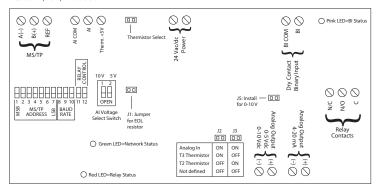
NETWORK COMPATIBLE RELAY

RIBTW24B-BCAO

Enclosed BACnet® MS/TP Network Relay Device; One Binary Output (20 Amp Relay SPDT + Override); One Binary Input (Dry Contact, Class 2); One Analog Output (0-5 Vdc, 0-10 Vdc, or 4-20 mA), One Analog Input (T2/T3 Thermistor / 0-5 Vdc / 0-10 Vdc); 24 Vac/dc Power Input; Optional End of Line Resistor (EOL) Included.

















Shown With



SPECIFICATIONS

Relays & Contact Type: One (1) SPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 18ms Network Communication: Green LED

Relay Status: Red LED On = Relay Activated

Binary Input Status: Pink LED On = Activated

Dimensions: 4.28" x 7.00" x 2.00" with .75" NPT Nipple Approvals: UL Listed, UL916, C-UL, RoHS, BTL Certified Housing Rating: UL Listed, NEMA 1, C-UL, CE Approved,

UL Accepted for Use in Plenum,

Gold Flash: No

Relay Override: DIP Switch Control

Network Media: Twisted Pair 22-24AWG, shielded

recommended

Terminations: Functional Devices product installed at

both ends of the MS/TP network – Use 120 Ω end of line resistors. All other cases - Follow instructions from the device

installed at the end of the

MS/TP network.

Polarity: Network is polarity sensitive Baud Rate: 9600, 19200, 38400, 57600, 76800,

115200 (DIP Switch Selectable)

Contact Ratings:

20 Amp Resistive @ 277 Vac 20 Amp Magnetic Ballast @ 277 Vac 16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Tungsten @ 120 Vac (N/O) 1110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac 2 HP @ 277 Vac

Power Input Ratings:

1 HP @ 120 Vac

176 mA @ 24 Vac 150 mA @ 24 Vdc

Notes:

- Use a separate 24 Vac transformer, or an isolated 24 Vdc power supply to power-up this product.
- Complete Installation Instructions: Bulletin B1756 available on website.
- When connecting 24 Vac to both the RIB(s) and a half-wave device, damage to device can occur. Option 1: Use separate transformers for each device. Option 2: Add diode between devices, see Option 2 note below. ^^

Thermistor Specifications:

- Thermistor Type 2 (T2) Precon 10 K @ 77°F (25°C) PN ST-R24, Model 24, (or equivalent.) Thermistor Type 3 (T3) Precon 10 K @ 77°F (25°C) Model 3, (or equivalent.) Thermistor not included.
- -35 to 10°C range in 1° steps / -31 to 50°F range in 1.8° steps 10 to 32°C range in 0.1° steps / 50 to 90°F range in 0.18° steps 32 to 100°C range in 1° steps / 90 to 212°F range in 1.8° steps

BACnet® Details:

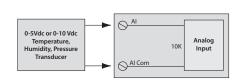
- This model utilizes: BO 1 (Relay output), BI 1 (Dry contact binary input), Al 1 (Analog input), AO 1 (Analog output)
- · PIC Statement available on website.
- Addressing Specifications: Bulletin B2028 available on website.

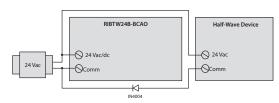
| ANALOG OUTPUT ACCURACY AS A FUNCTION OF OUTPUT SPAN (USING STANDARD CONDITIONS *) | | |
|---|-----------------|----------------|
| Span 20% - 100% | Span 10% - 100% | Span 0% - 100% |
| +/- 2% error | +/- 5% error | +/- 11% error |
| +/- 2% error | +/- 3% error | +/- 12% error |

* Standard Conditions:

Analog Output Voltage (0-5 Vdc; 0-10 Vdc) Analog Output Current (4-20 mA)

Power Supply Input: 22 Vac/dc to 28 Vac/dc; Loop Resistance (Analog Output 4-20 mA Loop): 530 Ohms max. Load Resistance [Analog Output Voltage (0-5 Vdc, 0-10 Vdc)]: 10 K Ohms min. ; Ambient Temperature: -30 to 140° F





^^ Option 2: Add diode on 24 Vac power (Comm) interconnection between devices. Band on diode faces towards RIB(s).