STH cluster speaker with MAX strobe



STH-4MSR



SHMP-R

Description

The Wheelock cluster speakers are designed for ceiling or wall mount applications for high ambient noise environments. The cluster speakers are available in multiple configurations—a speaker/visual (Series STH-MSR) and speaker only (Series STH-R or STH-G). All cluster speakers are equipped with UL listed STH-15SR or STH-15S supervised horn loudspeakers and the speaker/visual system has a UL listed DC-MAX-C strobe, mounted to a steel enclosure.

- STH-4MSR and STH-4R supplied with four STH-15SR Horns
- STH-3MSR and STH-3R supplied with three STH-15SR Horns
- STH-2MSR and STH-2R supplied with two STH-15SR Horns
- · STH-2G supplied with two STH-15S Horns

All STH MSR series cluster speakers are supplied with one DC-MAX-C strobe with clear lens.

The SHMP-R is a UL listed adapter plate designed for mounting one STH-15SR horn to a series RSSP strobe mounting plate. For surface mount applications, the SBL-R surface mount backbox is required.

Application

Designed for use in manufacturing plants, processing plants and factories with high ambient noise levels.

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



Features & benefits

- · Cluster speaker systems come fully assembled
- High-efficiency unit for life safety and/or general communication announcing/notification
- Provides high-intelligibility voice reproduction and strobe models feature high-intensity visual alerting for emergency alarm and protective signaling
- Speakers and strobes are prefabricated to a 10" x 10" x 6" steel enclosure for indoor use
- · Mounts to ceiling or wall
- Only 1 pair of wires needed for audio connections
- Each individual STH-15SR or STH-15S horn is capable of delivering up to 102 dB at 15 watts at 10 feet
- · Omni-directional sound
- Conduit knockouts for 1/2" or 3/4" coupling

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

Approvals & compliances

- UL 1480, UL 1638, NFPA 72, NFPA 101
- · Complies with OSHA 1910.165

Drawings

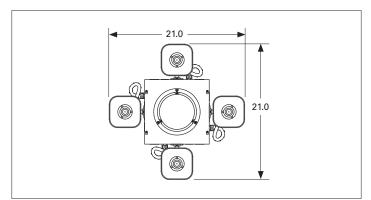


Figure 1. STH front view

STH-15SR or STH-15S horn loudspeakers

- · Supervised weatherproof horn speaker
- Up to 15 watts RMS of power handling capability
- · Superior intelligibility and sound dispersion
- Built-in 25/70 Volt transformer w/screwdriver adjustable wattage tape selector
- Frequency response: 400-14,000 Hz
- Power taps:
 - 25 Volts: .48, .94, 1.8, 7.5, and 15
 - 70 Volts: .9, 1.8, 3.8, 7.5, and 15
- · Swivel mounted for easy angle adjustment
- Complies with UL Standard 1480
- Refer to STH-15S data sheet for detailed specs

DC-MAX-C strobe

- · High intensity MAX strobe
- · Clear lens made of Lexan
- Powerful 7.5 Joules double flash light burst
- 100 candela, 60 double flashes per minute
- Voltage range: 10.5 VDC to 31.0 VDC
- Complies with UL Standard 1638
- Refer to DC-MAX-C data sheet for detailed specs

Notes: 1. Special orders of different colored lenses are available in blue, red or amber. Please contact Eaton for details.

2. The cluster speaker with MAX strobe is NOT designed to operate on a synchronized circuit.

Table 1. Specifications and ordering information[®]

Model Number	Finish	Order Code	Description
STH-4MS-R	Red	8157	Speaker/visual systems supplied with four STH-15SR horns and one DC-MAX-C Strobe mounted to a NEMA Type 1 steel enclosure
STH-3MS-R	Red	8156	Speaker/visual systems supplied with three STH-15SR horns and one DC-MAX-C Strobe mounted to a NEMA Type 1 steel enclosure
STH-2MS-R	Red	8155	Speaker/visual systems supplied with two STH-15SR horns and one DC-MAX-C Strobe mounted to a NEMA Type 1 steel enclosure
SHMP-R	Red	8154	UL Listed adapter plate, designed to mount the STH-15SR horn speaker (7938) to a Series RSSP strobe mounting plate. For surface mounting applications, the SBL2-R (6988) surface mount backbox is required.
STH-4R	Red	8186	Speaker System supplied with four STH-15SR horns mounted to a NEMA Type 1 steel enclosure
STH-3R	Red	9753	Speaker System supplied with three STH-15SR horns mounted to a NEMA Type 1 steel enclosure
STH-2R	Red	9752	Speaker System supplied with two STH-15SR horns mounted to a NEMA Type 1 steel enclosure
STH-2G	Gray	0101	Speaker System supplied with two STH-15S horns mounted to a NEMA Type 1 gray steel enclosure

 $[\]ensuremath{\mathbb{O}}$ The cluster speakers with max strobe are made-to-order products.

