







NETWORK COMPATIBLE RELAY / CURRENT SENSOR COMBOS

RIBMNWX2402B-BC

2.75" Track Mount BACnet® MS/TP Network Relay Device; One Binary Output (20 Amp Relay SPDT + Override); Two Binary Inputs (One Current Sensor 0.25 - 20 Amp, Relay Load Sensing & One Dry Contact Binary Input), 24 Vac/dc or

208-277 Vac Power Input, Optional End of Line Resistor (EOL) Included.

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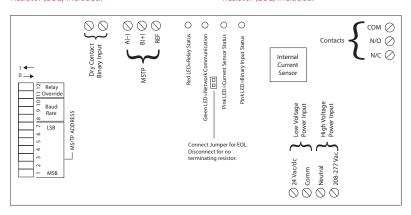












SPECIFICATIONS

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 = Activated Current Sensor Status: Pink LED On = Activated Binary Input Status: Pink LED On = Activated

Dimensions: 6.00" x 2.75" x 1.75" (RIBMNWX2402B-BC)

4.28" x 7.00" x 2.00"

with .75" NPT Nipple (RIBTWX2402B-BC)

Track Mount: MT212-6 Mounting Track Provided **Approvals:** CE, UL Listed, UL916, C-UL, RoHS Housing Rating: UL Listed, NEMA 1, C-UL, CE Approved,

UL Accepted for Use in Plenum, Also available NEMA 4 / 4X

Gold Flash: No

Relay Override Switch: 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.

Baud Rate: 9600, 19200, 38400, 57600, 76800, 115200 (DIP

Switch Selectable)

Contact Ratings:

20 Amp Resistive @ 277 Vac 20 Amp 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 1 HP @ 120 Vac

Power Input:

24 Vac/dc; 208-277 Vac; 50/60 Hz

Power Input Ratings:

105 mA @ 24 Vac 78 mA @ 24 Vdc 120 mA @ 208-277 Vac

Current Sensor Range:

0.25 - 20 Amps

Threshold fixed at .25 Amps.

Polarity: Network is polarity sensitive

DIP SWITCHES*			BAUD RATE
8	9	10	
0	0	0	9600
0	0	1	19200
0	1	0	38400
0	1	1	57600
1	0	0	76800
1	0	1	115200

All other combinations=9600 baud

DIP SW	ITCHES*	RELAY STATE**
11	12	
1	0	Auto
Χ	1	Override on
0	0	Override off

- *0 = Open; 1 = Closed
- ** Device must be powered for override

 Dry contact binary input is a general purpose input that is not tied to the relav internally. Can be used with any dry contact switching device, such as a current sensor, to report back to the network



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

Notes:

- Device can be powered by either 24 Vac/dc or 208-277 Vac, but not both.
- Order NEMA 4 housing by adding "-N4" to end of model number. (RIBTWX2402B-BC-N4)
- · Order with grey lid by adding "-GY" to end of model number. (RIBTWX2402B-BC-GY)
- Order NEMA 4 housing with grey lid by adding "-N4-GY" to end of model number. (RIBTWX2402B-BC-N4-GY)
- 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. ^^

BACnet® Details:

- MS/TP Address & Baud Rate must be set prior to power up via DIP switches.
- Device ID will default to 277XXX where XXX is the MS/TP Address. Examples:

MS/TP Address - 004 Device ID - 277004 MS/TP Address - 121 Device ID - 277121

- Device ID can be changed via network command. Once changed, it will no longer default to 277XXX. (MS/TP Address & Device ID must be unique.)
- This model utilizes: BO 1 (Relay output), BI 1 (Dry contact binary input), BI 2 (Internal current sensor input)
- · Software objects also included but not utilized: AI 1 (Analog input)
- Device Instance changed via Object Identifier Property of Device Object
- Each unit is 1/8 unit load if date code 041510 or later. (One full load prior to 041510)
- PIC Statement available on website. http://www.functionaldevices.com/pdf/ datasheets/pics/BACnetRIB_PICS_V105.pdf

Or scan QR code with your smart phone.

