These Wheelock horn strobes are two-wire devices that provide strobe choices of 15 cd, 30 cd, 75 cd, or 95 cd (MCC ceiling-mount models) or 15 cd, 30 cd, 75 cd, or 110 cd (MCW wall-mount models). They offer tone choices of either continuous horn or temporal pattern (Code 3) tone when constant voltage from the fire alarm control panel (FACP) is applied. Each tone has three volume levels that can be selected at installation (field-selectable). These horn strobes can be synchronized with the SM (single) and DSM (dual) modules or a compatible control panel. The audible response can be silenced while maintaining strobe activation, a requirement in some jurisdictions.

Certifications and approvals
Cooper Wheelock, Inc. holds these Listings and Approvals:

- CBFP City of Chicago Bureau of Fire Protection
- ADA Complies with Americans with Disabilities Act
- ANSI Complies with American National Standards Institute ANSI 117.1
- NFPA Complies with National Fire Protection Association NFPA 72
- OSHA Complies with Occupational Safety and Health Administration OSHA 29 Part 1910.165
- UL MCC models: UCST_E5946 - Audible Signal Appliances, General Signal
- UL MCC models: UUKC_S5391 - Signaling Appliances and Equipment for the Hearing Impaired
- UL MCW models: UUKC_S5391 - Signaling Appliances and Equipment for the Hearing Impaired
- CSFM 7125-0785:0131

Installation/configuration notes
Compatible Products
The following products are compatible with the AS Series Horn Strobes:
### Categories

**Control Panels**
- **D7022**: Conventional FACP
- **D7024**: Addressable FACP
- **D7024**: Conventional FACP
- **D8024**: Analog FACP
- **D9124**: Addressable FACP
- **D10024A**: Analog FACP

**Modules**
- **SM-12/24-R**: Synchronization module (red)
- **DSM-12/24-R**: Dual synchronization module (red)

1 For synchronization, use the SM or DSM modules with these control panels. The synchronization module must be set for 24 V operation. When used, the D7022 must be set for 24 VDC operation.

2 When used with a D7039 Multiplex Expansion Module, the D7024 becomes an addressable fire alarm control panel (FACP).

### Mounting Considerations

These horn strobes employ a strobe mounting plate supplied with the product to simplify mounting on the indicated back boxes for the indicated applications:

<table>
<thead>
<tr>
<th>Conduit Applications</th>
<th>Surface Mounted</th>
<th>Flush Mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-gang</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Double-gang</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Four-inch square</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Four-inch square, deep</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-mm European</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHBB-R</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Each device comes supplied with a beauty plate for an attractive finish.

### Wiring

**Notice**

Do not use these strobe units in coded or pulsed signaling circuits.

The input terminals accept wires with diameters between 18 AWG (1.2 mm) and 12 AWG (2.3 mm).

### Parts included

<table>
<thead>
<tr>
<th>Quant.</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Horn Strobe</td>
</tr>
<tr>
<td>1</td>
<td>Mounting Plate</td>
</tr>
<tr>
<td>1</td>
<td>Hardware pack</td>
</tr>
<tr>
<td>1</td>
<td>Literature pack</td>
</tr>
</tbody>
</table>

### Technical specifications

#### Environmental Considerations
- **Relative humidity**: Up to 95%, non-condensing
- **Temperature (operating)**: +32°F to +120°F (0°C to +49°C)

#### Mechanical Properties
- **Candela Ratings**: MCC: 15 cd, 30 cd, 75 cd, or 95 cd
  - MCW: 15 cd, 30 cd, 75 cd, or 110 cd
- **Dimensions (H x W x D)**: 4.8125 in. x 4.8125 in. x 2.5 in.
  - (12.2 cm x 12.2 cm x 6.4 cm)
- **Material**: Molded plastic enclosure incorporating a Xenon flashtube and Lexan lens.

#### Power Requirements

**Current (maximum) MCC models**
- **High (99) dBA**
  - 15 cd: 95 mA VDC; 135 mA FWR
  - 30 cd: 138 mA VDC; 190 mA FWR
  - 75 cd: 221 mA VDC; 305 mA FWR
  - 95 cd: 285 mA VDC; 400 mA FWR
- **Medium (95) dBA**
  - 15 cd: 80 mA VDC; 124 mA FWR
  - 30 cd: 122 mA VDC; 174 mA FWR
  - 75 cd: 201 mA VDC; 294 mA FWR
  - 95 cd: 269 mA VDC; 390 mA FWR
- **Low (90) dBA**
  - 15 cd: 74 mA VDC; 115 mA FWR
  - 30 cd: 113 mA VDC; 170 mA FWR
  - 75 cd: 198 mA VDC; 290 mA FWR
  - 95 cd: 263 mA VDC; 385 mA FWR

