

WARNING: Installation is to be done by qualified personnel who have thoroughly read and understood this installation sheet and the accompanying General Product Warning and Limitations Document.

U-MHST devices must be properly wired to a CERBERUS PYROTRONICS™ SCM-F or CERBERUS PYROTRONICS™ DSC SYNC Control Unit to operate.

SPECIFICATIONS AUDIBLE APPLIANCE:

Signal Type: Temporal

SPL: @ 24VDC at 10' on axis 95dB

UL reverberant room rating: 82dB at 10' 20VDC.
84dB at 10' 24VDC.

Listed Voltage Range: 20-31VDC or VFWR

Current: 23mA. @ 24VDC & VFWR

20-30mA 20-31VDC

Units for indoor use only (32°-120°F)

See visual specifications for strobe currents & intensities on page 4.

Individual wires (especially heavy gauge wire) should be bent at 90° before attaching to screw. Wiring should then carefully be pushed back into back box to minimize stress on the terminal block.

CERBERUS PYROTRONICS™ U-MHST-1G HORN (Fig. 1)

1. Connect wiring (see fig. 4 or 4a).
2. Mount the Horn to the single gang box with the two # 6-32 x 1-3/4" screws.
3. Test unit for proper operation.

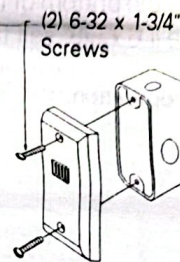


Fig. 1 U-MHST-1G

CERBERUS PYROTRONICS™ U-MHST HORN (Fig. 2)

1. Pull the wires from the outlet box through the large opening in the adapter plate.
2. Mount the adapter plate to the electrical box using the appropriate screws provided. Make sure that the adapter plate is mounted in the upright position. (Note: When using a single gang outlet box make sure to use the holes labeled "single gang".)
3. Connect wiring (see fig. 5 or 5a).
4. Mount the grille on to the adapter plate by first engaging the two slots in the bottom of the grille with the two tabs in the bottom of the adapter plate. Then use the # 6 x 1-1/4" self tapping screw to attach the grille to the adapter plate.
5. Test unit for proper operation.

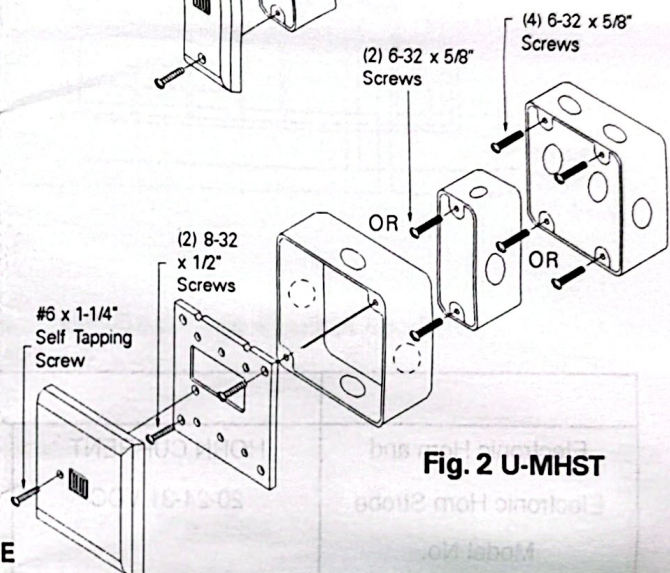


Fig. 2 U-MHST

CERBERUS PYROTRONICS™ U-MHST-() HORN/STROBE (Fig. 3)

1. Pull the wires from the outlet box through the large opening in the adapter plate.
2. Mount the adapter plate to the electrical box using the appropriate screws provided. Make sure that the adapter plate is mounted in the upright position. (Note: When using a single gang outlet box make sure to use the holes labeled "single gang".)
3. Connect wiring (see fig. 6 or 6a).
4. Mount the grille on to the adapter plate by first engaging the two slots in the bottom of the grille with the two tabs in the bottom of the adapter plate. Then use the # 6 x 5/8" self tapping screw to attach the grille to the adapter plate.
5. Test unit for proper operation.