Notes: 3 The Wheelock cluster speakers with max strobes (STH-4MSR, STH-3MSR, & STH-2MSR) are not intended for UL required fire life safety applications. See Wheelock STH cluster speaker with MCCH strobe meets fire life safety applications.

4. Not intended for washdown areas.



Knox-Box 3200 Series

High Security Industrial/Government Key Box



The number one high-security KNOX-BOX® is used for most commercial applications including businesses, schools, government and public buildings, community associations and apartment complexes. The 3200 Series KNOX-BOX with lift-off door holds keys, access cards and other small items necessary for emergency access.

Features and Benefits

- Holds up to 10 keys or 3 access cards in interior compartment
- Ensures high security. Box and lock are UL[®] Listed
- Includes a Knox-Coat® proprietary finishing process that protects Knox products up to four times better than standard powder coat
- Resists moist conditions with a weather resistant door gasket

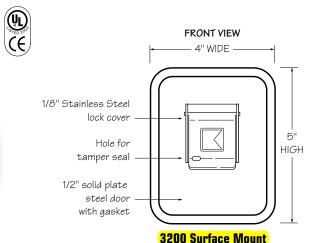
Colors: Black, Dark Bronze or Aluminum

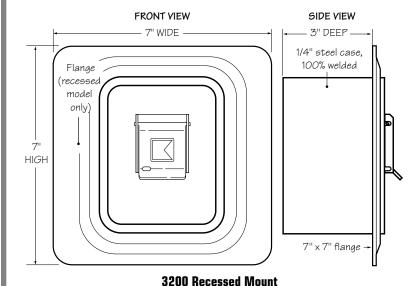
Weight: Surface mount - 8 lbs.

Recessed mount - 9 lbs.

Options

- Alarm tamper switches (UL Listed)
- Additional rust and corrosion protection (Aluminization)
- Recessed Mounting Kit (RMK) for recessed models only
- Inside switch for use on electrical doors, gates and other electrical equipment





Ordering Specifications

To insure procurement and delivery of the 3200 Series KNOX-BOX, it is suggested that the following specification paragraph be used:

KNOX-BOX surface/recessed mount with lift-off door, with/without UL Listed tamper switches. 1/4" plate steel housing, 1/2" thick steel door with interior gasket seal. Box and lock UL Listed. Lock has 1/8" thick stainless steel dust cover with tamper seal mounting capability.

Exterior Dimensions: Surface mount body - 5"H x 4"W x 3 1/4"D

Recessed mount flange- 7"H x 7"W

Lock: UL Listed. Double-action rotating tumblers and hardened steel

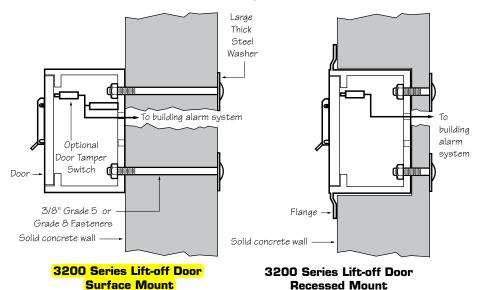
pins accessed by a biased cut key.

Finish: Knox-Coat® proprietary finishing process
Colors: Black, Dark Bronze or Aluminum
P/N: 3200 Series KNOX-BOX (mfr's cat. ID)

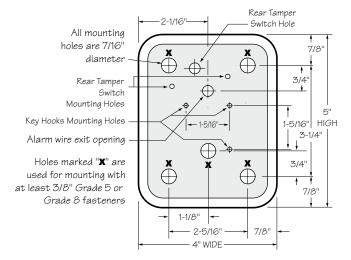
Mfr's Name: KNOX COMPANY



Suggested minimum mounting height 6 feet above ground



Inside View



Attention: KNOX-BOX® is a very strong device that MUST be mounted properly to ensure maximum security and resist physical attack.

