

SYNCHRONIZATION MODULE

SMD10-3A

INSTALLATION INSTRUCTION

SIGNALING



We recommend use of this product in accordance with installation instructions provided in this manual.

Fire Alarm Equipment
Visual Appliance Accessory for the Hearing Impaired

INST. SHT. No. SMD103A-H1003 S100618-1/4

GENERAL DESCRIPTION

AMSECO's SMD10-3A is designed to provide operation of synchronized temporal pattern (code 3) tones and synchronized strobe flashes on all AMSECO series Select-A-Horn, Select-A-Horn/Strobe and Select-A-Strobe, as well as the ability to silence the horn while maintaining the strobe flashes. It 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.

SMD10-3A can be interconnected so that more than two alarm zones can be synchronized by connecting SYNC terminals as shown in the wiring Fig.6 and 7 (Daisy chain connection).

The Max number of interconnected SMD10-3A is twenty (20).

All input are polarized for compatibility with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (F.A.C.P.).

SMD10-3A is available in standard red color.

The SMD10-3A can be interconnected so that more than two alarm zones can be synchronized by connecting the sync terminals (daisy chain connection). The maximum number of interconnected modules is twenty.

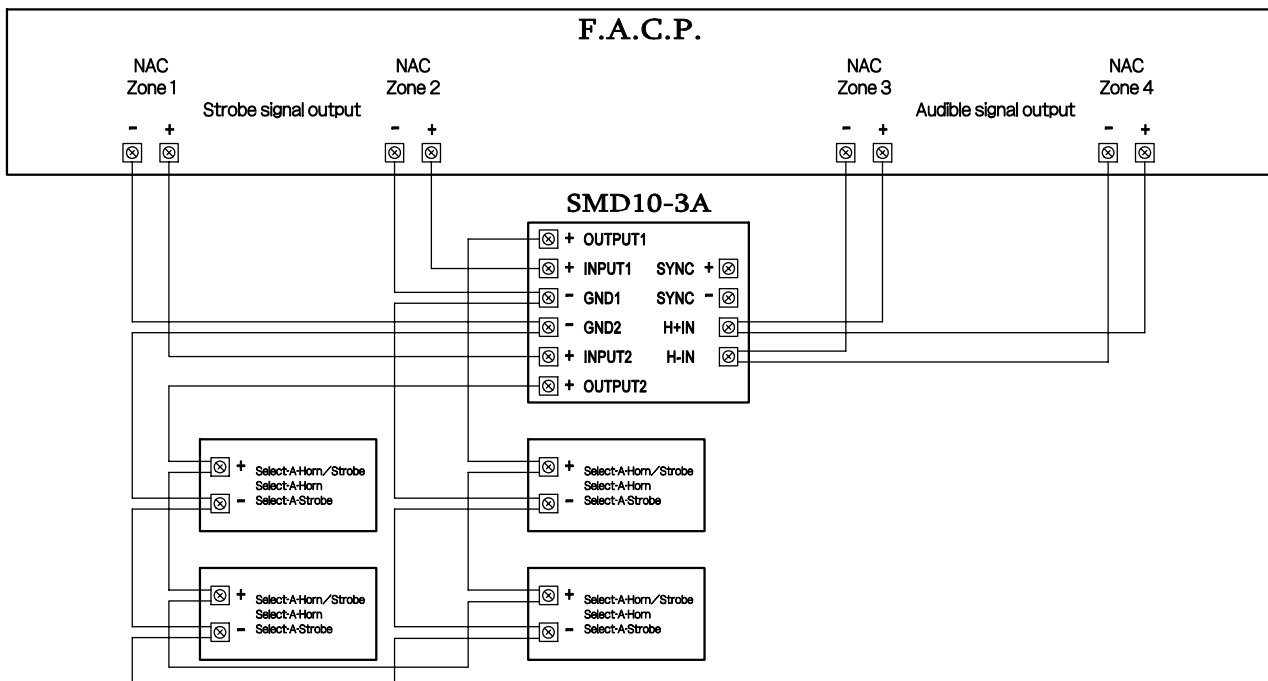
All inputs are polarized for compatibility with standard reverse polarity supervision of circuit wiring for F.C.A.P.