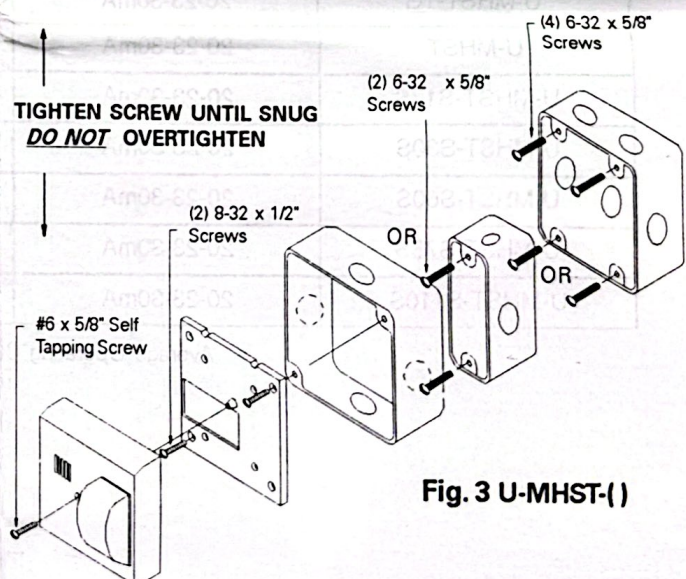


Fig. 3 U-MHST-()

Siemens Building Technologies, Inc.
8 Fernwood Road
Florham Park, New Jersey 07932

- screw to attach the girth to the adapter plate.
5. Test unit for proper operation.

Electronic Horn and Electronic Horn Strobe Model No.	CURRENT CHART		
	HORN CURRENT 20-24-31 VDC	STROBE CURRENT 20-24-31 VDC	TOTAL CURRENT 20-24-31 VDC
U-MHST-1G	20-23-30mA	N/A	20-23-30
U-MHST	20-23-30mA	N/A	20-23-30
U-MHST-S17S	20-23-30mA	59-59-62	79-82-92
U-MHST-S30S	20-23-30mA	88-88-93	108-111-123
U-MHST-S60S	20-23-30mA	156-154-163	176-177-184
U-MHST-S75S	20-23-30mA	175-170-163	195-193-193
U-MHST-S110S	20-23-30mA	257-249-239	277-272-269

Average Operating Current FWR & DC.

NOTE: UNITS TO BE ONLY INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODES.

DO NOT LOOP WIRE, CUT WIRE RUN TO PROVIDE ELECTRICAL SUPERVISION

Terminals are designed to accept no larger than 12 ga. wire.

