



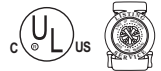
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CSH24C

Colored Light Strobe Series

Select-A-Strobe/Horn®



Description

AMSECO's UL listed Colored Light Strobe CSH24C, **Select-A-Strobe/Horn®** series is designed to provide audible and visual signals for Fire Alarm Protection Systems and notification signals for the purpose of life safety and property protection. They meet or exceed NFPA/ANSI standards and UL 464/UL1638.

CSH24C combines a selectable 2 tone horn with a Colored Light **Select-A-Strobe**. The horn provides continuous tone or temporal pattern code 3 tone when constant voltage from a Fire Alarm Control Panel is applied. Each tone has two dBA levels (high and low) selected by a jumper. The colored light strobe candela can be selected either low, medium or high by a switch located on the front housing.

The CSH24C audible/visual signals can be connected either independently or in unison. The horns can be silenced while the strobes remain flashing. The colored light is available in Amber, Blue, Green and Red. The light output candela ratings vary depending on the lens color.

In those instances where two or more AMSECO horns and/or strobes are connected and requires a synchronized code 3 temporal pattern and/or a synchronized strobe flash, all **Select-A-Strobe/Horn®** models can be synchronized when used in conjunction with AMSECO UL listed Sync module SMD10-3A to meet the latest code.

Features

- Available colored lights: amber, blue, green, red
- Selectable Candela Output: Low, Medium, High
- NFPA/ANSI compliant
- UL listed for Ceiling/Wall Mounting under UL 1638
- Designed for use in non-sleeping areas
- Screw terminal capacity up to 12 AWG
- Polarized strobes with wide operating voltage range using filtered DC or unfiltered FWR input voltage
- Field selectable horn setting: 3000 Hz interrupted/Electro-Mechanical; Temporal/Non-temporal; High/Low dBA output
- Minimum one flash per second (1Hz)
- All models mount to 4" X 4" X 1-1/2" back box or Single Gang Box
- Synchronization requires an AMSECO SMD10-3A Sync Module
- RBX-1 back box skirt for surface mount (optional)
- The SPC-1 retrofit plate allows mounting to a variety of back boxes
- Available in red or white housing

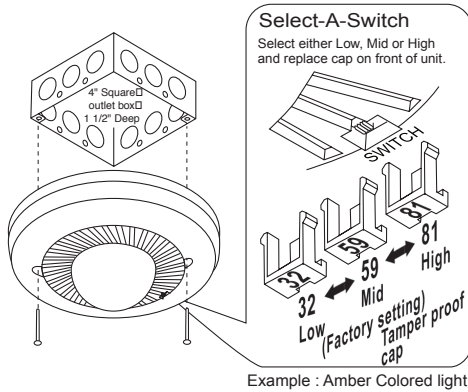
Ordering Information

Model Number	Colored Light	Housing Color	Input Voltage	Strobe Candela	Mounting Type	Light Output	Flash Rate (Times/min)	Sync Module	Temperature Operating Range
CSH24C-AW	Amber	White	Regulated 24V DC/FWR	30 / 54 / 76	Wall or Ceiling Mount	Low Mid or High	60	SMD10-3A	32°F ~ 120°F (0°C ~ 49°C)
CSH24C-BW	Blue			16 / 29 / 41					
CSH24C-GW	Green			32 / 57 / 80					
CSH24C-RW	Red			14 / 25 / 35					
CSH24C-WW	White	Red		30 / 54 / 76					
CSH24C-AR	Amber			30 / 54 / 76					
CSH24C-BR	Blue			16 / 29 / 41					
CSH24C-GR	Green			32 / 57 / 80					
CSH24C-RR	Red			14 / 25 / 35					
CSH24C-WR	White			30 / 54 / 76					

