SIEMENS

TRI Series

Intelligent Initiating Devices Interface Modules for MXL Fire Detection Panels TRI-S, TRI-D, TRI-R

ENGINEER AND ARCHITECT SPECIFICATIONS

- Interfaces and Supervises Normally Open Contacts

- Integral SPDT Relay (up to 4 amps) on TRI-R Model

- Dual Input on TRI-D Model

- Multi-color L.E.D. indicates status (green, amber, red)

- Easy front access to programming port and wiring terminals

- Mounts in 4 inch square 2¼ deep box, or double gang box

- Dynamic Supervision

- Comes with 5x5 inch faceplate

- Two wire operation

- Model DPU or FPI-32 Programs and Verifies Device's Address and Tests Device's functionality

- Electronic Address Programming is Easy and Dependable

- (UL) UL Listed, ULC Listed
  CFSM, FM, NYMEA Approved

Introduction

The TRI Series Intelligent interface modules are designed to provide the means of interfacing direct shorting devices to the MXL system's ALD loop circuit.

The TRI Series Intelligent interface modules provide the market's most advanced method of address programming and supervision, combined with sophisticated control panel communication. Each TRI Series interface module incorporates a microcomputer chip. The TRI Series microcomputer chip technology and its sophisticated bi-directional communication capabilities with the control panel, achieve the state of an "Intelligent Device."

Description

The TRI Series Intelligent interface modules are available in three models. The TRI-S and TRI-R are designed to monitor a normally open dry contact. The interface

module reports the contact's status to the control panel. The TRI-S model can only monitor and report the status of the contact, while the TRI-R incorporates an addressable Form C relay. The TRI-R relay and contact device input are controlled at the same address. For the MXL system, the relay and input contact can be controlled as a separate function. The relay is typically used where control or shunting of external equipment is required.

The TRI-D is a dual input module and is designed to supervise and monitor two sets of dry contacts. This interface module requires two address settings. The TRI-D is ideal for monitoring a waterflow switch and its respective valve tamper switch.

The TRI has a multi-color Light Emitting Diode that flashes green when operating normally, amber if unit

is in trouble condition, and red to indicate a change of state. The TRI-D flashes twice, once for each address, the TRI-R red L.E.D. indicates a change of state in the relay.

The device's microcomputer chip has the capacity of storing, in memory, identification information as well as important operating status information.

Siemens Building Technologies, Fire Safety Division innovative technology allows all TRI Series intelligent interface modules to be programmed by using the model DPU or FPI-32 Programmer/Tester. The Programmer/Tester is a compact, portable, menu driven accessory that makes programming and testing an interface device faster, easier and more dependable than previous methods.

The DPU or FPI-32 eliminates the need for mechanical addressing mechanisms, such as program jumpers, DIP switches or rotary dials, because the Programmer/Tester electronically sets the TRI interface's address into the interface's microcomputer chip nonvolatile memory. Vibration, corrosion and other conditions that deteriorate mechanical addressing mechanisms are no longer a cause for concern.

The TRI Series is fitted with screw terminals for connection to an addressable circuit.

The TRI Series is fully compatible on the same MXL circuit with all intelligent FP, IL and ID-60 Series detectors, MSI Series addressable manual stations or any other addressable intelligent modules, such as the CZM or ICP.

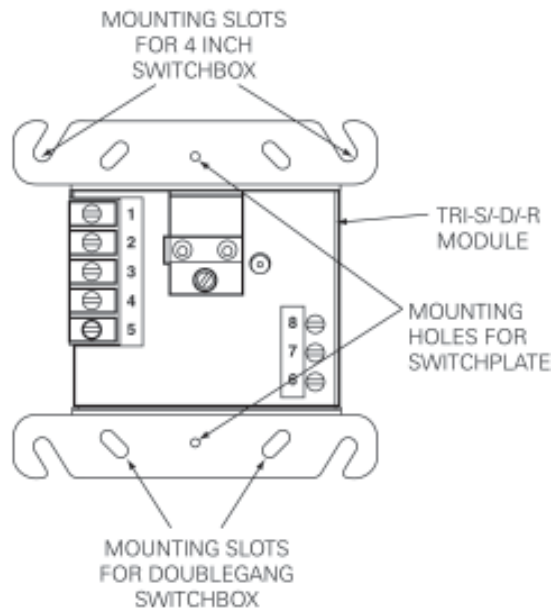All TRI Series intelligent interface modules are UL listed.

Environmental operating conditions for all TRI Series modules are 32°F (°C) to 120°F (49°C) with a relative humidity of not greater than 93% non-condensating.

Ordering Information

Model	Description	Shipping Wt. Lb.	Kg.
TRI-S	Single Input	7 oz.	.2
TRI-R	Single Input w/Relay	7 oz.	.2
TRI-D	Dual Input	7 oz.	.2

Mounting Data

Addressable interface Model TRI-S, TRI-D, TRI-R mounts directly into a 4 inch square 2¼ deep box or a double gang box (user supplied). A 5 inch square off-white faceplate is included with each TRI.

Figure A
Mounting the TRI-S/-R/-D

Electrical Ratings

Current Draw (Active or Standby): 1.5mA

TRI-R Relay Ratings
Resistive: 4A, 125 VAC
        4A, 30 VDC

Inductive: 3.5A, 120 VAC (0.6P.F.)
        3.0A, 30 VDC (0.6P.F.)
        2.0A, 120 VAC (0.4P.F.)
        2.0A, 120 VAC (0.35P.F.)
        2.0A, 30 VDC (0.35P.F.)