Typical Wiring for U-MHST-1G Unit with SCM-F Sync Control Module

Polarity Shown In Alarm Condition

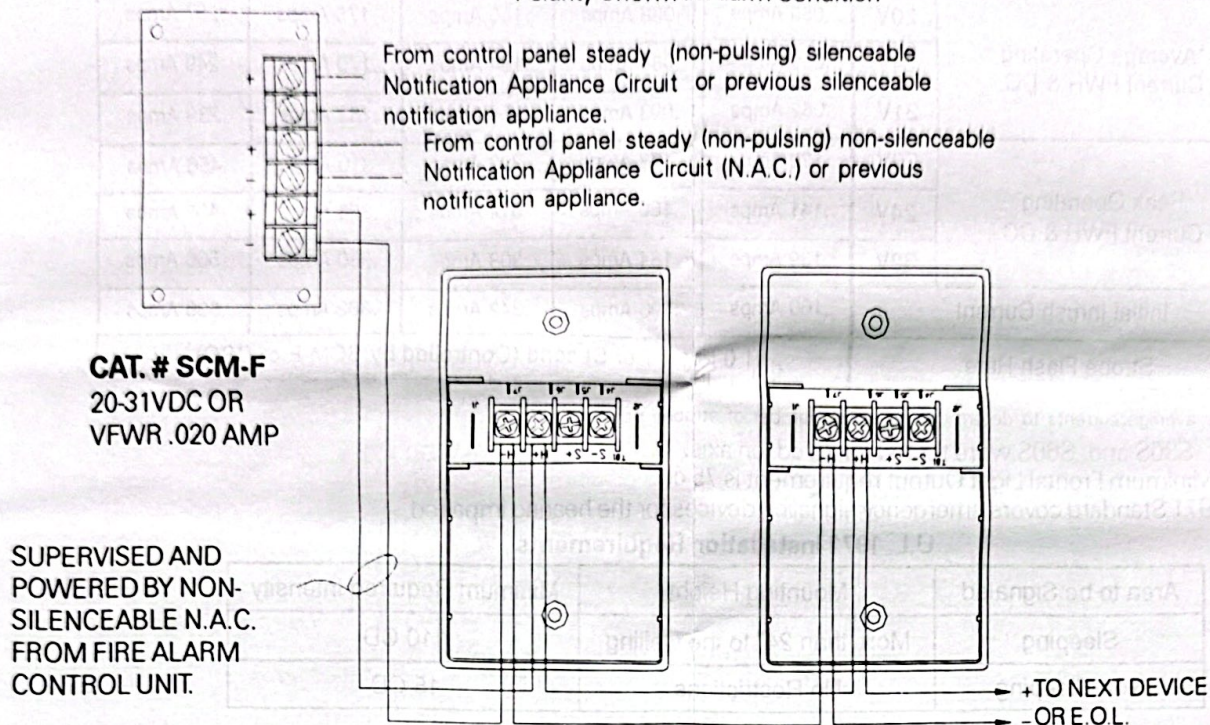


Fig. 4

Typical Wiring for U-MHST-1G Unit with DSC Dual Sync Control Module

Polarity Shown In Alarm Condition

From control panel steady (non-pulsing or pulsing) silenceable Notification Appliance Circuit or previous silenceable notification appliance.

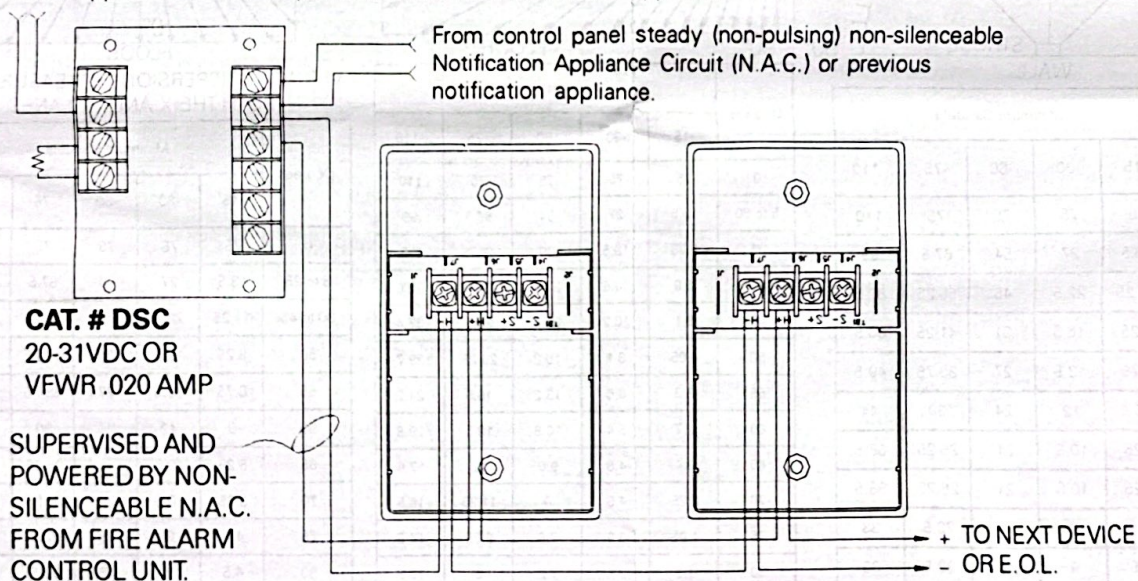


Fig. 4a

NOTE: UNITS TO BE ONLY INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODES.