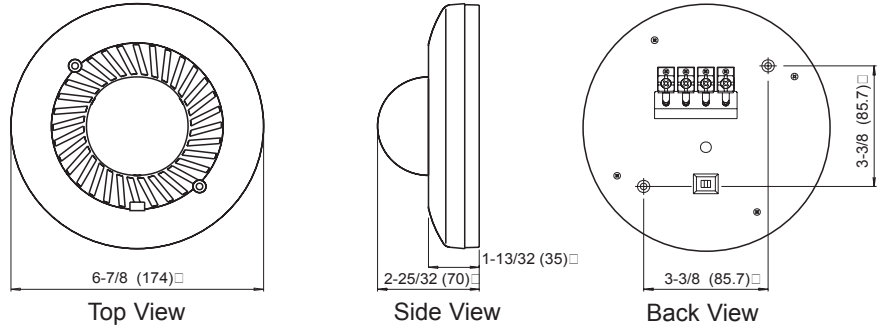
Engineering Specifications

The audible and colored visual alarm indicating appliance shall be AMSECO model CSH24C or equivalent device. The Horn/Strobe shall be listed under UL 1971 and UL 1638 Standard for signaling devices and shall be approved for fire protective and emergency services. The reflective mirror shall be of the same color as the lens of amber, blue, green, or red. The candela output shall be field selectable, having three settings of High, Medium or Low light intensity output. The Horn shall provide two different field selectable tones and a High and Low field sound output setting. The signaling Horn/Strobe shall operate on 24VDC from a non-coded regulated DC supply or full-wave rectified, unfiltered supply. The signaling strobe shall be designed to produce a signal flash of one flash per second with continuously applied minimum voltage. The Horn/Strobe shall be capable of CEILING and WALL mounting to a variety of back boxes using the AMSECO SPC-1 retrofit back plate. When strobe synchronization is required, the Horn/Strobe shall be compatible with the AMSECO SMD10-3A (daisy chain) or other source of AMSECO sync protocol.

Strobe Selectable Candela Output

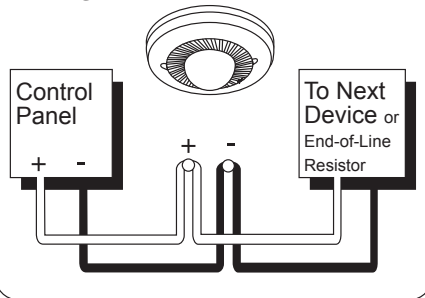


Dimensions: Inches (mm)



Wiring Diagrams

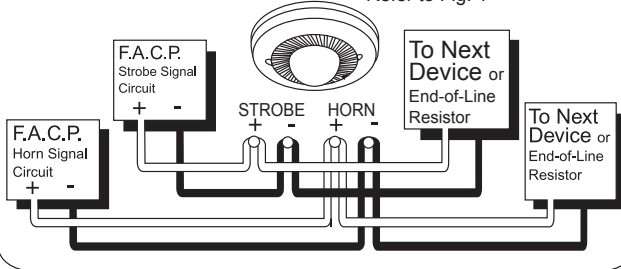
WIRING 1



WIRING 2

Signal Operates Independently

Refer to Fig. 1



WIRING 3

Wiring Diagram for Audble Strobe Class "B" Circuit with Audible Silence Feature. (CSH24W)

Refer to Fig. 2

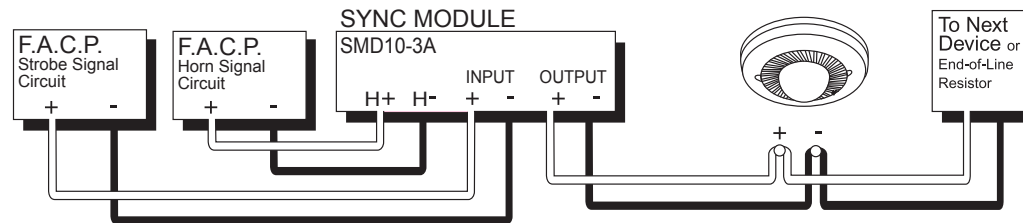
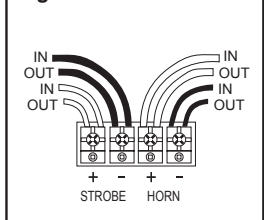


Fig.1

Horn/Strobe



WIRING 4

Wiring Diagram for Audble Strobe Class "B" Circuit without Audible Silence Feature.

Refer to Fig. 2

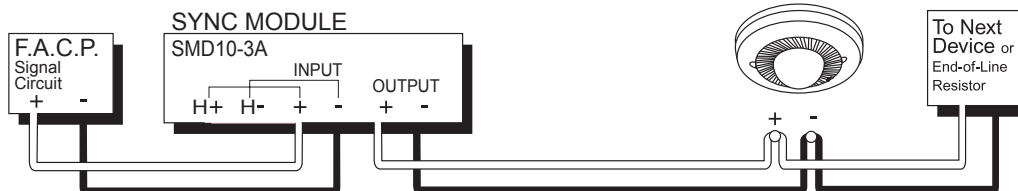
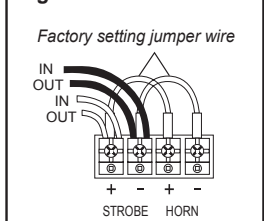


