

FireFinder XLS and FS-250 Panels

Intelligent Device Interface Module

Model HTRI-M {HTRI-MC for Canada}

ARCHITECT AND ENGINEER SPECIFICATIONS

- Interfaces and supervises normally open (N.O.) contacts: [i.e. – fire detection] or normally closed (N.C.) contacts: [i.e. – security detection]
- Compact size allows mounting in single-gang box behind equipment
- Polarity Insensitive with *SureWire™* technology
 - Innovative technology supports comprehensive system and interface communication
- Operates with FireFinder XLS panel's Model DLC circuit
- Dynamic Supervision
- (2) Two-wire operation
- Device Program / Test Unit (Model DPU) programs and verifies address and test functionality
- UL Listed, ULC Listed; FM, CSFM and NYMEA Approved



Product Overview

The Intelligent Interface module (Model HTRI-M) is designed to provide the means of interfacing direct shorting devices to the Device Program / Test Unit (Model DPU) for the FireFinder XLS and FS-250 fire-alarm control panels (FACPs).

Model HTRI-M provides the most advanced method of address programming and supervision – including sophisticated FACP-communication – in the fire and life safety market. Each Model HTRI-M interface module incorporates microcomputer-chip technology, and advanced bi-directional communication capabilities with the respective FACP.

Model HTRI-M is designed to monitor a N.O. or N.C. dry contact, and reports the contact status to the FACP. The microcomputer chip for Model HTRI-M has the capacity of storing – in memory – identification information, as well as integral operating-status data.

Specifications

Each Model HTRI-M interface module is programmed, via Model DPU, which is a compact, portable and menu-driven accessory that makes programming and testing a given interface more accurately and efficiently than ever before.

Model DPU eliminates the need for mechanical-addressing mechanisms – such as program jumpers, DIP switches or rotary dials – since Model DPU sets the interface address of Model HTRI-M into its microcomputer-chip, non-volatile memory electronically.

Vibration, corrosion and other conditions that deteriorate mechanical-addressing mechanisms are no longer a cause for concern. Model HTRI-M is connected to Model DPU with the programming cable provided with the tester. This programming cable (P/N 110-694927) utilizes two (2) alligator clip connectors, to attach to the HTRI-M.

Specifications — (continued)

Model HTRI-M has five (5) leads [one (1) of the five (5) leads is for grounding], which are wired to the system with user-supplied wire nuts.

Model HTRI-M is fully compatible on the same Model DLC circuit with all intelligent H-series detectors; HMS-series addressable, manual stations; or any other H-series addressable intelligent modules, such as Model HZM or Model HCP.

Temperature and Humidity Range

Models are $\text{UL 864 9}^{\text{th}}$ Edition listed for indoor dry locations within a temperature range of $120\pm 3^{\circ}\text{F}$ ($49\pm 2^{\circ}\text{C}$) to $32\pm 3^{\circ}\text{F}$ ($0\pm 2^{\circ}\text{C}$) and at a relative humidity of $93\pm 2\%$ at a temperature of $90\pm 3^{\circ}\text{F}$ ($32\pm 2^{\circ}\text{C}$).

Electrical Rating

Current Draw (Active or Standby):	1.5mA
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Details for Ordering

Model Number	Part Number	Description
HTRI-M	500-034000	Single-input Intelligent Interface Module
HTRI-MC	500-034000C	Single-input Intelligent Interface Module, Canada

Note: Each HTRI-series model is 3.5 ounces (0.1 kilograms) for Shipping Weight.

Notice: This marketing catalog sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.

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HTRI Series Interface Modules Models HTRI-D, HTRI-R and HTRI-S

ARCHITECT AND ENGINEER SPECIFICATIONS

- Interfacing and supervising normally open (NO) or normally closed (NC) contacts
- Integral SPDT relay on Model HTRI-R (up to 4 amps)
- Dual input on Model HTRI-D, using a single address
- Polarity insensitive with *SureWire™* technology
- Multi-color light-emitting diode (LED) indicates status [green / amber / red]
- Easy front access to programming port and wiring terminals
- Mounts 4-inch square, 2-1/4"-deep box (or double-gang box)
- Dynamic supervision
- Comes with 5-x-5" faceplate
- Two-wire operation
- Model DPU programs and verifies address of the device and tests for proper functionality
- Electronic address programming is easy and dependable
- ©UL Listed & ©ULC Listed;
FM, CSFM and NYMEA Approved



Product Overview

The Siemens Industry, Inc. — Fire Safety HTRI Series Intelligent interface modules are designed to provide the means of interfacing direct shorting devices to the FireFinder XLS and FS-250 Fire Alarm Control Panel loop circuit.