DO NOT LOOP WIRE. CUT WIRE RUN TO PROVIDE ELECTRICAL SUPERVISION

Terminals are designed to accept no larger than 12 ga. wire.

Typical Wiring for U-MHST Unit with SCM-F Sync Control Module
Polarity Shown In Alarm Condition

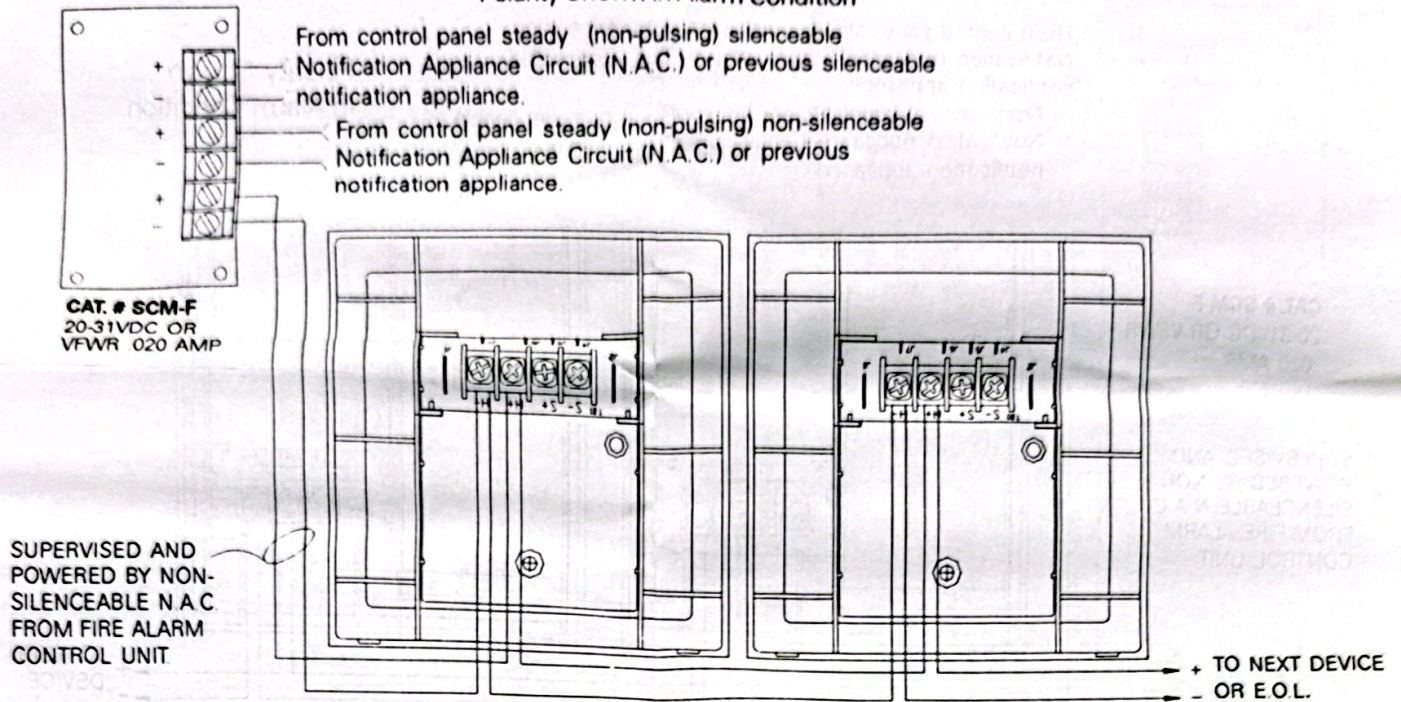


Fig. 5

Typical Wiring for U-MHST Unit with DSC Dual Sync Control Module
Polarity Shown In Alarm Condition

