



SIEMENS HTRI-M Addressable Interface Module Instruction Manual

[Home](#) » [SIEMENS](#) » SIEMENS HTRI-M Addressable Interface Module Instruction Manual

SIEMENS

Installation Instructions
Model HTRI-M
Addressable Interface Module

Contents [[hide](#)]

- [1 HTRI-M Addressable Interface Module](#)
- [2 PROGRAMMING](#)
- [3 WIRING](#)
- [4 MOUNTING](#)
- [5 ELECTRICAL RATINGS](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)

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.

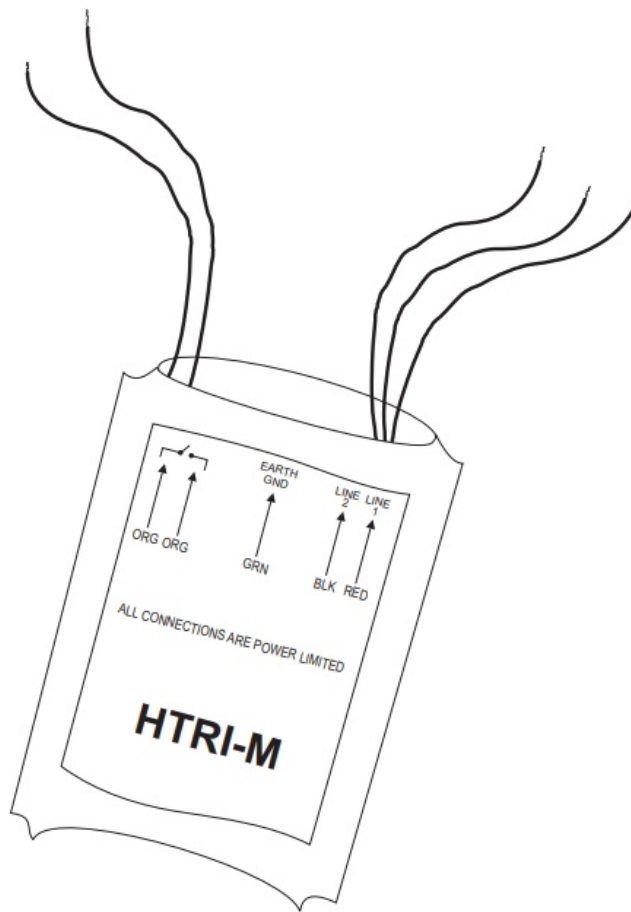


Figure 1
HTRI-M Module

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.

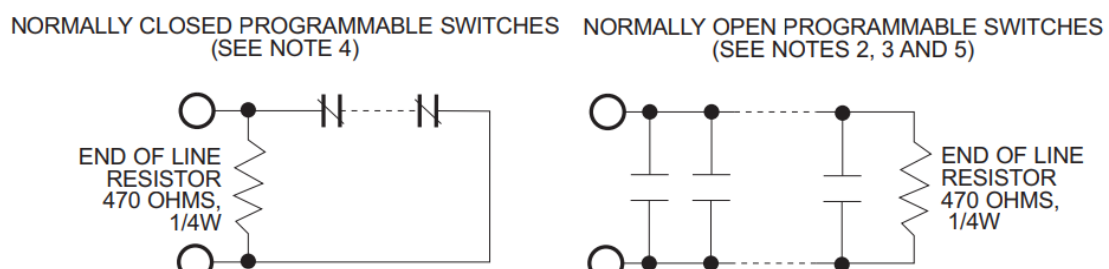


Figure 2
Wiring Switches

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.

WIRING

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

NOTE  **Recommended wire size:** 18 AWG minimum
14 AWG maximum

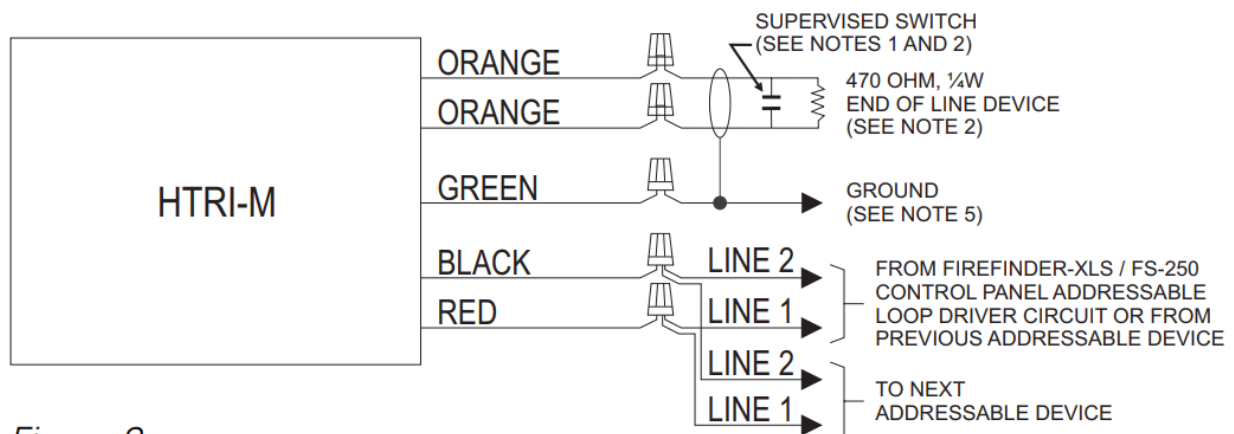


Figure 3
Installing the HTRI-M Wiring

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)

CLine to line : 0.02uF

CLine to shield : 0.04uF

Max line size: 14 AWG

Min line size: 18 AWG



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



EOL device must be a 470 ohm, 1/4 W 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.)

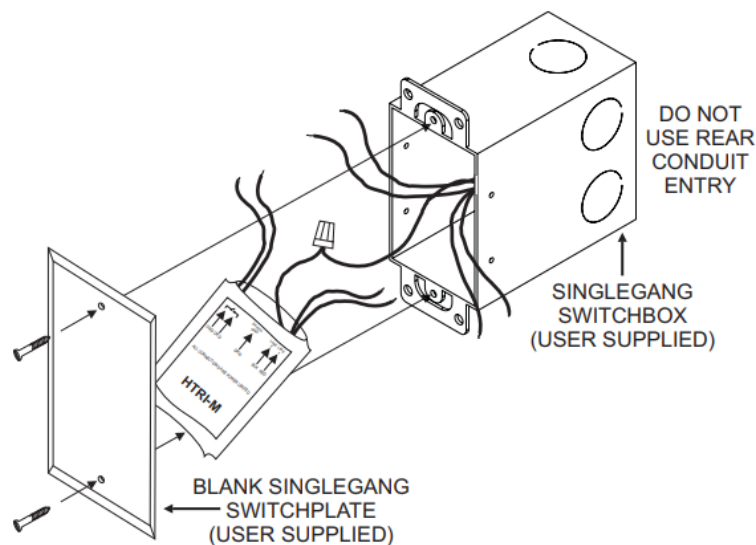


Figure 4
Mounting the HTRI-M

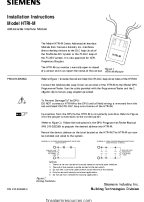
ELECTRICAL RATINGS

DLC / FS-DLC Loop	
Max. Current	1 mA

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Florham Park, NJ
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Fire Safety & Security Products
2 Kenview Boulevard
Brampton, Ontario L6T 5E4 Canada
P/N 315-049480-4
firealarmresources.com
Siemens Industry, Inc.
Building Technologies Division

Documents / Resources

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References

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