FIRE CONTROL INSTRUMENTS

by Honeywell

MDL3RA & MDL3WA

Description

The MDL3A Module is designed to work with the SpectrAlert® and SpectrAlert Advance® series of notification appliances to provide a means of synchronizing the temporal-coded horns and chimes, synchronizing the one-second flash timing of the strobe, and silencing the horns and chimes of the horn/strobe and chime/strobes combination over a two-wire circuit while leaving the strobes active.

The Sync•Circuit® module synchronizes SpectrAlert Advance strobes at 1 Hz and horns and chimes at temporal 3 over a single pair of wires. Patented module technology also allows the silencing of horns or chimes on horn/strobe and chime/strobe models over a pair of wires

Application Flexibility. The Sync•Circuit module is designed to power and synchronize either two 3-amp circuits wired in Class B, or one 3-amp circuit powered as Class A. Should more than two zones require synchronization, additional modules can be added by interconnecting the “slave” input and output terminals between modules, or by using the “NAC” slave connection for greater module placement flexibility.

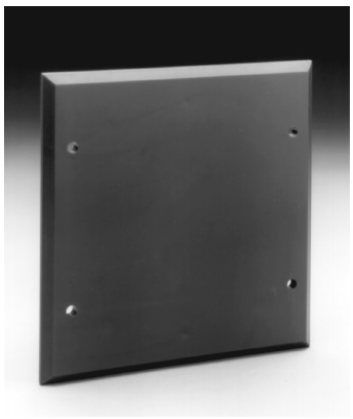
Architectural/Engineering Specifications

Synchronization Circuit Module shall be a System Sensor Sync•Circuit Model _____ listed to ULC and shall be approved for fire protective service. The module shall synchronize SpectrAlertR or SpectrAlert Advance strobes at 1 Hz and horns at temporal 3. Also, the module shall be capable of silencing the horns on horn/strobe models, while operating the strobes, over a single pair of wires. The module shall be capable of mounting to a 411.16” x 411.16” x 21.8” backbox and shall control two Style Y (class B) or one Style Z (class A) circuit. The module shall be capable of multiple zone synchronization by connecting multiple modules (slaves) together. Slaves can be driven from either the slave output of a prior MDL3A or from the NAC output of the master. Using the NAC enables all wiring to be supervised, whereas the slave-out terminals are not supervised, so their use is confined to specific applications.

Sync•Circuit™ is a trademark, and FCI®, SpectrAlert® and System Sensor® are registered trademarks of Honeywell International Inc.

ULC® is a registered trademark of Underwriters’ Laboratories of Canada.

SpectrAlert® Series
Sync Modules



MDL3A Module

Features

- Offers two-wire operation from the module to the devices
- Silences horns and chimes over a two-wire loop
- Synchronizes strobes at 1 Hz
- Synchronizes horns and chimes to temporal 3 pattern
- Patented technology
- Interconnects modules for multiple zone synchronization
- Module controls two (2) Style Y (Class B) circuits or one (1) Style Z (Class A) circuit
- New NAC slave feature enables the interconnection of slave modules over a supervised NAC loop eliminating module placement restrictions

Ordering Information

Part Number	Description
MDL3RA	Sync Module for use with SpectrAlert Series, red, for Canada
MDL3WA	Sync Module for use with SpectrAlert Series, white, for Canada

An ISO 9001-2000 Company

ULC
S5512

HONEYWELL FIRE SYSTEMS
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Specifications are for information only, are not intended for installation purposes, and are subject to change without notice. No responsibility is assumed by Honeywell Fire Systems for their use.
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Sync•Circuit Module Specifications

Physical Specifications:

Dimensions:
51.4” L x 51.4” W

Mounting:
411.16” x 411.16” x 21.8” backbox

Indoor OperatingTemperature: 32° to 120° F (0° to 49° C)

Electrical Operating Specifications:

Operating Voltage: 12 or 24 VDC and FWR unfiltered
Operating Voltage Range (12 V) 8.5 to 17.5 VDC
Operating Voltage Range (24 V) 16.5 to 33 VDC
Maximum Load on Loop 3 Amps/zone
U.S. Patent Nos. 5,598,139
5,850,178
Currents: (See Current Draw)

