



POTTER SCM24W-153075 Select A Strobe Chime Combination Owner's Manual

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POTTER SCM24W-153075 Select A Strobe Chime Combination Owner's Manual



- Meets or exceeds NFPA/ANSI Standards and ADA Accessibility Guidelines
- UL Listed for wall mounting
- Screw terminal capacity up to AWG #12
- Universal mounting plate included
- Selectable settings: 15cd or 30cd
- Polarized strobes with wide operating voltage range using filtered DC or unfiltered FWR input voltage
- Horn field selectable tones:
 - 2700 Hz or 2400 Hz
 - Temporal or Non-temporal
 - High or Low dBA Output
- Mounts to 4" square, single gang, double gang, or octagonal back box

- Tamper-proof candela selector switch
- Synchronization requires Sync Module (SMD10-3A)
- Available in red or white housing

Amseco’s Select-A-Strobe/Chime Series is designed to provide audible (private mode) for fire alarm protection systems. It complies with ADA and meets or exceeds NFPA/ANSI audible emergency evacuation signal and UL 464 (private mode) 1971. The SCM24W Series features a unique candela intensity field selector switch for alternating the candela output 15cd to 30cd (75cd on axis). The chime provides two different selectable tones and a high/low output setting that can be achieved with the use of mini-jumpers located on the back of the unit. These appliances are polarized for connecting to supervised fire alarm circuits. The strobe is designed with a xenon flash tube and provides a candela intensity field selector switch for maximum performance. The SCM24W-153075 can be synchronized by using the SMD10-3A Sync Module to comply with NFPA recommendations concerning photosensitive epilepsy when installing two or more visual appliances within the field of view. The strobe signals are listed for indoor use, wall mount, under UL1971 standard.

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Ordering Information

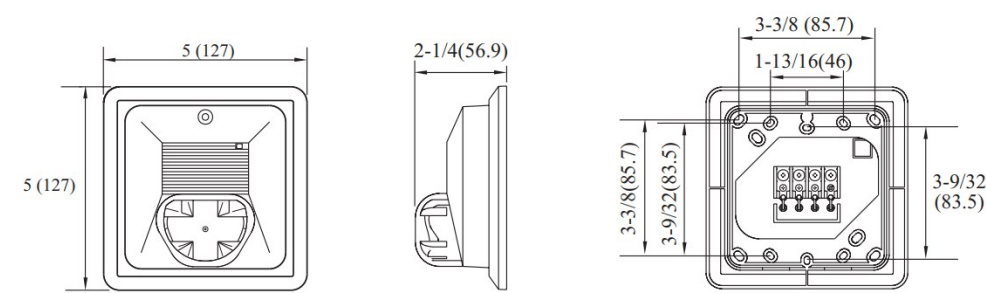
Model Number	Housing Color	Input Voltage	Operating Voltage Range	Selectable Strobe Output (cd)	Horn Sound Output	Wiring Type	Mounting Type	Sync Module	Operating Temperature Range
SCM24W-153075R	Red	Regulated 24 V DC/ FWR	16-33 VDC C16-33 V FWR	15 or 30	Selectable	Terminals	Wall	SMD10-3A	32°F – 120 °F (0°C – 49°C)
SCM24W-153075W	White								

Engineering Specifications

The audible and visual alarm indicating appliances shall be Amseco model SCM24W 153075 or equivalent device. The chime shall be listed under UL 1971 Standard for signaling devices for the hearing impaired and shall be approved for fire protective service. The candela output shall be field selectable, having a dual setting of 15cd or 30cd output. The chime shall provide two different field selectable temporal or steady tones, and a high/low field selectable output setting. The signaling strobe shall operate on a 24V DC coded system. The strobe shall be designed to produce one signal flash per second with continuously applied minimum voltage. The strobe/chime shall have a universal back mounting plate, capable of wall mounting to a back box. When strobe synchronization is required, the SCM24W-153075 shall be compatible with the Amseco SMD10-3A (daisy chain) or other source of Amseco sync protocol. Audible and visual signaling devices shall be installed in accordance with current NFPA

guidelines.