Knox® Rapid Entry System

The Knox Company manufacturers a complete line of high security products including Knox-Box key boxes, key vaults, cabinets, key switches, padlocks, locking FDC caps, plugs and electronic master key security systems. For more information or technical assistance, please call Customer Service at 1-800-552-5669.

Recessed Mounting Kit

The 3200 Recessed Mounting Kit (RMK) is used for recessed models only. It contains a shell housing and mounting hardware to be cast-in-place in new concrete or masonry construction. After construction is completed, the KNOX-BOX mounts inside the recessed shell housing. The RMK may only be used in new concrete or masonry construction.

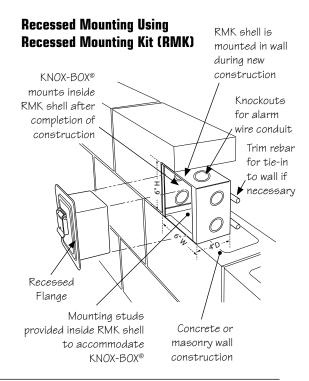
Installation In Cast Concrete

The optional Recessed Mounting Kit is for use in new concrete or masonry construction only. The kit includes a shell housing and mounting hardware to be cast-in-place. The KNOX-BOX is mounted into the shell housing after construction is completed.

Dimensions

Rough-in Dimensions: 6-1/2"H x 6-1/2"W x 5"D

IMPORTANT: Care should be taken to insure that the front of the RMK shell housing, including the cover plate and screw heads, is flush with the finish wall. The RMK must be plumbed to insure vertical alignment of the vault.





- built-in RFI filters
- · lens has hermetic o-ring seal
- solid state power supply
- 10,000 hour strobe lamp
- two year warranty on power supply
- one year warranty on lamp
- · available in six lens colors
- UL listed
- NEMA 4X

MICROSTROBE®

Low Profile - Single Flash Strobe

The MICROSTROBE® family is a low profile, single flash, low cost strobe light which features a plug-in replaceable lamp and Lexan® lens. The high efficiency, solid state, power supply is fully potted in polyurethane for the ultimate in protection from moisture, vibration and exposure tohigh voltage. All units are polarity protected and have built-in filters to protect against radio interference and spike voltages.

Lens Colors





Blue



Clear





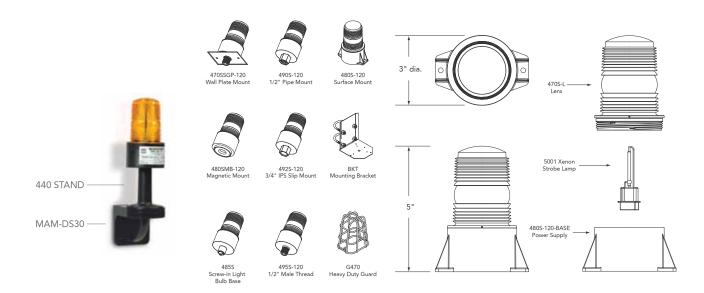


Ordering Information

Please specify lens colors and model number when ordering. Available colors are Amber, Blue, Clear, Green, Purple, and Red.

Trease specify lens colors and moder maniber when ordering. Available colors are Amber, blue, clear, order, i diple, and ked.			
Model No.	Description	Voltage/Frequency	
470SSGP-120	AC strobe, wall plate mount	120VAC, 50/60Hz	
480S-120	AC strobe, surface mount, AC cord set	120VAC, 50/60Hz	
480SMB-120	AC strobe, magnetic mount	120VAC, 50/60Hz	
485S-120	AC strobe, screw-in light bulb base	120VAC, 50/60Hz	
485S-240	AC strobe, screw-in light bulb base	240VAC, 50/60Hz	
490S-120	AC strobe, 1/2" female pipe mount	120VAC, 50/60Hz	
490S-240	AC strobe, 1/2" female pipe mount	240VAC, 50/60Hz	
492S-120	AC strobe, 3/4" IPS slip mount	120VAC, 50/60Hz	
495S-120	AC strobe, 1/2" male thread mount	120VAC, 50/60Hz	
495S-240	AC strobe, 1/2" male thread mount	240VAC, 50/60Hz	

MICROSTROBE



Specifications

opecifications		
Item	Description	
Flash Rate	60 to 80 flashes per minute	
Light Output	50 effective candlepower	
Voltage and Amperage	120VAC and 240VAC draw 0.07A average	
Power Supply Output 2.7 Watts	1.9 joules per flash	
Size and Weight	5" tall x 3" dia. x 0.5 lbs (127mm x 76mm x 0.23kg)	
Operating Temperature	-40 C to 65 C	
Encapsulation	Fully potted in urethane material with no exposure to High Voltage possible	

Available Options

NOTE: All "/" options are factory installed only.

