



NOTIFIER SS24ADAS Synchronized Strobe Instruction Manual

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**SS24ADAS Synchronized Strobe,
MASS24ADAS Synchronized
Horn/Strobe, with Sync Circuit
Section: Audio/Visual Appliances
Instruction Manual**





California
State Fire
Marshal
7125-1209:154

MEA
67-95-E

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GENERAL

The System Sensor SS24ADAS Series Synchronized Strobes are crystal-controlled to flash at precisely one flash per second. When power is applied to an indicating circuit controlled by one controller, all SS24ADAS or MASS24ADAS series devices in that zone will flash simultaneously. No synchronizing modules or coded supplies are necessary. The strobes can be used in any combination with other System Sensor ADA strobes, ADA horn/strobes, and ADA speaker/strobes. The unique lens/reflector design maintains the UL 1971 light dispersement pattern while flashing at the ADA minimum 1 flash per second. Available in red at 24 VDC, the SS24ADAS strobes can be surface-mounted directly to a standard 4" (101.6 mm) backbox or can be mounted to our semiflush plate for recessed electrical boxes. They are also available in combination with System Sensors Multivalent MA-12/24D horn for both visible and audible signaling.

FEATURES

- Works on two-wire circuit.
- No synchronization module required.
- Synchronized and unsynchronized strobes can be combined on the same zone in any combination.
- Patent pending Sync Circuit.
- 24 VDC versions only (for synchronization).
- 15 and 15/75 candela versions available.
- Available with Multi-Alert Sounder (MA-12/24D).
- Constant current draw over voltage range.
- Stand-alone strobe mounts to single-gang box with -SF plate.
- ADA compliant, UL 1971 listed.
- Installer easy plug-in terminal strip on stand-alone strobe.
- Strobe flashes are synchronized within individual zones to reduce the risk of seizure for people with

photosensitive epilepsy.

APPLICATIONS

All Series SS24ADAS strobes are suitable for primary signaling in public mode life safety applications. The strobes can be connected to the alarm indicating circuit of a UL listed fire alarm control panel. They are compatible with DC line supervision. Panels may have full-wave rectified, unfiltered power supplies. The strobes are available for 24 VDC operation and can be used with the System Sensor Multi-Alert horn. Stand-alone strobe versions incorporate these installer easy features: plug-in terminal strip, wiring guide, and strip gauge (on back). Semiflush mounting is available with the addition of an MP-SF accessory plate. When installed in a zone, the SS24ADAS and MASS24ADAS Series devices flash simultaneously.

APPLICATIONS NOTE: SS24ADAS and MASS24ADAS Series devices operating in the same zone will not be synchronized if energized at different times (i.e., if more than one controller is controlling the same zone).

SPECIFICATIONS

Input terminals: 12 AWG (3.25 mm²) to 18 AWG (0.75 mm²).

Shipping weight: SS or SS-ADA Series Strobes: 5 oz. (141.747 g). MASS Series Horn/Strobes: 10.4 oz. (294.835 g).

Operating temperature range: 32°F to 120°F (0°C to 49°C).

Mounting: Surface: 4" (101.6 mm) x 4" (101.6 mm) x 1-1/2" (38.1 mm) standard backbox (2-1/8" [53.975 mm] deep recommended). Semiflush: 4" (101.6 mm) x 4" (101.6 mm) x 1-1/2" (38.1 mm) standard backbox (2-1/8" [53.975 mm] deep recommended) with MP-SF semiflush-mounting plate (order separately).

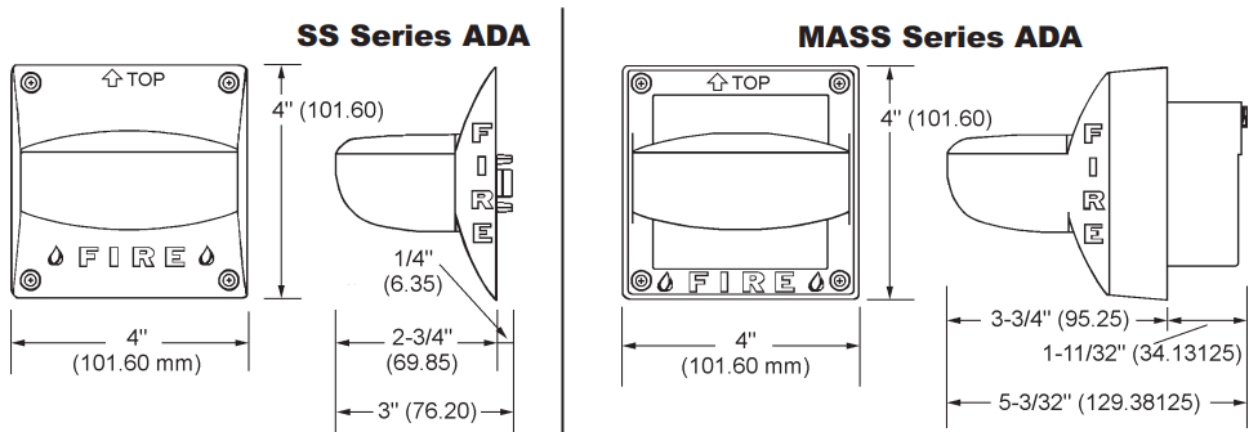
Dimensions: see illustrations on next page.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118

