Honeywell | Notification Appliances

# L-Series, Indoor Strobes and Horn Strobes

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

**General**

The L-Series audible visible notification products offer the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. In addition, this product includes lower current draws and a modern aesthetic design which reduce installation times and maximize profits.

The following devices offer a variety of design options, so that the L-Series can be used for any application requirement.

- White and red plastic housings
- Standard and small footprint devices
- Plain, FIRE, and FUEGO-printed devices

*Wall Horn, Horn Strobe*

Similar to the entire L-Series product line, the wall-mount horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying the installation. All devices offer a plug-in design so that there is minimal intrusion into the backbox. These features make installations fast and foolproof while eliminating costly and time-consuming ground faults.

To further simplify the installation and protect devices from construction damage, the L-Series uses a mounting plate for all standard and compact models that include an onboard shorting spring. This feature allows Installers to test wiring continuity before the device is installed.

Installers can also easily adapt devices to suit a wide range of application requirements using the following features:

- Field-selectable candela settings
- Automatic selection of 12- or 24-volt operation
- Rotary switch for horn tones with two volume selections

## FEATURES & BENEFITS

- Listed for wall mounting only
- Offers small profile devices for horns and horn strobes
- Provides an automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Produces horn rated at 88+ dBA at 16 volts
- Uses field-selectable candela settings on wall units:
  - 15
  - 30
  - 75
  - 95
  - 110
  - 135
  - 185
- Includes a mounting plate for all standard and all compact wall units
- Contains a mounting plate with a shorting spring that checks the wiring continuity before device installation
- Features a plug-in design with minimal intrusion into the backbox
- Designed with a tamper-resistant construction
- Supports a rotary switch for horn tone and two volume selections

### Architect/Engineer Specifications

#### General

When it is used with the Sync•Circuit Module, the following occur:

• 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

The Indoor L-Series products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have the following field-selectable candela settings:

- 15
- 30
- 75
- 95
- 115
- 150
- 177

#### Strobe

The strobe shall be an L-Series Model _____ listed to UL Standard 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 an L-Series Model _____ listed to UL Standard 1971 and UL Standard 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 audible 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 Standard 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 11/16 x 4 11/16 x 2 1/8-inch backbox. 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

#### UL Current Draw

Table 1 lists the UL maximum strobe current draw.

| | Candela | 8-17.5 Volts DC | 16-33 Volts DC | FWR |
|---|---|---|---|---|
| Candela Range | 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 |

Table 1: UL Maximum Strobe Current Draw (mA RMS)

Table 2 lists the UL maximum Horn current draw.

| Sound Pattern | dB | 8-17.5 Volts DC | 16-33 Volts DC | 16-33 Volts 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 |

Table 2: UL Max. Horn Current Draw (mA RMS)

### UL Current Draw Data

Table 3 lists the maximum UL Current Draw (mA RMS) allowed for Wall Horn Strobes.

| DC | 8-17.5 Volts | | 16-33 Volts | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 15cd | 30cd | 15cd | 30cd | 75cd | 95cd | 110cd | 135cd | 185cd |
| EM Temp Hi | 98 | 158 | 54 | 74 | 121 | 142 | 162 | 196 | 245 |
| EM Temp Low | 93 | 154 | 44 | 65 | 111 | 133 | 157 | 164 | 235 |
| EM Cont Hi | 106 | 166 | 73 | 94 | 139 | 160 | 182 | 21 | 262 |
| EM Cont Low | 93 | 156 | 51 | 71 | 119 | 139 | 162 | 190 | 239 |
| 3.1K Temp Hi | 93 | 156 | 53 | 73 | 119 | 140 | 164 | 190 | 242 |
| 3.1K Temp Low | 91 | 154 | 45 | 66 | 112 | 133 | 160 | 185 | 235 |
| 3.1K Cont Hi | 99 | 162 | 69 | 90 | 135 | 157 | 175 | 208 | 261 |
| 3.1K Cont Low | 93 | 156 | 52 | 72 | 119 | 138 | 162 | 192 | 242 |
| | 16V FWR | | | | | | | | |
| FWR Input | 15cd | 30cd | 75cd | | 95cd | 110cd | 135cd | 185cd | |
| EM Temp Hi | 83 | 107 | 156 | | 177 | 198 | 234 | 287 | |
| EM Temp Low | 68 | 91 | 145 | | 165 | 185 | 223 | 271 | |
| EM Cont Hi | 111 | 135 | 185 | | 207 | 230 | 264 | 316 | |
| EM Cont Low | 79 | 104 | 157 | | 175 | 197 | 235 | 283 | |
| 3.1K Temp Hi | 81 | 105 | 155 | | 177 | 196 | 234 | 284 | |
| 3.1K Temp Low | 68 | 90 | 145 | | 166 | 186 | 222 | 276 | |
| 3.1K Cont Hi | 104 | 131 | 177 | | 204 | 230 | 264 | 326 | |
| 3.1K Cont Low | 77 | 102 | 156 | | 177 | 199 | 234 | 291 | |