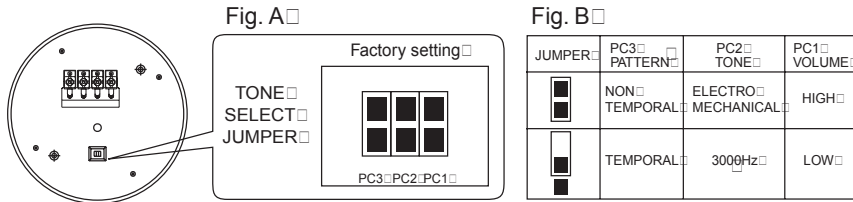
Fig.2

Horn/Strobe



WARNING The Strobe/Horn must be used only on circuits with continuously operating voltage. **DO NOT** use strobe on coded or interrupted circuits in which the applied voltage is interrupted ON and OFF as the strobe may fail to flash. The applied voltage must be within its rated input voltage range. Fuse ratings on signaling circuits must handle peak currents from all devices connected to those circuits.

Horn Selectable Jumper Setting



Specifications

Strobe/Horn Current Draw Table			PC3: Pattern PC2: Tone PC1: Volume			Max. RMS Operating Current (mArms)		Min. Sound Output (dBA @ 10ft per UL464)	
			PC3	PC2	PC1	Regulated 24V DC	Regulated 24V FWR	Regulated 24V DC	
Horn & Strobe (Low)	Non-Temp.	Electro Mechanical	HIGH	1	1	1	160	203	86
			LOW	1	1	0	138	189	76
		3000 Hz	HIGH	1	0	1	160	203	87
			LOW	1	0	0	138	189	77
	Temporal	Electro Mechanical	HIGH	0	1	1	160	203	80
			LOW	0	1	0	138	189	73
		3000 Hz	HIGH	0	0	1	160	203	82
			LOW	0	0	0	138	189	74
Horn & Strobe (Mid)	Non-Temp.	Electro Mechanical	HIGH	1	1	1	218	276	86
			LOW	1	1	0	201	262	76
		3000 Hz	HIGH	1	0	1	218	276	87
			LOW	1	0	0	201	262	77
	Temporal	Electro Mechanical	HIGH	0	1	1	218	276	80
			LOW	0	1	0	201	262	73
		3000 Hz	HIGH	0	0	1	218	276	82
			LOW	0	0	0	201	262	74
Horn & Strobe (High)	Non-Temp.	Electro Mechanical	HIGH	1	1	1	273	348	86
			LOW	1	1	0	256	334	76
		3000 Hz	HIGH	1	0	1	273	348	87
			LOW	1	0	0	256	334	77
	Temporal	Electro Mechanical	HIGH	0	1	1	273	348	80
			LOW	0	1	0	256	334	73
		3000 Hz	HIGH	0	0	1	273	348	82
			LOW	0	0	0	256	334	74
Horn ONLY	Non-Temp.	Electro Mechanical	HIGH	1	1	1	49	45	86
			LOW	1	1	0	34	34	76
		3000 Hz	HIGH	1	0	1	49	45	87
			LOW	1	0	0	34	34	77
	Temporal	Electro Mechanical	HIGH	0	1	1	49	45	80
			LOW	0	1	0	34	34	73
		3000 Hz	HIGH	0	0	1	49	45	82
			LOW	0	0	0	34	34	74

Light Output Dispersion

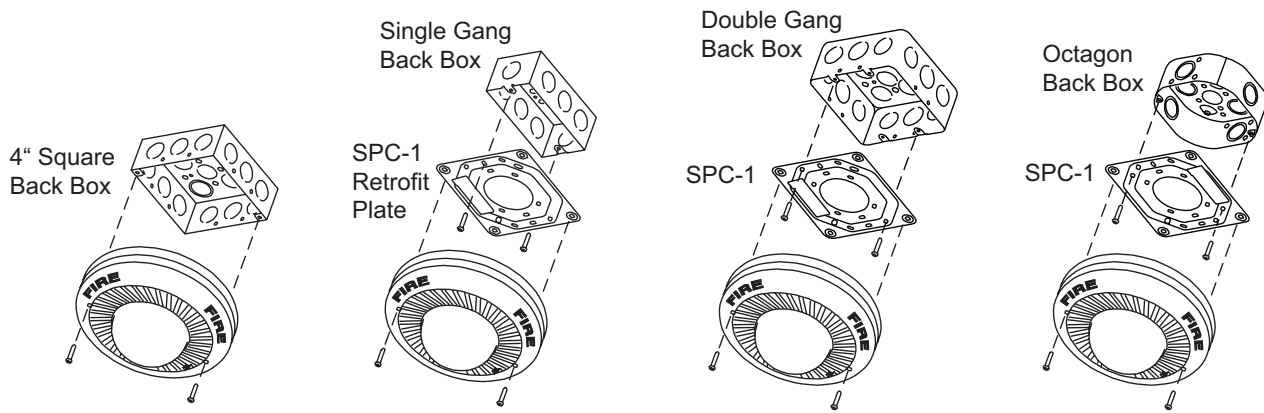
	Light Output on Axis (cd)		
	Low	Mid	High
Amber	30	54	76
Blue	16	29	41
Green	32	57	80
Red	14	25	35
White	30	54	76

