



# L-Series Chimes and L-Series with LED Chime Strobes

*System Sensor L-Series and L-Series with LED audible visible notification products are rich with features guaranteed to cut installation times and maximize profits with lower current draw and modern aesthetics.*



## Features

- LED technology provides lower current draw
- Digital Voltage Meter (DVM) diagnostic test points for Chime Strobes
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Field-selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Common aesthetics across the L-Series platform
- Tamper-resistant construction
- Rotary switches for candela and volume selections
- Mounting plate provides plug-in design for easier installation and shorting springs to check wiring continuity
- Electrically compatible with legacy SpectrAlert, SpectrAlert Advance and L-series devices at 16-33 VDC.
- Synchronization through use of UL approved power supplies that support System Sensor Sync protocol or System Sensor MDL Sync Module

**The System Sensor L-Series and L-Series with LED** line of chimes and chime strobes include a variety of features that increase their application versatility while simplifying the installation. With white and red plastic housings, System Sensor L-Series and L-Series with LED can meet virtually any application requirement.

Selectable-output chimes and chime strobes are private mode notification applications and can be used to alert trained personnel to investigate possible emergency situations and to take appropriate action. Security guard and nurse workstations are ideal locations for chime products.

All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults. The universal mounting plate includes an onboard shorting spring, so installers can test wiring continuity before the device is installed.

In addition, the System Sensor L-Series with LED notification appliances offer a new diagnostic test point feature that allows you to measure device voltage with a digital voltage meter (DVM) without removing the appliance from the wall or ceiling. The DVM test points are discreetly located on the face of the notification appliance which enable faster troubleshooting and end of line (EOL) voltage checks while greatly reducing the risk of misplacing or damaging appliances during troubleshooting.

## Agency Listings



## Product Specifications

| Physical/Electrical Specifications     |                                                       |
|----------------------------------------|-------------------------------------------------------|
| Standard Operating Temperature         | 32°F to 120°F (0°C to 49°C)                           |
| Humidity Range                         | 10 to 93% non-condensing                              |
| Strobe Flash Rate                      | 1 flash per second                                    |
| Nominal Voltage(Chime Strobe)          | Regulated 24 VDC                                      |
| Nominal Voltage (Chimes)               | Regulated 12 VDC or Regulated 24 DC/FWR               |
| Operating Voltage Range (Chime Strobe) | 16 to 33V (24V nominal)                               |
| Operating Voltage Range (Chimes)       | 8 to 17.5 V (12V Nominal) or 16 to 33 V (24V nominal) |
| Input terminal wire gauge              | 12 to 18 AWG                                          |

## UL Current Draw Data

| UL Max. Chime Current Draw (mA RMS) |      |              |             |     |
|-------------------------------------|------|--------------|-------------|-----|
| Sound Pattern                       | dB   | 8–17.5 Volts | 16–33 Volts |     |
|                                     |      | DC           | DC          | FWR |
| 1 Second Chime                      | High | 5            | 8           | 9   |
| 1 Second Chime                      | Low  | 5            | 8           | 9   |
| ¼ Second Chime                      | High | 6            | 10          | 10  |
| ¼ Second Chime                      | Low  | 5            | 9           | 9   |
| Temporal Chime                      | High | 7            | 10          | 10  |
| Temporal Chime                      | Low  | 6            | 9           | 9   |
| 5 Second Whoop                      | High | 12           | 15          | 16  |
| 5 Second Whoop                      | Low  | 7            | 10          | 11  |

