# Indoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications

NOTIFIER® by Honeywell

**Audio/Visual Devices**

## General

The L-Series 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 small footprint devices, and plain, FIRE-printed devices, L-Series can meet virtually any application requirement.

The L-Series product line of wall-mount 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, L-Series utilizes a universal mounting plate for all standard and compact models with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to a suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with two volume selections.




P2RL




P2GWL




SGWL



HWL

## 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.
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela.
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185.
- Horn rated at 88+ dBA at 16 volts.
- Rotary switch for horn tone and two volume selections.
- Universal mounting plate for all standard and all compact wall units.
- Mounting plate shorting spring checks wiring continuity. before device installation.
- Electrically Compatible with legacy SpectrAlert® and SpectrAlert Advance devices.
- Compatible with MDL3 sync module.
- Listed for wall mounting only.

## Architectural/Engineering Specifications

**General:** L-Series standard horns, strobes, and horn strobes shall mount to a standard 2" x 4" x $1^{7}/_{8}$" back box, 4" × 4" × 1½" back box, 4" octagon back box, or double-gang back box. L-Series compact products shall mount to a single-gang 2" × 4" × $1^{7}/_{8}$" back box. A universal mounting plate shall be used for mounting ceiling and wall products for all standard-size models and a separate universal mounting plate shall be used for mounting compact wall models. The notification appliance circuit 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 c 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 unaltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, and 185.

**Strobe.** The strobe shall be a L-Series Model listed to 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 a xenon flash tube and associated lens/reflector system.

**Horn Strobe Combination.** The horn strobe shall be a 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 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 on horn strobe models shall operate on a coded or non-coded power supply.

**Synchronization Module.** The module shall be a Sync•Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert 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 $4^{11}/_{6}$" × $4^{11}/_{16}$" × $2^{1}/_{8}$" 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.

### *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 12 DC or regulated 24 DC/FWR[1] (full wave rectified).
- **Operating Voltage Range[2]:** 8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal).
- **Operating Voltage Range:** MDL3 Sync Module 8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal).
- **Input Terminal Wire Gauge:** 12 to 18 AWG.
- **Wall-Mount Dimensions (including lens):** 5.6" L × 4.7" W × 1.25" D (143 mm L × 119 mm W × 32 mm D).
- **Compact Wall-Mount Dimensions (including lens):** 5.26" L x 3.46" W x 1.93" D (133 mm L x 88 mm W x 49 mm D).
- **Horn Dimensions:** 5.6" L × 4.7" W × 1.25" D (143 mm L × 119 mm W × 32 mm D).
- **Compact Horn Dimensions:** 5.25" L x 3.45" W x 1.25" D (133mm L x 88mm W x 32mm D).

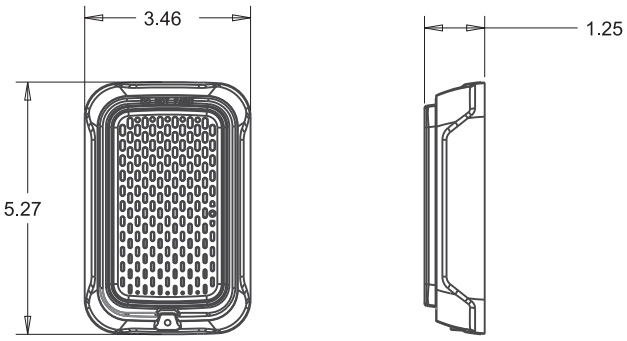
***NOTE:***

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.

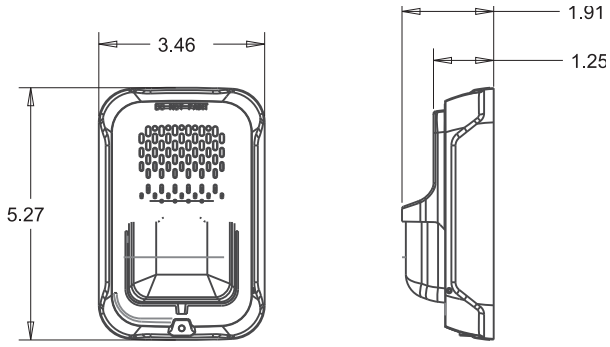
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 cd and 30 cd.