ISO-9001

Engineering and Manufacturing
Quality System Certified to
International Standard ISO-9001

DIMENSIONS

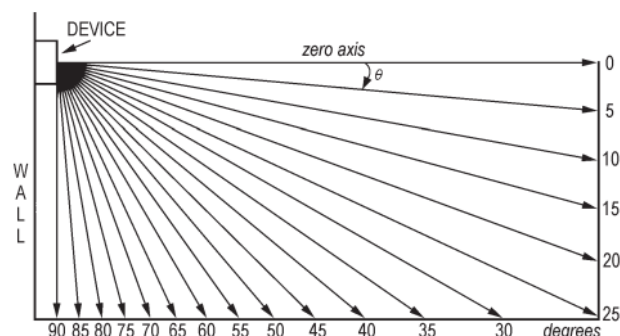


ELECTRICAL RATINGS: STROBE ONLY

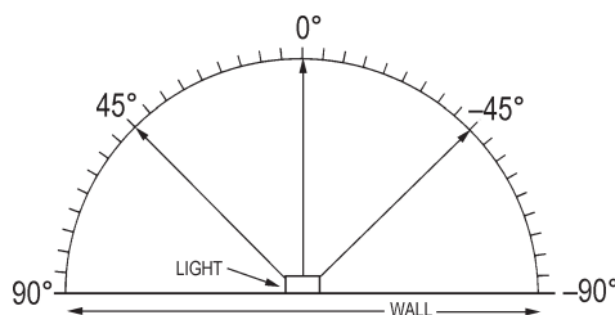
Model	Supply Voltage Range	Average Operating Current from Regulated Supply (mA)	Peak Operating Current (mA)	Operating Current from Full-Wave Rectified, Unfiltered Supply (mA _{Rms})*
SS2415ADAS	20 – 30 VDC	135	250	150
SS241575ADAS	20 – 30 VDC	220	395	240

*For additional information, see installation instructions, document #D900-06-00.

STANDARD LIGHT DISTRIBUTION



VERTICAL DISPERSION							
Degree	% of Rating	Degree	% of Rating	Degree	% of Rating	Degree	% of Rating
0°	100%	45°	34%	65°	16%	85°	12%
5° - 30°	90%	50°	27%	70°	15%	90°	12%
35°	65%	55°	22%	75°	13%		
40°	46%	60°	18%	80°	12%		



HORIZONTAL DISPERSION							
Degree	% of Rating	Degree	% of Rating	Degree	% of Rating	Degree	% of Rating
0°	100%	50°	55%	65°	35%	80°	30%
5° - 25°	90%	55°	45%	70°	35%	85°	25%
30° - 45°	75%	60°	40%	75°	30%	90°	25%

A polar light distribution in both horizontal and vertical directions is mandated for the strobes by the Standard UL 1971 for the Hearing Impaired, with specific minimum intensity percentages as shown in the graphs above.