## Tone Selection

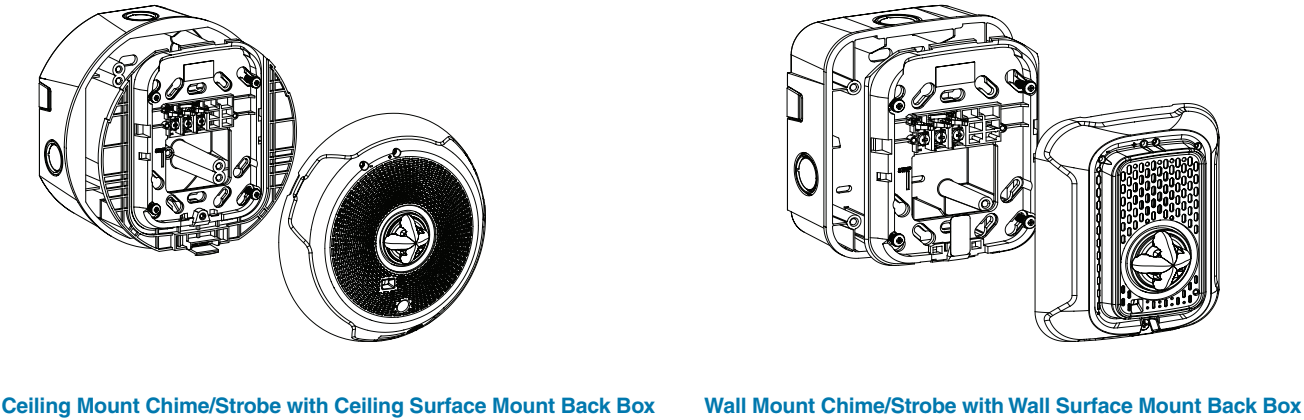
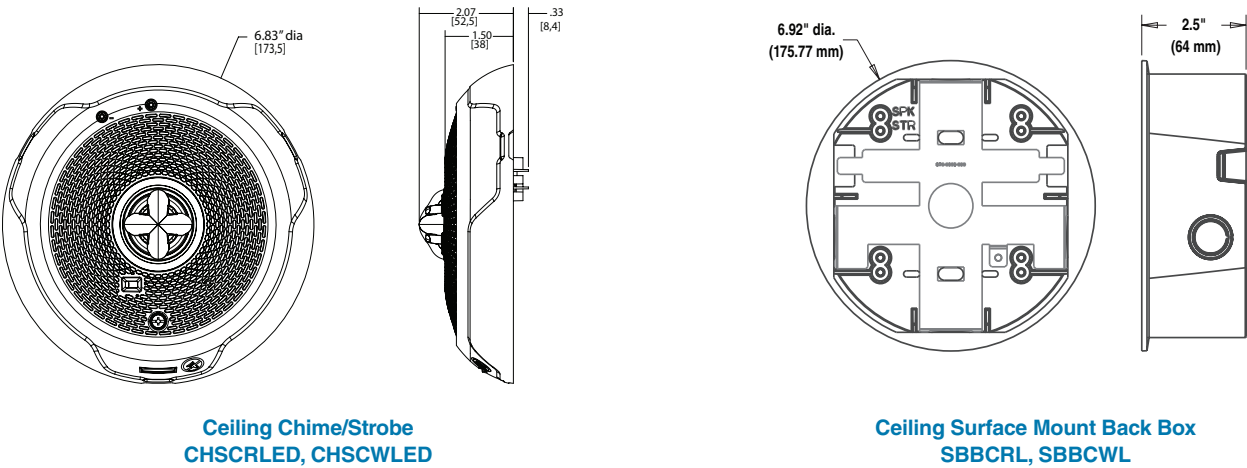
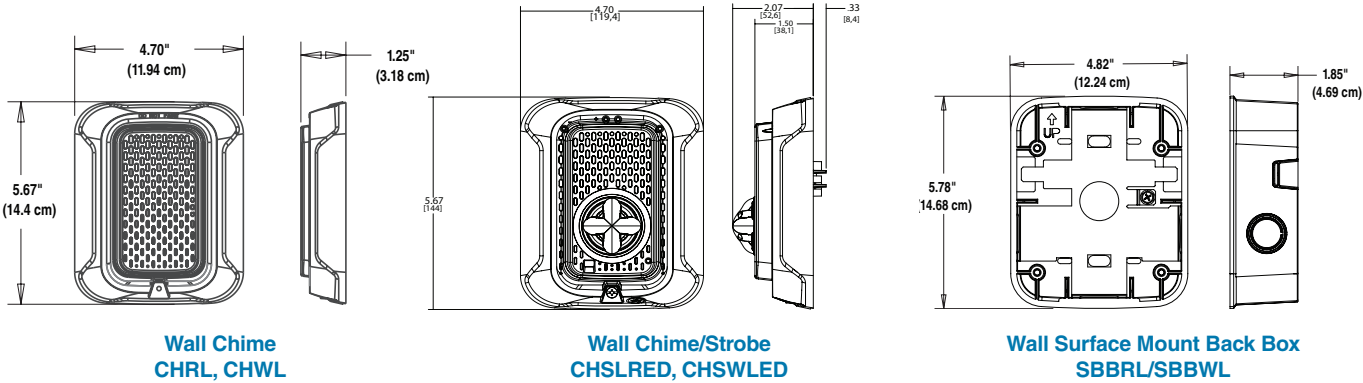
Chime tone selection is accomplished by using the rotary switch on the back of the product. The current draw and sound measurements for various chime tone settings are listed below.

| Chime Patterns |                 |          |
|----------------|-----------------|----------|
| Setting        | Repetition Rate | dB Level |
| 1              | 1 Second Chime  | High     |
| 2              | 1 Second Chime  | Low      |
| 3              | ¼ Second Chime  | High     |
| 4              | ¼ Second Chime  | Low      |
| 5              | Temporal Chime  | High     |
| 6              | Temporal Chime  | Low      |
| 7              | 5 Second Whoop  | High     |
| 8              | 5 Second Whoop  | Low      |
| 9              | 1 Chime         | High     |

| Chime Output (dBA) |                |      |              |             |     |
|--------------------|----------------|------|--------------|-------------|-----|
| Switch Position    | Sound Pattern  | dB   | 8–17.5 Volts | 16–33 Volts |     |
|                    |                |      | DC           | DC          | FWR |
| 1                  | 1 Second Chime | High | 61           | 62          | 62  |
| 2                  | 1 Second Chime | Low  | 56           | 55          | 55  |
| 3                  | ¼ Second Chime | High | 67           | 70          | 70  |
| 4                  | ¼ Second Chime | Low  | 61           | 61          | 61  |
| 5                  | Temporal Chime | High | 64           | 66          | 66  |
| 6                  | Temporal Chime | Low  | 59           | 60          | 60  |
| 7                  | 5 Second Whoop | High | 76           | 78          | 78  |
| 8                  | 5 Second Whoop | Low  | 62           | 64          | 64  |
| 9                  | 1 Chime        | High | 76           | 78          | 78  |