Sound Output Dispersion

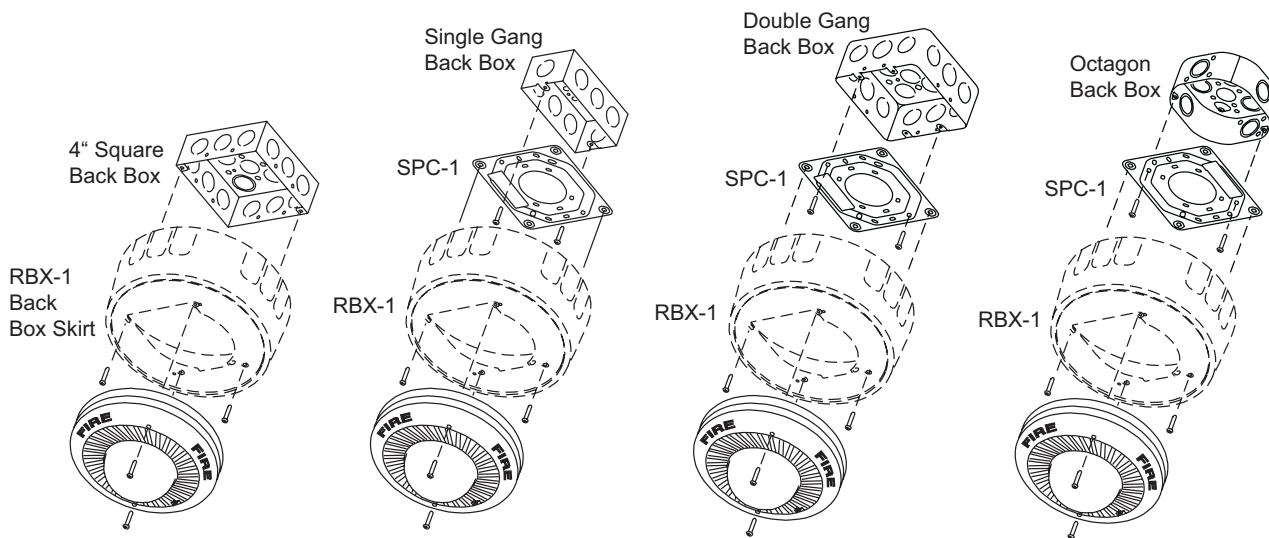
DEGREES	Horizontal		Vertical
	+90	-2dB	-5dB
+60	0dB	-2dB	
+30	1dB	-1dB	
0	0dB	0dB	
-30	-2dB	-1dB	
-60	-3dB	-2dB	
-90	-6dB	-5dB	

Strobe Light ONLY	Max. RMS Operating Current (mArms)	
	Regulated 24V DC	Regulated 24V FWR
Low	121	169
Mid	178	244
High	242	304

Optional Mounting: using SPC-1 retrofit plate



Optional Surface Mounting: using RBX-1 back box skirt and SPC-1 retrofit plate



SMD10-3A

Sync Module

Specification

Input Voltage	Regulated 24V DC/FWR
Operating Voltage Range	16 ~ 33V DC/FWR
Maximum Load on Loop	3A Average Max. 5A Peak
Max. RMS Operating Current	DC 34mA
	FWR 68mA
Mounting Back Box	4" x 4" x 1-1/2"
Operating Temperature Range	32°F ~ 120°F (0°C ~ 49°C)

Description

The Sync Module is designed to provide a synchronized temporal pattern (code 3) tone, and synchronized the strobe flashes when used with AMSECO's *Select-A-Strobe/Horn*® series as well as the ability to silence the horn while maintaining the strobe flashes.

The SMD10-3A has the capability of connecting two style Y (Class B) circuits or one style Z (Class A) circuit and is rated for 3 Amperes per circuit.

The SMD10-3A can be interconnected so that more than 2 alarm zones can be synchronized when connected using the SYNC terminals (daisy chain connection). The maximum number of interconnected modules is twenty.

All inputs are polarized for compatibility with standard reverse polarity supervision of circuit wiring, when used with FACP.

