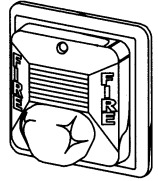


MIRCOM® WALL MOUNT COMBINATION HORN STROBE

FHS-240 SELECT-A-HORN/STROBE Two Field Selective tone and dBA level Horn with Select-A-Strobe

FS-240 SELECT-A-STROBE Exclusive Field Selective Strobe 15cd or 30cd, 75cd on axis

FH-240 SELECT-A-HORN Two Field Selective tone and dBA level Horn



DESCRIPTION

MIRCOM's new UL listed FHS Select-A-Horn Strobe, FS Select-A-Strobe and FH Select-A-Horn series are designed to provide audible and visual signals for Fire Alarm Protection Systems. They meet or exceed NFPA / ANSI standards and ADA (Americans with disability act) accessibility guidelines as well as UL464/UL1971.

The FHS-240 combines a selective 2 tone horn with a Select-A-Strobe. The horn provides a continuous horn tone or temporal pattern (code 3) tone when constant voltage from a Fire Alarm Control Panel (FACP) is applied. Each tone has two dBA levels (High/Low) to choose from by jumper.

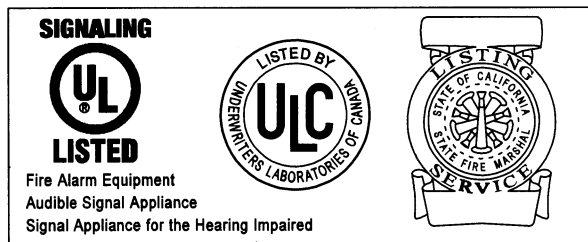
The Strobe can be selected by either 15 cd / 30 cd light output with a selective switch located on the front housing. The FHS-240 can be connected audible/visual signals either independently or unison. The horn can be silenced while maintaining strobe activation of the series FHS-240. Refer to wiring diagram Fig.1. The horn draws 28 mA at low dBA level and 54 mA at high dBA level. For dBA refer to table 1.

The FS-240 is a Select-A-Strobe that is identical to FHS-240 without horn circuitry. It draws 60 mA at 15 cd and 91 mA at 30 cd light output. The FH-240 is a Select-A-Horn that is identical to FHS-240 without strobe circuitry.

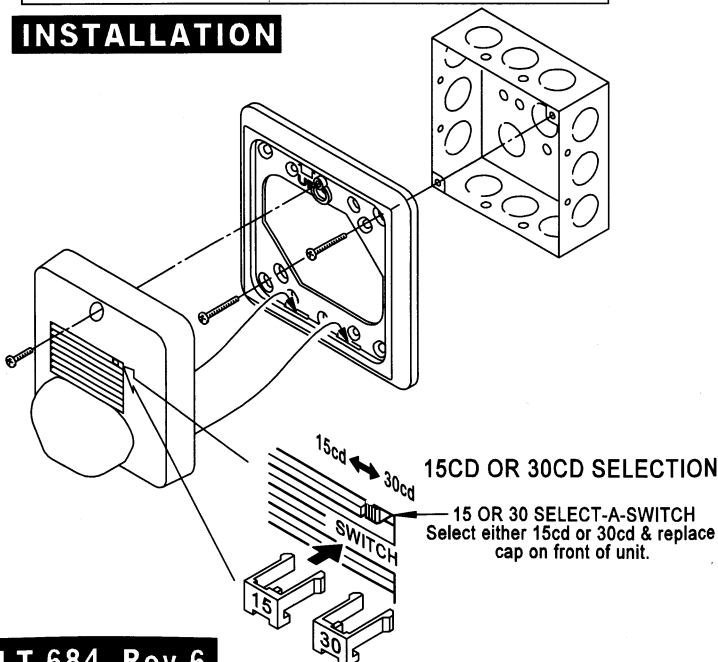
The FS/FH series are polarized and have screw terminals for IN/OUT wiring connections using #12 to #18 AWG wires. In those instances where two or more MIRCOM horns and/or strobes are connected and requires synchronized code 3 temporal pattern and/or a synchronized strobe flash, all models (horn with strobe or strobe only) can be synchronized when used in conjunction with MIRCOM UL listed Sync Module SDM-240 to meet the latest code. Refer to wiring diagram "Wiring 3" or "Wiring 4". The Select-A-Horn Strobe / Select-A-Strobe / Select-A-Horn series are available in standard red or white color.

Note 1: Installation must comply in accordance with applicable standards such as NFPA 72, ANSI 117.1, UL1638 UL464 and all state local codes.