For additional compatibility informations refer to Compatibility document 5401513 Rev A.

WIRING DIAGRAM

Fig.1

Wiring Diagram for One Class "A" Circuit.



Note 1: The SMD10-3A terminals will accept two #12 to #18 AWG wires per terminal.

Use SMD10-3A Sync module only on NAC circuit with continuous applied voltage.

The total length of wire connection of the SMD10-3A's Sync terminal should not exceed '2,000ft of #18AWG overall between the first and last SMD10-3A (The Max. impedance is 14 ohms). If this limit is exceeded, loss of synchronization between SMD10-3A's may result.

Do not loop wires under terminal. Use both terminals (or leads) for connection.

Break wire run to provide electrical supervision.

Note 2: In Canada, installation should be in accordance with

- 1) CAN/ULC-S524-06
- 2) Canadian Electrical code, Part 1.
- 3) Final acceptance subject to Authorities Having Jurisdiction.

Fig.2

Wiring Diagram for Two Class "B" Circuit with audible silence feature.

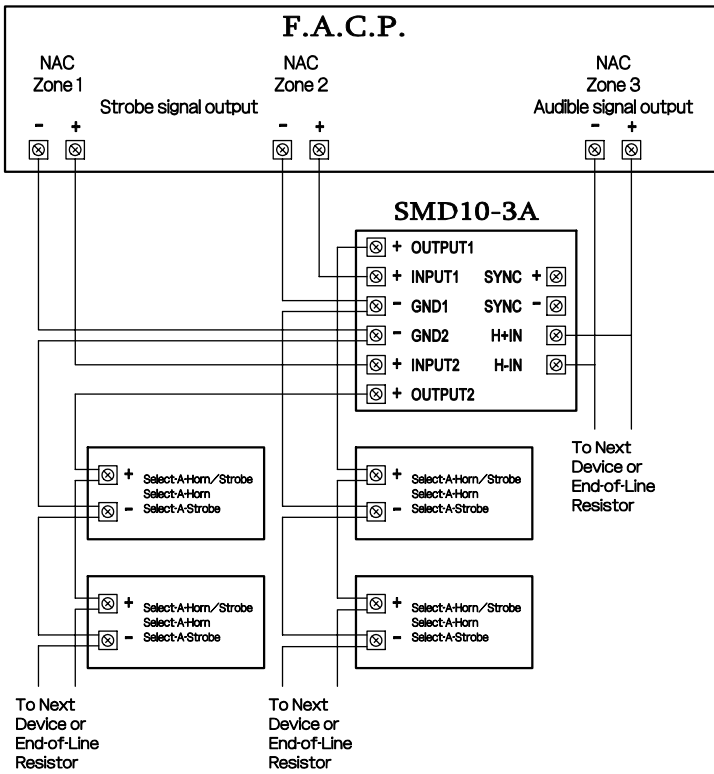
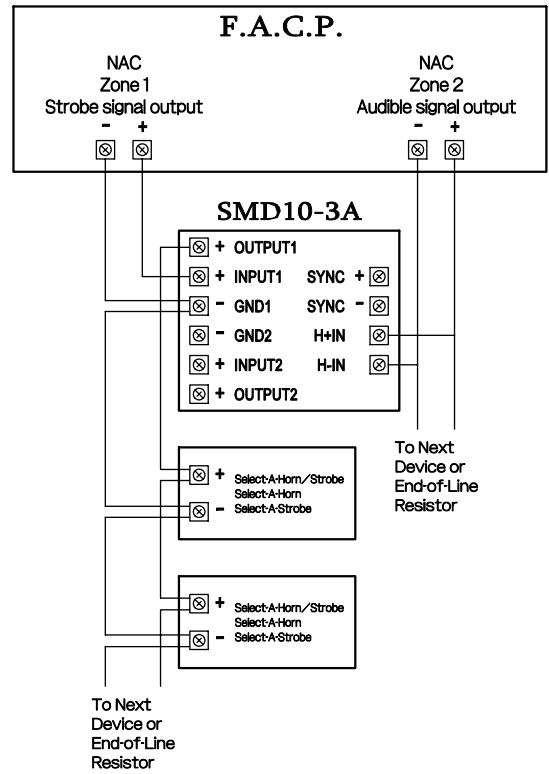


Fig.3

Wiring Diagram for One Class "B" Circuit with audible silence feature.