Model No.	Description
G470	Heavy duty guard
LBO-MINI	Lens blackout segment 180°
MICROSHIELD	Vinyl, 180° lens blackout
/TRIAC-SW	Solid state relay option

Mounting Options

<u> </u>			
Item	Description		
BKT	Mounting bracket		
440 STAND	Plastic Stand (Thread mount MicroLert models only)		
MAM-DS30	Wall mount bracket		

Replacement Parts

Model No.	Description
5001	Xenon strobe lamp
470S-L	Colored lens (please specify color)
480S-120-PSA	120VAC power supply, surface mount
480SMB-120-PSA	120VAC power supply, magnetic mount
485S-120-PSA	120VAC power supply, screw-in light bulb base
485S-240-PSA	240VAC power supply, screw-in light bulb base
490S-120-PSA	120VAC power supply, 1/2" female pipe mount
490S-240-PSA	240VAC power supply, 1/2" female pipe mount
492S-120-PSA	120VAC power supply, 3/4" IPS slip mount
495S-120-PSA	120VAC power supply, 1/2" male thread mount
495S-240-PSA	240VAC power supply, 1/2" male thread mount

Architect and Engineer Specifications

The strobe light shall be Tomar model number series 470, 480, 485, 490,492, 495 or approved equal. The light source shall be a plug-in field replaceable single-flash xenon strobe tube. The strobe light must have built-in RFI filters to protect against radio interference and spike voltages. It shall be polarity protected, and have a power supply fully potted in polyurethane. Voltage ranges shall be 12-80VDC or 16-24VAC, 120 VAC, and 240VAC. The strobe light shall be UL listed and of NEMA 4X type weatherproof design with screw-on Lexan® lens.



SSM/SSV Series Alarm Bells

System Sensor's SSM and SSV series alarm bells are low current, high decibel notification appliances for use in fire and burglary systems or other signaling applications.



Features

- Approved for indoor and outdoor use
- · Low current draw
- · High dB output
- Available in six-inch, eight-inch, and ten-inch sizes
- AC and DC models
- DC models polarized for use with supervision circuitry
- Mount directly to standard four-inch square electrical box indoors
- SSM and SSV series come pre-wired

Reliable Performance. The SSM and SSV series provide loud resonant tones. The SSM series operates on 24VDC and are motor driven, while the SSV series operates on 120VAC utilizing a vibrating mechanism.

Simplified Installation. For indoor use, the SSM and SSV series mount to a standard four-inch square electrical box. For outdoor applications, weatherproof back box, model number WBB, is used.

The SSM and SSV series come pre-wired, to reduce installation time. The SSM series incorporates a polarized electrical design for use with supervision circuitry.

Agency Listings











SSM/SSV Specifications

Architectural/Engineering Specifications

Model shall be a SSM or SSV Series alarm bell. Bells shall have underdome strikers and operating mechanisms. Gongs on said bells shall be no smaller than nominal 6"/8"/10" (specify size) with an operating voltage of 24VDC or 120VAC (specify by part number). Bells shall be suitable for surface or semi-flush mounting. Outdoor surface mounted installations shall be weatherproof (using optional WBB weatherproof electrical box). Otherwise bells shall mount to a standard 4" square electrical box having a maximum projection of 2½". Bells shall be located as shown on the drawings or as determined by the Authority Having Jurisdiction. Bells shall be listed for indoor/outdoor use by Underwriters Laboratories and the California State Fire Marshal, and approved by Factory Mutual and MEA.

