



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) – Ceiling | | | |
|---|--------------|-----|-------------|
| 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 |
| 115 | N/A | 158 | 191 |
| 150 | N/A | 189 | 228 |
| 177 | N/A | 226 | 264 |

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

| UL Max Strobe Current Draw (mA RMS) – Wall | | | |
|--|--------------|-----|-------------|
| 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 |
| 135 | N/A | 172 | 209 |
| 185 | N/A | 222 | 257 |

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

| UL Max. Current Draw (mA RMS), Wall Horn Strobe, Candela Range (15–185 cd) | | | | | | | | | |
|--|--------------|------|-------------|------|-------|-------|-------|-------|-------|
| DC Input | 8–17.5 Volts | | 16–33 Volts | | 75cd | 95cd | 110cd | 135cd | 185cd |
| | 15cd | 30cd | 15cd | 30cd | | | | | |
| Temporal High | 98 | 158 | 54 | 74 | 121 | 142 | 162 | 196 | 245 |
| Temporal Low | 93 | 154 | 44 | 65 | 111 | 133 | 157 | 184 | 235 |
| Non-Temporal High | 106 | 166 | 73 | 94 | 139 | 160 | 182 | 211 | 262 |
| Non-Temporal Low | 93 | 156 | 51 | 71 | 119 | 139 | 162 | 190 | 239 |
| 3.1K Temporal High | 93 | 156 | 53 | 73 | 119 | 140 | 164 | 190 | 242 |
| 3.1K Temporal Low | 91 | 154 | 45 | 66 | 112 | 133 | 160 | 185 | 235 |
| 3.1K Non-Temporal High | 99 | 162 | 69 | 90 | 135 | 157 | 175 | 208 | 261 |
| 3.1K Non-Temporal Low | 93 | 156 | 52 | 72 | 119 | 138 | 162 | 192 | 242 |
| 16–33 Volts | | | | | | | | | |
| FWR Input | 15cd | 30cd | 75cd | 95cd | 110cd | 135cd | 185cd | | |
| Temporal High | 83 | 107 | 156 | 177 | 198 | 234 | 287 | | |
| Temporal Low | 68 | 91 | 145 | 165 | 185 | 223 | 271 | | |
| Non-Temporal High | 111 | 135 | 185 | 207 | 230 | 264 | 316 | | |
| Non-Temporal Low | 79 | 104 | 157 | 175 | 197 | 235 | 283 | | |
| 3.1K Temporal High | 81 | 105 | 155 | 177 | 196 | 234 | 284 | | |
| 3.1K Temporal Low | 68 | 90 | 145 | 166 | 186 | 222 | 276 | | |
| 3.1K Non-Temporal High | 104 | 131 | 177 | 204 | 230 | 264 | 326 | | |
| 3.1K Non-Temporal Low | 77 | 102 | 156 | 177 | 199 | 234 | 291 | | |

| UL Max. Current Draw (mA RMS), Ceiling Horn Strobe, Candela Range (15–177 cd) | | | | | | | | | |
|---|--------------|------|-------------|------|-------|-------|-------|-------|-------|
| DC Input | 8–17.5 Volts | | 16–33 Volts | | 75cd | 95cd | 115cd | 150cd | 177cd |
| | 15cd | 30cd | 15cd | 30cd | | | | | |
| Temporal High | 103 | 167 | 71 | 90 | 143 | 165 | 187 | 217 | 254 |
| Temporal Low | 96 | 165 | 54 | 71 | 137 | 161 | 185 | 211 | 249 |
| Non-Temporal High | 106 | 173 | 71 | 90 | 141 | 165 | 187 | 230 | 273 |
| Non-Temporal Low | 95 | 166 | 54 | 71 | 124 | 161 | 170 | 216 | 258 |
| 3.1K Temporal High | 111 | 164 | 69 | 94 | 147 | 163 | 184 | 229 | 257 |
| 3.1K Temporal Low | 103 | 163 | 54 | 88 | 143 | 155 | 185 | 212 | 252 |
| 3.1K Non-Temporal High | 111 | 172 | 69 | 94 | 144 | 164 | 202 | 229 | 271 |
| 3.1K Non-Temporal Low | 103 | 169 | 54 | 88 | 131 | 155 | 187 | 217 | 259 |
| 16–33 Volts | | | | | | | | | |
| FWR Input | 15cd | 30cd | 75cd | 95cd | 115cd | 150cd | 177cd | | |
| Temporal High | 107 | 135 | 179 | 198 | 223 | 254 | 286 | | |
| Temporal Low | 78 | 101 | 151 | 172 | 199 | 229 | 262 | | |
| Non-Temporal High | 107 | 135 | 179 | 198 | 223 | 254 | 286 | | |
| Non-Temporal Low | 78 | 101 | 151 | 172 | 199 | 229 | 262 | | |
| 3.1K Temporal High | 108 | 135 | 179 | 200 | 225 | 255 | 289 | | |
| 3.1K Temporal Low | 79 | 101 | 150 | 171 | 196 | 229 | 260 | | |
| 3.1K Non-Temporal High | 108 | 135 | 179 | 200 | 225 | 255 | 289 | | |
| 3.1K Non-Temporal Low | 79 | 101 | 150 | 171 | 196 | 229 | 260 | | |

Horn Tones and Sound Output Data

| Horn Strobe Output (dBA) | | | 8-17.5 Volts | 16-33 Volts | |
|--------------------------|----------------------|------|-----------------|----------------|-----|
| Switch Position | Sound Pattern | dB | 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 |

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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