Note : INPUT1 must be powered continuously for OUTPUT2 operation.

Fig.4

Wiring Diagram for Two Class "B" Circuit with no audible silence feature.

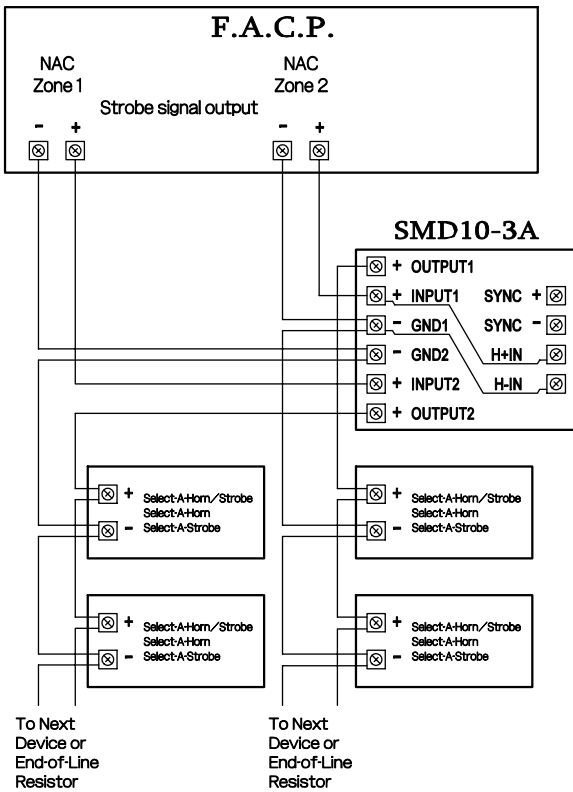


Fig.5

Wiring Diagram for One Class "B" Circuit with no audible silence feature.

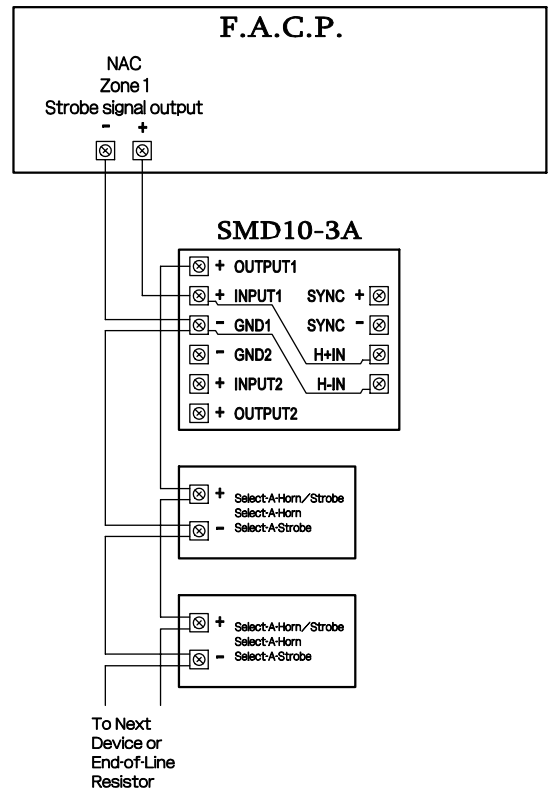
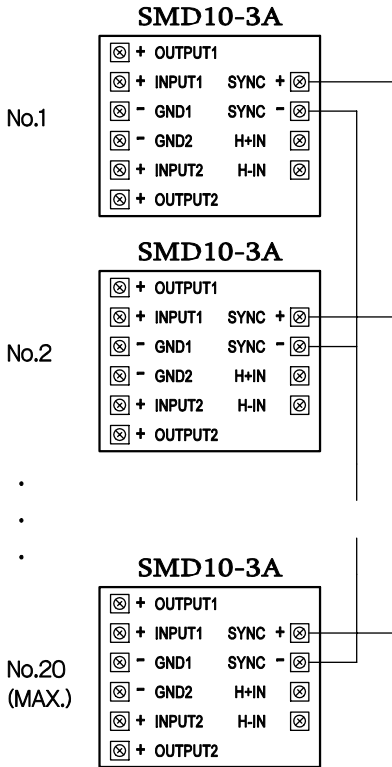