Mutual and ME	A.					
Physical/Oper	rating Specifications					
Operating Temperature Range		−31°F to 140°F				
Operating Voltage		SSM series: 24 VDC				
		SSV series: 120 VAC				
Termination		Provided with 2 sets of leads for in/out wiring				
Service Use		Fire Alarm, General Sig	gnaling, Burglar Alarm			
Warranty		3 years				
Electrical Spe	cifications					
Model	Gong Diameter	Nominal Voltage	Operating Voltage	Maximum Current	Sound Output (dBA)	
	(inches)		Limit			
SSM24-6	(inches)	Regulated 24VDC	Limit 16 to 33VDC	DC-31.1mA/ FWR-53.5mA	82	
SSM24-6 SSM24-8	<u>`</u>	Regulated 24VDC Regulated 24VDC		DC-31.1mA/ FWR-53.5mA DC-31.1mA/ FWR-53.5mA	82 80	
	6		16 to 33VDC		-	
SSM24-8	<mark>6</mark> 8	Regulated 24VDC	16 to 33VDC 16 to 33VDC	DC-31.1mA/ FWR-53.5mA	80	
SSM24-8 SSM24-10	6 8 10	Regulated 24VDC Regulated 24VDC	16 to 33VDC 16 to 33VDC 16 to 33VDC	DC-31.1mA/ FWR-53.5mA DC-31.1mA/ FWR-53.5mA	80 81	

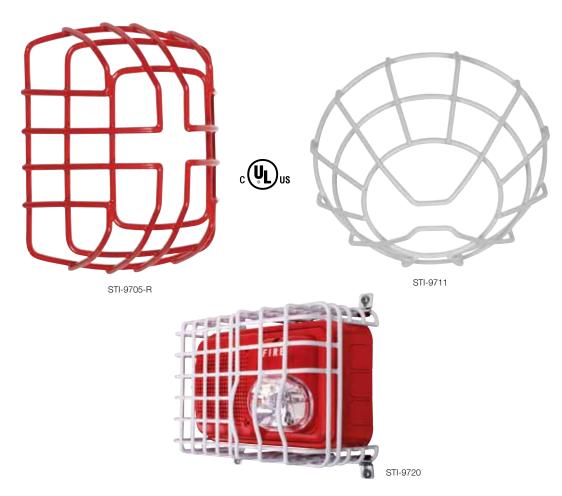
^{*} Sound output measured at Underwriter Laboratories, as specified in UL464

Ordering Information

UL/FM Model No.	ULC/Canadian Model No.	Description
SSM24-6	SSM24-6A	Bell, 6", 24VDC, Polarized, 82dBA
SSM24-8	SSM24-8A	Bell, 8", 24VDC, Polarized, 80dBA
SSM24-10	SSM24-10A	Bell, 10", 24VDC, Polarized, 81dBA
SSV120-6	SSV120-6A	Bell, 6", 120VAC, 85dBA
SSV120-8	SSV120-8A	Bell, 8", 120VAC, 82dBA
SSV120-10	SSV120-10A	Bell, 10", 120VAC, 82dBA
WBB		Weatherproof back box for SSM and SSV series, when installed outdoors



Horn/Strobe/Speaker Damage Stoppers®



PRODUCT OVERVIEW

Here are excellent ways to protect strobe units against both vandalism and accidental damage. Constructed of tough, 9-gauge steel wire coated with corrosion resistant red or white polyester, these guards can take hard knocks in stride. STI-9705, STI-9708, STI-9711 and STI-9714 wire guards provide maximum protection for System Sensor SpectrAlert® Advance series strobe notification appliances.

BACKED BY A THREE YEAR GUARANTEE

As all STI protective covers, these guards are backed by a three year guarantee against breakage in normal use. Installation and servicing is easy with all screws and anchors provided. This Stopper is highly recommended for areas where abuse is severe or it is imperative that strobe units continue to operate. STI-9717 and STI-9720 fit over System Sensor notification appliances SP2R1224MC and SP2W1224MC.

FEATURES

- Offers protection against vandalism and accidental damage.
- · Constructed of tough 9-gauge steel wire.
- Installation is fast and simple with screws and anchors provided.
- · Simple removal for maintenance.
- · Coated with corrosion resistant polyester.
- · STI-9705, STI-9708, STI-9711 and STI-9714 protect SpectrAlert® strobe units.
- · STI-9717 and STI-9720 fit over System Sensor notification appliances SP2R1224MC and SP2W1224MC.
- Three year guarantee against breakage in normal use.



