

## SECURITRON MODEL RB4-12, RB4-24 RELAY BOARD INSTALLATION AND OPERATING INSTRUCTIONS

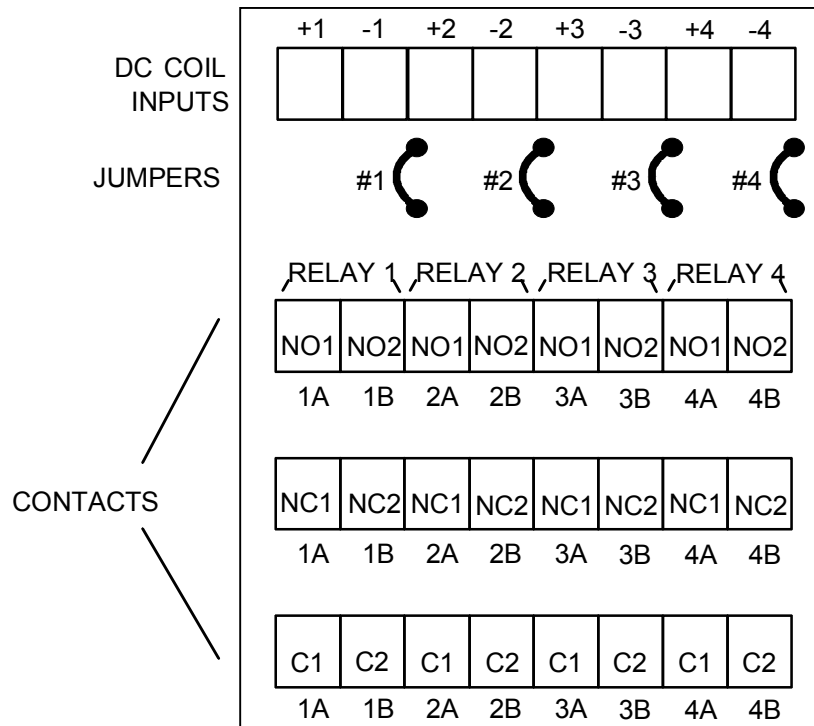
### 1. DESCRIPTION

The RB4 board mounts four double pole, double throw relays with connection points to the coils and contacts being implemented on screw terminals. The boards are furnished on Snap Trak mounting permitting their installation in a variety of situations. The relays provide 2 Amp contacts on each pole. The 12 volt version of the board uses relays that draw 13 mA each and the 24 volt version uses relays that draw 8 mA each. The relays operate on DC only but will accept +50%, -25% of nominal voltage. Pulsating DC (transformer + bridge rectifier) will operate the relays. According to the status of jumper wires, the relays may be operated with one side of their coils in common or they may be fully isolated from each other.

### 2. WIRING

Figure 1 shows terminal identification. As factory delivered with the four wire jumpers in place, the "negative" coil terminals (-1, -2, -3, -4) are all in common. So to operate the relays, simply apply 0 DC (negative) to **any** of the "-" coil terminals and then individually apply +DC to each "+" coil terminal to operate the respective relay. Note that the **relays are not polarized** so **you can reverse this scheme** if desired. +DC can be applied to any of the "-" coil terminals and then the relays can be individually operated by applying 0 DC (negative) to each "+" terminal.

**FIGURE 1: RB-4 WIRING**



The four wire jumpers are normally left connected but may be **cut for a special requirement**. In some applications, the voltage inputs that switch on the relays may be from more than one power supply and you will not want to mix the supply voltages by putting them in common. **When the associated jumper is cut, the coil terminals are totally isolated.** Therefore different power sources can independently operate each relay, if desired.

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