i3 Series Reversing Relay/ Synchronization Module

SYSTEM SENSOR®

Model

RRS-MOD
Reversing relay/synchronization module for i3 series sounder models

RRS-MOD

Product Overview

Compatible with 2- and 4-wire i3 detectors equipped with a sounder

Activates all i3 sounders on a loop when one alarms

Synchronizes all i3 sounders on the loop for a clear alarm signal

Can be used with bell/alarm, alarm relay, or NAC outputs

Includes a field-selectable switch to accommodate both coded and continuous alarm signals

Allows i3 detector silencing from the panel or keypad

Operates on 12- and 24-volt systems

Quick-connect harness and color coded wires facilitate connections

System Sensor's RRS-MOD reversing relay/synchronization module enhances the operation of 2- and 4- wire i3 series detectors equipped with a sounder.

Installation ease. The RRS-MOD 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's design is flexible to accommodate virtually any application. The RRS-MOD is compatible with both 2- and 4-wire i3 series detectors operating over 12V and 24V 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 activates all i3 sounders on a loop when one alarms. Additionally, the RRS-MOD synchronizes the output of the i3 sounders, regardless of whether the panel's alarm signal is continuous or coded, to ensure a clear alarm signal.

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Architect/Engineer Specifications

Reversing relay/synchronization module shall be a System Sensor i[3] 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[3] 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[3] sounders on the loop to mirror the input signal. When in continuous mode, the module shall synchronize the i[3] 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.

Electrical Specifications

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

Physical Specifications

Operating Temperature Rangez	Operating Humidity Range	Wire Connections
32°F–131°F (0°C–55°C)	5% to 85% non-condensing	18 AWG stranded, tinned, 16″ long

Dimensions

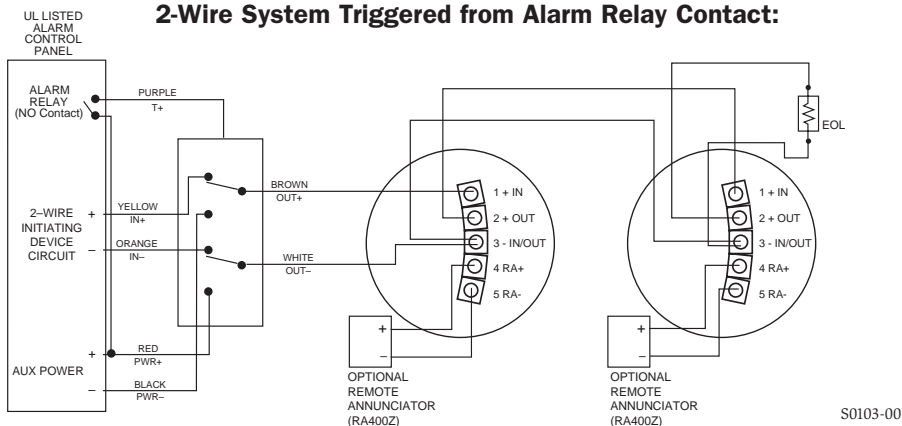Height: 2.5 inches (63 mm)
Width: 2.5 inches (63 mm)
Depth: 1 inch (25 mm)

2-Wire System Triggered from Alarm/Bell Circuit:

S0101-00
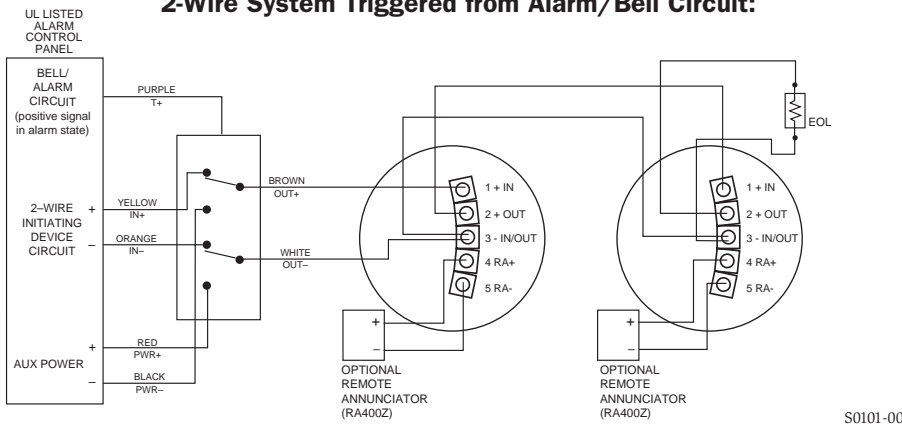
NOTE:
These diagrams represent two common wiring methods. Refer to the RRS-MOD installation manual for additional wiring configurations.

2-Wire System Triggered from Alarm Relay Contact:

S0103-00

Ordering Information

Model	Description
RRS-MOD	Reversing relay/synchronization module for i[3] series smoke detectors

System Sensor Sales and Service

A05-0350-000•11/02•#990