



## I/O Expander

### RIBMN24Q4C-PX

2.75" Track Mount 4 Output Programmable Staging Module with 24 Vac/dc Power and 0-10 Vdc Control Input

#### SPECIFICATIONS

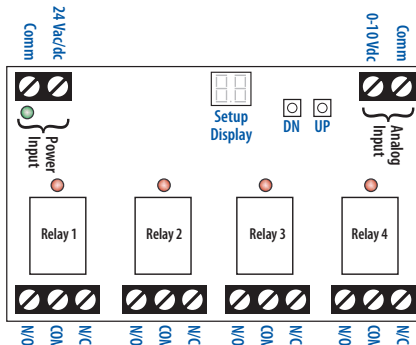
**# Relays & Contact Type:** Four (4) SPDT Continuous Duty Coil  
**Expected Relay Life:** 10 million cycles minimum mechanical  
**Operating Temperature:** -30 to 140° F  
**Relay Status:** Green LED On = Power On  
 Red LED On = Relay Activated  
**Dimensions:** 4.950" x 2.750" x 1.750"  
**Track Mount:** MT212-6 Mounting Track Provided  
**Approvals:** UL Listed, UL916, C-UL, CE, RoHS  
**Gold Flash:** No  
**Override Switch:** No

#### Contact Ratings:

15 Amp General Use @ 125 Vac  
 10 Amp General Use @ 277 Vac  
 10 Amp Resistive @ 30 Vdc N/O  
 7 Amp Resistive @ 30 Vdc N/C  
 1/2 HP @ 125 Vac  
 1 HP @ 250 Vac  
 1/4 HP @ 277 Vac  
 470 VA Pilot Duty @ 125 Vac  
 770 VA Pilot Duty @ 250 Vac

#### Power Input:

24 Vac/dc ; 50-60 Hz  
 200mA max.



#### Notes:

- » Relay will activate when control signal voltage reaches or exceeds individual relay setpoint.
- » Turn Off is set to 200mV less than setpoint
- » Factory relay setpoints:
  - » Relay 1: 3V      » Relay 3: 7V
  - » Relay 2: 5V      » Relay 4: 9V
- » Minimum setpoint: 0.5V
- » Maximum setpoint: 9.9V
- » Relay number will flash 3 times when voltage exceeds setpoint.
- » Pressing UP or DN button in normal run mode will display the voltage present on Analog Input.

## Notes

### Setup Procedure (If desired setpoint voltages are known)

1. Apply 24 Vac/dc to **Power Input** terminals.
2. Simultaneously press and hold both the UP and DN buttons for 3 seconds to enter Programming Mode.
3. Display will flash between the relay number and its setpoint. (Relay will be single digit on left without decimal point.)
4. Adjust value to desired setpoint using UP and DN buttons.
5. To save new setpoint and select the next relay, press UP and DN simultaneously.
6. Repeat steps 4 & 5 until all setpoints are adjusted to desired values.
7. Unit will exit Programming Mode after 20 seconds of inactivity or by simultaneously pressing and holding the UP and DN buttons for 3 seconds.

### Setup Procedure (If desired setpoint voltages are not known)

1. Apply 24 Vac/dc to Power Input terminals.
2. Apply DC analog voltage signal (set to desired turn on point) on **Analog Input** terminals.
3. Simultaneously press and hold both the UP and DN buttons for 3 seconds to enter Programming Mode.
4. Display will flash between the relay number and its setpoint.
5. Press UP button until setpoint is greater than Analog Input voltage.
6. Press DN button until relay number flashes 3 times to indicate turn on point.
7. To save new setpoint and select the next relay, press UP and DN simultaneously.
8. Repeat steps 5, 6, and 7 until all setpoints are adjusted.
9. Unit will exit Programming Mode after 20 seconds of inactivity or by simultaneously pressing and holding the UP and DN buttons for 3 seconds.

### Checking Setpoints

(Relay setpoints can be reviewed at any time with the following procedure.)

1. Apply 24 Vac/dc to **Power Input**.
2. Simultaneously press and hold both the UP and DN buttons for 3 seconds to enter Programming Mode.
3. Display will flash between the relay number and its setpoint. (Relay will be single digit on left without decimal point.)
4. To view the setpoint for additional relays, press UP and DN simultaneously until desired relay number is displayed.
5. Unit will exit Programming Mode after 20 seconds of inactivity or by simultaneously pressing and holding the UP and DN buttons for 3 seconds.