

# SS-P2RH-LF Wall/ceiling 520Hz horn/strobe, red

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ 520 Hz square wave tone meets NFPA 72 sleeping area requirements
- ▶ Rotary switch for setting sounder for temporal three pattern, continuous pattern, or coded supply within the frequency range
- ▶ Field-selectable candela settings of 135, 150, 177 or 185 cd
- ▶ Plug-in design with minimal intrusion into the back box
- ▶ Listed for wall or ceiling mounting

## Certifications and approvals

| Region | Regulatory compliance/quality marks |                                                                                                    |
|--------|-------------------------------------|----------------------------------------------------------------------------------------------------|
| USA    | UL                                  | ANSI/UL 464, Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories |
|        | UL                                  | ANSI/UL 1971, Signaling Devices for the Hearing Impaired                                           |
|        | FM                                  | see the FM Approval Guide                                                                          |
|        | CSFM                                | see the Bosch website (www.boschsecurity.com)                                                      |

## Installation/configuration notes

### Compatible devices

The SS-P2RH-LF sounder can be used with the SS-MDL3R System Sensor synchronization module. However, the FPA-1000 family, FPD-7024 family, and FPP-RNAC-8A-4C Power supply have the System Sensor protocol built in.

### Mounting considerations

The SS-P2RH-LF sounder/strobe mounts on a:

- Standard 4 in. x 4 in. x 1.5 in. back box

- 4 in. octagonal back box
- Double-gang back box
- Single-gang back box
- 2 in. x 4 in. x 1-7/8 in. back box

### Wiring considerations

The input terminals can accept solid wires between 12 AWG (ISO 4 mm<sup>2</sup>) and 18 AWG (ISO 0.75 mm<sup>2</sup>).

## Parts included

| Quantity | Component                                   |
|----------|---------------------------------------------|
| 1        | SS-P2RH-LF sounder/strobe                   |
| 1        | Universal mounting plate                    |
| 1        | Hardware pack - 5 mounting screws           |
| 1        | Literature pack - Installation instructions |

## Technical specifications

### Acoustical

#### Reverberant\* sounder output (dBA)

|                                 |                     |        |
|---------------------------------|---------------------|--------|
| Temporal pattern (position 1)   | 12 or 24 V nominal* | 76 dBA |
| Continuous pattern (position 2) | 12 or 24 V nominal* | 80 dBA |

\* Minimum dB rating for operational voltage range per UL 464

### Electrical

#### Sounder/strobe current draw (mA)

#### Temporal pattern

|              |                                                              |
|--------------|--------------------------------------------------------------|
| 16 - 33 VDC  | 135 cd = 277<br>150 cd = 292<br>177 cd = 325<br>185 cd = 344 |
| 16 - 33 VFWR | 135 cd = 296<br>150 cd = 309<br>177 cd = 343<br>185 cd = 351 |

#### Continuous pattern

|              |                                                              |
|--------------|--------------------------------------------------------------|
| 16 - 33 VDC  | 135 cd = 337<br>150 cd = 362<br>177 cd = 387<br>185 cd = 417 |
| 16 - 33 VFWR | 135 cd = 393<br>150 cd = 395<br>177 cd = 432<br>185 cd = 433 |

#### Voltage:

|                         |                                           |
|-------------------------|-------------------------------------------|
| Nominal (regulated)     | 12 VDC/FWR or 24 VDC/FWR                  |
| Range                   | 8 to 17.5 VDC/FWR or 16 to 33 VDC/FWR     |
| Range with synch module | 8.5 to 15.5 VDC/FWR or 16.5 to 33 VDC/FWR |

### Environmental

|                         |                               |
|-------------------------|-------------------------------|
| Humidity                | 10% to 93%, noncondensing     |
| Temperature (operating) | +32°F to 120°F (0°C to +49°C) |

### Mechanical

|                                 |                                                       |
|---------------------------------|-------------------------------------------------------|
| Dimensions (LxWxH)              |                                                       |
| Sounder/strobe (including lens) | 6.4 in. x 4.7 in. x 2.5 in. (162 mm x 120 mm x 64 mm) |

### Visual

#### Light output

For degrees (°), a tolerance of ± 1° is permitted

| Horizontal dispersion |             | Vertical dispersion wall to floor/wall to floor |             | Vertical dispersion ceiling to wall to floor |             |
|-----------------------|-------------|-------------------------------------------------|-------------|----------------------------------------------|-------------|
| Degree (°)            | Percent (%) | Degree (°)                                      | Percent (%) | Degree (°)                                   | Percent (%) |
| 0                     | 100         | 0                                               | 100         | 0                                            | 100         |
| 5-25                  | 90          | 5-30                                            | 90          | 5-25                                         | 90          |
| 30-45                 | 75          | 35                                              | 65          | 30-45                                        | 75          |
| 50                    | 55          | 40                                              | 46          | 50                                           | 55          |
| 55                    | 45          | 45                                              | 34          | 60                                           | 45          |
| 60                    | 40          | 50                                              | 27          | 65                                           | 35          |
| 65                    | 35          | 55                                              | 22          | 70                                           | 35          |
| 70                    | 35          | 60                                              | 18          | 75                                           | 30          |
| 75                    | 30          | 65                                              | 16          | 80                                           | 30          |
| 80                    | 30          | 70                                              | 15          | 85                                           | 25          |
| 85                    | 25          | 75                                              | 13          | 90                                           | 25          |
| 90                    | 25          | 80-90                                           | 12          |                                              |             |

### Trademarks

All hardware/software product names used in this document are likely to be registered trademarks and must be treated accordingly.

### Ordering information

#### SS-P2RH-LF Wall/ceiling 520Hz horn/strobe, red

An audible/visual device designed for 12 VDC/FWR or 24 VDC/FWR circuits. The 520 Hz tone is more effective in waking individuals in sleeping areas. The strobe has selectable candela settings of 135, 150, 177, or 185 and flashes at 1 Hz.

Order number **SS-P2RH-LF**

#### Accessories

#### SS-MDL3R System Sensor Synchronization, RD

The SS-MDL3R module allows synchronizing temporal-coded horns, synchronizing strobe flash time to 1 s, and silencing horns in horn/strobe combinations.

Order number **SS-MDL3R**

**Represented by:**

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
emea.securitysystems@bosch.com  
emea.boschsecurity.com

**Germany:**  
Bosch Sicherheitssysteme GmbH  
Robert-Bosch-Ring 5  
85630 Grasbrunn  
Germany  
www.boschsecurity.com

**North America:**  
Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
onlinehelp@us.bosch.com  
www.boschsecurity.us

**Asia-Pacific:**  
Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia