



Description

The Select-A-Strobe/Horn Series is designed to comply with the Americans with Disability Act (ADA) and meet UL standard 1971 requirements for emergency signaling devices for the hearing impaired.

The Select-A-Strobe/Horn SH24C series features a unique candela intensity field selector switch for alternating the candela to 30cd, 75cd or 110cd. The Horn provides two different field selectable tones, and a High/Low output setting that can be achieved with the use of mini jumpers located on back of the unit. These appliances are polarized for connecting to supervised fire alarm circuits. The strobe is designed with a xenon flashtube and provides a candela intensity field selector switch for maximum performance.

The SH24C-3075110 can be synchronized by using the SDM-240 Sync Module to comply with NFPA recommendations concerning photosensitive epilepsy when installing 2 or more visual appliances within the field of view. The strobe signals are listed for indoor use, wall mount, under UL 1971 standard.



Engineering Specifications

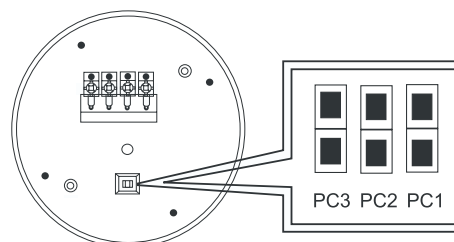
The audible and visual alarm indicating appliance shall be a model SH24C-3075110 or equivalent device. The Strobe shall be listed under UL 1971 Standard for signaling devices for the hearing impaired and shall be approved for fire protective service. The candela output shall be field selectable, having three (3) settings of 30cd, 75cd and 110cd output. The signaling Strobe shall operate on 24VDC from a non-coded regulated DC supply or full-wave rectified, unfiltered supply. The Horn may operate on 24VDC coded system. The Strobe shall be designed to produce one signal flash per second with continuously applied minimum voltage. The Strobe/Horn may have a SPC-1 universal back mounting plate, capable of CEILING and WALL mounting to a back box. When strobe synchronization is required, the Strobe/Horn shall be compatible with the SDM-240 (daisy chain) or other source of sync protocol. Audible and visual signaling devices shall be installed in accordance with current NFPA guideline.

Features

- Meets or exceeds NFPA/ANSI Standards and ADA Accessibility Guidelines
- UL listed for ceiling and wall mounting under UL1971
- Screw terminal capacity up to 12 AWG
- Designed for use in non-sleeping areas
- Selectable settings: 30cd, 75cd, 110cd candela output
- Polarized strobes with wide operating voltage range using filtered DC or unfiltered FWR input voltage
- Horn field selectable tones
 - 3000 Hz interrupted or Electro-mechanical
 - Temporal or Non-temporal
 - High or Low dBA output
- Mounts to 4" square, single gang, double gang or octagonal back box; SPC-1 (retrofit plate) and RBX-1 (back box skirt) are optional
- Tamper-proof candela selector switch
- Synchronization requires Sync Module (SDM-240)
- Available in red or white housing

Tone Selection

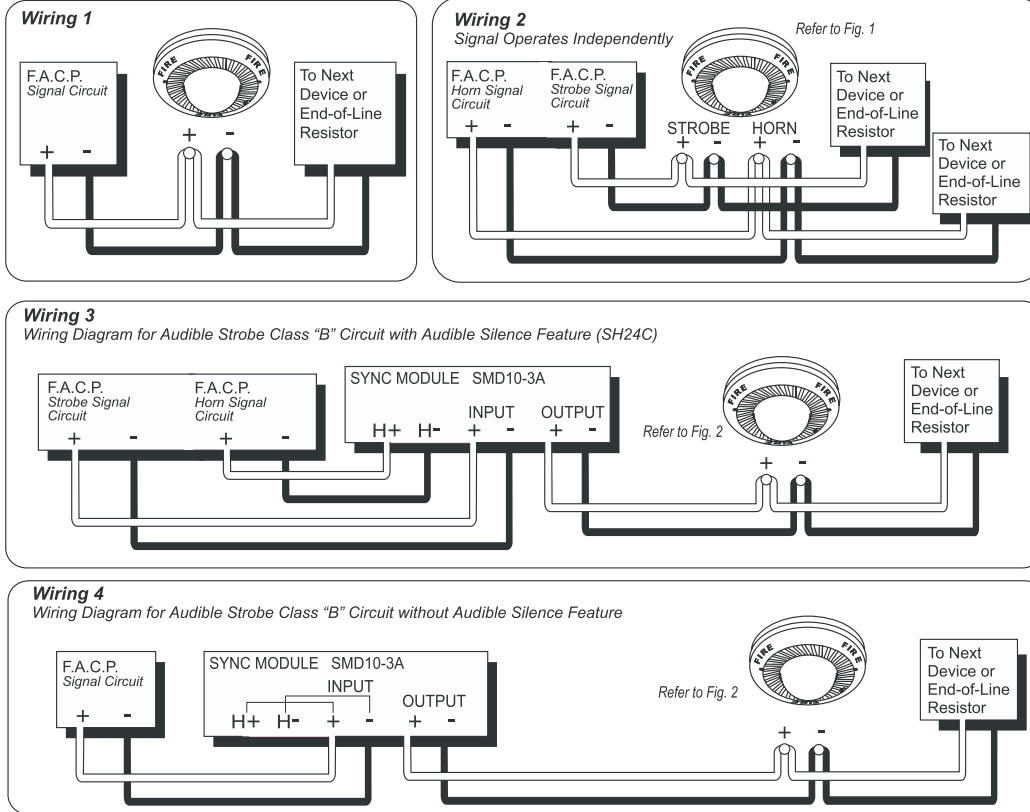
Jumper	PC3 Pattern	PC2 Tone	PC1 Volume
	Non-Temporal	Electro-Mechanical	High
	Temporal	3000 Hz	Low



