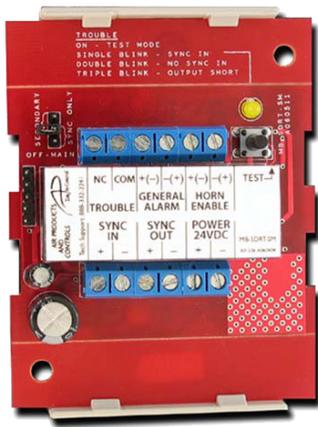


Multi Flex Sounder Base

Sounder Base: VF4990-0M Synchronization Module: VF4994-00



Standard Features

- Compatible panel silence functions
- Sync network "self tests" to ensure synchronized output if "upstream" sync signal is lost
- Sounders will operate in "failsafe" mode if sync network is compromised
- Sync modules available in MR-1 enclosures, snap track or chassis mount for standard 2-gang box
- Intelligent trouble reporting via onboard Trouble LED



USCG Type Approved
161.002/A53/0

Overview

The Multi-Flex family of the smoke detector sounder cases and synchronization modules provide today's most advanced functionality and performance, delivering flexible notification capabilities for Apollo conventional and analog addressable systems.

The bases offer selectable steady or temporal pattern output and selectable high or low volume levels. The three-pulse temporal pattern is required by NFPA 72 for fire alarm evacuation for commercial and residential applications.

Available synchronization modules (SM) allow temporal pattern sounder base circuits to be completely synchronized and installed in almost limitless configurations, and also provide an onboard latching test function.

The sounder base requires an external 24VDC power supply. In the absence of a synchronization module, a means for polarity reversal is required for test and general alarm functionality. The connections for the external power supply and the communication loop are opto-isolated to prevent electrical interaction between them.

Technical Specifications - Multi Flex Sounder Base

Sounder Base Part Number	VF4990-0M	VF4994-00
Compatible Smoke Detectors	Analog Addressable (Discovery or XP95A)	Conventional (Series 65 or Series 60A)
Sounder Base Operating Voltage	17-30VDC (24VDC nominal)	
Sounder Base Alarm Currents	External Supply: 29mA @ 24VDC Associated Detector: 8mA @ 24VDC	
Sounder Base Standby Current	0.03mA @ 24VDC	
Sounder Base Audible Intensity	High Volume Selection: 85dB @ 10 feet Low Volume Selection: 75dB @ 24VDC	
Wiring	Solid or Stranded; #12 to #22 AWG Terminals	
Environmental	32°F to 100°F (0°C to 38°C) 0% to 85% RH; Non-Condensing/Non-Freezing	
Material	Makrolon 6455 or 6555 (polycarbonate); 94V-0	
Dimensions	6" L x 6" W x 1.6" D (152mm x 152mm x 41mm)	
Approvals	UL Listed File Pending - CSFM Pending - MEA Pending	

Technical Specifications - Multi Flex Synchronization Module

	MD-SDRT-SM/G	MB-SDRT-SM/G/R	MB-SDRT-SM/T	MB-SDRT-SM/C	MB-SDRT-SM/C/R
Two-Gang Box Mounted (H x W x D)	3.3" (83.82mm) 2.6" (66.04mm) 0.77" (19.56mm)				
Track Mounted (H x W x D)			3.4" (87mm) 2.75" (69.85mm) 1.22" (30.99mm)		
Enclosure Mounted (H x W x D)				5.13" (131mm) 3.13" (80mm) 2.5" (64mm)	
Cover Material	White ABS Plastic; 94V-0	Red ABS Plastic;		Gray ABS Plastic; 94V-0	Red ABS Plastic; 94V-0
Enclosure/Mounting Details	Metal 2-Gang Mounting Chassis with Appropriate Wall Plate Cover		Low-profile Snap-Track with Provided Mounting Screws	18Ga. CRS, Plated with 1/2 " Conduit Knockouts, Top and Bottom	
Operating Voltage Range	17-30VDC FWR Unfiltered (24VDC nominal)				
Current Requirements	24VDC - Power Circuit (SM): 16mA Standby; 16mA Alarm SIL NAC - Silence Circuit (SM): 7.5mA Standby; 2mA Alarm SYNC IN - Synchronization Signal In (SM): 4mA Standby; 15mA Alarm				
Input/Output Details	<p>TROUBLE: Always FACP monitored and reported as trouble or supervisory in all program modes. Dry N.O. contact held closed by the Powerover 24VDC input being present and the internal module circuitry being fully operational. Also supervises the presence of a sync in signal when module is programmed in the "secondary" or "sync only" modes. It is not used when the module is programmed in the "main" mode.</p> <p>GENERAL ALARM: 24VDC steady or pulsed, silenceable, polarized FACP NAC Input. This input is used only when the module is programmed in the "main" or "sync only" modes. When the connected NAC is in the alarm state the module will provide a general alarm signal to all associated sounder/relay bases, causing them to sound if a horn enable alarm input is also present.</p> <p>HORN ENABLE: 24VDC steady or pulsed, silenceable polarized FACP NAC input. This input is used only when the module is programmed in the "main" or "sync only" modes. When the connected NAC is in the alarm state the module will be active and ready to accept a general alarm input. The status of the connected NAC will also be monitored for subsequently being silenced from the FACP and will provide that signal to all associated sounder bases, causing them to silence. Subsequent alarms will resound as signalled from the FACP NAC connected to this input.</p> <p>SYNC IN: 24VDC/protocol feed input from associated module programmed in the "main", "secondary" or "sync only" mode. This input is always used when the module is programmed in the "secondary" or "sync only" modes. It is not used when the module is programmed in the "main" mode.</p> <p>SYNC OUT: 24VDC/protocol feed output from module in all modes. When the module is programmed in the "main" or "sync only" modes, also provides distinct horn enable and general alarm status information to all associated sounder/relay bases and any modules programmed as "secondary".</p> <p>POWER 24VDC: 24VDC power feed in always required in all modes. When the module is programmed in the "sync only" mode this input could be from a shared power supply with the associated "main" programmed module. When the module is programmed in the "secondary" mode this input will always be supplied from a new additional power source since that is the only reason it is being installed.</p>				
Intelligent Trouble Reporting	Trouble LED: ON-Test Mode SINGLE BLINK - Sync In (when in "main" mode) DOUBLE BLINK - No Sync In (when in "secondary" mode) Triple Blink - Output Short				
Wiring	Solid or Stranded; #12 to #22 AWG Terminals				
Environmental	32°F to 100°F (0°C to 38°C) 0% to 85% RH; Non-Condensing/Non-Freezing				
Approvals	UL Listed File Pending - CSFM Pending - MEA Pending				