

(800) 888-5538

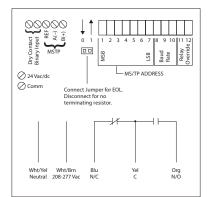
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NETWORK COMPATIBLE RELAY

RIBTW2402B-BC

Enclosed BACnet[®] MS/TP Network Relay Device; One Binary Output (20 Amp Relay SPDT + Override); One Binary Input (Dry Contact, Class 2); 24 Vac/dc or 208-277 Vac Power Input, Optional End of Line Resistor (EOL) Included.



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
Green LED: Network Communication
Red LED: Relay Status
Dimensions: 4.00° x 4.00° x 1.80° with .50° NPT Nipple
Wires: 16°, 600V Rated
Approvals: CE, UL Listed, UL916, C-UL, RoHS
Housing Rating: UL Accepted for Use in Plenum, NEMA 1
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.

 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 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 Ratings:

81 mA @ 24 Vdc 111 mA @ 24 Vac 121 mA @ 208-277 Vac

Power Input:

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

RELAY STATE**

Auto

Override on

Notes:

• 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).
- Device Instance changed via Object Identifier
 Property of Device Object
- PIC Statement available on website.

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



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0

1

DIP SWITCHES*

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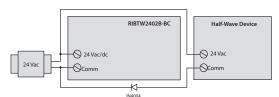
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** Device must be powered for override



• Dry contact binary input is a general purpose input that is not tied to the relay 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 (Comm) interconnection between devices. Band on diode faces towards RIB(s).