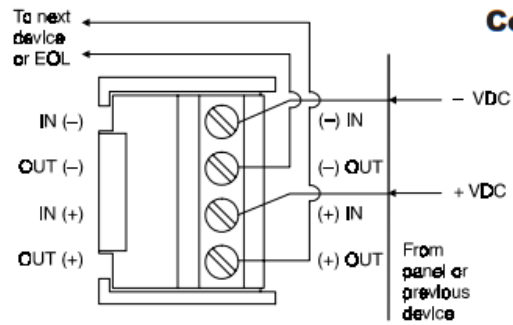
ENGINEERING SPECIFICATIONS

Strobe shall be a System Sensor Model _____ listed to Standard UL 1971 for the Hearing Impaired and shall be approved for Fire Protective Service. Strobe shall be wired as a Primary Signaling Notification appliance. Strobe shall also comply with the Americans with Disabilities Act requirements for visible signaling appliances. Strobe shall operate at 24 VDC from a regulated DC supply or full-wave rectified, unfiltered supply. The signaling strobe shall be powered from a non-coded power supply when powered with the horn or powered independently. Visual signaling devices are to be installed in all non-sleeping/corridor and sleeping areas (110 cd only) per plans and specifications. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. Each strobe shall be designed for one flash per second over all operating conditions. All strobes shall be capable of mounting to a standard 4" (101.6 mm) x 4" x 1-1/2" (38.1 mm) backbox, in either a surface mount or semiflush mount with separate mounting plate. Strobe shall flash synchronously with other SS24ADAS and MASS24ADAS Series devices in the same zone for a minimum of 15 minutes.

NOTE: SS24ADAS and MASS24ADAS Series devices operating in the same zone will not be synchronized if energized at different times (i.e., if more than one controller is controlling the same zone).

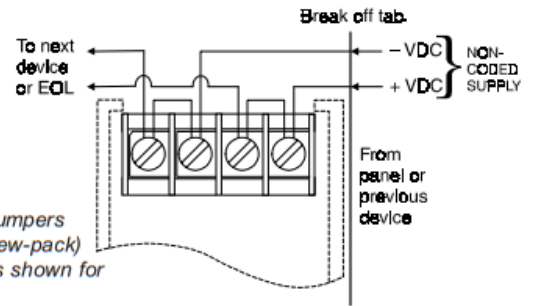
WIRING

WIRING



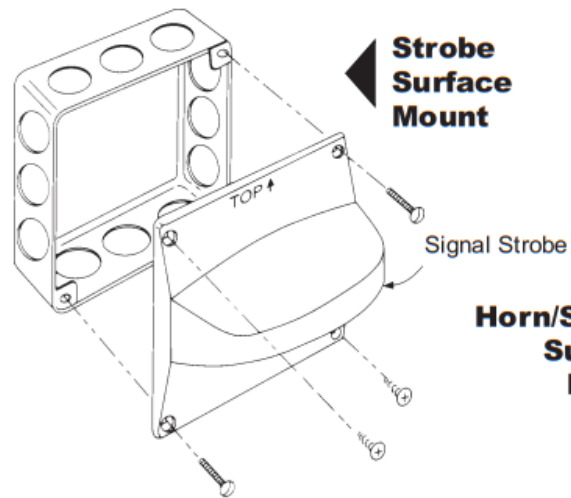
Horn/Strobe Combination

NOTE FOR HORN/STROBE COMBINATION: Jumpers (included in the screw-pack) must be installed as shown for tandem operation.



