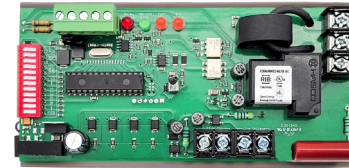
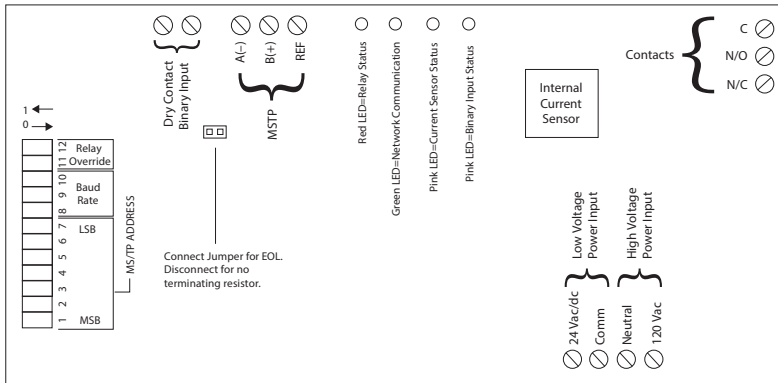


## INTELLIGENT FIELD DEVICE - RELAY / CURRENT SENSOR COMBO

### RIBMNWX2401B-BC

BACnet MS/TP Network Relay Device, One Binary Output + Override, Two Binary Inputs (One Current Sensor Relay Load Sensing & One Dry Contact Binary Input), 24Vac/dc/120 Vac Power Input, 2.75" Track Mount



### 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"H x 2.75"W x 1.25"D1/1.75"D2
- Housing Detail:** See **Housing H** in housing guide for dimensions
- Origin:** Made of US and non-US parts
- Track Mount:** MT212-6 Mounting Track Provided
- Approvals:** CE, UL Listed, UL916, C-UL, RoHS, BTL Certified
- 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:** 24 Vac/dc ; 120 Vac ; 50/60 Hz
- Power Input Ratings:**
  - 105 mA @ 24 Vac
  - 78 mA @ 24 Vdc
  - 105 mA @ 120 Vac
- Current Sensor Range:** 0.25 - 20 Amps  
Threshold fixed at .25 Amps.

- Notes:**
  - Device can be powered by either 24 Vac/dc or 120 Vac, but not both.
  - 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.
- |                     |
|---------------------|
| 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)
  - Device Instance changed via Object Identifier Property of Device Object
  - PIC Statement available on website.

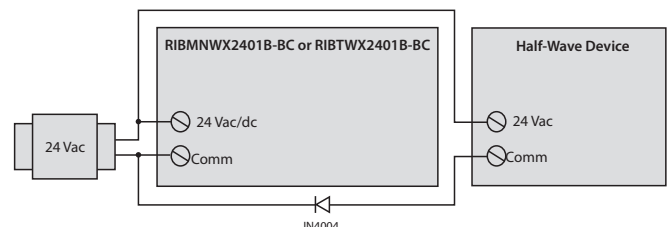
DIP SWITCHES*			BAUD RATE
8	9	10	
0	0	0	9600
0	0	1	19200
0	1	0	38400
0	1	1	57600
1	0	0	76800
1	0	1	115200

All other combinations=9600 baud

DIP SWITCHES*		RELAY STATE**
11	12	
1	0	Auto
X	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 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).