L Series, Indoor Wall Speaker Strobes and Speakers

Indoor Selectable-Output Speaker Strobes and Dual-Voltage Evacuation Speakers for Wall Applications

General

The L-Series indoor selectable-output speaker strobes and dual-voltage evacuation speakers offer a modern, aesthetic plug-in design that reduce costly ground faults. The universal mounting plate can be used in wall installation applications and its flexible design enables the Installer to easily perform the following:

- Pre-wire mounting plates
- Dress the wires
- Confirm wiring continuity before the Installer plugs-in the speakers

This product includes a protective plastic cover which shields exposed speaker components and prevents nicked wires.

These devices enable faster installations by providing instant feedback to the Installer to ensure the following:

- The wiring is properly connected.
- The rotary switches are set to the selected voltage and power settings.
- The 7 field-selectable candela settings are configured for wall speaker strobes.

The low total harmonic distortion of the speaker offers both high-fidelity and high-volume sound output so that it can be used in high ambient noise applications.

Wall Speaker Strobe

L-Series makes installation easy

To install the L-Series speakers or speaker strobe, do the following:

1. Attach a universal mounting plate to a 4 x 4 x 2 1/8 inch backbox. Flush-mount applications do not require an extension ring.
2. Connect the notification appliance circuit or speaker wiring to the terminals on the mounting plate.
3. To attach the speaker or speaker strobe to the mounting plate, insert the product tabs into the mounting plate grooves.
4. Hinge the device into position to lock the product pins into the mounting plate terminals.
5. A catch will temporarily hold the device in place until you secure the device with a captured mounting screw.

FEATURES & BENEFITS

- Includes a plug-in feature to reduce ground faults and a protective cover to shield speaker components
- Contains a universal mounting plate with an on-board shorting spring that is used to test the wiring continuity before an installation
- No extension ring required

- Field-selectable candela settings on wall units:
  - 15
  - 30
  - 75
  - 95
  - 110
  - 135
  - 185
- Uses an automatic selection of 12- or 24-volt operation at 15 and 30 candela

- Provides a rotary switch that simplifies the field selection of speaker voltage (25) and 70.7 V_{RMS}) and the following power settings:
  - 1/4 watt
  - 1/2 watt
  - 1 watt
  - 2 watts

- Offers speakers with both a high-fidelity and a high-volume sound output
- Compatible with the System Sensor® synchronization protocol
- Supports electrical compatibility with the existing SpectrAlert™ and the SpectrAlert Advance products

- Designed with a tamper-resistant construction
- Built with an updated modern design

L-Series Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General

The L-Series speaker and speaker strobes shall mount to a 4 x 4 x 2 1/8-inch backbox. A universal mounting plate shall be used for the mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate.

Also, the L-Series speaker strobes, 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 it is used with the Sync•Circuit Module, either of the following may 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° F and 120°F from a regulated DC, or full-wave rectified, unfiltered power supply. Wall-mount speaker strobes shall include the following field-selectable candela settings:

- 15
- 30
- 75
- 95
- 110
- 135
- 185

Speaker

The speaker shall be an L-Series model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal V_{RMS}. It should be listed to UL Standard 1480 and shall be approved for fire protective service. The speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature between 32°F and 120°F. The speaker shall have power taps and voltage that are selected by rotary switches.

Speaker Strobe Combination

The speaker strobe shall be an L-Series model _____ listed to UL Standard 1480 and UL Standard 1971 and be approved for fire protective signaling systems. The speaker shall be capable of operating at 25.0 or 70.7 nominal V_{RMS} selected via rotary switch, and shall have a frequency range of 400 to 4,000 Hz. The 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 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. The module shall mount to a 4 11/16 x 4 11/16 x 21/8-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 Data

Table 1 lists the UL maximum strobe current draw.

Candela	8-17.5 Volts DC	16-33 Volts 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

Table 1: UL Max. Strobe Current Draw (mA RMS)

Table 2 lists the speaker strobe sound outputs.

Setting	UL Reverberant (dBA @10 ft)	UL Anechoic (dBA @10 ft)
1/4 W	77	77
1/2 W	80	80
1 W	83	83
2 W	86	86

Table 2: Sound Output Speaker Strobe

Table 3 lists the speaker sound outputs.

Setting	UL Reverberant (dBA @10 ft)	UL Anechoic (dBA @10 ft)
1/4 W	79	79
1/2 W	82	82
1 W	83	85
2 W	88	88

Table 3: Sound Output Speaker

Dimensions
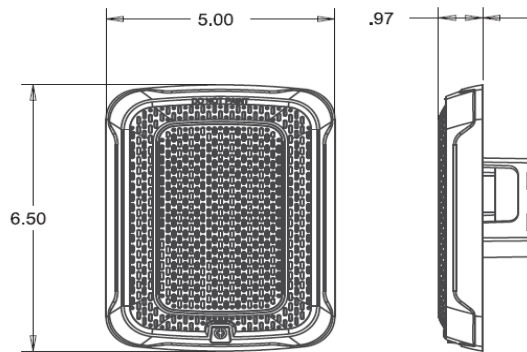
Figure 1 shows the speaker dimensions.