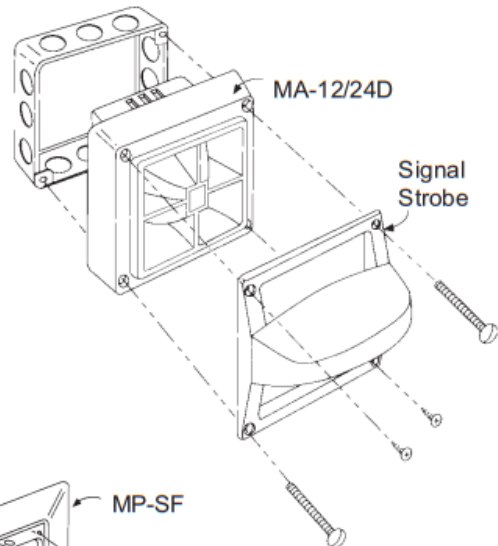
Strobe Only

MOUNTING

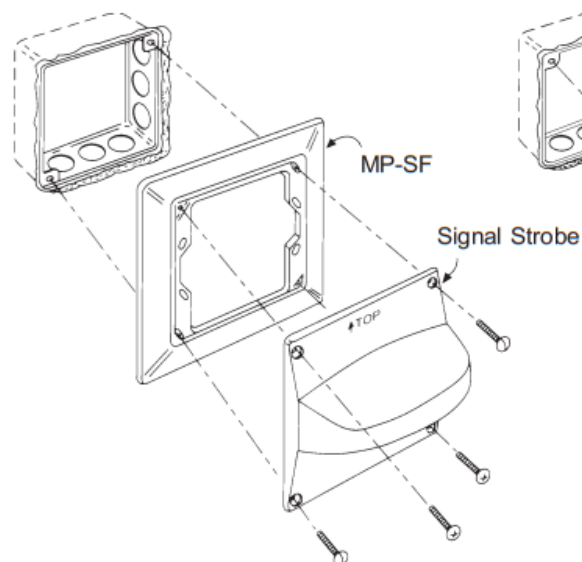


Strobe Surface Mount

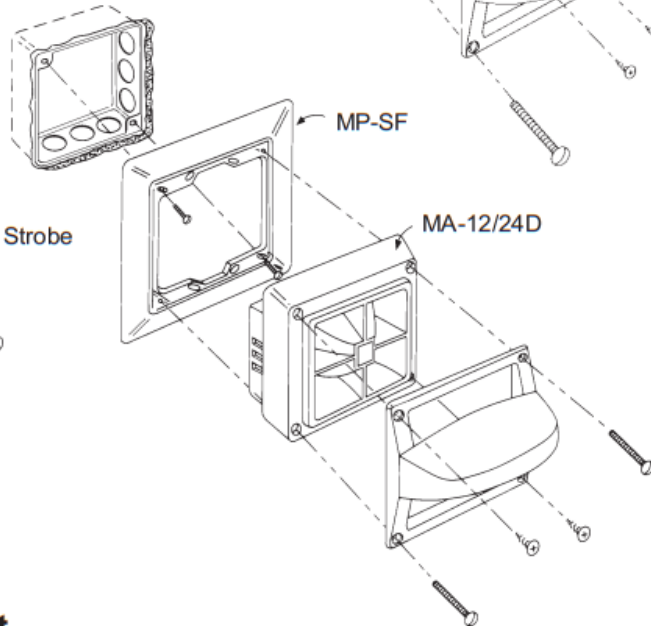
Horn/Strobe Surface Mount



Horn/Strobe Independent



Strobe Semiflush Mount



Horn/Strobe Semiflush Mount

SOUND OUTPUT SELECTION GUIDE

Multi-Alert Sounder MA-12/24D AVAILABLE SOUNDS	CLIPS ON TABS'	CURRENT (mA) ³			SOUND OUTPUT (dBA)					
		DC Regulated/FWR Unfiltered			Average ^o		Peak ^o		Rev. Room ⁵	
		12 V	24 V	30V	12 V	24V	12 V	24V	12V	24V
Slow Whoop	ABC	21/40	38/56	46/72	85	92	93	100	79	85
800 Hz Continuous (FACTORY SETTING)	BC	15/24	28/45	35/55	87	93	94	99	79	85
800-1000 Hz Alternating	AC	17/32	34/46	43/58	85	92	91	98	79	85
2400 Interrupted	AB	19/23	35/56	43/64	89	90	96	98	79	85
2400 Continuous	C	21/31	38/59	46/73	85	94	93	104	79	85
1200 Interrupted ²	B	13/19	23/33	27/41	85	91	95	101	75	82
Swept Frequency	A	17/24	34/47	43/60	85	92	96	101	79	85
Fast Warble	NONE	15/27	30/47	38/59	85	92	93	100	79	85

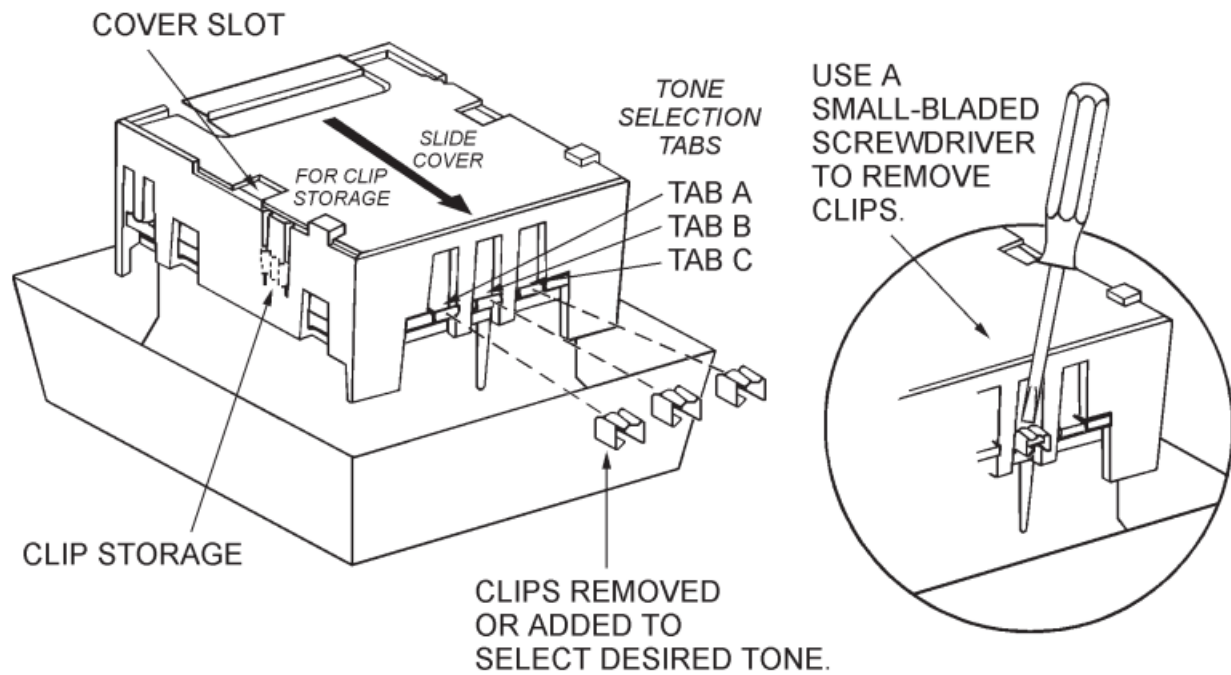
NOTES:

