

Series STH-15S Supervised Horn Loudspeaker



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



SHMP-R Adapter
Plate

Description

The Wheelock Series 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 66°C (150°F) to -35°C (-30°F). Models comply with UL Standard 1480 — Speakers for Fire Protective Signaling Systems and California State Fire Marshal (Title 19).

Applications

The Wheelock Series 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

- 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

Specifications and Ordering Information

Model Number	Order Code	Product Description	Weight
STH-15S	7937	9" Dia. Supervised, Weatherproof, 15 Watt Horn, Loudspeaker with Transformer, Aluminum, Gray	4.5 lbs. (2.0 kgs.)
STH-15SR	7938	9" Dia. Supervised, Weatherproof, 15 Watt Horn, Loudspeaker with Transformer, Aluminum, Red	4.5 lbs. (2.0 kgs.)
SHMP-R	8154	UL Listed Adapter Plate, Designed to mount the STH-15SR Horn Speaker (7938) to a Series RSP Strobe Mounting Plate. For Surface Mount Applications, the SBL-2 (6988) Surface mount backbox is required.	
STH-RSSP-KIT	6096	Weatherproof 15 watt supervised 25/70 horn loudspeaker and 15/30/75/110cd strobe with mounting plate, adjustable mounting base for horn and backbox. Red color.	



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 66 degrees C (150°F) to -35 degrees C (-30°F). 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 & 15 watts for the 100 volt line, .9, 1.8, 3.8, 7.5 & 15 watts for the 70 volt line and .48, .94, 1.8, 7.5 & 15 watts for the 25 volt line. Each power tap shall have a 3dB incremental rating. The frequency response range shall be 400 - 4000 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.

▲ WARNING: PLEASE READ THESE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS AND WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

STH-15S & STH-15SR Power Switch Selections

Setting	Impedance (Ohms)	70.7 Volts		25 Volts		100 Volts	
		Watts	dB @ 10 Feet	Watts	dB @ 10 Feet	Watts	dB @ 10 Feet
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

Specifications (UL RATING)

POWER RATING: 15 Watt Continuous
 FREQUENCY RESPONSE: 400-4,000 Hz
 SENSITIVITY: 102 dB @ 15 Watts @ 10'

SPECIFICATIONS GENERAL

DISPERSION ANGLE: 70 Degrees (-6 dB @ 2,000 Hz Octave Band)

Anechoic Measurements:

15 watt tap @ 10 feet

Code-3 Tone	107.2 dBA
Slow Whoop	108.5 dBA
Siren	107.8 dBA

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



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