Figure 1 Wall-Mount Speaker

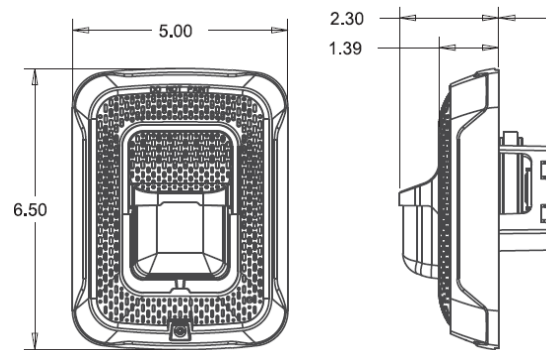Figure 2 shows the speaker dimensions.

Figure 2 Wall-Mount Speaker Strobe

Surface Mounting

Figure 3 illustrates the wall–mount speaker and speaker strobes with the SBBSPRL surface mount backbox.
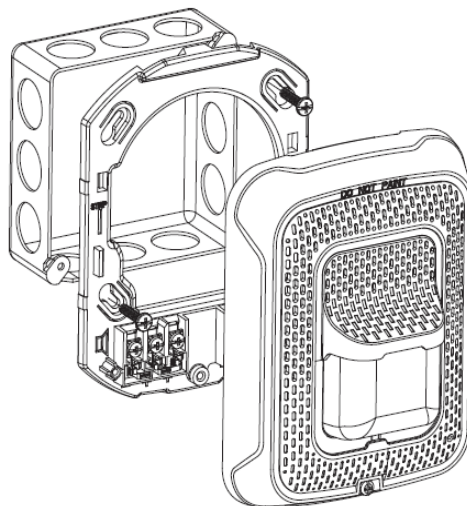

**Figure 3 Wall-Mount Speaker Strobe
with SBBSPRL Surface Mount Backbox**

L–Series Ordering Information

Speakers and Speaker Strobes

Wall Mount:

SPWL: White, Speaker only

SPRL: Red, Speaker only

SPSWL: White, Speaker Strobe

SPSRL: Red, Speaker Strobe

SPSRL–P: Plain Speaker Strobe

SPSWL–P: White, Plain Speaker Strobe

SPSWL–ALERT: White, Speaker Strobe, Amber Lens

SPSWL–CLR–ALERT : White Speaker Strobe Clear Lens

SPSRL–SP: White, Speaker Strobe, Fuego

Accessories:

RFPW: White, 7 in × 9.5 in Retrofit Plate

RFP: Red, 7 in × 9.5 in Retrofit Plate

SBBSPW: White, Surface Mount Back Box for Speakers and Speaker Strobes

SBBSPR: Red, Surface Mount Back Box for Speakers and Speaker Strobes

TRW: White, Wall Mount Trim Ring

TR: Red, Wall Mount Trim Ring

Note: All –P models have a plain housing (no "FIRE" marking on the cover).

L Series, Indoor Wall Speaker Strobes and Speakers Technical Specifications

SYSTEMS

Temperature Range:
Operating Temperature: 32°F to 120°F (0°C to 49°C)
Humidity Range: 10 to 93% non-condensing

Physical Specifications

Dimensions, Wall-Mount:	Length	Width	Depth
SP Speaker:	6.5 in,	5 in,	2.3 in,
	165 mm	127 mm	58 mm
With Surface Mount Backbox:	6.6 in,	5.1 in,	3.2 in,
	168 mm	130 mm	82 mm
SPS Speaker/Strobe	6.5 in,	5.0 in,	2.3 in,
(including lens and speaker):	165 mm	127 mm	58 mm
With Surface Mount Backbox:	6.6 in,	5.1 in,	4.55 in
	168 mm	130 mm	116 mm

Electrical/Operating Specifications:

Nominal Voltage (speakers): 25 Volts or 70.7 Volts (nominal)

Maximum Supervisory Voltage (speakers): 50 VDC

Strobe Flash Rate: 1 flash per second

Nominal Voltage (strobes): Regulated 12 VDC or Regulated 24 VDC/FWR

Operating Voltage Range (includes fire alarm panels with built-in sync): 8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)

Operating Voltage with MDL3 Sync Module: 8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V(24 V nominal)

Frequency Range: 400 to 4,000 Hz

Power: ¼, ½, 1, 2 watts

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, Indoor Wall Speaker Strobes and Speakers 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: 7320-1653:0505
ISO 9001 Certification

For more information

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

Honeywell Gamewell-FCI

12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywell.com

Honeywell