

# STH Cluster speakers with one RSS strobe



## Description

The Wheelock STH cluster speaker with RSS multi-candela strobe is designed for indoor ceiling mounting in high ambient noise environments. It is available with 2, 3 or 4 speakers for wide area coverage. The cluster speaker strobe is supplied with STH-15SR (UL1480 Listed) horns and one RSS-24MCCH (UL1971 Listed) ceiling strobe mounted to a NEMA 1 steel enclosure. The strobe is synchronizable. The STH cluster speaker with MCCH strobe comes fully assembled.



### STH-4R24MCCH

Supplied with four STH-15SR horns and one RSS-24MCCH strobe. The strobe plate has the following options:

- Red with no lettering
- Red with FIRE lettering
- White with no lettering
- White with FIRE lettering



### STH-3R24MCCH

Supplied with three STH-15SR horns and one RSS-24MCCH strobe. The strobe plate has the following options:

- Red with no lettering
- Red with FIRE lettering
- White with no lettering
- White with FIRE lettering



### STH-2R24MCCH

Supplied with two STH-15SR horns and one RSS-24MCCH strobe. The strobe plate has the following options:

- Red with no lettering
- Red with FIRE lettering



### STH-90-R24MCCH-NR

Supplied with two STH-15SR horns and one RSS-24MCCH strobe, designed for corner mount. The strobe plate has the following options:

- Red with no lettering
- Red with FIRE lettering

## Applications

Designed for use in manufacturing plants and factories with high ambient noise levels and for UL Required Fire Life Safety Applications.

- Hazard warning/alerting
- Industrial audible and visual signaling
- Process control area notification
- Warning lights
- Security alert indication
- Emergency notification
- Employee notification

## Features & benefits

- STH-15SR Speakers are UL Standard 1480 Listed; RSS-24MCCH Strobes are UL Standard 1971 Listed
- Compliant with ADA, OSHA 1910.165, ANSI 117.1, NFPA 72, NFPA 101, and IFC
- Cluster and strobe wiring can be monitored for integrity by the control panel
- Cluster speaker strobes come fully assembled
- High-efficiency unit for fire life safety and/or general communication announcing/notification
- Provides for high-intelligibility voice reproduction and high-intensity visual alerting for emergency life safety applications, alarm and protective signaling
- Speakers and strobes are prefabricated to a 10" x 10" x 6" NEMA 1 steel enclosure for indoor use
- Mounts to ceiling
- Only 1 pair of wires needed for audio connections
- Strobes are connected to the NAC strobe circuit and are selectable 115 or 177 candela
- Each individual STH-15SR horn is capable of delivering up to 102 dB at 15 watts at 10 feet
- Cluster speakers deliver omni-directional sound
- Conduit knockouts for 1/2" or 3/4" coupling

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

## Drawings

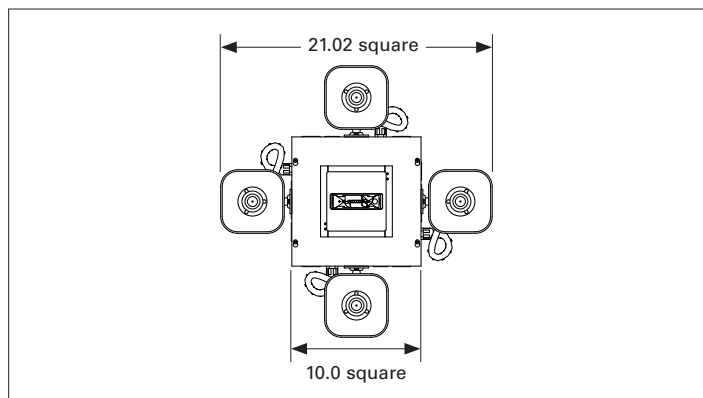


Figure 1. STH Cluster speaker front view

## General notes

### STH-15SR Horn Loudspeakers

- UL Standard 1480 Listed
- Supervised weatherproof horn speaker
- Up to 15 watts RMS of power handling capability
- Superior intelligibility and sound dispersion
- Built-in 25/70 Volt transformer with screwdriver adjustable wattage tape selector
- Frequency response: 400–14,000 Hz
- Power taps:
  - 25 Volts: 0.48, 0.94, 1.8, 7.5, and 15
  - 70 Volts: 0.9, 1.8, 3.8, 7.5, and 15
- Swivel mounted for easy angle adjustment
- Refer to Data Sheet TD450078EN for detailed specs on horn

