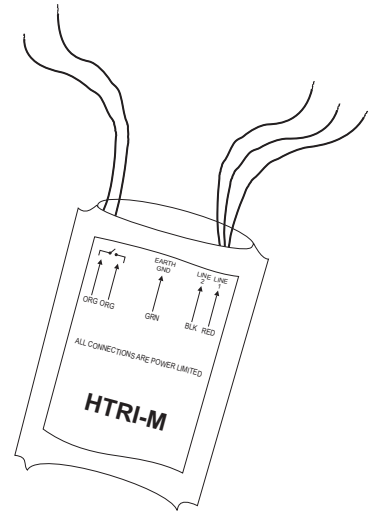


## Installation Instructions

### Model HTRI-M

Addressable Interface Module

The Model HTRI-M Series Addressable Interface Module from Siemens Industry, Inc. interfaces direct shorting devices to the DLC loop circuit of the FireFinder-XLS System or the FS-DLC loop of the FS-250 System. It is also approved for 1076, Proprietary Burglary.



The HTRI-M can monitor a normally open or closed dry contact and it can report the status of the contact.

Figure 1  
HTRI-M Module

#### PROGRAMMING

Refer to Figure 1 to locate the red and black DLC/FS-DLC loop circuit wires of the HTRI-M.

Connect the Addressable Loop Driver circuit wires of the HTRI-M to the Model DPU Programmer/Tester. Use the cable provided with the Programmer/Tester and the 2 alligator clip to banana plug adapters provided.



#### To Prevent Damage To The DPU:

**DO NOT** connect a HTRI-M to the DPU until all field wiring is removed from the red and black DLC/FS-DLC loop circuit wires of the HTRI-M.

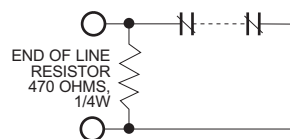


Connection from the DPU to the HTRI-M is not polarity sensitive. Refer to Figure 3 for the proper connections to the control panel.

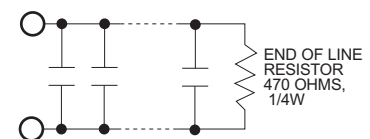
(Refer to Figure 2.) Follow the instructions in the **DPU Programmer/Tester Manual** (P/N 315-033260) to program the desired address into HTRI-M.

Record the device address on the label located on the HTRI-M. The HTRI-M can now be installed and wired to the system.

NORMALLY CLOSED PROGRAMMABLE SWITCHES  
(SEE NOTE 4)



NORMALLY OPEN PROGRAMMABLE SWITCHES  
(SEE NOTES 2, 3 AND 5)



#### NOTES:

1. There can be any number of normally closed or normally open switches.
2. The end of line resistor must be located at the last switch.
3. Do not wire a normally closed switch across the end of line resistor.
4. Only for use with security and status applications.
5. Do not use N.O. switches for security applications.

Figure 2  
Wiring Switches

WIRING

(Refer to Figure 3.) Refer to the wiring diagram and wire the addressable interface module accordingly.



Recommended wire size: 18 AWG minimum  
14 AWG maximum

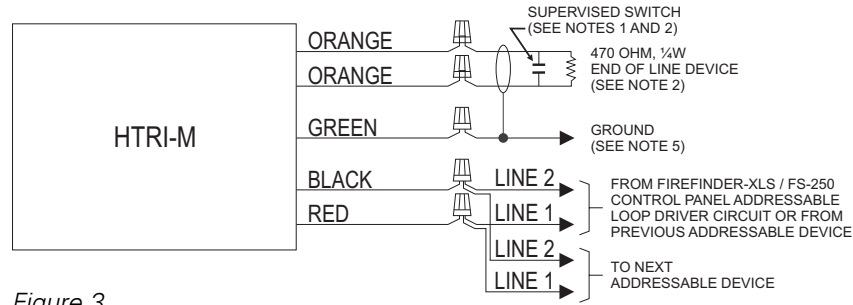


Figure 3  
Installing the HTRI-M Wiring

NOTES:

1. All supervised switches must be held closed and/or open for at least a quarter of a second to guarantee detection.
2. End of line device: 470 ohm, 1/4W resistor, P/N 140-820164. For Canadian applications, use Model EL-33 with 470 ohm, 1/4W resistor.
3. HTRI-M is polarity insensitive. Line 1 and Line 2 can be either line of the loop.
4. The supervised switches have the following ratings:
  - Voltage maximum: 27 VDC
  - Current maximum: 6mA during polling
  - Contact resistance maximum: 10 ohms
  - Maximum cable length: 200 feet (18 AWG)

$C_{\text{Line to line}}$ : 0.02uF  
Max line size: 14 AWG  
 $C_{\text{Line to shield}}$ : 0.04uF  
Min line size: 18 AWG



Ground shield ONLY at the specified location on the Control Panel.



EOL device must be a 470 ohm, 1/4W resistor.  
When replacing an existing HTRI on a device loop,  
you must also replace the EOL resistor if it is not  
470 ohms, 1/4W.

5. The green wire must be connected to earth ground.
  - a. Use wire nuts to pass the shield wire through the electrical box with **NO** connection to the device green wire.
  - b. Use shielded wire to connect the switch wiring.
  - c. Tie the switch wiring shield to earth ground.
6. For proprietary burglary application:
  - a. Use a TSW-1/2 tamper switch to monitor the main enclosure.
  - b. Monitor each HTRI-M related to this application continuously by using a listed motion detector (to prevent tampering).
7. In supervisory: HTRI-M draws 1.3mA
8. All circuits are power limited.
9. Positive and negative ground fault detected at <25K ohms for orange terminals.

MOUNTING

The Model HTRI-M mounts directly into a single gang switchbox (user supplied)

Connect the appropriate wires using wire nuts. Tuck the HTRI-M module inside the electrical box and dress the wiring as required. (See Figure 4.)

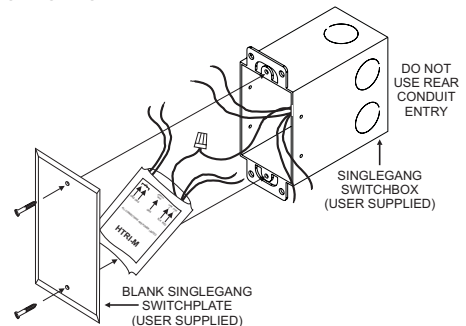


Figure 4  
Mounting the HTRI-M

ELECTRICAL RATINGS

DLC / FS-DLC Loop	
Max. Current	1.3mA