The HTRI Series modules provide the most advanced method of address programming and supervision on the market — combined with sophisticated control panel communication. Each HTRI Series interface module incorporates a microcomputer chip. The HTRI Series microcomputer chip technology and its sophisticated bi-directional communication capabilities with the control panel, achieve the state of an 'intelligent device.'

Specifications

The HTRI Series intelligent interface modules are available in three (3) models. Models HTRI-S and HTRI-R are designed to monitor a (NO) or (NC) dry contact.

The interface module reports the status of the (NO) or (NC) contact to the control panel. Model HTRI-S can only monitor and report the status of the contact, while Model HTRI-R incorporates an addressable Form C relay.

The Model HTRI-R relay and contact device input are controlled at the same address. For the control panel 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 Model HTRI-D is a dual-input module that is designed to supervise and monitor two (2) sets of dry contacts. Model HTRI-D only requires one (1) address, but responds independently to each input. Model HTRI-D is ideal for monitoring a water-flow switch and its respective valve tamper switch.

Model HTRI has a multi-color LED that flashes 'green' when operating in *normal*; 'amber' if unit is in *trouble* condition, and 'red' to indicate a change of state.

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Specifications (continued)

Model HTRI-D flashes twice — once for each address, and Model HTRI-R LED 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 Industry, Inc., — Fire Safety innovative technology allows all HTRI Series intelligent interface modules to be programmed by using the Device Programming / Test Unit. Model DPU is a compact, portable and menu-driven accessory that makes programming and testing an interface device faster, easier and more dependable than previous methods.

Model DPU eliminates the need for mechanical addressing mechanisms, such as: program jumpers, DIP switches or rotary dials, since Model DPU electronically sets the HTRI Series interface address into the interface microcomputer-chip non-volatile memory. Vibration, corrosion and other conditions that deteriorate mechanical addressing mechanisms are no longer a cause for concern.

The HTRI Series is fitted with screw terminals for connection to an addressable circuit. The HTRI Series is fully compatible on the same FireFinder XLS and FS-250 circuits with all intelligent H-Series detectors, HMS Series addressable manual stations, or any other addressable intelligent modules, such as Model HZM or Model HCP.

All HTRI Series intelligent interface modules are ®UL listed. Environmental operating conditions for all HTRI Series modules are 32°F (°C) to 120°F (49°C) with a relative humidity of no greater than 93%, non-condensing.

Electrical Ratings

Current Draw
(Active or Standby) 1mA

Model HTRI-R Relay Ratings

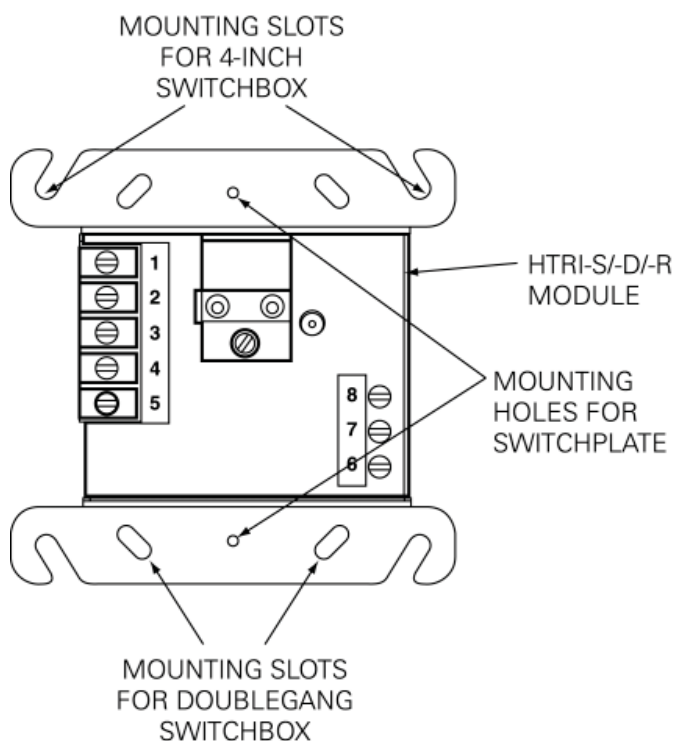
Resistive: 4 Amps, 125 VAC
4 Amps, 30 VDC

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.)

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Mounting Diagram

Models HTRI-S, HTRI-D and HTRI-R mount directly into a 4-inch square, 2 ¼-inch deep box or a double-gang box (user supplied). A 5-inch square, off-white faceplate is included with each HTRI Series module.



Details for Ordering

Model Number	Part Number	Description	Shipping Wgt.	
			Lb.	Kg.
HTRI-S	500-033370	Single Input	7 oz.	2
HTRI-R	500-033300	Single Input w/Relay	7 oz.	2
HTRI-D	500-033360	Dual Input	7 oz.	2