Note 2: When calculating the total current: Use table to determine the highest value of rated current for the system.



INSTALLATION



Locate the Tone Select Jumper as shown in Fig.A. For tone selection, set the jumper as shown in Fig.B. Select strobe light output 15 cd or 30 cd by the Select-A-Switch located on the front housing. Make sure that you place the tamper proof cap provided showing the candela rating. Connect all wires appropriately as shown in the wiring diagram.

TONE SELECT JUMPER

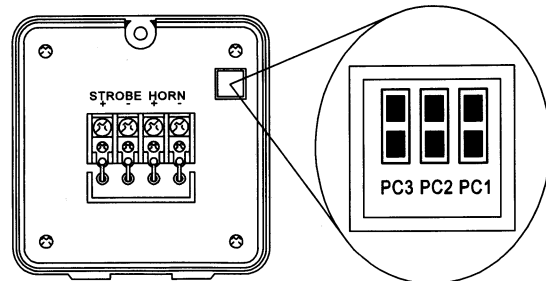


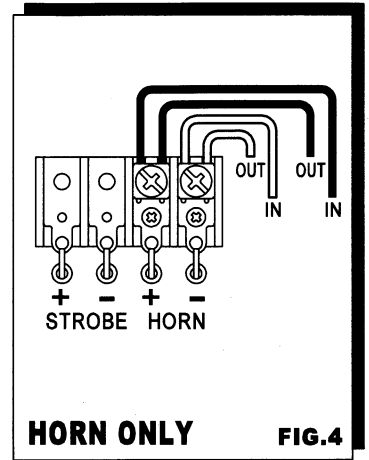
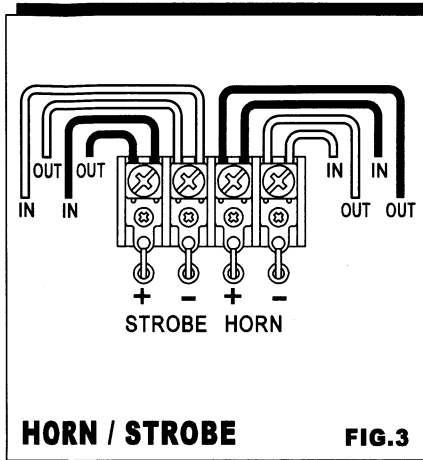
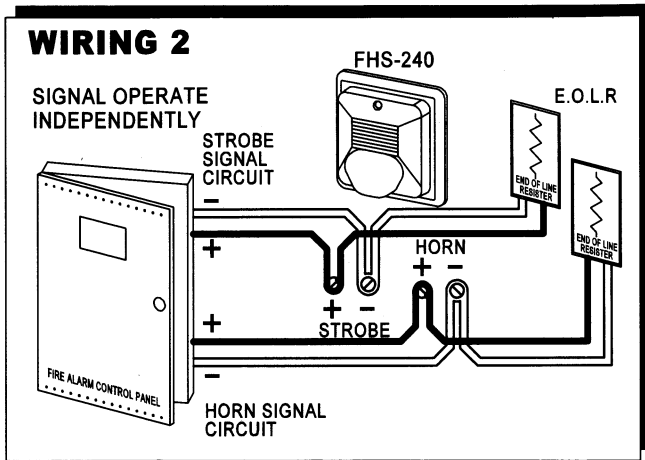
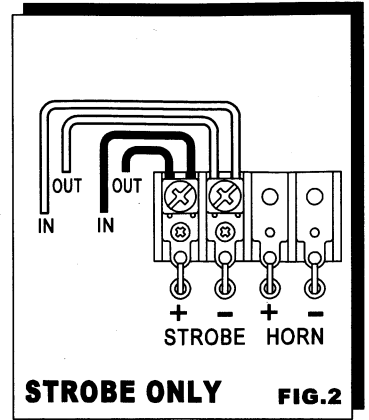
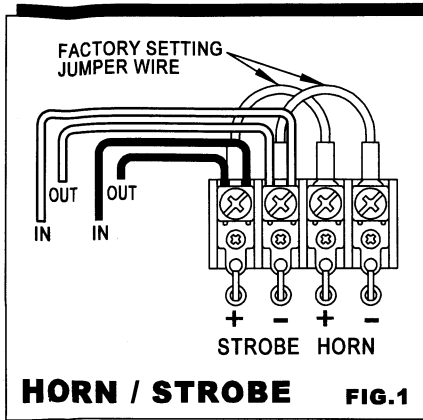
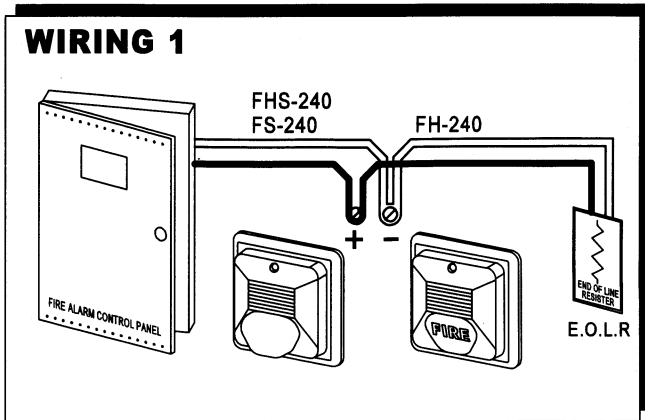
Fig.A

