



## RRS-MOD Reversing Relay/ Synchronization Module

*The RRS-MOD reversing relay/synchronization module enhances the operation of 2- and 4-wire i<sup>3</sup>™ Series detectors equipped with a sounder.*



### Features

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- Is compatible with 2- and 4-wire i<sup>3</sup> detectors equipped with a sounder
- Activates all i<sup>3</sup> sounders on a loop when one alarms
- Synchronizes all i<sup>3</sup> sounders on the loop for a clear alarm signal
- Is usable with bell/alarm, alarm relay, or NAC outputs
- Has a field-selectable switch to accommodate both coded and continuous alarm signals
- Allows i<sup>3</sup> detector silencing from the panel or keypad
- Operates on 12 and 24 volt systems
- Simplifies connections with quick-connect harness and color-coded wires

**Installation ease.** The RRS-MOD reversing relay/synchronization module includes a Velcro® attachment for easy installation into the fire alarm control panel cabinet. A quick-connect harness and color-coded wires simplify connections.

**Intelligence.** The RRS-MOD module's design is flexible to accommodate virtually any application. It is compatible with both 2- and 4-wire i<sup>3</sup> Series detectors operating over 12 V and 24 V systems. The module can be used with either bell/alarm, alarm relay, or NAC outputs, and its field selectable switch accommodates both coded and continuous alarm signals.

**Instant inspection.** To meet fire alarm requirements, the RRS-MOD reversing relay/synchronization module activates all i<sup>3</sup> sounders on a loop when an individual sounder alarms. Additionally, it synchronizes the output of the i<sup>3</sup> sounders, regardless of whether the panel's alarm signal is continuous or coded, to ensure a clear alarm signal.

### Agency Listings

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# RRS-MOD Specifications

## Architectural/Engineering Specifications

Reversing relay/synchronization module shall be a System Sensor i<sup>3</sup>™ Series model number RRS-MOD, listed to Underwriters Laboratories as a smoke detector accessory. The module shall allow all 2-wire and 4-wire i<sup>3</sup> Series detectors equipped with a sounder on a loop to sound when one alarms. The module shall provide a switch to toggle between coded mode and continuous mode. When in coded mode, the module shall synchronize the i<sup>3</sup> sounders on the loop to mirror the input signal. When in continuous mode, the module shall synchronize the i<sup>3</sup> sounders on the loop to the ANSI S3.41 temporal coded pattern. In either coded or continuous modes, the RRS-MOD module shall permit sounders to be silenced at the panel. The RRS-MOD module shall operate between 8.5 and 35 VDC, and shall provide 18 AWG stranded, tinned conductors connected to a quick-connect harness.

## Physical Specifications

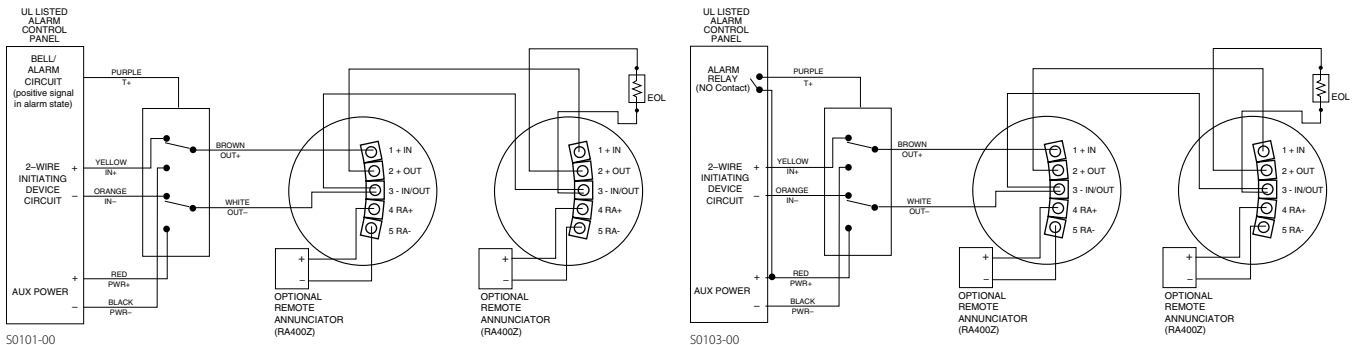
Dimensions	2.5 in H x 2.5 in W x 1 in D (63 mm x 63 mm x 25 mm)
Operating Temperature Range	32°F to 131°F (0°C to 55°C)
Wire Connections	18 AWG stranded, tinned, 16 in length
Operating Humidity Range	5% to 85% non-condensing

## Electrical Specifications

Operating Voltage	Nominal: 12/24 V Min: 8.5 V Max: 35 V
Average Operating Current:	25 mA
Relay Contact Rating	2 A @ 35 VDC

## Wiring Diagrams

NOTE: These diagrams represent two common wiring methods. Refer to the RRS-MOD installation manual for additional wiring configurations.



2-Wire System Triggered from Alarm/Bell Circuit

2-Wire System Triggered from Alarm Relay Contact

## Ordering Information

Part No.	Description
RRS-MOD	Reversing relay/synchronization module for i <sup>3</sup> Series smoke detectors



3825 Ohio Avenue • St. Charles, IL 60174  
Phone: 800-SENSOR2 • Fax: 630-377-6495

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A05-0350-001 • 8/07 • #1676