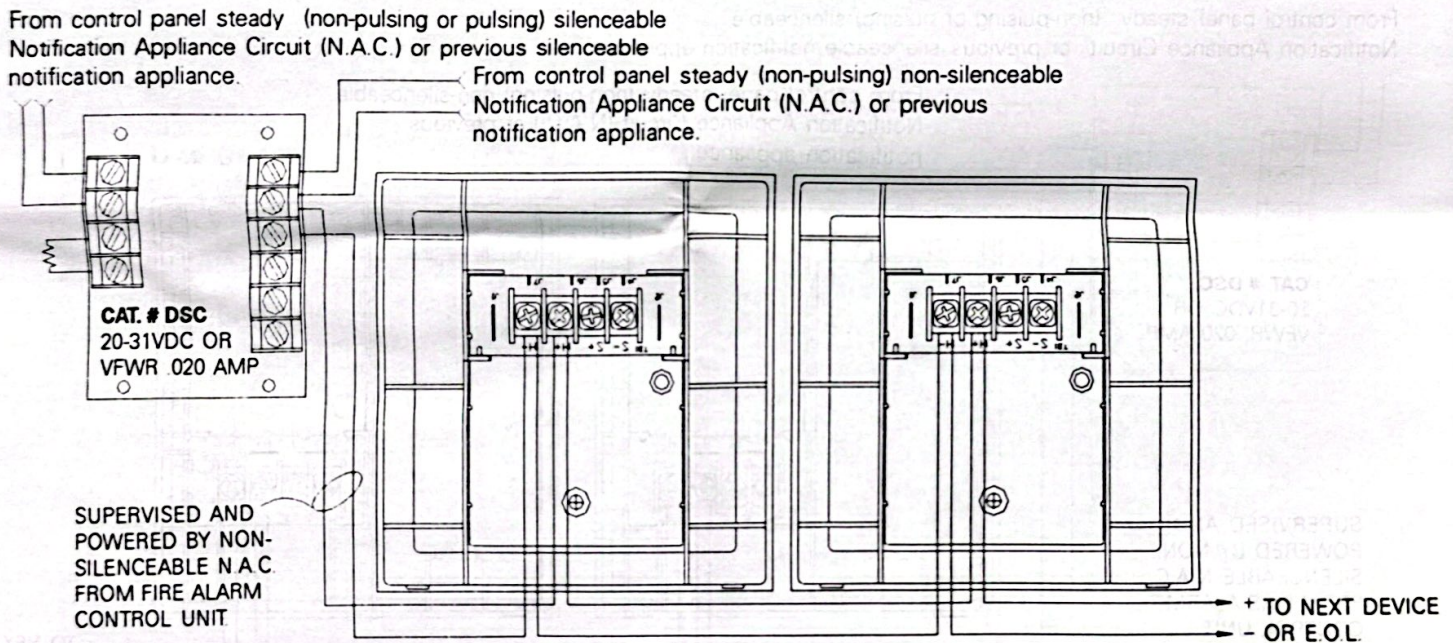


Fig. 5a

NOTE: UNITS TO BE ONLY INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODES.

DO NOT LOOP WIRE, CUT WIRE RUN TO PROVIDE ELECTRICAL SUPERVISION

Terminals are designed to accept no larger than 12 ga. wire.

Typical Wiring for U-MHST-() Unit with SCM-F Sync Control Module

Polarity Shown In Alarm Condition

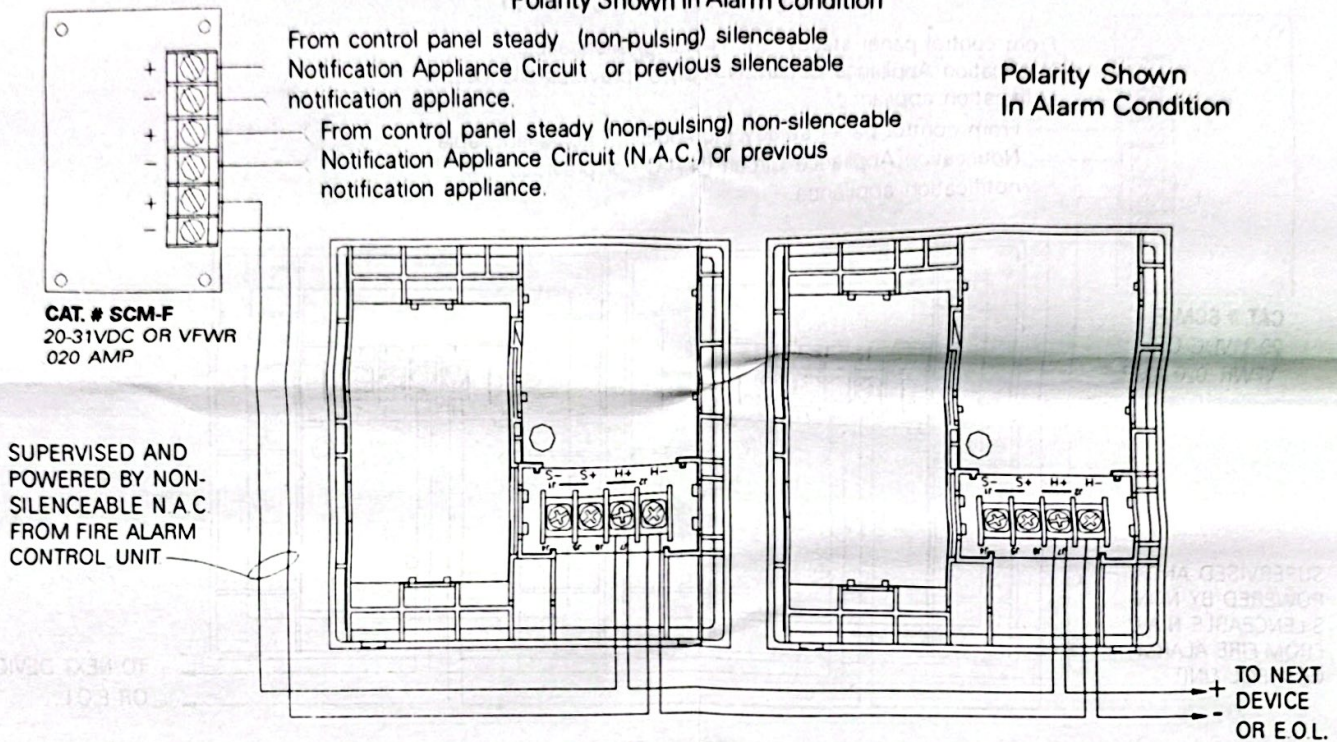


Fig. 6

Typical Wiring for U-MHST-() Unit with DSC Dual Sync Control Module

Polarity Shown In Alarm Condition

From control panel steady (non-pulsing or pulsing) silenceable Notification Appliance Circuit or previous silenceable notification appliance.

From control panel steady (non-pulsing) non-silenceable Notification Appliance Circuit (N.A.C.) or previous notification appliance.

