SELECT-A-HORN/STROBE SERIES FHS-240R110/FHS-240W110

Description

Mircom's Select-A-Strobe/HornSeries 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 FHS-240-110 series features a unique candela intensity field selector switch for alternating the candela output 75cd to 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 FHS-240-110 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 UL1971 standard.

Engineering Specifications

The audible and visual alarm indicating appliance shall be model FHS-240-110 or equivalent device. The Strobe shall be listed under UL1971 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 75cd or 110cd output.

Features

- 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
- 24V DC strobe with two field selectable settings: 75cd, 110cd
- 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
- Tamper-proof candela selector switch
- Synchronization requires Sync Module (SDM-240)
- Available in red or white housing

The Horn shall provide two different field selectable temporal or steady tones, and a High and Low field selectable sound output setting. 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 shall have a universal back mounting plate, capable of WALL mounting to a back box.

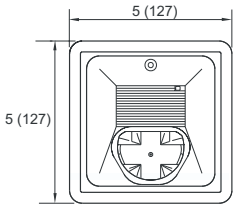
When strobe synchronization is required, the Strobe/Horn shall be compatible with the SDM-240 (daisy chain) or other source of sync protocol. Audible and visual signaling devices shall be installed in accordance with current NFPA guideline.

MEA approved

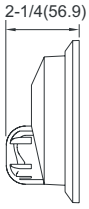
ADA

CATALOG NUMBER 5226

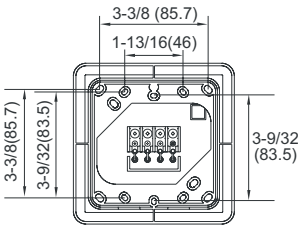
Dimensions



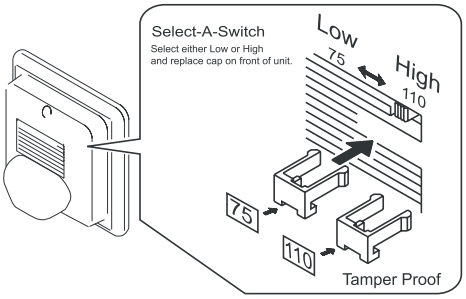
Front View



Side View

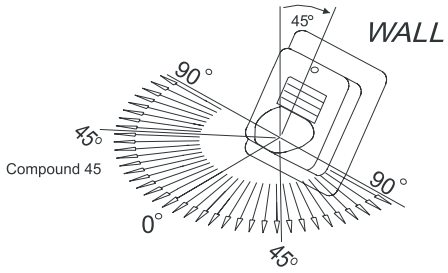


Back View

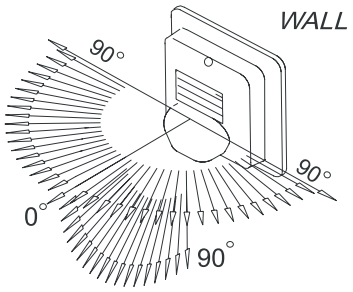


UL Required Minimum Light Output (cd)

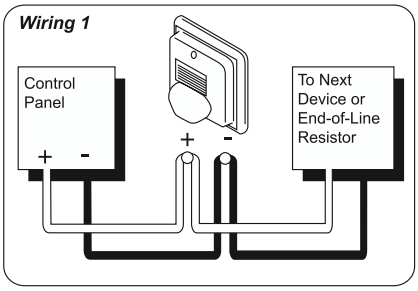
Degrees	Wall Mount Horizontal		Wall Mount Vertical	
	@ 75 cd	@ 110 cd	@ 75 cd	@110 cd
0	75.00	75.00	75.00	75.00
5 ~ 25	67.50	99.00	67.50	99.00
30	56.25	82.50	67.50	99.00
35	56.25	82.50	48.75	71.50
40	56.25	82.50	34.50	50.60
45	56.25	82.50	25.50	37.40
50	41.25	60.50	20.25	29.70
55	33.75	49.50	16.50	24.20
60	30.00	44.00	13.50	19.80
65	26.25	38.50	12.00	17.60
70	26.25	38.50	11.25	16.50
75	22.50	33.00	9.75	14.30
80	22.50	33.00	9.00	13.20
85 ~ 90	18.75	27.50	9.00	13.20
Compoud 45	18.00	26.40	-	-