Current Draw								
	Average		Peak		In-Rush		NAC Slave	
	Current (mA)		Current (mA)		Current (mA)		Input (mA)	
Voltage	DC	FWR	DC	FWR	DC	FWR	DC	FWR
12	10	12	50	60	100	120	35	4
24	12	15	60	75	120	150	45	5

Table 1

Horns and Chimes Silenced Over Two-Wire Circuit

1. Any mix of Horn/Strobes, Chime/Strobes or Strobe-only devices is acceptable.
2. Horn and chime control connects to interruptible power source.

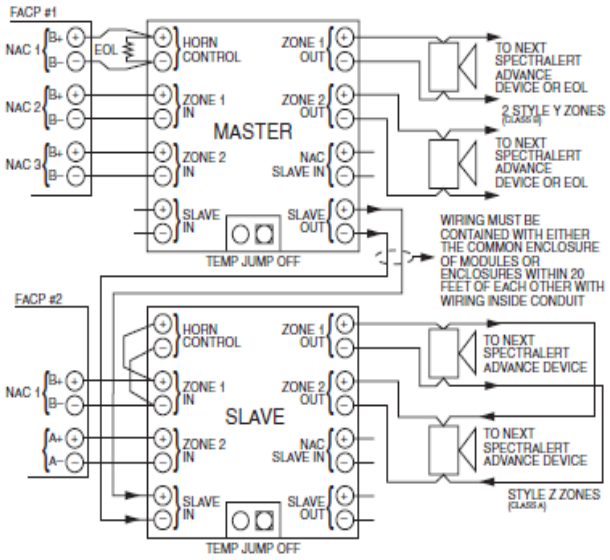


Figure 1

Master-Slave Mode

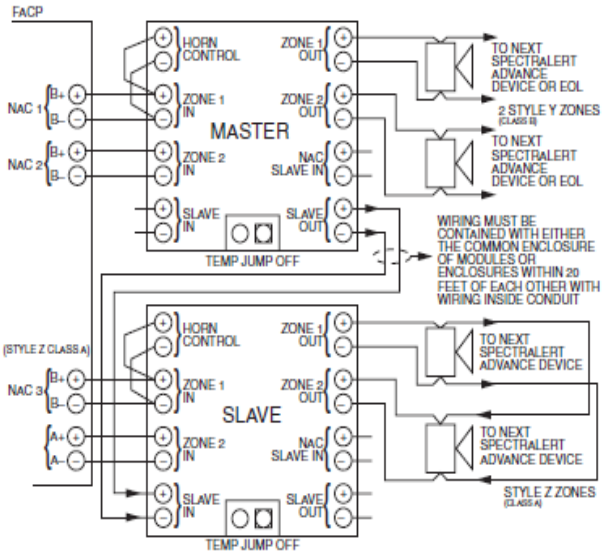


Figure 2

Master-Slave Using NAC-Slave Input

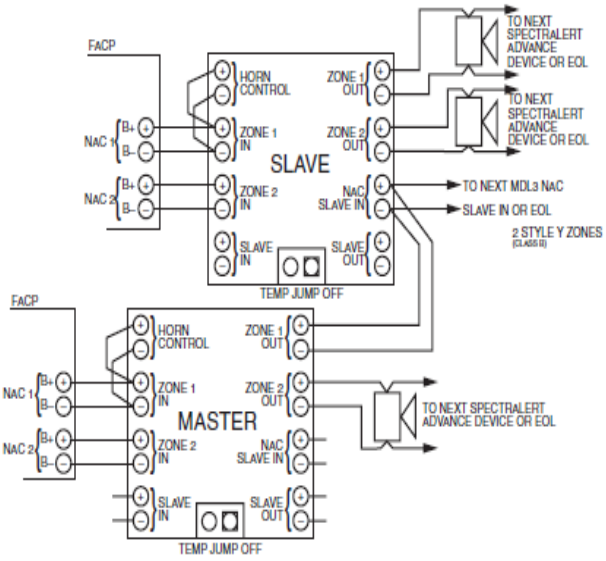


Figure 3