**Current (maximum) MCW models**
- **High (99) dBA**
  - 15 cd: 88 mA VDC; 126 mA FWR
  - 30 cd: 125 mA VDC; 180 mA FWR
  - 75 cd: 200 mA VDC; 289 mA FWR
  - 110 cd: 267 mA VDC; 382 mA FWR
- **Medium (95) dBA**
  - 15 cd: 74 mA VDC; 112 mA FWR
  - 30 cd: 110 mA VDC; 172 mA FWR
  - 75 cd: 190 mA VDC; 275 mA FWR
  - 110 cd: 253 mA VDC; 374 mA FWR
- **Low (90) dBA**
  - 15 cd: 68 mA VDC; 105 mA FWR
  - 30 cd: 105 mA VDC; 166 mA FWR
  - 75 cd: 182 mA VDC; 270 mA FWR
  - 110 cd: 245 mA VDC; 370 mA FWR

#### Voltage Ranges
- **24 V nominal**: 16.0 to 33.0 VDC or FWR

#### Sound Output Ratings (Reverberant dBA at 10 ft [3 m])

- **Continuous Horn**
  - High Volume Setting: 88 dBA to 93 dBA
  - Medium Volume Setting: 85 dBA to 91 dBA
  - Low Volume Setting: 80 dBA to 86 dBA

- **Temporal (Code 3) Horn**
High Volume Setting: 84 dBA to 90 dBA
Medium Volume Setting: 80 dBA to 86 dBA
Low Volume Setting: 57 dBA to 82 dBA

Trademarks
Trademark names are used throughout this document. In most cases, these designations are claimed as trademarks or registered trademarks in one or more countries by their respective owners. Rather than placing a trademark symbol in every occurrence of a trademark name, Bosch Security Systems, Inc. uses the names only in an editorial fashion and to the benefit of the trademark owner with no intention of infringing the trademark.

Lexan is a registered trademark of General Electric Corporation, USA, in the United States and other countries.

Ordering information

**AS-24MCC-FR Ceiling-mount Horn Strobe (red)**
Red, 24 VDC, ceiling-mount device with strobe choices of 15 cd, 30 cd, 75 cd, or 95 cd, three field-selectable volume settings, and choices of either continuous horn or temporal (Code 3) sound patterns
Order number **AS-24MCC-FR**

**AS-24MCC-FW Ceiling-mount Horn Strobe (white)**
White, 24 VDC, ceiling-mount device with strobe choices of 15 cd, 30 cd, 75 cd, or 95 cd, three field-selectable volume settings, and choices of either continuous horn or temporal (Code 3) sound patterns
Order number **AS-24MCC-FW**

**AS-24MCW-FR Wall-mount Horn Strobe (red)**
Red, 24 VDC, wall-mount device with strobe choices of 15 cd, 30 cd, 75 cd, or 110 cd, three field-selectable volume settings, and choices of either continuous horn or temporal (Code 3) sound patterns
Order number **AS-24MCW-FR**

**AS-24MCW-FW Wall-mount Horn Strobe (white)**
White, 24 VDC, wall-mount device with strobe choices of 15 cd, 30 cd, 75 cd, or 110 cd, three field-selectable volume settings, and choices of either continuous horn or temporal (Code 3) sound patterns
Order number **AS-24MCW-FW**

Accessories

**BB-R Steel Back Box**
Black, 10.2 cm (4 in.) square, 3.8 cm (1.5 in.) deep
Order number **BB-R**

**DBB-R Steel Back Box (red)**
8.6 cm (3.375 in.) square, 5.6 cm (2.1875 in.) deep
Order number **DBB-R**

**NATP-R Trim Plate (red)**
13.3 cm (5.25 in.) square, 2.1 cm (0.8125 in.) thick
Order number **NATP-R**

**NATP-W Trim Plate (white)**
13.3 cm (5.25 in.) square, 2.1 cm (0.8125 in.) thick
Order number **NATP-W**

**RP-R Retrofit Plate (red)**
20.3 cm (8 in.) high, 14.9 cm (5.875 in.) wide
Order number **RP-R**

**SBL2-R Retrofit Device Back Box (red)**
dimensions 27.8 cm (10.9 in.) x 15.5 cm (6.1 in.) x 4.3 cm (1.7 in.)
Order number **SBL2-R**

**SFP-R Semi-flush Plate (red)**
15.2 cm (6 in.) square by 0.8 cm (0.3125 in.) thick
Order number **SFP-R**

**SHBB-R Shallow Surface Back Box (red)**
12.7 cm (5 in.) square by 4 cm (1.56 in.) deep
Order number **SHBB-R**