## **5** Simplex

UL, ULC, CSFM Listed; FM Approved; MEA (NYC) Acceptance\*

## True Alert Notification Appliances

Smart Sync Control Module and Strobe Synchronization Modules

#### **Features**

# Convert conventional Notification Appliance Circuits (NACs) into SmartSync circuits or synchronized strobe circuits:

- Simplex<sup>®</sup> SmartSync Control Modules combine separate horn and strobe NAC inputs into a 2-wire control that can silence horns while maintaining synchronized strobe operation
- Synchronized Flash Modules provide a 2-wire synchronized strobe output that also operates compatible 24 VDC conventional reverse polarity notification appliances

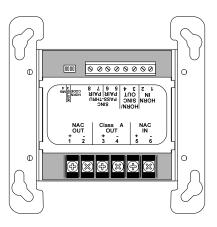
# SmartSync Control Module (SCM) provides two-wire control to separately activate horns and strobes:

- Operation allows "on-until-silenced" and "on-until-reset" on the same two-wire pair while maintaining supervision continuity
- SmartSync horns sound as Temporal or March Time pattern, or continuous, controlled separately from strobes on the same circuit
- Strobes on the same circuit operate at a synchronized 1 Hz flash rate
- Output is either Class B or Class A

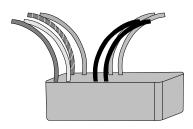
#### Conventional strobe synchronization models:

- Encapsulated package with color coded wire leads provides 1 Hz strobe synchronization and maintains supervision continuity
- Conventional horns and other DC appliances operate on the same 2-wire circuit
- Models are available with Class B or Class A output
- Small size allows convenient mounting

#### **UL listed to Standard 1971**



4905-9938 SmartSync Control Module (SCM), Shown Approximately 1/2 Size



4905-9922, Class A Synchronized Flash Module, Shown Approximately 1/2 Size

## Smart Sync Control Module (SCM)

**Model 4905-9938 SCM** (SmartSync Control Module) converts two conventional NAC inputs into a SmartSync two-wire NAC output. One NAC can be programmed to operate as "on-until-silenced" and would be designated as the horn control (non-coded, on continuously during alarm). A second NAC would be programmed to provide "on-until-reset" operation and would be for the visible appliance (strobe) control (also non-coded, on continuously during alarm). Power is supplied by the strobe control NAC.

#### Selectable Horn output and Synchronized

**Strobes.** In addition to operating the strobe and the horn independently, the SCM can be switch selected to operate the horns as temporal coded, march time coded (60 beats/minute), or on continuously. Strobes are activated with 1 Hz synchronized flashes.

These products have been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7125-0026:198 and 7125-0026:235 for allowable values and/or conditions concerning material presented in this document. Accepted for use – City of New York Department of Buildings – MEA35-93E. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

### **Additional SCM Features**

**Multi-Sync Mode.** Up to eight SCMs can be interconnected to synchronize system notification. Interconnected SCMs are supervised for proper circuit connection. The horn input NAC powers the Multi-Sync function.

**Isolated NAC Inputs.** Both NAC inputs are isolated from each other and can be supplied from different control panels.

Class B (Style Y) and Class A (Style Z) output operation are both supported.

**Earth fault detection** is provided by the strobe control NAC during supervision mode.

For additional information refer to Installation Instructions 574-719.

## Synchronized Flash Modules

**Model 4905-9914 and 4905-9922** add the required control to activate Simplex synchronized strobes for NACs that do not provide that control. Conventional horns or other compatible 24 VDC notification appliances on the same circuit ignore strobe synchronization and operate when the NAC is in alarm.

For additional information refer to Installation Instructions 579-232.

#### **Product Selection**

Model	Description	Package Details		
4905-9938	SmartSync Control Module, Class A or Class B output	Dimensions: 4" x 4-1/8" x 1-1/4" D (102 mm x 105 mm x 32 mm); mounts in 4" (102 mm) square box  Dimensions: 1-3/8" x 2-7/16" x 13/16" D (35 mm x 62 mm x 20 mm); epoxy encapsulated with 8" (203 mm) in/out 18 AWG (0.82 mm²) wire		
4905-9914	Class B Synchronized Flash Module			
4905-9922	Class A Synchronized Flash Module	leads; rated for 2 A NAC; requires 5 mA for power		
4090-9813	Adapter plate to fit 4 11/16" (119 mm) square electrical box			

### **Specifications**

General Specifications						
Temperature Range	32° to 122° F (0° to 50° C)					
Humidity Range	10% to 93%, non-condensing at 100° F (38° C)					
4905-9938 SmartSync NAC Modules (for use with SmartSync compatible appliances)						
Input Voltage Range	16 VDC to 33 VDC; with a maximum ripple of 2 V peak-to-peak					
	2 A maximum; can be wired as Class A or Class B					
Output Ratings	Up to 35 maximum SmartSync appliances with strobes					
	Up to 40 maximum SmartSync horn-only appliances					
Strobe Control NAC Input Current	Output NAC current, plus 30 mA @ 24 VDC for SCM operating power					
Horn Control NAC Current	4 mA @ 24 VDC					
Class A Operation Mounting Requirement	Mount SCM within 20 ft (6 m) of control panel, use metal conduit					
4905-9914 & 4905-9922 Synchronizat	ion Modules					
Input Voltage Range	16 VDC to 33 VDC					
	2 A maximum output; requires 5 mA for power					
Output Ratings	Up to 35 maximum strobes per synchronized circuit					
	Mount in control panel or separate 4" (51 mm) square electrical box, 1-1/2" (38 mm) minimum depth					