JUMPER	PC3 PATTERN	PC2 TONE	PC1 VOLUME
	NON TEMPORAL	ELECTRO MECHANICAL	HIGH
	TEMPORAL	3000Hz	LOW

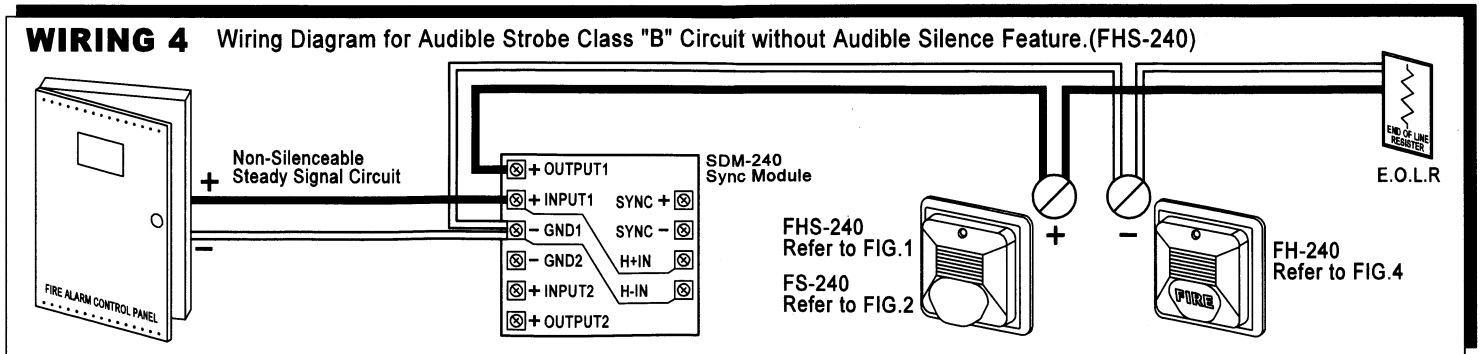
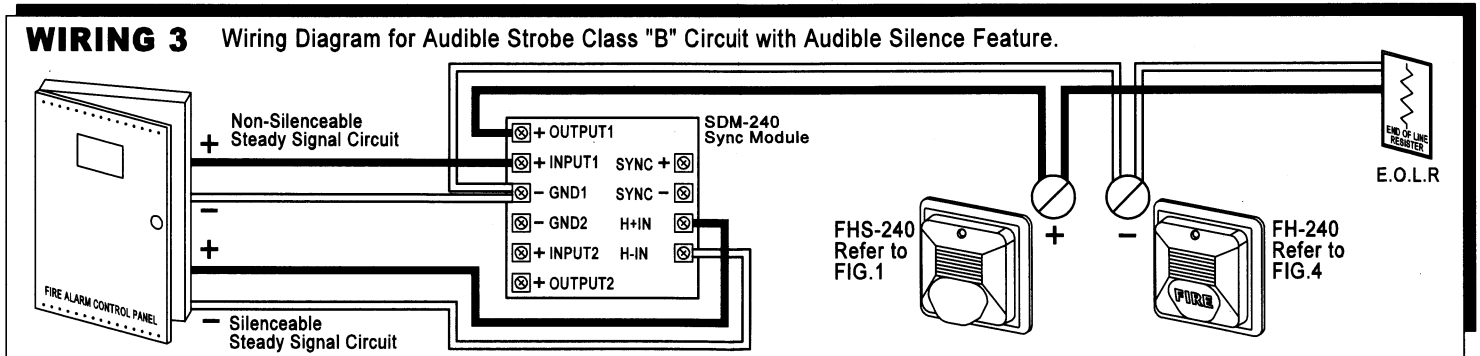
Fig.B

PACKAGE INCLUDES

- * #8-32x1" screws 2pcs.
- * Tamper proof cap 2pcs.



