

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

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|--|---|---|--|---|
| <ul style="list-style-type: none"> • Listed for wall mounting only • Strobes and horn strobes 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 | <ul style="list-style-type: none"> • Uses field-selectable candela settings on wall units: <ul style="list-style-type: none"> - 15 - 30 - 75 - 95 - 110 - 135 - 185 • Includes a mounting plate for all standard and all compact wall units | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Supports a rotary switch for horn tone and two volume selections • Has a rotary switch to use for horn tone and includes two volume selections • Electrically compatible with legacy SpectrAlert and SpectrAlert Advance devices | <ul style="list-style-type: none"> • Compatible with the MDL3 sync module • Designed with a tamper-resistant construction |
|--|---|---|--|---|

Architect/Engineer Specifications

General

L-Series standard horns, strobes, and horn strobes shall mount to a standard 2 x 4 x 17/8-inch back box, 4 x 4 x 1.5-inch back box, 4-inch octagon back box, or double-gang back box. L-Series compact products shall mount to a single-gang 2 x 2 x 17.8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products for all standard models and a separate universal mounting plate shall be used for mounting wall compact 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 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 and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, and 185.

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 SpectraAlert 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	
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	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
Temporal High	98	158	54	74	121	142	162	196	245
Temporal Low	93	154	44	65	111	133	157	164	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
16V FWR									
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	

Table 3: UL Max. Current Draw (mA RMS), Wall Horn Strobe, Horn Strobe, Candela Range (15-185 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

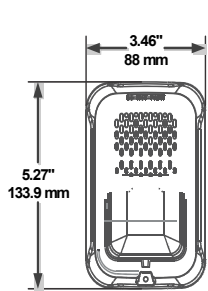


Figure 1 Compact Strobe, Horn Strobe

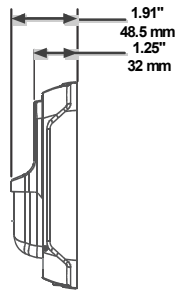


Figure 2 Compact Horn

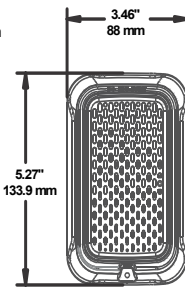


Figure 3 Compact Wall Surface Mount Backbox (SBBGRL, SBBGWL)

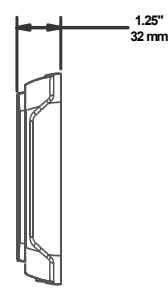


Figure 4 Strobe, Horn Strobe

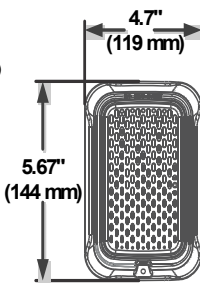


Figure 5 Horn

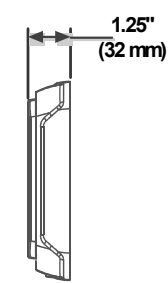


Figure 6 Wall Surface Mount Backbox (SBBRL/SBBWL)

L-Series Ordering Information

Wall Horn Strobes:

P2RL: 2-Wire, Horn Strobe, Red
P2WL: 2-Wire, Horn Strobe, White
P2GRL: 2-Wire, Compact Horn Strobe, Red
P2GWL: 2-Wire, Comp 2 fil act Horn Strobe, White
P2RL-P: 2-Wire, Horn Strobe, Red, Plain
P2WL-P: 2-Wire, Horn Strobe, White, Plain
P2RL-SP: 2-Wire, Horn Strobe, Red, FUEGO
P2WL-SP: 2-Wire, Horn Strobe White, FUEGO
P4RL: 4-Wire, Horn Strobe, Red
P4WL: 4-Wire, Horn Strobe, White

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

L-Series Ordering Information

Horns:

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: Ceiling Surface Mount Back Box, Red
SBBWL: Ceiling Surface Mount Back Box, White
SBBRL: Wall Surface Mount Backbox, Red
SBBGWL: Compact Wall Surface Mount Backbox, White

Notes:

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

ALL-SP models have "FUEGO" marking imprinted on the cover.

ALL-ALERT models have "ALERT" marking imprinted on the cover.

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

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/FWR¹

Operating Voltage Range²: 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 17.5V(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 (143mmL x 119mmW x 49mmD)

Compact Wall-Mount Dimensions (including lens): 5.26"L x 3.46"W x 1.91"D (133mmL x 88mmW x 49mmD)

Horn Dimension: 5.6"L x 4.7"W x 1.25"D (143mmL x 119mmW x 32mmD)

Compact Horn Dimensions: 5.25"L x 3.45"W x 1.25"D (133mmL x 88mmW x 32mmD)

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. Strobe products will operate at 12 V nominal only for 15 cd 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 standards:

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

FM Approved

(Excludes ALERT models: 3057383, 3057072)

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

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