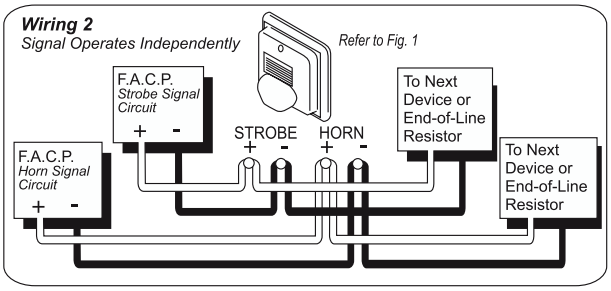


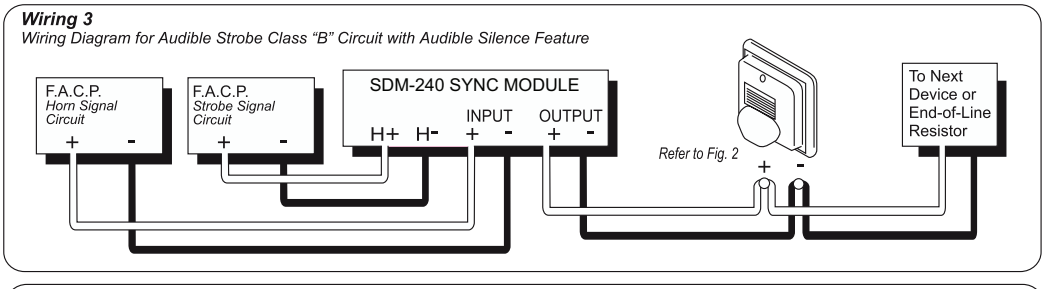
Compound 45

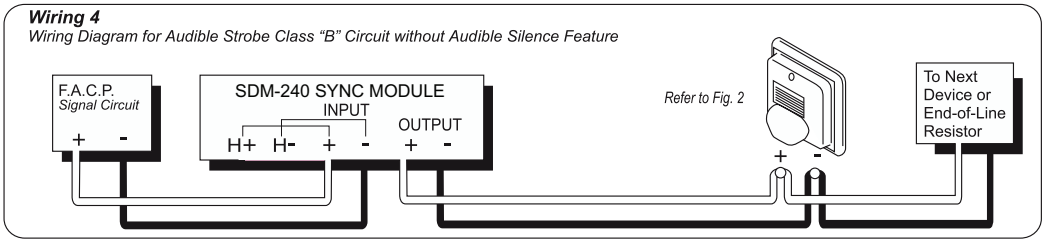


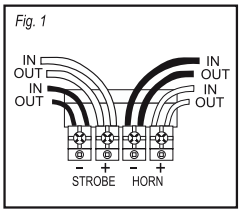
Wiring Diagrams

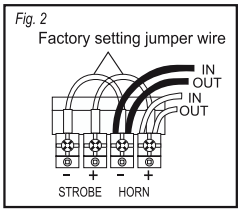




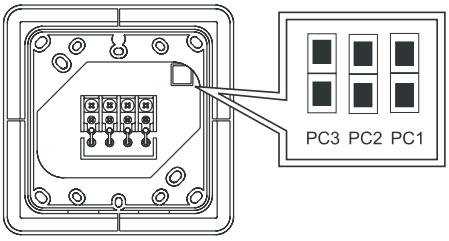








Specifications



Back of FHS-240

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

Strobe/Horn 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
Horn & Strobe (Low)	Non-Temp	Electro-Mechanical	High	1	1	1	161	206	83
			Low	1	1	0	158	203	74
		3000 Hz	High	1	0	1	167	214	84
			Low	1	0	0	155	200	74
	Temporal	Electro-Mechanical	High	0	1	1	161	206	79
			Low	0	1	0	158	203	69
		3000 Hz	High	0	0	1	167	214	80
			Low	0	0	0	155	200	70
Horn & Strobe (High)	Non-Temp	Electro-Mechanical	High	1	1	1	213	271	83
			Low	1	1	0	210	268	74
		3000 Hz	High	1	0	1	219	279	84
			Low	1	0	0	207	265	74
	Temporal	Electro-Mechanical	High	0	1	1	213	271	79
			Low	0	1	0	210	268	69
		3000 Hz	High	0	0	1	219	279	80
			Low	0	0	0	207	265	70
Horn Only	Non-Temp	Electro-Mechanical	High	1	1	1	57	91	83
			Low	1	1	0	42	44	74
		3000 Hz	High	1	0	1	70	68	84
			Low	1	0	0	36	38	74
	Temporal	Electro-Mechanical	High	0	1	1	57	91	79
			Low	0	1	0	42	44	69
		3000 Hz	High	0	0	1	70	68	80
			Low	0	0	0	36	38	70

