

# SIEMENS

## Installation Instructions

### Model SR-35

### Supplementary Relay Module

#### Description

The Model SR-35 Supplementary Common Relay module from Siemens Industry, Inc., is a System 3 module that occupies one module space in the system enclosure. The module contains eight independently activated relays that can activate or deactivate external devices such as door releases, fan shutdowns, extinguishing system releases, audible alarms, etc. Actuation of the relays may come from the System 3 Control Panel, a ZU-35 Zone module, an SM-30 Switch module, or any other module with the appropriate signal output.

The DC voltage supply is connected by screw terminals to provide for both plus and minus. There are also additional screw terminals for connection of the supply to the next module (terminals 34 and 36). The supply voltage may vary from 20 to 30 VDC, with a maximum total load current of 170mA (21mA per relay).

Each relay provides a single pole double throw (SPDT) contact arrangement rated at 2A resistive, 30 VDC/125 VAC. The actuation of any relay can be selected to operate from either a high going actuation input signal or from a low going (current sink) input signal.

If a high going actuation input operation is selected (jumper in position A), the input may vary from 5 to 35 VDC, including the 24 volt, full wave, unfiltered voltage signal from System 3 zone alarm outputs. This input voltage must be lower than 1.3 VDC to ensure that the associated relay is non-operational. An additional 5mA actuation current must be added to the total load requirements for each relay actuated.

When the operation selected is a low going signal (position B), one terminal of the relay coil is directly connected to the related actuation screw terminal. This terminal is then connected through the switching device and returned to the power supply common, terminal 36. Open circuit voltage at the actuation terminal is that of the supply (terminals 33-35). Sink current is that of the relay (21mA), and must be at least 15mA to ensure relay operation.

#### Electrical Information

##### Current Requirements

Relay de-energized: None

Relay Energized - High Going - 26mA per relay

Relay Energized - Low Going - 21mA per relay

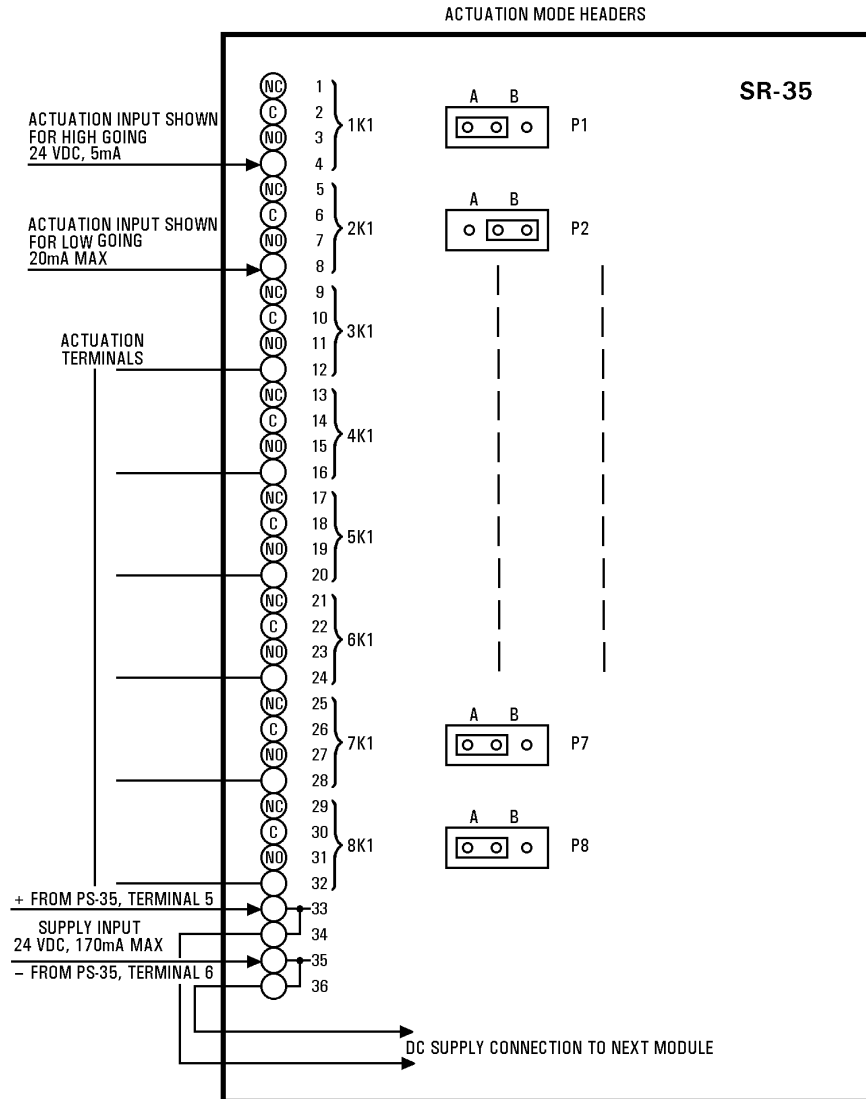
#### Installation

1. Mount the module to the horizontal mounting brackets in the control enclosure.
2. Install the Model JA-5 (5 in long) bus connector cable assembly between receptacle P2 of the module and receptacle P1 of the module or control panel immediately preceding it in the bus.  
**Note:** If the preceding module is on another row in the enclosure, a JA-24 (24 in long) bus connector cable assembly will be required.
3. Modules are to be bus-connected from right to left. For two-row enclosures, the modules in the lower row are to be connected from left to right. Succeeding rows are to be alternately connected, right to left, left to right, etc.
4. If a module is the last module in the system, install either a JS-30 (30 in long) or JS-64 (64 in long) bus connector assembly from the unused receptacle of the last module to terminal 41 of the CP-35 control panel. This completes the module supervision circuit.
5. If a supplementary relay module, annunciator, or other output module is used, then the alarm outputs, terminals 1 (Zone 1) and 6 (Zone 2), should be connected to these units.

#### Wiring Test

Refer to the CP-35 Control Panel Instruction Manual, *Installation and Wiring*.

# Typical Wiring



## NOTES

- Relay contacts are shown de-energized.
- Arrange P1 through P8 for either a high going input (position A) or a low going signal (position B) for the related relay.
- Relay 1K1 is shown in position A for high going actuation; the input may come from terminal 1 or 7 of CP-35 or from terminal 1 or 7 of ZU-35.
- Relay 2K1 is shown in position B for low going actuation; it may be returned to terminal 36 of SR-35 device.
- Relay contacts are rated 2A, 30 VDC/125 VAC.
- Minimum wire size: 18 AWG  
Maximum wire size: 12 AWG
- The SR-35 is non-power limited on all terminals.