

# 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

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



Wall Horn, Horn Strobe

## FEATURES & BENEFITS

- |  |  |  |  |  |
|--|--|--|--|--|
| <ul style="list-style-type: none"> <li>• Listed for wall mounting only</li> <li>• Offers small profile devices for horns and horn strobes</li> <li>• Provides an automatic selection of 12- or 24-volt operation at 15 and 30 candela</li> <li>• Produces horn rated at 88+ dBA at 16 volts</li> </ul> | <ul style="list-style-type: none"> <li>• Uses field-selectable candela settings on wall units:             <ul style="list-style-type: none"> <li>- 15</li> <li>- 30</li> <li>- 75</li> <li>- 95</li> <li>- 110</li> <li>- 135</li> <li>- 185</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Includes a mounting plate for all standard and all compact wall units</li> <li>• Contains a mounting plate with a shorting spring that checks the wiring continuity before device installation</li> </ul> | <ul style="list-style-type: none"> <li>• Features a plug-in design with minimal intrusion into the backbox</li> <li>• Designed with a tamper-resistant construction</li> </ul> | <ul style="list-style-type: none"> <li>• Supports a rotary switch for horn tone and two volume selections</li> </ul> |
|--|--|--|--|--|

## 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	16-33 Volts	FWR
		DC	DC	
<b>Candela Range</b>	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	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

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
<b>16V FWR</b>									
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 data.

Switch Position	Sound Pattern	dB	8-17.5 Volts	16-33 Volts	FWR
			DC	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* (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. 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

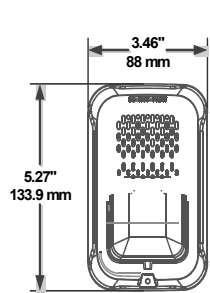


Figure 1 Compact Strobe, Horn Strobe

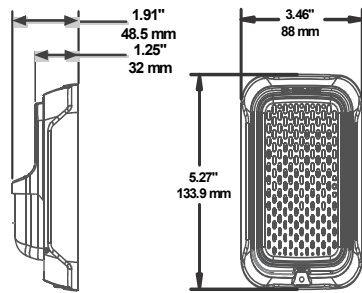


Figure 2 Compact Horn

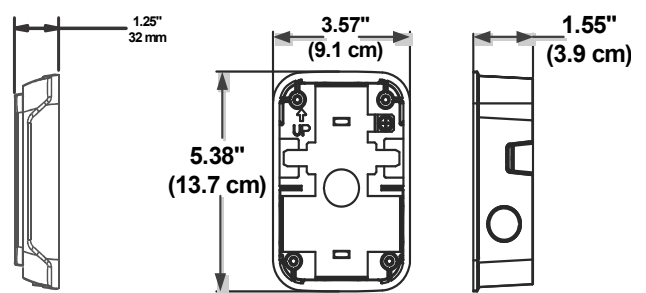


Figure 3 Compact Wall Surface Mount Backbox (SBBGRL, SBBGWL)

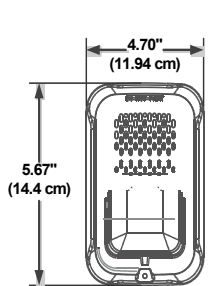


Figure 4 Strobe, Horn Strobe

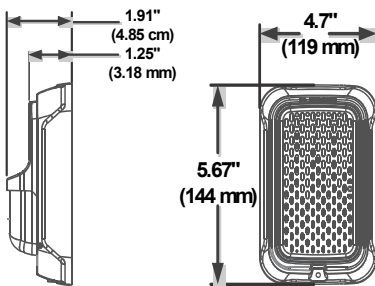


Figure 5 Horn

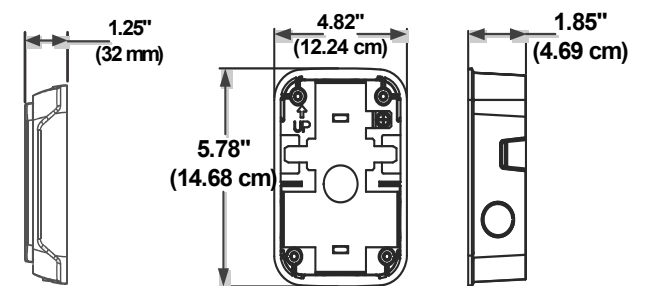


Figure 6 Wall Surface Mount Backbox (SBBRL/SBBWL)

### 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<sup>1</sup>

**Operating Voltage Range<sup>2</sup>:** 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 Gauge:

**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>

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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](http://www.Gamewell-FCI.com)

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