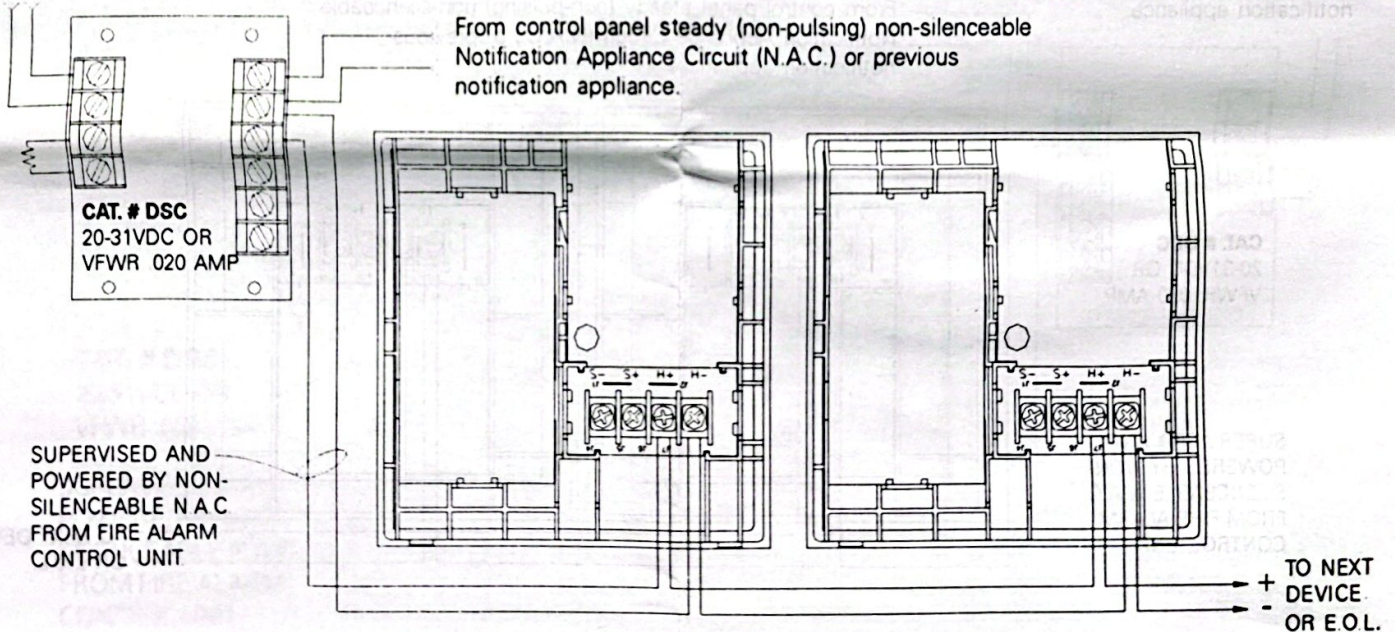


Fig. 6a

Catalog Number with Suffix		-S17S	-S30S	-S60S	-S75S	-S110S
Listed UL 1971 Output		15 cd	30 cd	60 cd	75 cd	110 cd
Light Output, on Axis		75 cd	75 cd	75 cd	75 cd	110 cd
Operating Voltage		20 - 31 VDC of VFWR				
*Average Operating Current FWR & DC	20V	.059 Amps	.088 Amps	.156 Amps	.175 Amps	.257 Amps
	24V	.059 Amps	.088 Amps	.154 Amps	.170 Amps	.249 Amps
	31V	.062 Amps	.093 Amps	.154 Amps	.163 Amps	.239 Amps
Peak Operating Current FWR & DC	20V	.129 Amps	.173 Amps	.292 Amps	.310 Amps	.456 Amps
	24V	.141 Amps	.180 Amps	.312 Amps	.326 Amps	.436 Amps
	32V	.139 Amps	.184 Amps	.308 Amps	.350 Amps	.566 Amps
Initial Inrush Current		.160 Amps	.196 Amps	.342 Amps	.362 Amps	.636 Amps
Strobe Flash Rate		1.0 to 1.1 Per Second (Controlled by SCM-F or DSC)				

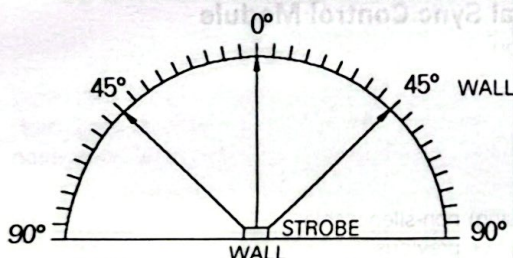
- * Use average currents to determine maximum number of strobes per circuit.
- S17S, -S30S and -S60S were tested for 75 cd. on axis.
- ADA Minimum Frontal Light Output requirement is 75 cd.
- U.L. 1971 Standard covers emergency signaling devices for the hearing impaired.