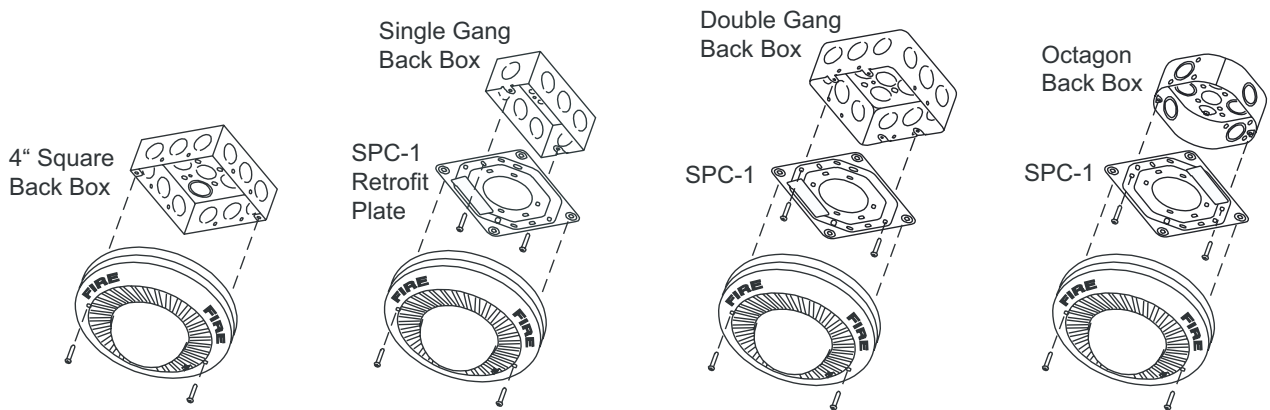
Back of SH24C



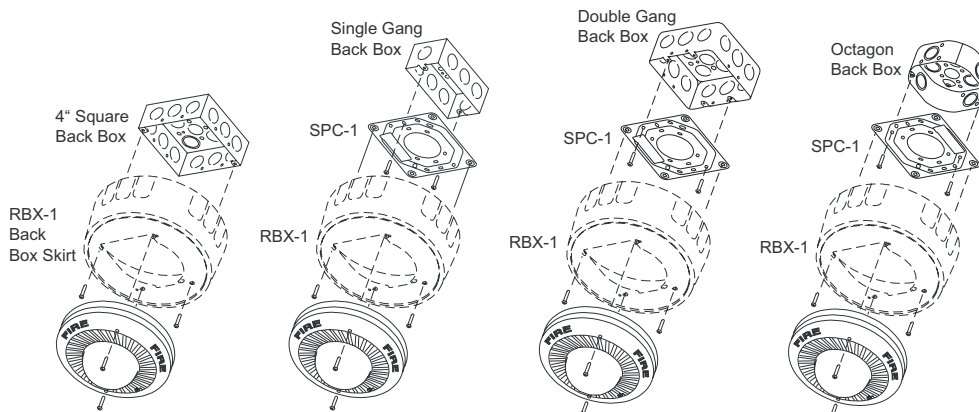
Wiring Diagrams



Optional Mounting Using SPC-1 Retrofit Plate



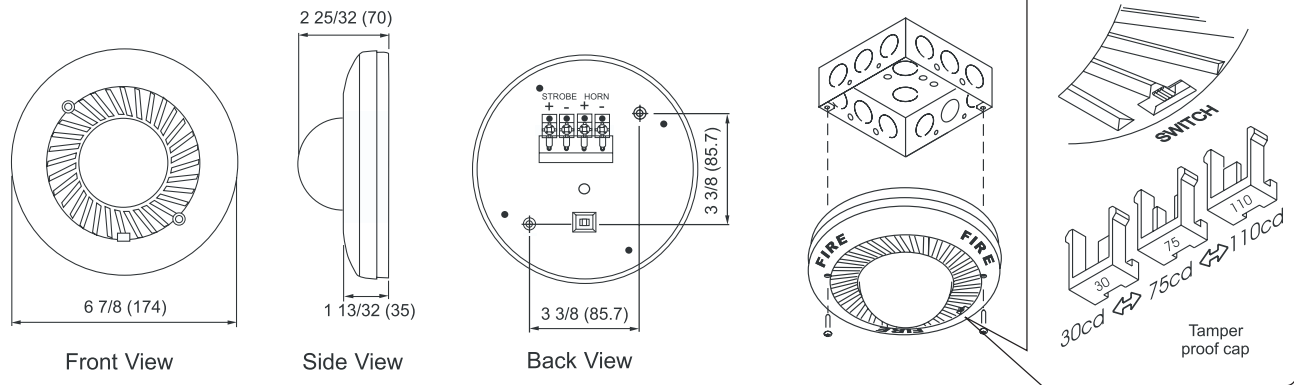
Optional Surface Mounting Using RBX-1 Backbox Skirt and SPC-1 Retrofit Plate



WARNING:

- The Horn/Strobe 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.

Dimensions



Horn/Strobe Current Draw Table

				PC3: Pattern PC2: Tone PC1: Volume			Max RMS Operating Current (mA)		Min. Sound Output (dBA @ 10ft per UL464)
				PC3	PC2	PC1	Regulated 24V DC	Regulated 24V FWR	Regulated 24V DC
@ 30cd	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
@ 75cd	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
@ 110cd	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

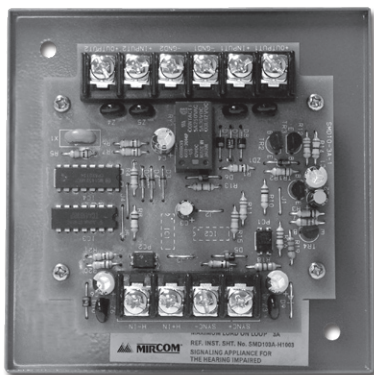
Horn Only Current Draw Table

			PC3 Pattern PC2 Tone PC1 Volume			Max RMS Operating Current (mA)		Min. Sound Output (dBA @ 10ft per UL464)
			PC3	PC2	PC1	Regulated 24V DC	Regulated 24V FWR	Regulated 24V DC
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

UL Required Minimum Light Output (cd)

Degrees	Ceiling Mount Horizontal		
	@ 30 cd	@ 75 cd	@ 110 cd
0	30.00	75.00	110.00
5 ~ 25	27.00	67.50	99.00
30 ~ 45	22.50	56.25	82.50
50	16.50	41.25	60.50
55	13.50	33.75	49.50
60	12.00	30.00	44.00
65 ~ 70	10.50	26.25	38.50
75 ~ 80	9.00	22.50	33.00
85 ~ 90	7.50	18.75	27.50