WIRING (REAR VIEW) OBSERVE POLARITY USE BOTH TERMINALS (OR LEADS) FOR CONNECTION. BREAK WIRE RUN TO PROVIDE ELECTRICAL SUPERVISION.



Refer to the SDM-240 Sync Module instruction manual for Class "A" wiring or other application diagrams.

WARNING High voltage may be present inside the light assembly even though power is not connected. If access to the component board is required (removal or replacement), the capacitor must be discharged by touching a wire to both ends of the flashtube.

*DO NOT ATTEMPT TO TOUCH OR MOVE THE ASSEMBLY UNTIL THE CAPACITOR HAS BEEN DISCHARGED.
*INDOOR USE ONLY.

SPECIFICATION TABLE 1

HORN STROBE FHS-240

☐=1
☐=0

PC3 Pattern	PC2 Tone	PC1 Volume	P C 3	P C 2	P C 1	Max. RMS Operating Current (mArms)		Min. Sound Output (dBA@10ft per UL464)
						Regulated 24 DC	Regulated 24 FWR	Regulated 24 DC
NON-TEMP.	ELECTRO MECHANICAL	HIGH	1	1	1	112	145	83
		LOW	1	1	0	109	142	74
	3000 Hz	HIGH	1	0	1	118	153	84
		LOW	1	0	0	106	139	74
TEMPORAL	ELECTRO MECHANICAL	HIGH	0	1	1	112	145	79
		LOW	0	1	0	109	142	69
	3000 Hz	HIGH	0	0	1	118	153	80
		LOW	0	0	0	106	139	70

NON-TEMP.	ELECTRO MECHANICAL	HIGH	1	1	1	158	207	83
		LOW	1	1	0	155	204	74
	3000 Hz	HIGH	1	0	1	164	215	84
		LOW	1	0	0	152	201	74
TEMPORAL	ELECTRO MECHANICAL	HIGH	0	1	1	158	207	79
		LOW	0	1	0	155	204	69
	3000 Hz	HIGH	0	0	1	164	215	80
		LOW	0	0	0	152	201	70

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

	Max. RMS Operating Current (mArms)	Regulated 24 DC	Regulated 24 FWR
@ 15cd		88	127
@ 30cd		134	184

FS-240	Max. RMS Operating Current (mArms)	Regulated 24 DC	Regulated 24 FWR
@ 15cd		83	120
@ 30cd		128	175

FH-240

☐=1 ☐=0

PC3 Pattern	PC2 Tone	PC1 Volume	P C 3	P C 2	P C 1	Max. RMS Operating Current (mArms)		Min. Sound Output (dBA@10ft per UL464)
						Regulated 24 DC	Regulated 24 FWR	Regulated 24 DC
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

Voltage	24V
UL designation	Regulated 24 DC/FWR
Operating Voltage Range	16~33 VDC 16~33 VFWR
Flash Rate	60 times / min.
Light Output Select	15cd per UL1971 75cd on axis
	30cd per UL1971 75cd on axis
Sync module (SDM-240)	Available
Operating Temperature Range	32~120° F (0~49° C)
Material	Housing : A.B.S. Lens : Polycarbonate
Construction	INDOOR USE

NOTE : UL and ULC current values have different standards-UL464/1971 and CAN/ULC-525/526.

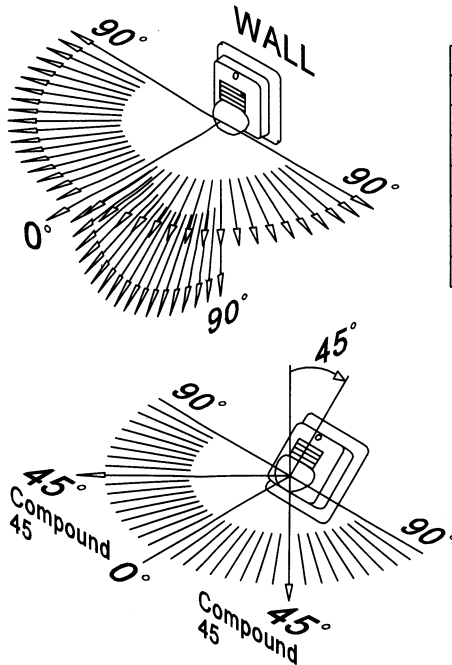
Model	ULC Current @ 24VDC
FHS-240	79mA @15cd & Low Volume
	92mA @15cd & High Volume
	111mA @30cd & Low Volume
	124mA @30cd & High Volume
FS-240	99mA @15cd
	129mA @30cd
FH-240	15mA @Low Volume
	42mA @High Volume

The low volume Temporal setting are not suitable to use for Fire Alarm Public Mode, (Suitable for General and Private Modes only).