U.L. 1971 Installation Requirements

Area to be Signaled	¹ Mounting Height	² Minimum Required Intensity
Sleeping	More than 24" to the Ceiling	110 CD
Non-Sleeping	No Restrictions	15 CD

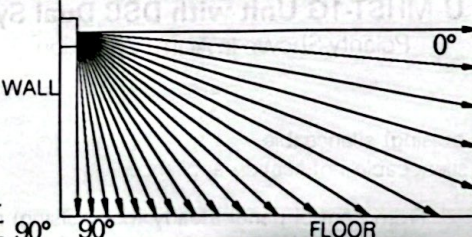
- Distance to ceiling is measured from the top of the signal light lens to the ceiling
- The values noted for required intensity are expressed in minimum candela - effective intensity.

UL 1971 HORIZONTAL DISPERSION



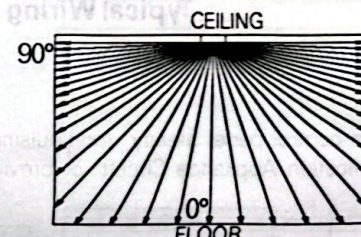
Degrees	Minimum Candela				
	-15	-30	-60	-75	-110
0	75	75	75	75	110
5 to 25	13.5	27	54	67.5	99
30 to 45	11.25	22.5	45	56.25	82.5
50	8.25	16.5	31	41.25	60.5
55	6.75	13.5	27	33.75	49.5
60	6	12	24	30	44
65	5.25	10.5	21	26.25	38.5
70	5.25	10.5	21	26.25	38.5
75	4.5	9	18	22.5	33
80	4.5	9	18	22.5	33
85	3.75	7.5	15	18.75	27.5
90	3.75	7.5	15	18.75	27.5

UL 1971 VERTICAL DISPERSION



Degrees	Minimum Candela				
	-15	-30	-60	-75	-110
0	75	75	75	75	110
5 to 30	13.5	27	54	67.5	99
35	9.75	19.5	39	48.75	7.5
40	6.9	13.8	27.6	34.5	50.6
45	5.1	10.2	20.4	25.5	37.4
50	4.05	8.1	16.2	20.25	29.7
55	3.3	6.6	13.2	16.5	24.2
60	2.7	5.4	10.8	13.5	19.8
65	2.4	4.8	9.6	12	17.6
70	2.25	4.5	9	11.25	16.5
75	1.95	3.9	7.8	9.75	14.3
80	1.8	3.6	7.2	9	13.2
85	1.8	3.6	7.2	9	13.2
90	1.8	3.6	7.2	9	13.2

UL 1971 CEILING DISPERSION



VERTICAL DISPERSION IS MEASURED IN BOTH THE X AND Y PLANES

Degrees	Minimum Candela				
	-15	-30	-60	-75	-110
0	75	75	75	75	110
5 to 25	13.5	27	54	67.5	99
30 to 45	11.25	22.5	45	56.25	82.5
50	8.25	16.5	31	41.25	60.5
55	6.75	13.5	27	33.75	49.5
60	6	12	24	30	44
65	5.25	10.5	21	26.25	38.5
70	5.25	10.5	21	26.25	38.5
75	4.5	9	18	22.5	33
80	4.5	9	18	22.5	33
85	3.75	7.5	15	18.75	27.5
90	3.75	7.5	15	18.75	27.5