

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.

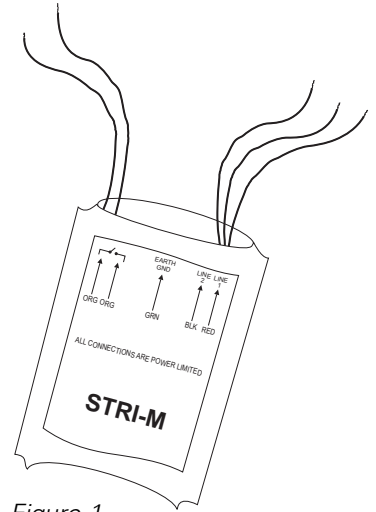


Figure 1
STRI-M Module

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.



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.

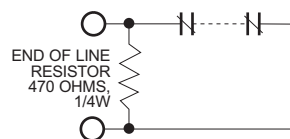


Connection from the SDPU to the STRI-M is not polarity sensitive. Refer to Figure 3 for the proper connections to the control panel.

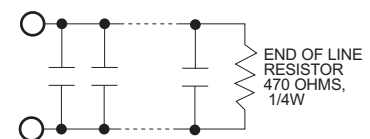
(Refer to Figure 2.) Follow the instructions in the SDPU Programmer/Tester Manual (P/N 315-033260C) to program the desired address into STRI-M.

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

NORMALLY CLOSED PROGRAMMABLE SWITCHES
(SEE NOTE 4)



NORMALLY OPEN PROGRAMMABLE SWITCHES
(SEE NOTES 2 AND 3)



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.



Recommended wire size: 18 AWG minimum
14 AWG maximum

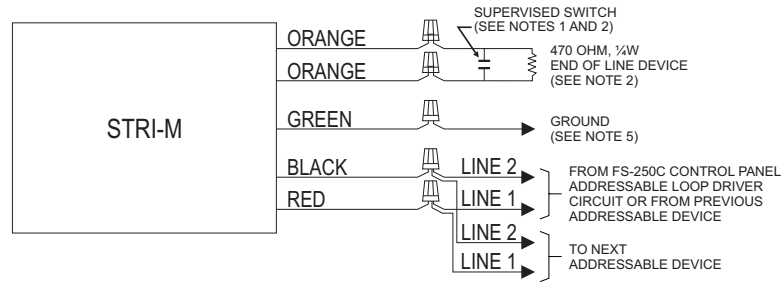


Figure 3
Installing the STRI-M Wiring

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)

$C_{Line\ to\ line}$: 0.02uF
Max line size: 14 AWG

$C_{Line\ to\ shield}$: 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, 1/4 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.
 - 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.
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.)

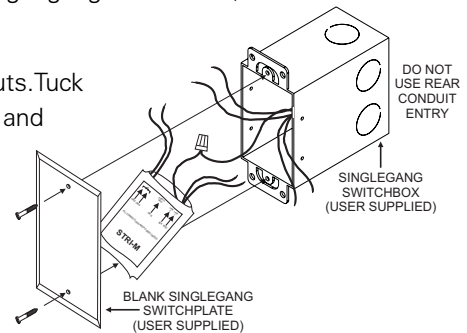


Figure 4
Mounting the STRI-M