



## Honeywell SPCWL Indoor Selectable Output Speaker Specifications and Datasheet

[Home](#) » [Honeywell](#) » Honeywell SPCWL Indoor Selectable Output Speaker Specifications and Datasheet 

### Contents

- [1 Honeywell SPCWL Indoor Selectable Output Speaker](#)
- [2 General](#)
- [3 FEATURES & BENEFITS](#)
- [4 Architectural/Engineering Specifications](#)
- [5 Synchronization Module](#)
- [6 Dimensions](#)
- [7 Surface Mounting](#)
- [8 L-Series Ordering Information](#)
- [9 Technical Specifications](#)
  - [9.1 SYSTEM](#)
- [10 Honeywell Gamewell-FCI](#)
- [11 FAQs](#)
- [12 Related Posts](#)

# Honeywell

**Honeywell SPCWL Indoor Selectable Output Speaker**



## **L Series, Indoor Ceiling Strobes, and Dual Speakers**

Indoor Output Speaker Strobes and Dual Speakers for Ceiling Applications

### **General**

The L-Series indoor selectable-output speaker strobes and dual-voltage evacuation speakers offer a modern, aesthetic plug-in design that reduces costly ground faults. The universal mounting plate can be used in ceiling 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. In addition, this product includes a protective plastic cover that shields exposed speaker components and prevents nicked wires. These devices enable faster installations by providing instant feedback to the Installer to ensure the following:



*Ceiling Speaker Strobes*

- 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 SP speaker offers both high-fidelity and high-volume sound output so that it can be used in high ambient noise applications.

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 back box. 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 temporarily holds the device in place until you secure the device with a captured mounting screw.

## **FEATURES & BENEFITS**

- Includes a plug-in feature and protective cover to reduce ground faults
- Contains a universal mounting plate with an onboard shorting spring that is used to test the wiring continuity before an installation
- No extension ring required
- Field-selectable candela settings on ceiling units:
  - – 15
  - – 30
  - – 75
  - – 95
  - – 115
  - – 150
  - – 177
- 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 VRMS) and the

following power settings:

- – 1/4 watt
  - – 1/2 watt
  - – 1 watt
  - – 2 watts
- Offers speakers with both high-fidelity and 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 these devices are 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. Speaker strobes shall have the following field-selectable candela settings:

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

#### **Speaker**

The speaker shall be an L-Series model \_\_\_\_\_ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal VRMS. 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 VRMS selected via a rotary switch and shall have a frequency range of 400 to 4,000 Hz. The speaker shall have power taps that are selected by a 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 2 1/8-inch 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.

## UL Current Draw Data

Table 1 lists the UL maximum strobe current draw.

	8-17.5 Volts	16-33 Volts	
Candela	DC	DC	FWR
15	87	41	60
30	153	63	86
75	NA	111	142
95	NA	134	164
115	NA	158	191
150	NA	189	228
177	NA	226	264

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

Table 2 lists the ceiling mount 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	85	85
2 W	88	88

Table 2 Ceiling Speaker Sound Outputs

Table 3 lists the ceiling-mount 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 3 Ceiling-Mount Speaker Strobe Sound Output

## Dimensions

Figure 1 shows the speaker dimensions.

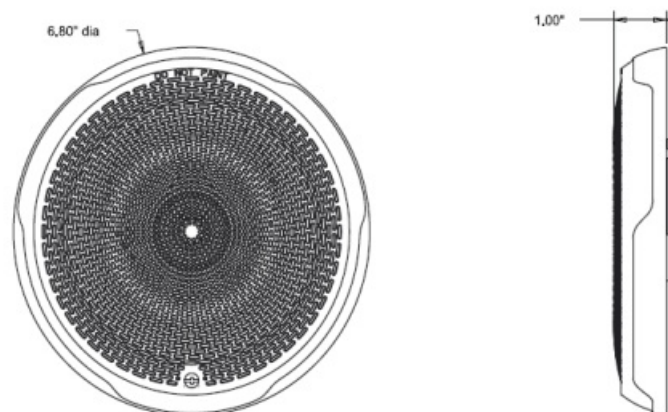


Figure 1 Speaker Dimensions

Figure 2 shows the speaker dimensions.

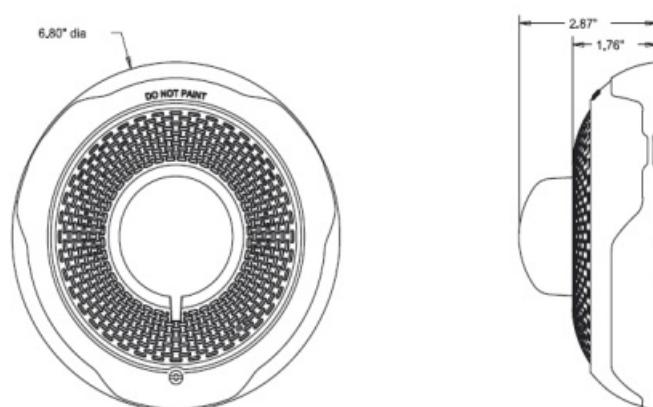


Figure 2 Speaker Dimensions

## Surface Mounting

Figure 3 illustrates the ceiling-mount speaker and speaker strobes with the SBBCR/SBBCWL surface mount backbox.

