# NH Horns

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**Invented for life**



▶ Two selectable nationally and internationally recognized alerting signals

▶ Two selectable sound output levels

▶ 12 VDC or 24 VDC, filtered or unfiltered

▶ Low average current draw

▶ NFPA and ANSI compliant

The Wheelock NH Horns have a choice of two tone patterns (continuous or temporal [Code 3] horn tones) and two sound output levels (high [95 dBA] or low [90 dBA]). The temporal (Code 3) horn pattern meets ANSI/NFPA/ISO requirements for standard emergency evacuation signaling.

These two-wire horns feature low current draw on either 12 VDC or 24 VDC, filtered (FWR) or unfiltered. All inputs are polarized for compatibility with standard reverse polarity supervision of the circuit wiring by the control panel. The temporal patterns can be synchronized with an SM (single) or a DSM (dual) synchronization module or a compatible control panel. They have a universal mounting plate for easy wall mounting on a variety of back boxes.

## Certifications and approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

| Region | Certification | |
|--------|---------------|---|
| USA | UL | UCST_E5946 - Audible Signal Appliances, General Signal |
| | CSFM | 7125-0785-0142 |
| Canada | ULC | ULSZC_E5946 - Audible Signal Appliances and Accessories, Fire Alarm |

## Installation/configuration notes

### Compatible Products
The following products are compatible with the NH Horns:

| Category | Product ID | Product Description |
|----------|------------|---------------------|
| Control Panels | Compatible with all Bosch G Series, 6000 Series, 2000 Series, DS7400Xi and DS7400XiV4, DS7080iP-32, DS7200 Series, and DS7060 Series Control Panels[1] | |
| | D7022[2] | Conventional FACP |
| | D7024[3] | Addressable FACP |
| | D7024 | Conventional FACP |
| | D8024[4] | Analog FACP |
| | D9124[4] | Addressable FACP |

| Modules | D10024A[4] | Analog FACP |
|---|---|---|
| | SM-12/24-R | Synchronization module (red) |
| | DSM-12/24-R | Dual synchronization module (red) |
| | RSSP-241575W-FR | Fixed-candela retrofit strobe plate |
| | RSSP-24MCW-FR | Multi-candela retrofit strobe plate |
| | RSSP-24MCWH-FR | High-candela retrofit strobe plate |

[1] For synchronization, use the SM or DSM modules with these control panels and set the horns and synchronization module for 12 VDC operation.
[2] The D7022 can be used in either 12 VDC or 24 VDC mode, but the horns and synchronization module must be set for the same operating voltage as the control panel.
[3] When used with a D7039 Multiplex Expansion Module, the D7024 becomes an addressable fire alarm control panel (FACP).
[4] For synchronization, use the SM or DSM modules with these control panels and set the horns and synchronization module for 24 VDC operation.

## Mounting Considerations

Wall mount these horns on the indicated back boxes for the indicated applications:

| | Conduit Applications | Surface Mounted | Semi-Flush or Flush Mount |
|---|---|---|---|
| Single-gang | | | • |
| Double-gang | • | • | • |
| Four-inch square | • | • | • |
| 100-mm European | | • | • |
| BB | • | • | • |
| DBB | • | • | • |
| SBB | • | • | |
| SHBB | | • | |

All models have an attractive cover plate for a clean, finished appearance.

## Use as Combination Appliance

Where combination appliances are required, use the NH Horns with the RSSP-241575W-FR (15/75 cd), RSSP-24MCW-FR (15 cd, 30 cd, 75 cd, or 110 cd), or RSSP-24MCWH-FR (135 cd or 185 cd) Retrofit Strobe Plates that are designed to meet or exceed the latest requirements of NFPA 72, ANSI 117.0 and UL 1971. The horns and retrofit strobe plates are also compatible with the SBL2-R Retrofit Device Back Box.

## Wiring

**i** **Notice**

Do not use these horn units in coded or pulsed signaling circuits when set for temporal horn pattern.

The input terminals accept wires with diameters between 18 AWG and 12 AWG (ISO 0.75 mm$^2$ and 4 mm$^2$).

## Parts included

| Quant. | Component |
|---|---|
| 1 | Horn |
| 1 | Universal mounting plate |
| 1 | Hardware pack |
| 1 | Literature pack |

## Technical specifications

### Electrical

#### Current (maximum)

| At 12 V: | High output: 21 mA VDC, 54 mA FWR Low output: 12 mA VDC, 30 mA FWR |
|---|---|
| At 24 V: | High output: 44 mA VDC, 75 mA FWR Low output: 18 mA VDC, 45 mA FWR |

#### Voltage (input)

| Nominal: | 12 VDC or FWR or 24 VDC or FWR |
|---|---|
| Range: | 12 V: 8.0 V to 17.5 V; 24 V: 16.0 V to 33.0 V |

### Environmental

| Relative Humidity: | Up to 95%, non-condensing |
|---|---|
| Temperature (Operating): | +32°F to +120°F (0°C to +49°C) |

### Mechanical

| Dimensions (H x W x D): | 4.75 in. x 4.75 in. x 1.3 in. (12.1 cm x 12.1 cm x 3.3 cm) |
|---|---|

### Alarm Patterns and Ratings

#### Horn (continuous)

| Pattern Description: | Broadband continuous horn |
|---|---|
| Sound output* at 10 ft (3 m) at 12 V: | High output: 83 dBA Low output: 76 dBA |
| Sound output* at 10 ft (3 m) at 24 V: | High output: 87 dBA Low output: 81 dBA |

#### Horn (Code 3)

| Pattern Description: | Horn (ANSI S3.41 temporal pattern) |
|---|---|
| Sound output* at 10 ft (3 m) at 12 V: | High output: 79 dBA Low output: 72 dBA |
| Sound output* at 10 ft (3 m) at 24 V: | High output: 82 dBA Low output: 76 dBA |

* Sound output is a minimum UL rating based on sound power measurements in a reverberant test room per UL464.

## Ordering information

### NH-12/24-R Horn (red)
Red, 12 VDC or 24 VDC horn with choice of two tone patterns (continuous or temporal [Code 3] horn tones) and two sound output levels (high [95 dBA] or low [90 dBA]).
**Not Available.**
Order number **NH-12/24-R**

### NH-12/24-W Horn (white)
White, 12 VDC or 24 VDC horn with choice of two tone patterns (continuous or temporal [Code 3] horn tones) and two sound output levels (high [95 dBA] or low [90 dBA]).
**Not Available.**
Order number **NH-12/24-W**

### 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.
**Not Available.**
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.
**Not Available.**
Order number **RP-R**

### SBB-R Surface-mount Back Box (red)
14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)
Order number **SBB-R**

### SBB-W Surface-mount Back Box (white)
14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)
Order number **SBB-W**

### 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**