × $1^{7}/_{8}$" back box. L-Series speaker strobes shall mount to a 4" x 4" x $2^{1}/_{8}$" 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 at1 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 $4^{11}/_{16}$" × $4^{11}/_{16}$" × $2^{1}/_{8}$" 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.

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 1.25" D.
  - **SPS Speaker Strobe:** 6.5" L x 5.0" W x 2.3" D (including lens and speaker)
  - **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)

	8-17.5 Volts	16-33 Volts	
Candela	DC	DC	FWR
5	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, 115, 150, 177
Ceiling Candela Settings: 15, 30, 75, 95, 110, 135, 185

UL MAX. CURRENT DRAW (MA RMS), 2-WIRE HORN STROBE

	DC Input: 8-17.5 Volts		DC Input: 16-33 Volts										FWR Input: 16 FWR									
	15 cd	30 cd	15 cd	30 cd	75 cd	95 cd	110 cd	115 cd	135 cd	150 cd	175 cd	185 cd	15 cd	30 cd	75 cd	95 cd	110 cd	115 cd	135 cd	150 cd	175 cd	185 cd
Temporal High	15	30	54	74	121	142	162	187	196	217	254	245	83	107	156	177	198	223	234	254	286	287
Temporal Low	98	158	44	65	111	133	157	185	184	211	249	235	68	91	145	165	185	199	223	229	262	271
Non-Temporal High	93	154	73	94	139	160	182	187	211	230	273	262	108	135	181	207	230	223	264	254	286	315
Non-TemporalLow	106	166	51	71	119	139	162	170	190	216	258	239	79	104	157	175	197	199	235	229	262	281
3.1K Temporal High	93	156	53	73	119	140	164	184	190	229	257	242	81	105	155	177	196	225	234	255	289	284
3.1K Temporal Low	93	156	45	66	112	133	160	185	185	212	252	235	68	90	145	166	186	196	222	229	260	276
3.1K Non-Temporal High	91	154	69	90	135	157	175	202	208	229	271	261	101	131	176	204	230	225	264	255	289	326
3.1K Non-Temporal Low	99	162	52	72	119	138	162	187	192	217	259	242	77	102	156	177	199	196	234	229	260	291

The 3.1k is the sound of the mini-horns. The EM (which stands for Electro-mechanical) is the sound of the SpectrAlert Advance line which uses an algorithm that hops frequencies between 2Hz and 4Hz.

HORN TONES AND SOUND OUTPUT DATA: HORN AND HORN STROBE OUTPUT (DBA)

The 3.1k is the sound of the mini-horns. The EM (which stands for Electro-mechanical) is the sound of the SpectrAlert Advance line which uses an algorithm that hops frequencies between 2Hz and 4Hz. In the coded positions, temporal coding must be provided by the NAC. If the NAC voltage is held constant, the horn output will remain constantly on.

Position	Sound Pattern	8-17.5 Volts	16-33 Volts		8-17.5 Volts
		DC	DC	FWR	DC
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.

Agency Listings and Approvals

The listings and approvals below apply to L-series devices. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL-Listed**
  - S4048 Plain Wall Speaker Strobes
  - S4048 Plain Ceiling Speaker Strobes
  - S4048 Speaker Strobe ALERT devices
- **UL/ULC-Listed**
  - S5512 Colored Lenses
  - S5512 Plain Wall Strobes
  - S4011 Plain Wall Horn Strobes
  - S5512 Strobe-only ALERT devices
- **FM Approved** (Except ALERT models and colored lenses)
- **CSFM Listed:**
  - 7125-1653:0504 (Colored lenses, Plain Wall Strobes, Plain Wall Horn Strobes, Plain Wall Speaker Strobes, Plain Ceiling Speaker Strobes, Strobe-only ALERT models)
  - 7320-1653:0505 (Speaker-strobe ALERT models)

Product Line Information

NOTE: *Add "-P" suffix for plain housing (no "FIRE" marking on cover).*

NOTE: *Add "-ALERT" suffix for "ALERT" marking on cover.*

NOTE: *"A" suffix indicates ULC-Listed model. ULC-listed devices include required French labeling. See Agency Listings for listing details.*

NOTE: *"A" suffix indicates ULC-listed models, ULC models have FIRE/FEU marking on cover.*

ALERT DEVICES

SWL-CLR-ALERT. Strobe, Wall, Clear Lens, ALERT (White).

SWL-ALERT. Strobe, Wall, Amber Lens, ALERT (White).

SCWL-CLR-ALERT. Strobe, Ceiling, Clear Lens, ALERT (White).

SPSWL-ALERT. Speaker Strobe, Wall, Amber Lens, ALERT (White) (UL/ULC-listed).

SPSWL-CLR-ALERT. Speaker Strobe, White, Wall, Clear Lens, ALERT (UL/ULC-listed).

SPSCWL-CLR-ALERT. Speaker Strobe, Ceiling, Clear Lens, ALERT (UL/ULC-listed).

PLAIN WALL STROBES

SWL-P, SRL-P. Strobe, Wall, Plain (White, Red).

PLAIN WALL HORN STROBES

P2WL(A)-P, P2RL(A)-P. Horn Strobe, Wall, Plain (White, Red).

PLAIN WALL SPEAKER STROBES

SPSWL(A)-P, SPSRL(A)-P. Speaker Strobe, Wall, Plain (White, Red).

PLAIN CEILING SPEAKER STROBES

SPSCWL(A)-P. Speaker Strobe, Ceiling, Plain (White).

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**

BZW, BZR. Wall Bezel Kit (White, Red).

BZGW, BZGR. Compact Wall Bezel Kit (White, Red).

BZWC, BZRC. Horn/Strobe Ceiling Bezel Kit (White, Red).

BZSPW, BZSPR. Speaker Wall Red Bezel Kit (White, Red).

BZSPWC, BZSPRC. Speaker Ceiling Red Bezel Kit. (White, Red).

NOTE: *For bezel option add -F (FIRE), -AL (ALERT), -EV (EVAC), -AG (AGENT), -P (Plain), -SP (FUEGO), -PG (FOGO) suffix for desired printing.*

NOTE: *Each bezel pack ships in a package of 5.*

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ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

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