## L-Series Drawings

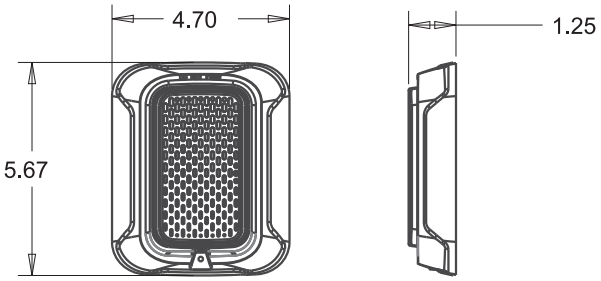
### Compact Horn



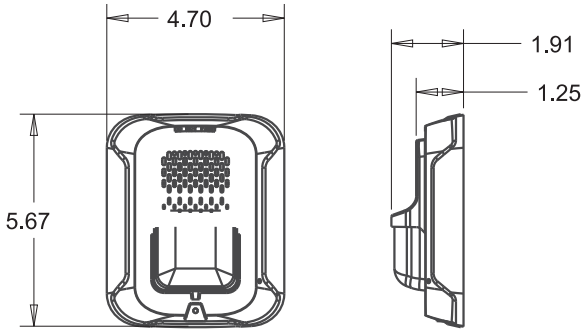

### Compact Combo




### Horn




### Combo



## UL Current Draw Data

### *UL MAX. STROBE CURRENT DRAW (MA RMS)*

| Candela | 8-17.5 Volts | 16-33 Volts | |
|---|---|---|---|
| | DC | DC | FWR |
| 15 | 88 | 43 | 60 |
| 30 | 143 | 63 | 83 |
| 75 | N/A | 107 | 136 |
| 95 | N/A | 121 | 155 |
| 110 | N/A | 148 | 179 |
| 135 | N/A | 172 | 209 |
| 185 | N/A | 222 | 257 |

### *UL MAX. HORN CURRENT DRAW (MA RMS)*

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.

| Sound Pattern | dB | 8-17.5 Volts | 16-33 Volts | |
|---|---|---|---|---|
| | | DC | DC | FWR |
| Temporal | High | 39 | 44 | 54 |
| Temporal | Low | 28 | 32 | 54 |
| Non-Temporal | High | 43 | 47 | 54 |
| Non-Temporal | Low | 29 | 32 | 54 |
| 3.1 KHz Temporal | High | 39 | 41 | 54 |
| 3.1 KHz Temporal | Low | 29 | 32 | 54 |
| 3.1 KHz Non-Temporal | High | 42 | 43 | 54 |
| 3.1 KHz Non-Temporal | Low | 28 | 29 | 54 |
| Coded | High | 43 | 47 | 54 |
| 3.1 KHz Coded | High | 42 | 43 | 54 |

### *UL MAX. CURRENT DRAW (MA RMS), 2-WIRE HORN STROBE, CANDELA RANGE (15-115 CD)*

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.

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

### *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.

| Pos. | 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.

## 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/ULC-Listed**
  - S4011 Wall Horn Strobes
  - S5512 Wall Strobes
  - S5512 Wall Horns
  - S5512 Strobe-only ALERT devices
- **FM Approved** (All except ALERT models)
- **CSFM Listed:** 7135-1653:0503 (Wall Horns and Wall Horn Strobes), 7125-1653:0504 (Wall Strobes)

## Product Line Information

### *WALL HORN STROBES*

**P2WL(A)(-E)(-F), P2RL(A)(-E)(-F).** 2-Wire, Horn Strobe (White, Red).

**P2GWL(A)(-E)(-F), P2GRL(A)(-E)(-F).** 2-Wire, Compact Horn Strobe (White, Red).

**P2WL(A)-P, P2RL(A)-P**. 2-Wire, Horn Strobe, Plain (White, Red).

**P2WL-SP, P2RL-SP**. 2-Wire, Horn Strobe, FUEGO (White, Red).

### *WALL STROBES*

**SWL(A)(-E)(-F), SRL(A)(-E)(-F).** Strobe, Red (White, Red).

**SGWL(A)(-E)(-F), SGRL(A)(-E)(-F).** Compact Strobe (White, Red).

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

**SRL-SP.** Strobe, FUEGO (Red).

**SWL-CLR-ALERT.** Strobe, ALERT (White).

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

### *HORNS*

**HWL(A), HRL(A).** Horn (White, Red).

**HGWL(A), HGRL(A).** Compact Horn (White, Red).

### *ACCESSORIES*

**TR-2W, TR-2.** Universal Wall Trim Ring (White, Red).

**SBBWL, SBBRL.** Wall Surface Mount Back Box (White, Red).

**SBBGWL, SBBGRL.** Compact Wall Surface Mount Back Box (White, Red).

***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.*

***NOTE:*** *ULC-listed models add "-E" suffix for English only "FIRE" marking on cover.*

***NOTE:*** *ULC-listed models add "-F" suffix for French only "FEU" marking on cover.*

**NOTIFIER®** and **SpectrAlert®** are registered trademarks and **Sync•Circuit™** is a trademark of Honeywell International Inc.
©2017 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING QUALITY SYSTEMS

This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

For more information, contact Notifier. Phone: (203) 484-7161, FAX: (203) 484-7118.
www.notifier.com