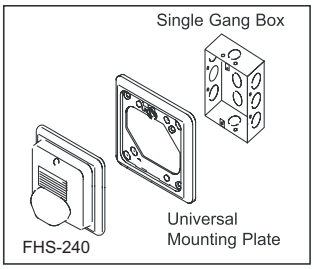
Strobe Light Only	Max. RMS Operating Current (mA)	
	Regulated 24V DC	Regulated 24V FWR
75cd	143	198
110cd	198	266

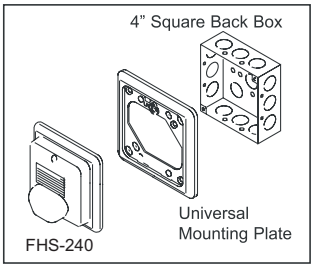
Under ULC 525/526	ULC Current @ 24VDC (mA)	
	Low Volume	High Volume
75cd	111	130
110cd	138	157

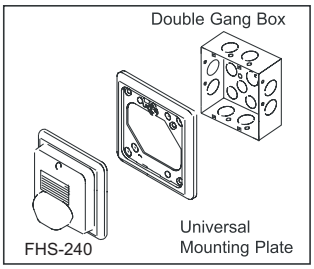
Sound Output Dispersion

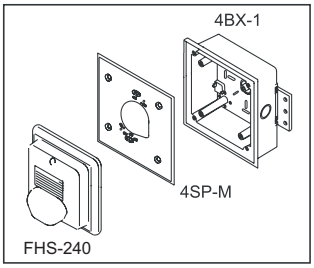
Degrees	Wall Mount Horizontal	Wall Mount Vertical
+90	-6 dB	-3 dB
+60	-2 dB	-2 dB
+30	-1 dB	-1 dB
0	0dB	0 dB
-30	-1 dB	-3 dB
-60	-2 dB	-5 dB
-90	-6 dB	-6 dB

Installation Options









Warning

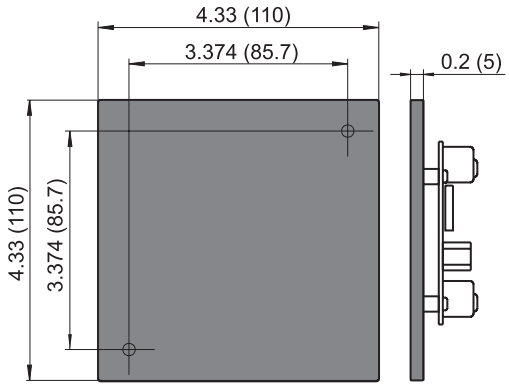
- Strobes must be used only on circuits with continuously operating voltage. DO NOT use strobe on coded or interrupted circuits in which the applied voltage is interrupted ON and OFF as the strobe may fail to flash.
- The applied voltage must be within its rated input voltage range.
- Fuse ratings on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

SDM-240 Sync Module

Features

- Polarized with wide operating voltage range using filtered DC or unfiltered FWR input voltage
- Mounts onto 4-inch square back box
- Daisy chain up to 20 modules maximum
- Screw terminal capacity up to AWG#12
- Red metal plate

Dimensions



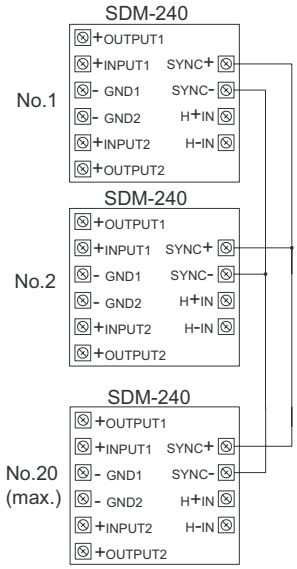
Description

The Sync Module is designed to provide a synchroized 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 connectign 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 two 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.

Daisy Chain Modules



Specifications

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
Mouting Backbox		4" x 4" x 1½"
Operating Temperature Range		32ºF ~ 120ºF (0ºC ~ 49ºC)

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
FHS-240R110	Red	Regulated 24V DC/FWR	16 ~ 33VDC 16 ~ 33VFWR	75 or 110	Selectable	Terminals	Wall Mount	SDM-240	32ºF ~ 120ºF (0ºC~49ºC)
FHS-240W110	White								

NOT TO BE USED FOR INSTALLATION PURPOSES.

MIRCOM®

Canada
25 Interchange Way
Vaughan, Ontario L4K 5W3
Telephone: (905) 660-4655
Fax: (905) 660-4113

U.S.A.
60 Industrial Parkway
Cheektowaga, New York 14227
Toll Free: (888) 660-4655
Fax Toll Free: (888) 660-4113

Web page: http://www.mircom.com Email: mail@mircom.com

Distributed by: