

SIEMENS SRC-8 Addressable 8-Output Relay Module Instruction Manual

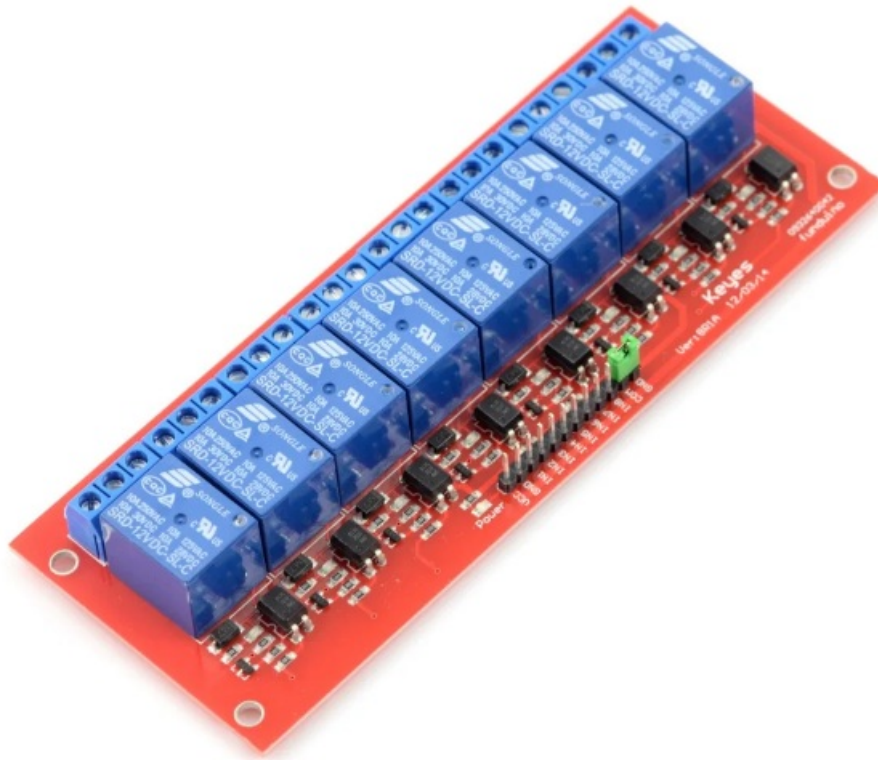
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SIEMENS

SIEMENS SRC-8 Addressable 8-Output Relay Module



Model SRC-8 Addressable 8-Output Relay Module

OPERATION

The Model SRC-8 module from Siemens Industry, Inc., used with the SXL-EX System is an 8-Output Programmable Relay Module that provides eight Form C relays. Terminal Block 9 (See Figure 1 below) provides a connection to TB3 on the Main Board for a 24V regulated and filtered power supply. Terminal blocks 1-8 provide the eight Form C relays. If the green LED (labeled DS1) on the right-hand side of the module is on, it indicates that the module is active. The SRC-8 causes a trouble on the display panel when any of the following three conditions occurs:

1. There is a short on the data line.
2. No SRC-8 module is connected to the System, though there is an address for the module in the System.
3. An SRC-8 module is connected to the system, but there is no address for it in the System.

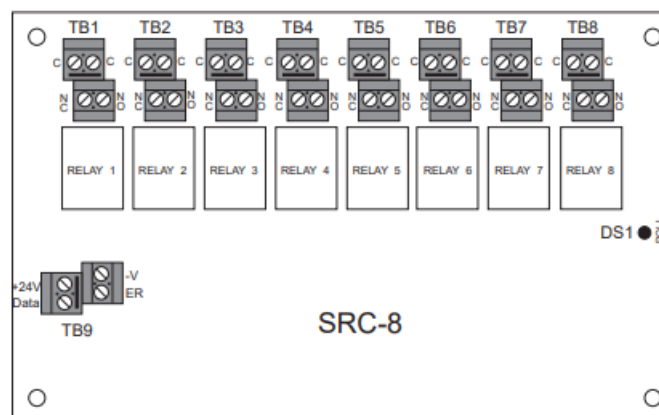


Figure 1
SRC-8 Module

INSTALLATION

Remove all System power before installation, first battery and then AC. (To power up, connect the AC first and then the battery.)

In a New SXL-EX System (Refer to Figure 2)

Install the SRC-8 in the upper right-hand portion of the EN-SX enclosure by following the steps listed below.

1. Insert the four 6-32 x 1/2 standoffs over the four studs in the upper right-hand corner of the SXL-EX enclosure as shown in Figure 2.
2. Place the SRC-8 board over the four standoffs in the upper right-hand portion of the EN-SX enclosure. Using the four 6-32 screws provided, fasten the SRC-8 board to the standoffs.

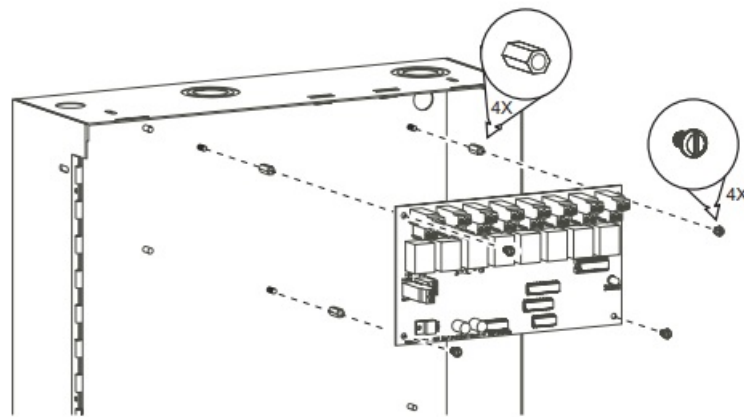


Figure 2
Installing an SRC-8

In an Existing SXL® System (Refer to Figure 3):

To place the SRC-8 on the Main Board of an existing system, first remove the existing Display Board and its cover by following the steps below.

1. Remove the Display Cover from the Display Board as shown in Figure 3. Discard its top two standoffs.
2. Unplug the ribbon cable from the Display Board at jumper JP4 on the Main Board.
3. Remove the Display Board from the SXL® Main Board by unscrewing the four 6-32 screws and setting them to one side.
4. Remove and discard the two standoffs that were supporting the two upper corners of the Display Board.
5. Next, install the SRC-8 by using the four 6-32 x 1-7/8 standoffs, the 6-32 screw, and the two 15/16 standoffs provided as follows:
 - Fasten the 1-7/8 nylon standoff provided to the back of the upper left-hand corner of the SRC-8 with the screw provided.
 - Remove the screw from the upper right-hand corner of the Main board.
 - Screw another long standoff to the upper right-hand corner of the Main board.
 - Screw the last two long standoffs provided to the Main board as shown in Figure 3.
 - Place the SRC-8 module on the standoffs.
 - Use the screw removed from the Main board to secure the upper right-hand corner of the SRC-8 board to the Main board.

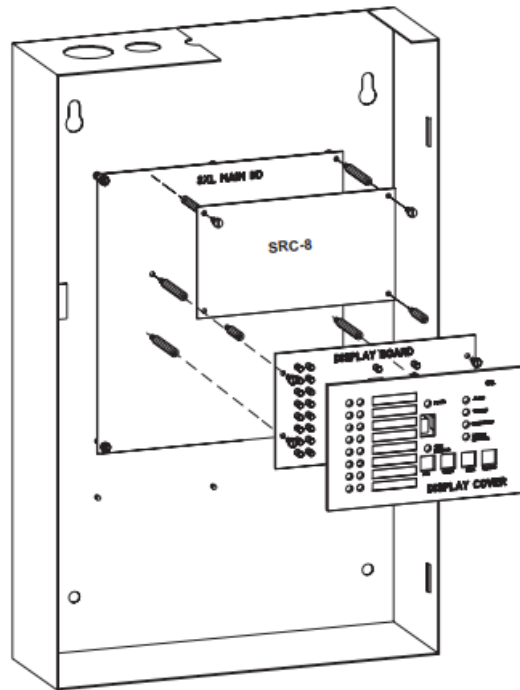


Figure 3
Installation in an Existing System

6. Fasten the two short standoffs remaining to the bottom two corners of the SRC-8 board (They are supports for the Display Board).
7. Once the SRC-8 is in place, re-install the Display Board by reversing Steps 1-3 above.

PROGRAMMING

Use Program Level 9 to program the System to supervise the SRC-8 module; and refer to the SXL-EX Manual, P/N 315-095997, Program Level 5, for programming the relay output control matrix.

1. To enter the System:
 - Press the RESET and DRILL keys at the same time.
 - Enter your password (Refer to Enter Password under PROGRAM MODE in the Manual).
 - Press the SILENCE key to confirm the information for the system.
 - An A should display in the 7-segment display.
 - If an F appears, repeat the process until an A appears.
2. To enter the Program Mode:
 - Press the ACK key once.
 - Note that a P displays in the 7-segment display.
 - Be sure the PROGRAM/TEST LED is lit.
3. To select the desired Program Mode level:
 - To select Program Level 9, press the RESET button 9 times.
 - Press SILENCE.
4. To program the SRC-8:
 - Note the top zone status LEDs on the display board.
 - If the top red LED is on, the SRC-8 is activated and sublevel -1 appears in the display.
 - If the top red LED is off, the SRC-8 is not activated.
 - Press the DRILL key to toggle between ON (activated) and OFF (de-activated) as desired.

5. o exit the system:

- Press the ACK key until an L appears on the display.
- Press SILENCE to exit the program.

WIRING

(Refer to Figure 4) Refer to Figure 4 below to wire the SRC-8 into the SXL-EX System. The wiring for the Form C relay circuits from terminal blocks 1-8 is also shown in Figure 4. For information on programming the relays on the SRC-8, refer to the SXL-EX Manual, P/N 315-095997.

BATTERY CALCULATIONS

Battery backup is required for the SRC-8. To determine the size battery you need, use the battery calculation table in the SXL-EX Manual, P/N 315-095997.

Notes:

1. The SXL-EX Control Panel meets NFPA 72 Local System requirements.
2. All wiring must be in accordance with NFPA 70.
3. Form C relay contacts are shown de-energized. They are suitable for resistive load only.
4. Refer to the Battery Calculations in the manual to determine battery needs.
5. Minimum 18AWG wire to all field connections.

Electrical Characteristics

- **Supervisory:** 18 mA
- **Alarm:** 26mA per relay

Electrical Characteristics of Form C Relays

- 2A at 30 VDC and 120 VAC resistive only

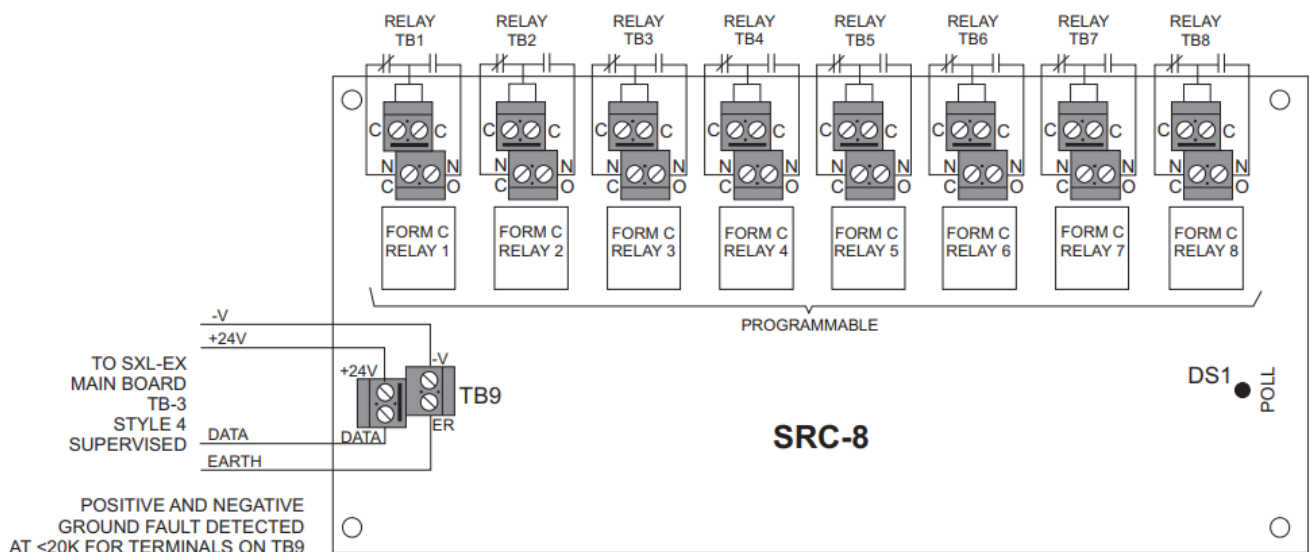
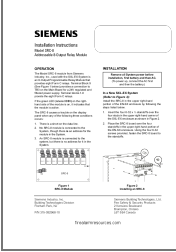


Figure 4
Wiring the SRC-8

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Documents / Resources

	<p>SIEMENS SRC-8 Addressable 8-Output Relay Module [pdf] Instruction Manual SRC-8 Addressable 8-Output Relay Module, SRC-8, Addressable 8-Output Relay Module, 8-Output Relay Module, Relay Module, Module</p>
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References

-  [Fire Alarm Resources | Download fire alarm documents](#)