Table 3 UL Max. Current Draw (mA RMS), Wall Horn Strobe, Horn Strobe, Candela Range (15-115 cd)

### Horn Strobe Tones and Sound Output Data

Table 4 lists the horn strobe tones and sound output date.

| Switch Position | Sound Pattern | dB | 8–17.5 Volts DC | 16–33 Volts 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* (See Note) | Coded | High | 85 | 90 | 90 |
| 10* (See Note) | 3.1 KHz Coded | High | 84 | 89 | 89 |
| Note: Settings 9 and 10 are not available on 2-Wire horns and strobes.<br>Temporal coding must be provided by the NAC. If the NAC voltage is held constant, the horn output remains constantly on. | | | | | |

Table 4: Horn Strobe Tones and Sound Output Data

## L-Series Dimensions

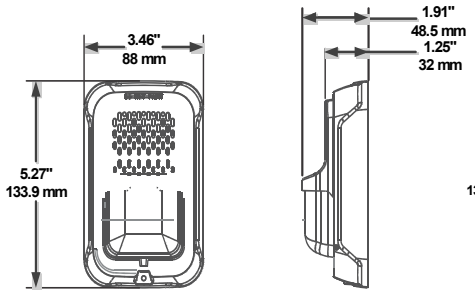


*Figure 1 Compact Strobe, Horn Strobe*

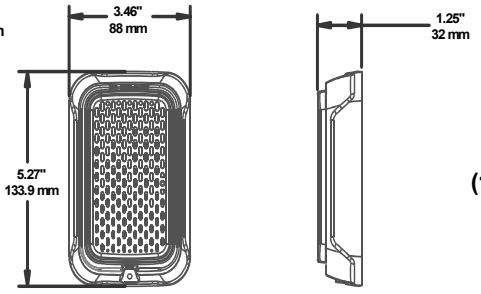


*Figure 2 Compact Horn*

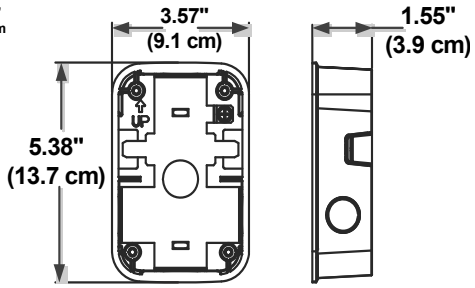


*Figure 3 Compact Wall Surface Mount Backbox (SBBGRL, SBBGWL)*

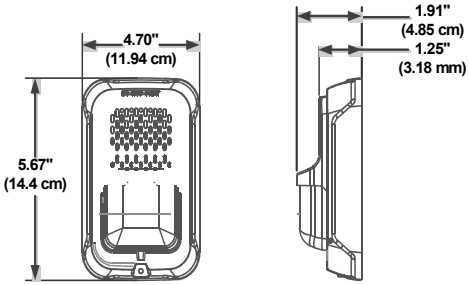


*Figure 4 Strobe, Horn Strobe*

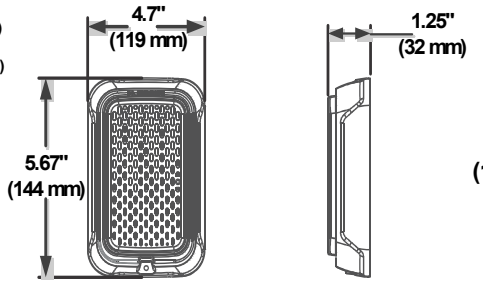


*Figure 5 Horn*

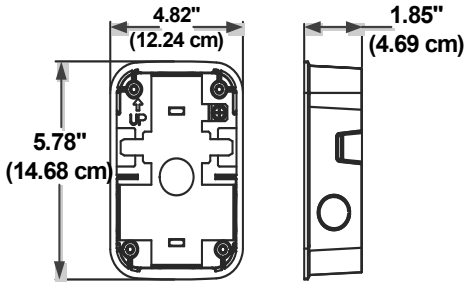


*Figure 6 Wall Surface Mount Backbox (SBBRL/SBBWL)*

**L-Series Ordering Information**

**Wall Strobes:**

**SRL:** Strobe, Red

**SWL:** Strobe, White

**SGRL:** Compact Strobe, Red

**SGWL:** Compact Strobe, White

**SRL-P:** Strobe, Red, Plain

**SWL-P:** Strobe, White, Plain

**SWL-CLR-ALERT:** Strobe, White, ALERT

**Notes:**

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

All -SP models have "FUEGO" marking on cover.

All -ALERT models have "ALERT" marking on cover.

**L-Series Ordering Information**

**HRL*:** Horn, Red

**HWL*:** Horn, White

**HGRL*:** Compact Horn, Red

**HGWL*:** Compact Horn, White

**Note:** Horn-only models are listed for wall or ceiling use.