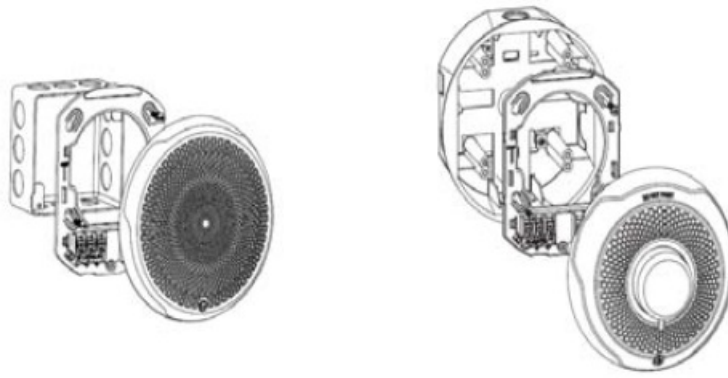


Figure 3 Ceiling-Mount Speaker and Speaker Strobe with SBBCRL/SBBCWL Surface Mount Backbox

## L-Series Ordering Information

### SpectrAlert Speakers and Strobes:

- Ceiling Mount:
  - SPCWL: White Speaker only
  - SPCRL: Red Speaker only
  - SPSCWL: White Speaker Strobe
  - SPSCRL: Red Speaker Strobe
  - SPSCWL-P: Plain, Speaker Strobe
  - SPSCWL-SP: Fuego, Speaker Strobe
  - SPSCWL-CLR-ALERT: Alert, Speaker Strobe, Clear Lens
- Accessories:
  - SBBCWL: White, Universal Ceiling Surface Mount Back Box
  - SBBCRL: Red, Universal Ceiling Surface Mount Back Box
  - TRC-2W: White, Universal Ceiling Trim Ring
  - TRC-2: Red, Universal Ceiling Trim Ring

## Technical Specifications

### SYSTEM

#### Physical Specifications:

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

#### Dimensions (Ceiling-Mount):

- SPC Speaker:
  - Diameter: 6.8 in (173 mm)
  - Depth: 1.0 in (25 mm)
- With Surface Mount Backbox:
  - Diameter: 6.9 in (176 mm)

- Depth: 3.5 in (89 mm)

#### **Dimensions (SPSC Speaker Strobe):**

- Diameter: 6.8 in (173 mm)
- Depth: 2.8 in (73 mm)

#### **Dimensions (With Surface Mount Backbox for SPSC Speaker Strobe):**

- Diameter: 6.9 in (176 mm)
- Depth: 5.37 in (136 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:**
  - **Frequency Range:** 400 to 4,000 Hz
  - **Power:** ¼, ½, 1, 2 watts

#### **Standards:**

- The L-Series, Indoor 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 the latest listing status.
  - **UL Listings:** S5512, S4011
  - **CSFM:** 7320-1653:0505

#### **Certification:**

- **ISO 9001 Certification:** This certification signifies compliance with ISO 9001 quality management standards.



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

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#### Note:

- 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.

#### Honeywell Gamewell-FCI

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#### For more information

- Learn more about Gamewell-FCI's L Series, Indoor Ceiling Strobes and Dual Speakers and other products available by visiting [www.Gamewell-FCI.com](http://www.Gamewell-FCI.com)

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#### FAQs

What is the purpose of the Honeywell SPCWL Indoor Selectable Output Speaker?

The Honeywell SPCWL Indoor Selectable Output Speaker is designed for indoor ceiling applications and serves as a speaker strobe or a dual-voltage evacuation speaker.

What benefits does the Honeywell SPCWL Speaker offer?

The Honeywell SPCWL Speaker comes with a plug-in feature and protective cover to reduce ground faults, a universal mounting plate with a shorting spring for testing wiring continuity, and no extension ring is required for installation.

What voltage options are available for the Honeywell SPCWL Speaker?

The speaker offers selectable voltage options, including 25 Volts or 70.7 Volts (nominal), and it operates on either 12- or 24-volt power settings.

Can the Honeywell SPCWL Speaker be used in high-noise environments?

Yes, the speaker is designed with low total harmonic distortion, offering high-fidelity and high-volume sound output, making it suitable for use in high ambient noise applications.

Is the Honeywell SPCWL Speaker compatible with existing notification systems?

Yes, it is compatible with the System Sensor synchronization protocol and offers electrical compatibility with existing SpectrAlert and SpectrAlert Advance products.

What are the operating temperature and humidity ranges for the Honeywell SPCWL Speaker?

The speaker operates in temperatures ranging from 32°F to 120°F (0°C to 49°C) and can handle humidity levels between 10% and 93% without condensation.

What standards does the Honeywell SPCWL Speaker comply with?

The Honeywell SPCWL Speaker complies with UL standards UL 1971 and UL 464.

Is there a synchronization module available for the speaker?

Yes, a synchronization module called Sync•Circuit Module is available for use with the Honeywell SPCWL Speaker to synchronize strobes.

What is the purpose of the rotary switches on the Honeywell SPCWL Speaker?

The rotary switches on the speaker are used for field selection of speaker voltage (25 Volts or 70.7 VRMS) and power settings (1/4 watt, 1/2 watt, 1 watt, 2 watts), allowing for versatile configurations.

Can the Honeywell SPCWL Speaker be used in both ceiling and wall applications?

Yes, the speaker is designed for ceiling applications and can be mounted to a 4 x 4 x 2 1/8-inch backbox. Flush-mount applications do not require an extension ring.

Is there a tamper-resistant construction feature in the Honeywell SPCWL Speaker?

Yes, the speaker is designed with tamper-resistant construction to enhance security.

What is the purpose of the shorting spring on the universal mounting plate?

The shorting spring on the universal mounting plate is used to test wiring continuity before the installation is completed, ensuring that the wiring is properly connected.

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