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SIEMENS STRI-M Addressable Interface Module Instruction Manual

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Contents

SIEMENS STRI-M Addressable Interface Module

Installation Instructions Model STRI-M

Addressable Interface Module

The Model STRI-M Series Addressable Interface Module from Siemens Building Technologies, Inc. interfaces direct shorting devices to the FDLC loop circuit of the FS-250C System. The STRI-M can monitor a normally open or closed dry contact and it can report the status of the contact.
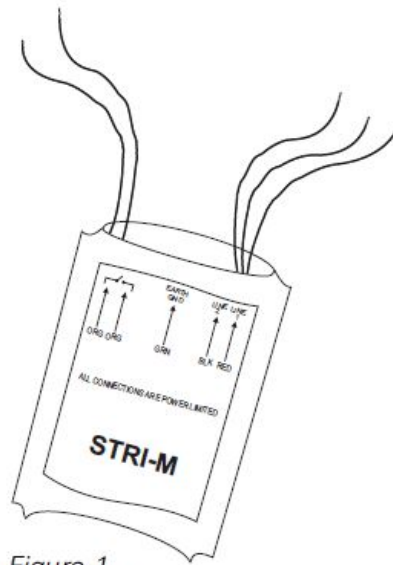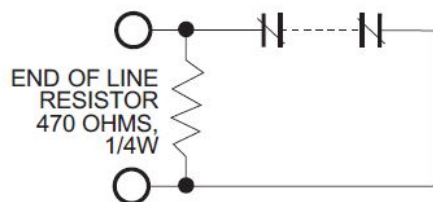

Figure 1
STRI-M Module

PROGRAMMING

Refer to Figure 1 to locate the red and black FDLC loop circuit wires of the STRI-M. Connect the Addressable Loop Driver circuit wires of the STRI-M to the Model SDPU Programmer/Tester. Use the cable provided with the Programmer/Tester and the 2 alligator clip to banana plug adapters provided.
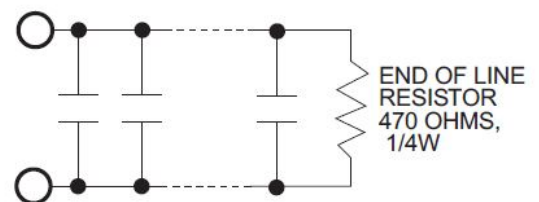
CAUTION

To Prevent Damage To The SDPU:

DO NOT connect a STRI-M to the SDPU until all field wiring is removed from the red and black FDLC loop circuit wires of the STRI-M. Connection from the SDPU to the STRI-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 SDPU Programmer/Tester Manual (P/N 315-033260C) to program the desired address into STRI-M. Record the device address on the label located on the STRI-M. The STRI-M can now be installed and wired to the system.

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 status applications.
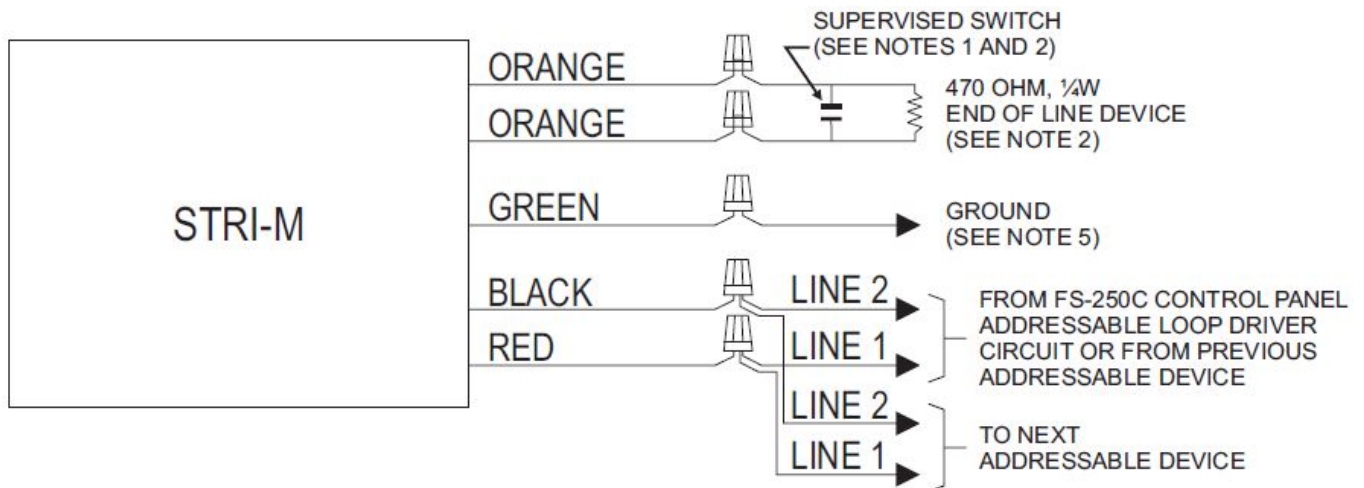
Figure 2
Wiring Switches

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 STRI-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. Use Model EL-33 with 470 ohm, 1/4W resistor.
3. STRI-M is polarity insensitive. Line 1 and Line 2 can be either line of the loop.
4. Addressable Loop Electrical ratings:

    Voltage: 24 VDC pulsing, 31 VDC max.

    Current maximum: 1.3mA during polling
5. The supervised switches have the following ratings:

    Voltage maximum: 6 VDC

    Current maximum: 6mA during polling Contact resistance maximum: 10 ohms.

    Maximum cable length: 200 feet (18 AWG)

    Max line size: 14 AWG

    Min line size: 18 AWG

    CAUTION

    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 STRI on a device loop, you must also replace the EOL resistor if it is not 470 ohms, 1/4W.
6. The green wire must be connected to earth ground.

- Use wire nuts to pass the shield wire through the electrical box with NO connection to the device green wire.
- Use shielded wire to connect the switch wiring.
- Tie the switch wiring shield to earth ground.

7. In supervisory: STRI-M draws 1.3mA

8. All circuits are power limited.

9. Positive and negative ground fault detected at <60K ohms for orange terminals.

MOUNTING

The Model STRI-M mounts directly into a single gang switchbox (user supplied). Connect the appropriate wires using wire nuts. Tuck the STRI-M module inside the electrical box and dress the wiring as required. (See Figure 4.).

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Documents / Resources

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STRI-M, STRI-M Addressable Interface Module, Addressable Interface Module, Interface Module, Module

References

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