Dimensions inches (mm)

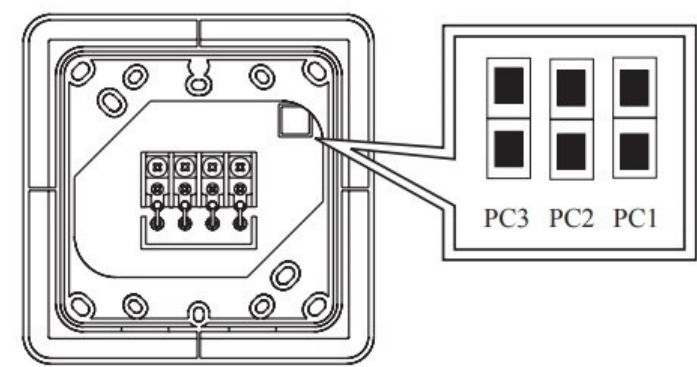


WARNING

Strobes 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.

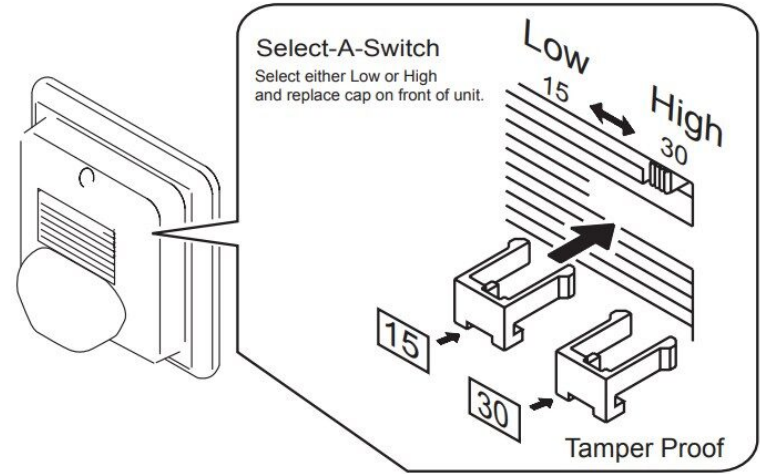
UL Required Minimum Light Output		Horizontal		Vertical	
		15cd	30cd	15cd	30cd
DEGREES	0	75.00	75.00	75.00	75.00
	5-25	13.50	27.00	13.50	27.00
	30	11.25	22.50	13.50	27.00
	35	11.25	22.50	9.75	19.50
	40	11.25	22.50	6.90	13.80
	45	11.25	22.50	5.10	10.20
	50	8.25	16.50	4.05	8.10
	55	6.75	13.50	3.30	6.60
	60	6.00	12.00	2.70	5.40
	65	5.25	10.50	2.40	4.50
	70	5.25	10.50	2.25	4.50
	75	4.50	9.00	1.95	3.90
	80	4.50	9.00	1.80	3.60
	85-90	3.75	7.50	1.80	3.60
	Compound 45	3.60	7.20	—	—

Strobe Light Only	Max. RMS operating Current (mA)	
	Regulated 24V DC	Regulated 24V FWR
15cd	88	127
30cd	134	184



Back of SCM24W

Tone Selection		PC3Pattern	PC2Tone	PC1Volume
Jumper		Non- Temporal	2700 Hz	High
		Temporal	2400 Hz	Low



Sound Output Dispersion		Horizontal (dB)	Vertical (dB)
DEGREES	+90	-6	-3
	+60	-2	-2
	+30	-1	-1
	0	0	0
	-30	-1	-3
	-60	-2	-5
	-90	-6	-6