| UL/ULC Maximum Chime Strobe Current Draw (mA) and Sound Output (dBA) |                |                   |                                                                         |      |      |      |               |                  |               |                  |                  |               |                          |
|----------------------------------------------------------------------|----------------|-------------------|-------------------------------------------------------------------------|------|------|------|---------------|------------------|---------------|------------------|------------------|---------------|--------------------------|
|                                                                      |                |                   | Current Draw (mA RMS), Chime Strobe,<br>Candela Range (15-185 cd), FCP* |      |      |      |               |                  |               |                  |                  |               | Sound<br>Output<br>(dBA) |
| Pos                                                                  | Tone           | Volume<br>Setting | 16–33 Volts                                                             |      |      |      |               |                  |               |                  |                  |               | 16-33 V                  |
|                                                                      |                |                   | 15cd                                                                    | 30cd | 75cd | 95cd | 110cd<br>WALL | 115cd<br>CEILING | 135cd<br>WALL | 150cd<br>CEILING | 177cd<br>CEILING | 185cd<br>WALL | DC                       |
| 1                                                                    | 1 Second Chime | High              | 40                                                                      | 42   | 92   | 92   | 89            | 93               | 130           | 145              | 186              | 218           | 65                       |
| 2                                                                    | 1 Second Chime | Low               | 47                                                                      | 44   | 93   | 94   | 90            | 94               | 116           | 137              | 189              | 225           | 58                       |
| 3                                                                    | ¼ Second Chime | High              | 50                                                                      | 48   | 96   | 96   | 98            | 94               | 114           | 136              | 187              | 204           | 69                       |
| 4                                                                    | ¼ Second Chime | Low               | 36                                                                      | 37   | 90   | 95   | 91            | 95               | 116           | 137              | 184              | 210           | 62                       |
| 5                                                                    | Temporal Chime | High              | 37                                                                      | 38   | 91   | 93   | 90            | 94               | 149           | 178              | 187              | 206           | 68                       |
| 6                                                                    | Temporal Chime | Low               | 38                                                                      | 36   | 91   | 94   | 89            | 94               | 150           | 154              | 180              | 221           | 61                       |
| 7                                                                    | 5 Second Whoop | High              | 36                                                                      | 38   | 93   | 94   | 94            | 95               | 120           | 138              | 189              | 212           | 80                       |
| 8                                                                    | 5 Second Whoop | Low               | 37                                                                      | 40   | 91   | 93   | 92            | 93               | 114           | 140              | 186              | 214           | 65                       |

# L-Series with LED Dimensions



## L-Series with LED: Ordering Information

| Model                                  | Description                             |
|----------------------------------------|-----------------------------------------|
| <b>L-Series with LED Chime Strobes</b> |                                         |
| CHSRLED                                | Chime Strobe, Wall, Red                 |
| CHSWLED                                | Chime Strobe, Wall, White               |
| CHSCRLED                               | Chime Strobe, Ceiling, Red              |
| CHSCWLED                               | Chime Strobe, Ceiling, White            |
| CHSRLED-B                              | Chime Strobe, Wall, Red, Bilingual      |
| CHSWLED-B                              | Chime Strobe, Wall, White, Bilingual    |
| CHSCRLED-B                             | Chime Strobe, Ceiling, Red, Bilingual   |
| CHSCWLED-B                             | Chime Strobe, Ceiling, White, Bilingual |
| <b>L-Series Chimes</b>                 |                                         |
| CHRL                                   | Chime, Wall, Red                        |
| CHWL                                   | Chime, Wall, White                      |
| <b>Accessories</b>                     |                                         |
| SBBRL                                  | Surface Mount Back Box, Wall, Red       |
| SBBWL                                  | Surface Mount Back Box, Wall, White     |
| SBBCRL                                 | Surface Mount Back Box, Ceiling, Red    |
| SBBCWL                                 | Surface Mount Back Box, Ceiling, White  |
| <b>LED Lenses</b>                      |                                         |
| LENS-A3                                | Lens LED Amber Wall/Ceiling             |
| LENS-B3                                | Lens LED Blue Wall/Ceiling              |
| LENS-G3                                | Lens LED Green Wall/Ceiling             |
| LENS-R3                                | Lens LED Red Wall/Ceiling               |
| <b>Bezels †</b>                        |                                         |
| BZR                                    | Wall Red Bezel Kit                      |
| BZW                                    | Wall White Bezel Kit                    |
| BZRC                                   | Horn Strobe Ceiling Red Bezel Kit       |
| BZWC                                   | Horn Strobe Ceiling White Bezel Kit     |

### Notes for L-Series With LED Chime Strobes:

All -B models have "FIRE/FEU" marking on cover for use in Canadian applications.

### Notes for Bezels:

† Each bezel pack ships in a package of 5.

Add one of the following extensions for print/language options:

-F (FIRE), -AL (ALERT), -EV (EVAC),  
 -AG (AGENT), -P (Plain), -FR (FEU),  
 -PG(FOGO), -SP (FUEGO), -SPE (FUEGO/FIRE).

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