## NAC Capability Reference

Control Panels/NAC Source	Available Output	Additional Module Required/Function			
4006, 4007ES Hybrid, 4008, 4010, 4010ES, 4100ES, and 4100U Series Fire	Class A or Class B Strobe Synchronization	none			
Alarm Control Panels; and 4009 IDNet NAC Extenders	Class A or Class B SmartSync operation	none			
Model Series 4003, 4004, 4005, 4100,	Conventional reverse polarity NACs, additional modules are required to control synchronized strobes and/or SmartSync	4905-9914 for Class B synchronized strobes			
4120, 4020, 4001, & 4002 Control Panels; 2190 Series Signal ZAMs; 4009 Series		4905-9922 for Class A synchronized strobes			
Conventional NAC Extenders	appliances	4905-9938 for SmartSync control			

#### **Module Reference**

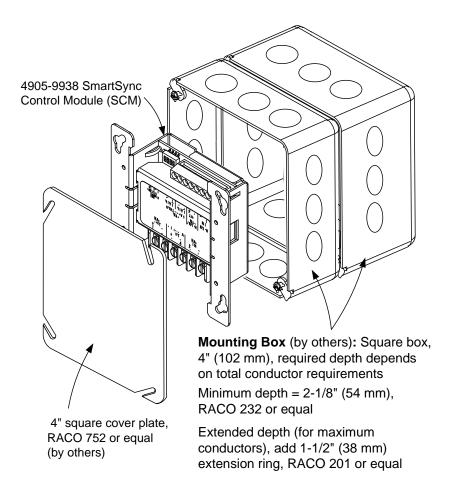
Module	Description	
4905-9938	SmartSync Control Module, provides Class A or Class B SmartSync operation	
4905-9914	Class B Strobe Synchronization Module	
4905-9922	Class A Strobe Synchronization Module	

## **Compatible Simplex Appliance Reference**

Note: Refer to specific appliance data sheets for additional compatibility and product information

Appliance Type		Model				Module Reference*
Horn	Wall mount; set for SmartSync operation	4901-9820				
Mini-Horn	Wall mount, SmartSync operation only	4901-9858		4	901-9859	
Chime	Wall mount, SmartSync operation only	4902-9210		4	902-9211	4905-9938
Multi-Tone Horn, w/520 Hz Tone	Wall mount, set for <b>SmartSync</b> operation	49CMT-WRF	49CMT-WWF 49CM		49CMT-APPLW	
Multi-Tone Horn, w/500 Hz Tone	Wall mount, set for <b>SmartSync</b> operation	4901-98	4901-9856		901-9857	
Strobes	Wall mount; synchronized; also <b>SmartSync</b> operation compatible	4904-9331 4904-9332 4904-9333 4904-9342 4904-9343	4904-9332 4906-9101 4906-9108 4904-9333 4906-9103 4906-9109 4904-9342 4906-9105 4906-9111		4905-9914 4905-9922 4905-9938 for	
	Ceiling mount; selectable for synchronized flash; also <b>SmartSync</b> operation compatible	4904-9183 4904-9345 4904-9184 4904-9346 4904-9185 4906-9102		346	4906-9104 4906-9110 4906-9112	SmartSync operation
	Wall mount; horn and strobe can be wired separately (4-wire); strobes are selectable for synchronized flash	4903-9425 4903-9426	4903-9427 4903-9431		4903-9432 4903-9433	4905-9914 4905-9922
A/V	Wall mount; SmartSync operation only	4903-9331 4903-9332 4903-9333 4903-9342	4903-9343 4903-9344 4906-9127 4906-9129		4906-9131 4906-9132 4906-9139 4906-9141	4905-9938
Horn/Strobe	Ceiling mount; SmartSync operation only		4906-9128 4906-9130		4906-9140 4906-9142	
	Rectangular case wall mount; horn and strobe can be wired separately (4-wire); strobes are selectable for synchronized flash	4903-9252 4903-9253 4903-9254	3 4903-9258		4903-9256	4905-9914 4905-9922
A/V Multi-Tone Horn/Strobe	500 Hz, Wall mount; <b>SmartSync</b> operation only	4906-9137		4	1906-9138	
A/V Multi-Tone Horn/Strobe	520 Hz, Wall mount; <b>SmartSync</b> operation only	49CMTV-WRF	49CMT	V-WWF	49CMTV- APPLW	4905-9938
A/V	Wall mount; SmartSync operation only	4906-9133		4906-9134		
Chime/Strobe	Ceiling mount; SmartSync operation only	4906-9135		4906-9136		
S/V Speaker/Strobe	Wall mount; strobes are selectable for synchronized flash	4903-9356 4903-9 4903-9357 4903-9 4903-9358 4903-9		360 4906-9151		
	Ceiling mount; strobes are selectable for synchronized flash	4903-9196 4903-9197 4903-9198			4906-9154 4906-9157	4905-9914 4905-9922
	Rectangular case wall mount; strobes are selectable for synchronized flash	4903-9148 4903-9149 4903-9150	003-9149 4903-915		4903-9194 4903-9195	

<sup>\*</sup> Modules listed are required if control panel NAC or NAC extender does not provide either synchronized strobe output or SmartSync control output as required for proper appliance operation.



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