LIGHT OUTPUT IN PERCENTAGE WHEN MEASURED FROM THE FOLLOWING DIRECTION

Light Output Dispersion

Degrees	UL Required Minimum Light Output (cd)			
	Wall Mount-Horizontal		Wall Mount-Vertical	
	@ 15cd	@ 30cd	@ 15cd	@ 30cd
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	—	—



Sound Output Dispersion

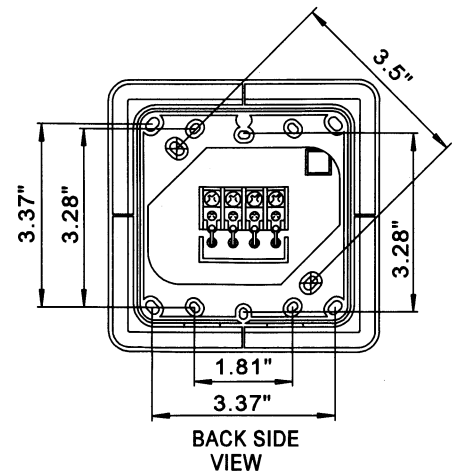
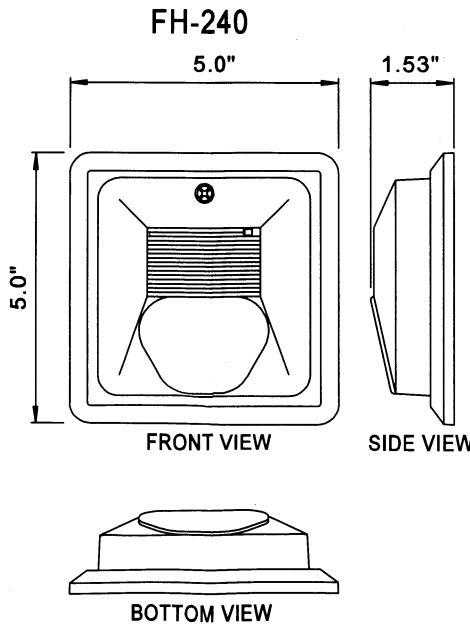
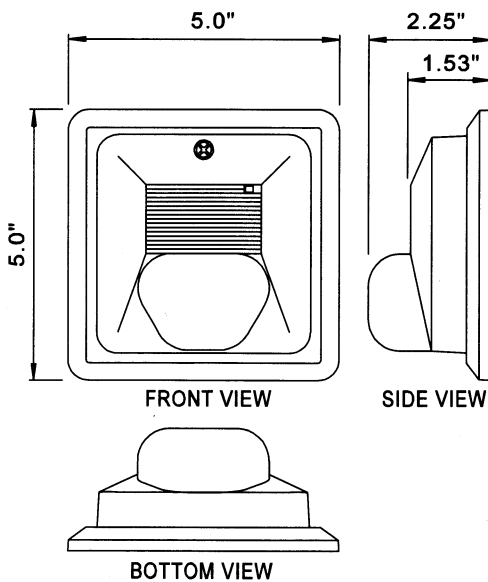
Degrees	Wall Mount-Horizontal		Wall Mount-Vertical	
	FHS-240	FH-240	FHS-240	FH-240
+90	-6 dB	-6 dB	-3 dB	-3 dB
+60	-2 dB	-2 dB	-2 dB	-2 dB
+30	-1 dB	-1 dB	-1 dB	-1 dB
0	0 dB	0 dB	0 dB	0 dB
-30	-1 dB	-1 dB	-3 dB	-1 dB
-60	-2 dB	-2 dB	-5 dB	-3 dB
-90	-6 dB	-6 dB	-6 dB	-4 dB

NOTE:

UL and ULC candela(cd) values have different light outputs derived from the different standards-UL1971 and CAN/ULC-526-M87.

ULC light output on axis @ 24VDC	
at 15cd	at 30cd
130 candela	250 candela

DIMENSIONS : (INCHES) FHS-240 / FS-240



WE RECOMMEND USE OF THIS PRODUCT IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS PROVIDED IN THIS MANUAL.



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