Horn/Strobe/Speaker Damage Stoppers®

Dimensions and Technical Information

MODELS AVAILABLE

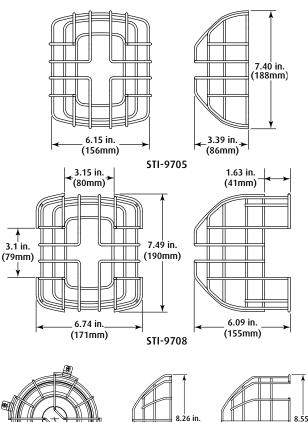
STI-9705 Damage Stopper, Flush Mount - White STI-9705-R Damage Stopper, Flush Mount - Red STI-9708 Damage Stopper, Surface Mount - White STI-9708-R Damage Stopper, Surface Mount - Red STI-9711 Damage Stopper, Flush Mount - White STI-9714 Damage Stopper, Surface Mount - White Speaker/Strobe Damage Stopper - Flush Mount STI-9717

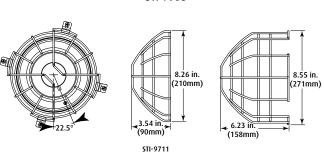
(not UL Listed)

STI-9720 Speaker/Strobe Damage Stopper - Surface Mount

(not UL Listed)

MODEL	HEIGHT	WIDTH	DEPTH
STI-9705			
STI-9705-R	7.40 in. (188mm)	6.15 in. (156mm)	3.39 in. (84mm)
STI-9708			
STI-9708-R	7.49 in. (190mm)	6.74 in. (171mm)	6.09 in. (155mm)
STI-9711	8.26 in. (210mm)	8.26 in. (210mm)	3.54 in. (90mm)
STI-9714	8.55 in. (271mm)	8.55 in. (271mm)	6.23 in. (158mm)
STI-9717	6.1 in. (155mm)	9.3 in. (238mm)	2.4 in. (61mm)
STI-9720	6.1 in. (155mm)	9.3 in. (238mm)	4.9 in. (125mm)





APPROVALS & WARRANTY

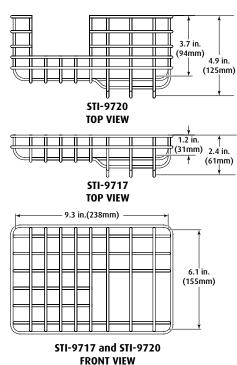
TESTING

STI-9705, STI-9708, STI-9711 and STI-9714 have been tested and approved or listed by:

· Underwriter Laboratories and Canadian UL File S7025

Three year guarantee against breakage in normal use.

Light De-Rating Factor STI-9705 and STI-9708	Light Los:
System Sensor (SR,SW, SW-ALERT, SW-CLR-ALERT, SRK, SWK, P2R, P2W, P4R, P4W, CHSR, CHSW, P2RK, P2WK, P4RK, P4WK, SPSR, SPSR-SP, SPSR-PG, SPSW, SPSW-CLR-ALERT, SPSW-SP, SPSW-PG, SPSRV, SPSRV-SP, SPSRV-PG, SPSWV, SPSWV-SP and SPSWV-PG, SPSWK, SPSRK, SPSW-ALERT)	13%
System Sensor (SRH, SWH, SRHK, SWH-ALERT, SWHK, P2RH, P2WH, P4RH, P2RHK, P2WHK, P2RHK-120, SPSRH, SPSRH-SP, SPSRH-PG, SPSWH, SPSWH-SP and SPSWH-PG, SPSRHK)	0%
STI-9711 and STI-9714 System Sensor (SCR, SCW, SCRK, SCWK, SCW-CLR-ALERT, PC2R, PC2W, PC4R, PC4W, PC2RK, PC2WK, PC4WK, SPSCWV, SPSCR, SPSCR-SP, SPSCR-PG, SPSCW, SPSCW-SP, SPSCW-PG, SPSCWV, SPSCWV-SP and SPSCWV-PG, SPSCWK, SPSCWK, SPSCWV-CLR-ALERT)	0%
System Sensor (SCRH, SCWH, SCRHK, SCWHK, PC2RH, PC2WH, PC4RH, PC2RHK, PC2WHK, PC4WHK, SPSCWHV, SPSCRH, SPSCRH-SP, SPSCRH-PG, SPSCWH, SPSCWH-SP, SPSCWH-PG, SPSCWH-SP, SPSCWHV-PG, SPSCWHV-SP, SPSCWHV-	0%





Light Loss



2306 Airport Road 48327, USA

Tel: 248-673-9898 Fax: 248-673-1246 Toll-free: 800-888-4784 info@sti-usa.com www.sti-usa.com

Unit 49G Pipers Road Park Farm Industrial Estate Redditch, Worcestershire B98 OHU England

Tel: 44 (0) 1527 520 999 Fax: 44 (0) 1527 501 999 Free: 0800 085 1678 (UK) www.sti-europe.com

STI Stopper II and Weather Stopper II

Covers for Manual Pull Stations



Miscellaneous

General

The Safety Technology International Stopper II cover for manual pull stations helps deter unwanted activation and is also an effective guard against physical damage. It has been proven by use in thousands of installations throughout the world, including schools, hospitals, hotels and stores. The Stopper II has also been tested and approved by fire prevention and testing authorities.

Features

- Window made of clear and durable plastic.
- · Optional warning horn powered by 9 VDC battery.
- Provides weatherproofing for outdoor pull stations when equipped with optional gasket (Weather Stopper II).
- Fits pull stations from 5-1/2" to 6-3/4".
- Unconditional lifetime guarantee against cover breakage and damage.

Applications

The Stopper II can be used in almost any pull station environment.

Spacer Installation

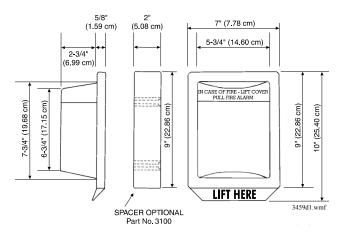
(SURFACE MOUNT MODELS ONLY)

The spacer is used for surface-mounted or oversized manual stations. Longer screws are provided for use with tap-in anchors. Remove knock-out at top or bottom of spacer as necessary.

Gasket Installation

(WEATHER STOPPER II MODELS ONLY)

Installing neoprene gaskets behind the spacer and/or Stopper II frame will provide additional weatherproofing. A conduit gasket may be used to seal the top or bottom of the spacer.





Size Of Pull Station Accomodated

The Stopper II and Weather Stopper II can be installed over a flush-mounted station up to 5-1/2" wide and 6-3/4" high. However, the pull station's maximum dimensions will decrease as its depth (distance from the wall) increases, i.e.: a 3/4" deep pull station may be 5-1/2" wide x 6" high; a 1-5/8" deep pull station may be 5" wide x 6" high; a 2-3/8" deep pull station may be 4" wide x 5-3/4" high; a 2-3/4" deep pull station may be 3" wide x 5-1/2" high. See sections "Spacer Installation" and "Gasket Installation".

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

UL Listed: S2466ULC Listed: S2466

ADA Compliant

• STI1100 & STI1130: Factory Mutual Approved

STI1100 & STI1130: BSA: 947-81-SA

 STI1100, STI1130, STI1250, STI3150: CSFM AHJ Approval Required

STI1200, STI1230, STI1250: MEA 49-00F

 STI1250, STI3150: NEMS-3R When mounted on a smooth surface or when mounted with STI1280 Back Plate

Product Line Information

STI1100 Stopper II, flush mount, with horn.STI1130 Stopper II, surface mount, with horn.

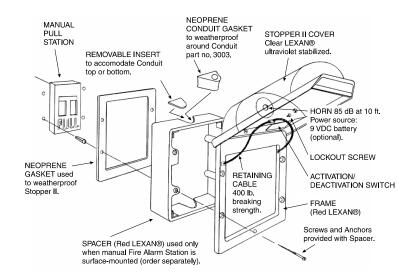
STI1200 Stopper II, flush mount, without horn.

STI1230

Stopper II, surface mount, without horn.

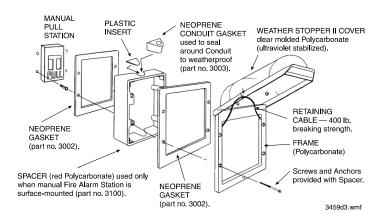
STI1250 Weather Stopper II, flush mount.

STI3150 Weather Stopper II, surface mount.



Weather Stopper II (at left)

Stopper II (at right)



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