

**BOSCH**

Invented for life

STH Series Cluster Horn Loudspeakers



The Wheelock STH Series Cluster Horn Loudspeakers are designed for high ambient noise environments such as manufacturing plants, processing plants, and factories. They are available in configurations with two, three, or four horns that meet the requirements of UL1480. Each horn can deliver up to 102 dB at 15 W at 10 ft (3 m).

Functions

Sound Settings

Each loudspeaker has a slotted rotating switch used to set the output decibels. Refer to the installation instructions packed with the product for specific information about these settings.

Strobe Option

To provide a visual indicator, any or all of the loudspeakers can be detached from the enclosure and surface mounted on a wall, ceiling, or the enclosure using an SBL-R Surface-Mount Back Box with an SHMP-R Adapter Plate and an RSSP Series Retrofit Strobe Plate.

Note The RSSP Series Retrofit Strobe Plates can be synchronized with each other using an SM or DSM Synchronization Module or by a compatible control panel.

- ▶ **Multi-directional sound**
- ▶ **Field-selectable taps from 1 W to 15 W for either 25 VRMS or 70 VRMS**
- ▶ **UL-rated reverberant frequency range from 400 Hz to 4 kHz**
- ▶ **Mounts on wall or ceiling**
- ▶ **Conduit knockouts for ½-inch or ¾-inch couplings**

Certifications and Approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Listings and Approvals:	UL UUMW: Speakers and Amplifiers for Fire Protective Signaling Systems (UL1480)
Complies with:	National Fire Protection Association (NFPA 72 and NFPA 101)
	Occupational Safety and Health Administration (OSHA 1910.165)

Installation/Configuration Notes

Compatibility Information

The STH Series Cluster Horn Loudspeakers are compatible with UL Listed 25 VRMS or 70 VRMS audio systems.

Mounting Considerations

Each of the horns is mounted on a galvanized steel enclosure measuring 10 in. (25.4 cm) square by 6 in. (15.2 cm) deep. Mount the enclosure on walls or ceilings capable of supporting the weight of the cluster assembly. Use appropriate fasteners.

Note These loudspeakers are for indoor use only and are not intended for use in wash-down areas.

Wiring Considerations

Each horn is wired to a terminal block inside the galvanized steel enclosure. Horns can be connected together using the same wire gauge as the input wire. Refer to the installation instructions packed with the product for the proper horn numbering sequence.

Parts Included

Quant.	Component
1	Cluster assembly
1	Literature pack

Technical Specifications

Audio Characteristics (Individual Horn)

Frequency Response:	UL rated at 400 Hz to 4 kHz at 15 W; 400 Hz to 14 kHz anechoic
Sound Dispersion:	70°
Sound Level (peak):	120 dB at 15 W at 1 m

Environmental Considerations

Temperature (operating):	-30°F to +150°F (-35°C to +66°C)
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Mechanical Properties

Assembly

Color:	G-models: grey; R-models: red
Weight (approximate):	Two-horn: 14 lb (6.1 kg) Three-horn: 19 lb (8.3 kg) Four-horn: 23 lb (10.0 kg)

Enclosure

Dimensions:	10 in. (25.4 cm) square by 6 in. (15.2 cm) deep
Material:	galvanized steel

Horns

Dimensions (H x W x D):	8.75 in. x 7.9 in. x 9.3 in. (22.2 cm x 20.0 cm x 23.7 cm)
Material:	Aluminum with baked epoxy finish

Power Requirements

Constant Line Voltage:	25 VRMS or 70 VRMS
Power Handling Capacity (RMS):	15 W

Ordering Information

STH-2G Two-horn Cluster Loudspeaker (grey) STH-2G

Grey, two-horn cluster loudspeaker for high ambient noise environments with dual voltage capability (25 VRMS or 70 VRMS) and field-selectable taps from 1 W to 15 W

STH-2R Two-horn Cluster Loudspeaker (red) STH-2R

Red, two-horn cluster loudspeaker for high ambient noise environments with dual voltage capability (25 VRMS or 70 VRMS) and field-selectable taps from 1 W to 15 W

STH-3R Three-horn Cluster Loudspeaker (red) STH-3R

Red, three-horn cluster loudspeaker for high ambient noise environments with dual voltage capability (25 VRMS or 70 VRMS) and field-selectable taps from 1 W to 15 W

STH-4R Four-horn Cluster Loudspeaker (red) STH-4R

Red, four-horn cluster loudspeaker for high ambient noise environments with dual voltage capability (25 VRMS or 70 VRMS) and field-selectable taps from 1 W to 15 W

Accessories

RSSP-24MCWH-FR 24 VDC High-candela Retrofit Strobe (red) RSSP-24MCWH-FR

24 VDC retrofit strobe with field-selectable intensities of 135 cd or 185 cd

RSSP-241575W-FR 24 VDC Fixed-candela Retrofit Strobe (red) RSSP-241575W-FR

24 VDC retrofit strobe listed at 15 cd, but providing 75 cd on axis

RSSP-24MCW-FR 24 VDC Multi-candela Retrofit Strobe (red) RSSP-24MCW-FR

24 VDC retrofit strobe with field-selectable intensities of 15 cd, 30 cd, 75 cd, or 110 cd

RSSP-121575W-FR 12 VDC Retrofit Strobe (red) RSSP-121575W-FR

12 VDC retrofit strobe listed at 15 cd, but providing 75 cd on axis

SBL2-R Retrofit Device Back Box (red) SBL2-R

dimensions 27.8 cm (10.9 in.) x 15.5 cm

(6.1 in.) x 4.3 cm (1.7 in.)

SHMP-R Adapter Plate (red) SHMP-R

Red adapter plate

SHMP-W Adapter Plate (white) SHMP-W

White adapter plate

SM-12/24-R Single Synchronization Module (red) SM-12/24-R

A 12/24 VDC Cooper Wheelock module that synchronizes notification appliances on Class B alarm circuits.

Ordering Information**DSM-12/24-R Dual Synchronization Module (red) DSM-12/24-R**

A 12/24 VDC Cooper Wheelock module that synchronizes notification appliances on a single Class A or two Class B circuits.

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