Wiring Diagram

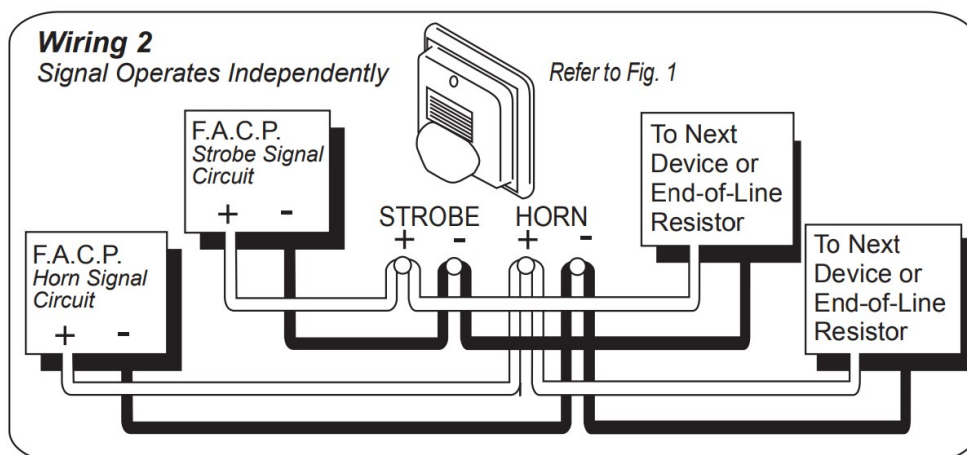
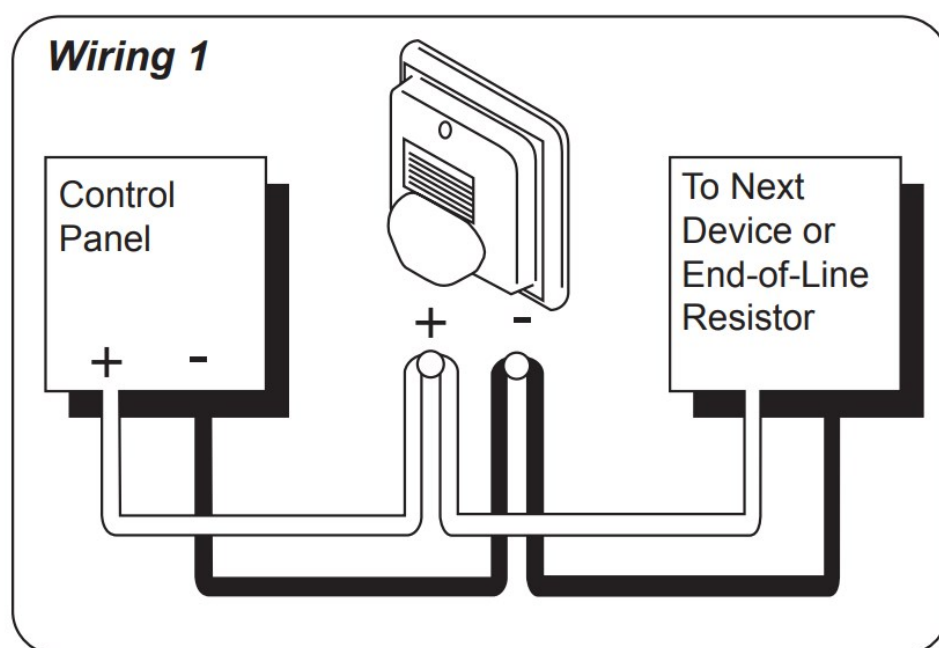
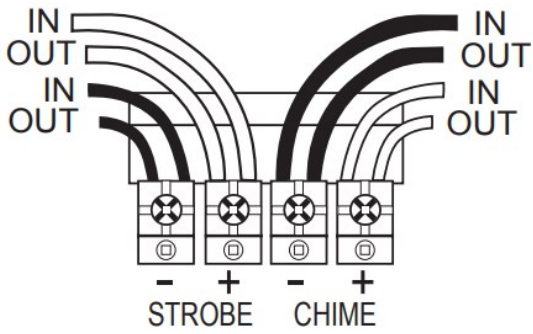


Fig. 1



Wiring 3

Wiring Diagram for Audible Strobe Class "B" Circuit with Audible Silence Feature (SCM24W)

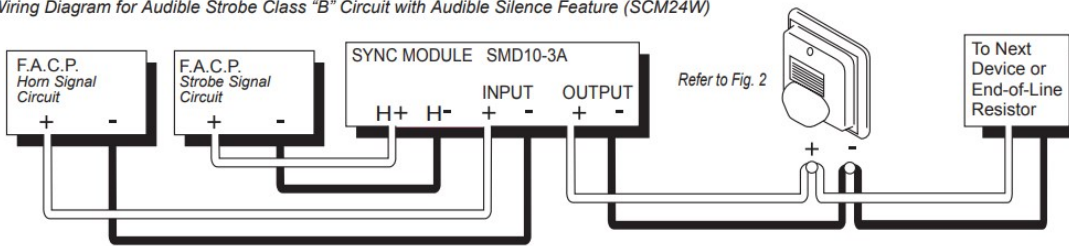
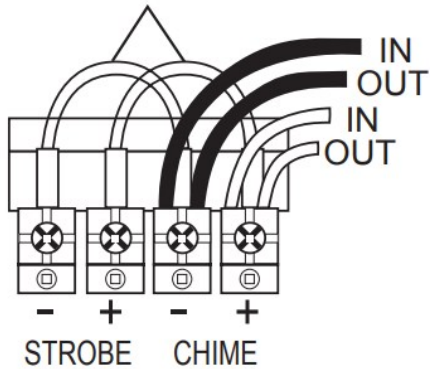


