

STH 15-S Supervised speakers



STH-15SR (Red)
STH-15S (Gray)



SHMP-R
Adapter plate

Description

The Wheelock STH-15S supervised horn loudspeakers are equipped with a compression driver providing up to 15 watts RMS power handling capability, superior intelligibility and dispersion to achieve maximum sound projection and penetration.

Weather-resistant metal construction and reentrant acoustic path assure protection against water, humidity, vermin and corrosion. The mounting bracket allows directional sound dispersion via vertical and horizontal positioning. Provisions are also included for surface or strap mounting to pillars and I-beams.

All models include a built-in 25/70/100 V transformer featuring a screwdriver adjustable, 7-position watt/impedance selection switch. Wiring terminals are protected with a vandal-resistant adapter cover for control equipment utilizing cable or conduit.

A built-in 5 mfd capacitor is provided on both models for line supervision.

All models meet or exceed the UL Listed standards for audible signal appliances and are capable of operating within an ambient temperature range of 150° F (66° C) to -30° F (-35° C). Models comply with UL Standard 1480—Speakers for Fire Protective Signaling Systems and California State Fire Marshal (Title 19).

Specifications: General

- Dispersion angle: 70 Degrees (-6 dB @ 2,000 Hz octave band)

Specifications: UL Rating

- Power rating: 15 Watt continuous
- Frequency response: 400–14,000 Hz (nominal)
- Sensitivity: 102 dB @ 15 Watts @ 10 ft.

Applications

The Wheelock STH-15S supervised horn loudspeakers are surface-mounting, high-efficiency units for life safety and communication system applications. When used with compatible control equipment, they provide high-intelligibility voice reproduction and signal transmission for indoor or outdoor emergency alarm and protective signaling.

Features & benefits

- Approvals include UL Standard 1480—Speakers for Fire Protective Signaling Systems, California State Fire Marshal (CSFM) Title 19
- Meets or exceeds UL Listed standards for audible signal appliances
- 15-Watt high-efficiency compression driver
- Weather-resistant, vandal-resistant aluminum construction assures protection against water, humidity, vermin, and corrosion
- Reentrant acoustic path
- 25/70/100 V transformer featuring a screwdriver adjustable, 7-position watt/impedance selection switch
- 5 mfd capacitor for line supervision
- STH-15S gray-baked epoxy finish; STH-15SR red-baked epoxy finish
- Simplified, universal-mounting bracket adjustable in horizontal and vertical planes with banding slots for beam or pillar mounting
- Installation terminals and power selector are recessed mounted, and protected by the metal interface adapter, or clear plastic shield

Note: Please read these specifications and associated installation instructions before using, specifying, or installing this product. Visit Eaton.com/massnotification for current installation instructions.

Drawings

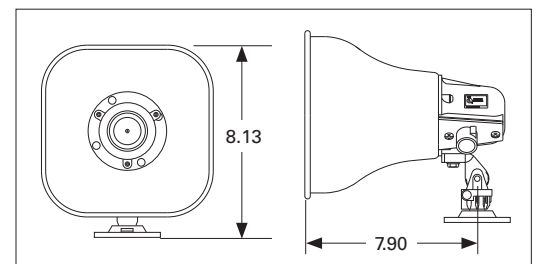


Figure 1. STH 15-S front and side views

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Table 1. Specifications and ordering information

Model Number	Order Code	Finish	Description	Weight
STH-15S	7937	Gray	9" Dia. Supervised, Weatherproof, 15 Watt Horn, Loudspeaker with Transformer, Aluminum	4.5 lbs. (2.0 kgs.)
STH-15SR	7938	Red	9" Dia. Supervised, Weatherproof, 15 Watt Horn, Loudspeaker with Transformer, Aluminum	4.5 lbs. (2.0 kgs.)
SHMP-R	8154	Red	UL Listed adapter plate, designed to mount the STH-15SR horn speaker (7938) to a RSSP strobe mounting plate. For surface mounting applications, the SBL2-R (6988) surface-mount backbox is required.	—
STH-RSSP-KIT	6096	Red	Weatherproof 15 watt supervised 25/70 horn loudspeaker and 15/30/75/110cd strobe with mounting plate, adjustable mounting base for horn and backbox. This kit includes STH-15SR, SHMP-R, RSSP-24MCW-FR, & SBL-2.	—

Table 2. STH-15S & STH-15SR Power switch selections

Setting	Impedance (Ohms)	70.7 Volts		25 Volts		100 Volts	
		Watts	dB @ 10 ft.	Watts	dB @ 10 ft.	Watts	dB @ 10 ft.
1	5,000	0.9W	90	Not used	Not used	2.0W	93
2	2,500	1.8W	93	Not used	Not used	4.0W	96
3	1,300	3.8W	96	0.48W	87	7.5W	99
4	666	7.5W	99	0.94W	90	15.0W	102
5	333	15.0W	102	1.8W	93	Not used	Not used
6	89	Not used	Not used	7.5W	99	Not used	Not used
7	45	Not used	Not used	15.0W	102	Not used	Not used

Table 3. Anechoic measurements

Signal	15 Watt tap @ 10 ft.
Code 3 Tone	107.2 dBA
Slow Whoop	108.5 dBA
Siren	107.8 dBA

Architects and engineers specifications

The supervised horn loudspeaker shall be a STH-15S/STH-15SR or approved equal. The horn shall be weather resistant and constructed of heavy-gauge, treated aluminum. The horn shall be able to operate within any ambient temperature environment ranging from 150° F (66° C) to -30° F (-35° C). The horn shall be a double reentrant type with a 15 watt RMS audio power rated compression driver producing a UL rated 102 dB measured at 15 watts at 10 feet. The horn shall have an impedance selection via a 7-position switch of 5000, 2500, 1300, 666, 333, 89 & 45. Power taps shall be available at 2.0, 4.0, 7.5 and 15 watts for the 100-volt line; 0.9, 1.8, 3.8, 7.5 and 15 watts for the 70-volt line; and 0.48, 0.94, 1.8, 7.5 and 15 watts for the 25-volt line. Each power tap shall have a 3dB incremental rating. The frequency response range shall be 400–14,000 Hz. The horn shall have a dispersion of 70 degrees. The horn assembly shall be furnished with a mounting bracket that allows adjustment on either a vertical or horizontal plane with a single locking pin and include provisions for mounting, banding or strapping. Wiring terminals shall be fully enclosed, and a vandal-resistant adapter cover shall provide connection protection for cable or conduit. The horn shall be 7.875" W x 8.75" H x 9.313" D (200 x 222 x 237 mm). The horn shall be finished in gray- (STH-15S) or red- (STH-15SR) baked epoxy.

Note: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Cooper Wheelock, Inc., dba Eaton, standard terms and conditions.



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1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton
Life safety & mass notification solutions
273 Branchport Ave.
Long Branch, NJ 07740
www.eaton.com/massnotification

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