Fig.6

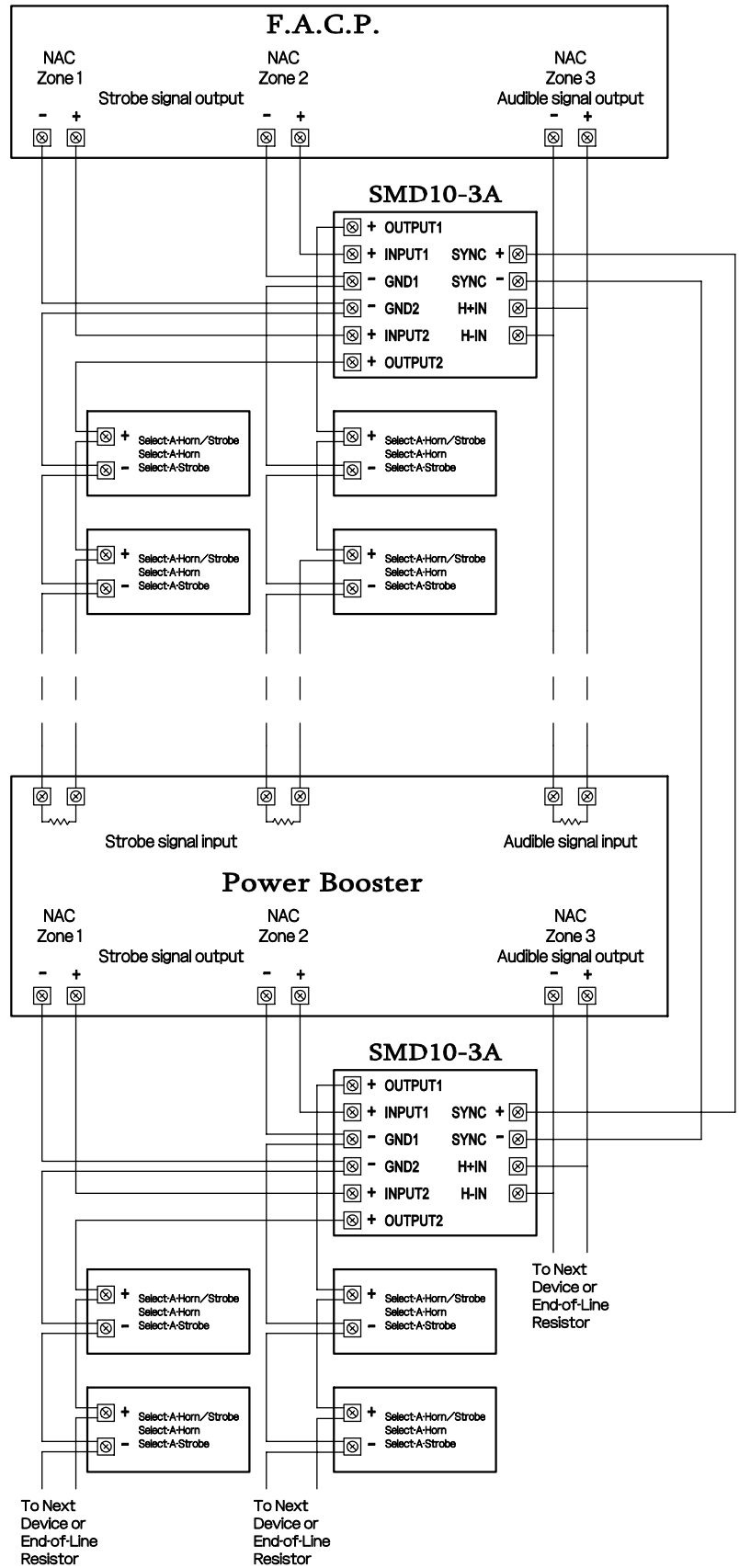
Wiring diagram for Synchronization with more than two alarm zones.