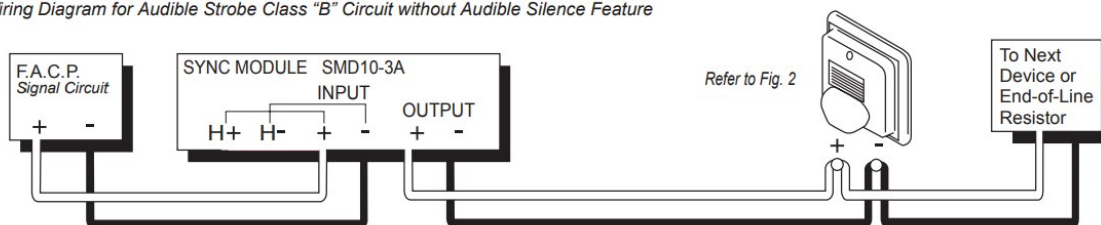
Fig. 2

Factory setting jumper wire



Wiring 4

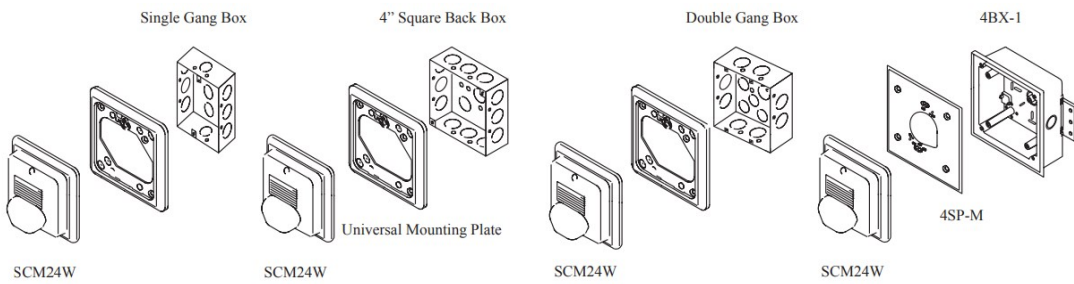
Wiring Diagram for Audible Strobe Class "B" Circuit without Audible Silence Feature



Specifications

Strobe Horn Current Draw Table				PC3: Pattern PC2: Tone PC1: Volume			Maximum RMS Operating Current (mA)		Minimum Sound Output (dBA @ 10ft per UL464)
				PC3	PC2	PC1	Regulated 24VDC	Regulated 24V FWR	Regulated 24VDC
Chime and Strobe (15 cd)	Non-Temp	2700 Hz	High	1	1	1	112	155	66
			Low	1	1	0	109	153	61
		2400 Hz	High	1	0	1	111	155	54
			Low	1	0	0	109	153	50
	Temporal	2700 Hz	High	0	1	1	112	155	65
			Low	0	1	0	109	153	60
		2400 Hz	High	0	0	1	111	155	53
			Low	0	0	0	109	153	48
Chime and Strobe (30 cd)	Non-Temp	2700 Hz	High	1	1	1	155	217	66
			Low	1	1	0	152	215	61
		2400 Hz	High	1	0	1	154	217	54
			Low	1	0	0	152	215	50
	Temporal	2700 Hz	High	0	1	1	155	217	65
			Low	0	1	0	152	215	60
		2400 Hz	High	0	0	1	154	217	53
			Low	0	0	0	152	215	48
Chime Only	Non-Temp	2700 Hz	High	1	1	1	45	58	66
			Low	1	1	0	40	52	61
		2400 Hz	High	1	0	1	44	57	54
			Low	1	0	0	40	52	50
	Temporal	2700 Hz	High	0	1	1	45	58	65
			Low	0	1	0	40	52	60
		2400 Hz	High	0	0	1	44	57	53
			Low	0	0	0	40	52	48

Installation Options



firealarmresources.com

Documents / Resources



[POTTER SCM24W-153075 Select A Strobe Chime Combination](#) [pdf] Owner's Manual
SCM24W-153075 Select A Strobe Chime Combination, SCM24W-153075, Select A Strobe Chime Combination, Chime Combination

References

- [Fire Alarm Resources | Download fire alarm documents](#)
- [Potter Electric: Fire Alarms & Fire Sprinkler Systems](#)

Manuals+.