### RSS-24MCCH Strobe

- UL Standard 1971 Listed
- High intensity selectable 115 or 177 candela ceiling strobe
- Factory setting is 177 candela
- Synchronizable when used with DSM or Wheelock's power supplies or Wheelock's SAFEPATH
- 24 VDC input voltage
- 2-Wire connection
- Current draw @ 24 VDC: 115cd–0.300/177cd–0.420
- Strobes produce 1 flash per second over the regulated voltage range
- Refer to Data Sheet TD450040 for detailed strobe specs

**Table 1. Specifications and ordering information**<sup>①</sup>

Model Number	Order Code	Strobe Plate	Description
STH-4R24MCCH-NR	3089	Red with no lettering	Supervised speaker strobe supplied with four STH-15SR horns and one RSS-24MCCH ceiling strobe mounted to a NEMA 1 steel enclosure.
STH-4R24MCCH-FR	3090	Red with FIRE lettering	
STH-4R24MCCH-NW	0239	White with no lettering	
STH-4R24MCCH-FW	0235	White with FIRE lettering	
STH-3R24MCCH-NR	3144	Red with no lettering	Supervised speaker strobe supplied with three STH-15SR horns and one RSS-24MCCH ceiling strobe mounted to a NEMA 1 steel enclosure.
STH-3R24MCCH-FR	3145	Red with FIRE lettering	
STH-3R24MCCH-NW	0238	White with no lettering	
STH-3R24MCCH-FW	0234	White with FIRE lettering	
STH-2R24MCCH-NR	3146	Red with no lettering	Supervised speaker strobe supplied with two STH-15SR horns and one RSS-24MCCH ceiling strobe mounted to a NEMA 1 steel enclosure.
STH-2R24MCCH-FR	3143	Red with FIRE lettering	
STH-90-R24MCCH-NR	3227	Red with no lettering	Supervised speaker strobe supplied with two STH-15SR horns mounted adjacent to each other, designed for a corner mount configuration and one RSS-24MCCH ceiling strobe mounted to a NEMA 1 steel enclosure.
STH-90-R24MCCH-FR	0522	Red with FIRE lettering	

① The cluster speakers with RSS strobe are a special order. Please consult Customer Service for availability.

## Architects and engineers specifications

The cluster speaker strobe shall be the STH with MCCH Strobe or approved equal. The cluster speaker strobe shall be designed for indoor ceiling mounting for high ambient noise environments. The speaker strobe shall be supplied with UL Standard 1480 listed horn(s) and one UL Standard 1971 listed ceiling strobe mounted to a NEMA 1 steel enclosure. The strobe shall be a selectable 115 or 177 candela syn-chronizable strobe. The cluster speaker and strobe shall be fully assembled. The cluster speaker and strobe shall be capable of use for UL Required Fire Life Safety applications. The cluster speaker and strobe wiring shall be able to be monitored for integrity by the control panel.

The STH cluster speaker with MCCH strobe shall comply with NFPA 72, NFPA 101, OSHA 1910.165, ANSI 117.1, ADA, and IFC.

The speaker horns shall measure 7.87"W x 8.75"H x 9.32"D each and shall be prefabricated on the sides of a 10" x 10" x 6" steel enclosure.

The Strobe shall be a high-intensity selectable 115 or 177 candela ceiling strobe with a current draw of 0.300 amps for 115cd @ 24 VDC or 0.420 amps for 177 cd @ 24VDC, and shall be prefabricated on the bottom of the steel enclosure.

Mounting of the cluster speaker strobe shall be accomplished by using pre-drilled holes in the enclosure or by drilling new holes in order to be compatible with other mounting conditions

**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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Cleveland, OH 44122  
United States  
Eaton.com

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

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