**Accessories:**

**TR-2:** Universal Wall Trim Ring Red

**TR-2W:** Universal Wall Trim Ring White

**SBBRL:** Wall Surface Mount Back Box, Red

**SBBWL:** Wall Surface Mount Back Box, White

**SBBGRL:** Compact Wall Surface Mount Backbox, Red

**SBBGWL:** Compact Wall Surface Mount Backbox, White

# L-Series, Indoor Strobes and Horn Strobes Technical Specifications

## SYSTEMS

**Temperature Ranges:**
**Standard Operating Temperature:** 32°F to 120°F (0°C to 49°C)
**Humidity Range:** 10 to 93% non-condensing
**Voltages:**
**Strobe Flash Rate:** 1 flash per second
**Nominal Voltage:** Regulated 12 VDC or regulated 24 DC/FWR[1]
**Operating Voltage Range[2]:** 8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
**Operating Voltage Range (MDL3):** 8.5 to 17.5V(12 V nominal) or 16.5 to 33 V(24V nominal)
**Wire Gage:**
**Input Terminal Wire Gauge:** 12 to 18 AWG
**Dimensions:**
**Wall-Mount Dimensions (including lens):**
5.6"L x 4.7"W x 1.91"D
(143 mm L x 119 mm W x 49 mm D)
**Compact Wall-Mount Dimensions (including lens):**
5.26" L x 3.46" W x 1.91" D
(133 mm L x 88 mm W x 49 mm D)
**Horn Dimensions:**
5.6" L x 4.7" W x 1.25" D
(143 mm L x 119 mm W x 32 mm D)
**Compact Horn Dimensions:**
5.25" L x 3.45" W x 1.25" D
(133 mm L x 88 mm W x 32 mm D)
**Notes:**

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 and 30 cd.

## TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

## STANDARDS

The L-Series, Ceiling Strobes and Horn Strobes are designed to comply with the following standard:
**UL Standard:** UL 1971 and UL 464

## AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. 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:** S5512, S4011
**CSFM:** 7135-1653:0503
7125-1653:0504
**ISO 9001 Certification**

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx



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**
Learn more about Gamewell-FCI's L-Series, Indoor Strobes and Horn Strobes and other products available by visiting www.Gamewell-FCI.com

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