1. See tone selection diagram below for tab clip removal and storage.
2. This selection was previously identified as Bell/Chime. This tone may be used for private or public mode in the fire alarm service when used with a 24-volt panel.
3. All models can be powered using full-wave rectified unfiltered supplies. Under no circumstances can SS24ADAS or MASS24ADAS series devices input voltage exceed 33 VDC or be less than 16 VDC (18 to 33 VRMS for full-wave rectified, unfiltered supplies).
4. Measured at 10 feet (3.048 m) in an anechoic chamber. For average outputs, the acoustical output shall meet the current requirements of UL Standard 464.
5. Measured in a UL reverberant room.

MA SOUNDER TONE SELECTION

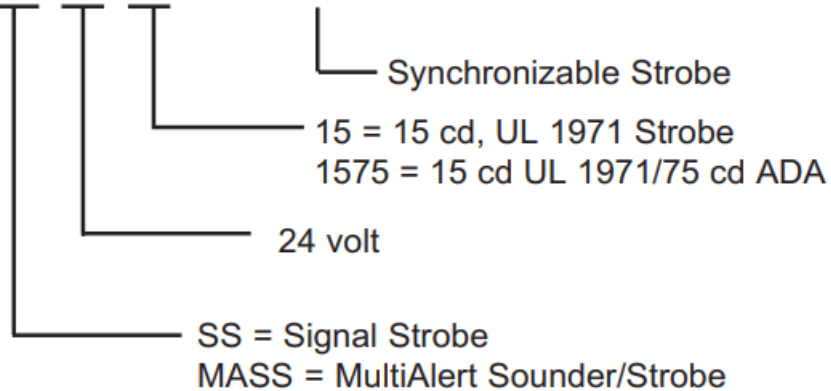
FOR STORING UNUSED CLIPS:

SLIDE COVER BACK TO ALIGN COVER SLOT WITH CLIP STORAGE POST



HOW TO ORDER

SS2415ADAS




ORDERING INFORMATION

MODELS ADA Compliant, UL 1971 Listed	Product	Operating Voltage	Strobe Current (avg. mA)	Candela
SIGNALING STROBES				
SS2415ADAS	Signaling Strobe with Sync•Circuit	24 VDC	135	15
SS241575ADAS**	Signaling Strobe with Sync•Circuit	24 VDC	220	15/75
MULTI-ALERT SOUNDER WITH SIGNALING STROBE				
MASS2415ADAS	Sounder with Signaling Strobe with Sync•Circuit	24 VDC		15
MASS241575ADAS* *	Sounder with Signaling Strobe with Sync•Circuit	24 VDC		15/75
<p>* Total current = strobe current + sounder current.</p> <p>** UL 1971 listed to 15 candela. Recommended for areas 20' x 20' (6.096 x 6.096 m) or smaller.</p>				

firealarmresources.com

Documents / Resources

	<p>NOTIFIER SS24ADAS Synchronized Strobe [pdf] Instruction Manual SS24ADAS Synchronized Strobe, SS24ADAS, Synchronized Strobe, SS24ADAS Strobe, Strobe</p>
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References

- [Fire Alarm Resources | Download fire alarm documents](#)