Compound 45	7.20	18.00	26.40

SDM-240 Sync Module



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

The SDM-240 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 SDM-240 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 20. All inputs are polarized for compatibility with standard reverse polarity supervision of circuit wiring, when used with FACP.

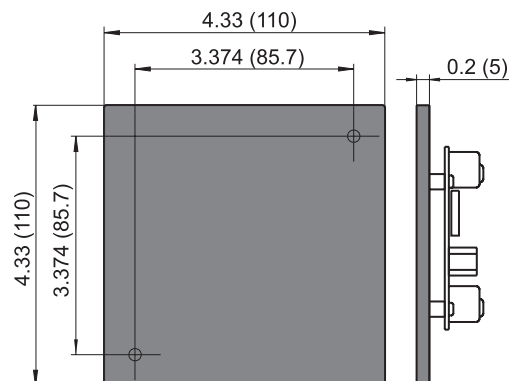
Strobe Only Current Draw Table

Candela	Max. RMS Operating Current (mA)	
	Regulated 24V DC	Regulated 24V FWR
30cd	121	169
75cd	178	244
110cd	242	304

Sound Output Dispersion (dB)

Degrees	Wall Mount Horizontal	Wall Mount Vertical
+90	-2 dB	-5 dB
+60	0 dB	-2 dB
+30	1 dB	-1 dB
0	0 dB	0 dB
-30	-2 dB	-1 dB
-60	-3 dB	-2 dB
-90	-6 dB	-5 dB

Dimensions



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 Backbox		4" x 4" x 1 1/2"
Operating Temperature Range		32°F ~ 120°F (0°C ~ 49°C)

Ordering Information

Model Number	Housing Color	Input Voltage	Operating Voltage Range	Selectable Strobe Output (cd)	Horn Sound Output	Wiring Type	Mounting Type	Sync Module	Temperature Operating Range
SH24C-3075110R	Red	Regulated 24VDC/FWR	16 ~ 33VDC 16 ~ 33VFWR	30, 75, 110	60 times/min.	Terminals	Ceiling & Wall Mount	SDM-240	32°F ~ 120°F (0°C~49°C)
SH24C-3075110W	White								

NOT TO BE USED FOR INSTALLATION PURPOSES.



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CAT. 5237
Rev. 4