

# INSTALLATION INSTRUCTIONS AND WIRING FOR CONTACT MONITORING MODULE P/N 8701

The 8701 contact monitoring module interfaces direct shorting devices to the System's Addressable Device Circuit.

The 8701 can monitor a normally open or closed dry contact and it can report the status of the contact.

## PROGRAMMING

Refer to Figure 1 to locate the red and black Addressable Device Circuit wires of the 8701.

Connect the Addressable Device Circuit wires of the 8701 to the Model 8720 Programmer/Tester. Use the cable provided with the Programmer/Tester and the two alligator clip to banana plug adapters provided.

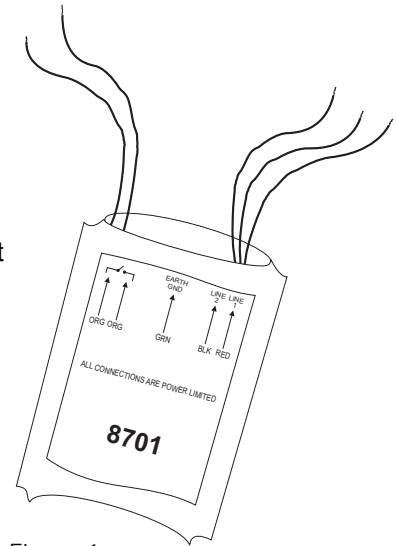


Figure 1  
8701 Module



### To Prevent Damage To The 8720:

**DO NOT** connect an 8701 to the 8720 until all field wiring is removed from the red and black addressable device circuit wires of the 8701.

**NOTE:** Connection from the 8720 to the 8701 is not polarity sensitive. Refer to Figure 2 for the proper connections to the control panel.

Follow the instructions in the 8720 Programmer/Tester Manual (P/N 315-033260FA) to program the desired address into 8701.

Record the device address on the label located on the 8701. The 8701 can now be installed and wired to the system.

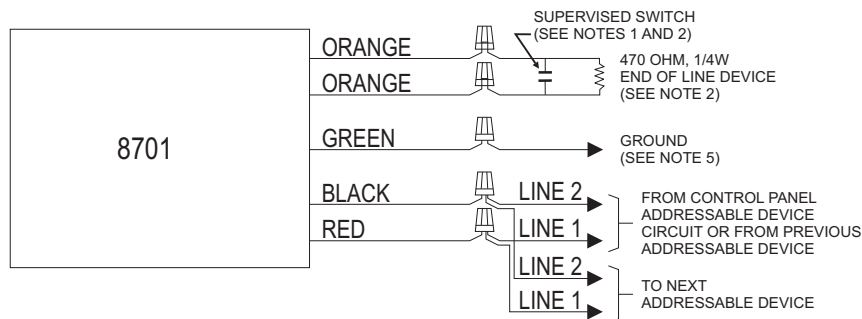
## WIRING

(Refer to Figure 2.) Refer to the wiring diagram and wire the addressable interface module accordingly.

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



Siemens Industry, Inc.  
Building Technologies Division • Florham Park, NJ  
Tel: (973) 593-2600 • Fax: (973) 593-6670  
Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)



**Figure 2**  
**Installing the 8701 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.
3. 8701 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)

$C_{\text{Line to line}}: 0.02\mu\text{F}$

Max line size: 14 AWG

$C_{\text{Line to shield}}: 0.04\mu\text{F}$

Min line size: 18 AWG

**CAUTION:** Ground shield ONLY at the specified location on the Control Panel.

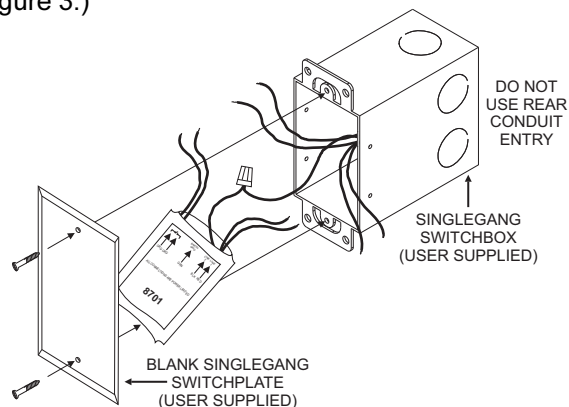
**CAUTION:** EOL device must be a 470 ohm, 1/4W resistor. When replacing an existing 8701 on a device loop, you must also replace the EOL resistor if it is not 470 ohms, 1/4W.

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. The 8701 draws 1.3mA from the addressable device circuit.
7. All circuits are power limited.

## Mounting

The 8701 mounts directly into a single gang switchbox (user supplied)

Connect the appropriate wires using wire nuts. Tuck the 8701 module inside the electrical box and dress the wiring as required. (See Figure 3.)



**Figure 3**  
**Mounting the 8701**