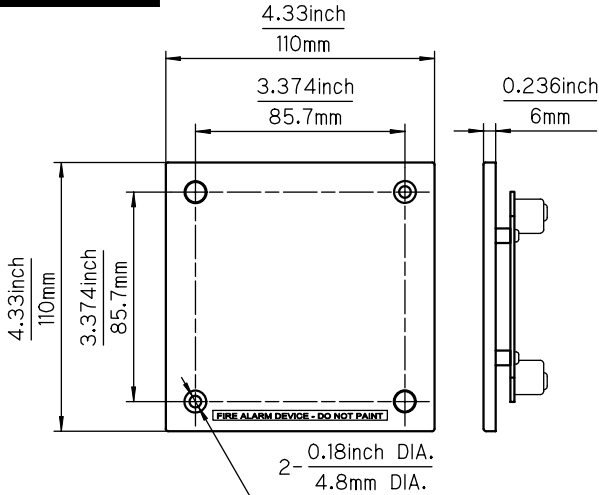
Note : When the connection between two or more synchronization modules is disconnected or loses continuity, the strobe lights connected to one synchronization module may not be synchronized with the strobe lights on a different synchronization module

Fig.7

Wiring Diagram for Four Class "B" Circuit.



DIMENSIONS



INSTALLATION

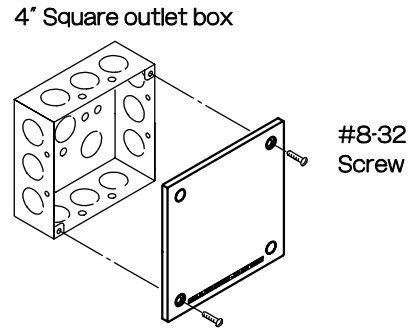


Table 1

Select-A-Horn/Strobe	Select-A-Horn	Select-A-Strobe
SH24W-153075	H24W	SL24W-153075
SH24W-75110	H-1224W	SL24W-75110
SH-1224		SL-1224
SH-24H		SL-24H
SH24C-3075110		SL24C-3075110
SH24C-177		SL24C-177
SHB24-75		SLB24-75
		SA24-153075
		SA24-75110
		SAD/RSD24-153075
		SAD/RSD24-75110
Chime/Select-A-Strobe	Chime	
SCM24W-153075	CM24W	
SCM24W-75110	CM24C	
SCM24C-3075110		
SCM24C-177		

The maximum sync wire impedance between any adjacent SMD10-3A is 14 ohm.

MAXIMUM WIRE DISTANCE (Includes wire to and from appliance. In Feet) = $\frac{(\text{PANEL VOLTAGE} \cdot \text{APPLIANCE MIN. VOLT}) \times \text{WIRE CONDUCTIVITY}}{\text{TOTAL CURRENT DRAW}}$

WIRE	CONDUCTIVITY
18AWG	60
16AWG	95
14AWG	153
12AWG	244

CAUTION : Applies only to regulated supplies. Assumes all appliance are at the end of wire run (worst case).

NOTE : For maximum number of strobe lights for a synchronization system, refer to installation instruction of SELECT-A-HORN/STROBE and SELECT-A-STROBE.

SPECIFICATIONS

Voltage	24V
UL designation	Regulated 24 DC/FWR
Operating Voltage Range	16~33 VDC, 16~33 VFWR
Maximum Load on Loop	3A Average (Maximum 5A Peak)
Operating Temperature Range	32~120° F (0~49° C)
Weight	4oz (115g)
Construction	INDOOR USE

Max. RMS Operating Current (mArms)	
Regulated 24 DC	Regulated 24 FWR
34	68

Note : UL and ULC current values have different standards-UL1971 and CAN/ULC-526.

Note : The total current required by all devices connected to the SMD10-3A shall not exceed 3.0 Amps. average, and not exceed 5.0 Amps. peak. The SMD10-3A shall be connected to circuits that provide continuous power voltage. (Do not use SMD10-3A on coded or interrupted circuits where the voltage is cycled on and off.)

INST. SHT. No. SMD103A-H1003 S100618-4/4

P POTTER
The Symbol of Protection

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