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NETWORK COMPATIBLE RELAY / CURRENT SENSOR COMBOS

RIBMNWX2401B-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 120 Vac Power Input, Optional End of Line Resistor (EOL) Included.

Functional

RIBMNWX2401B-BC.pdfEnclosed

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 120 Vac Power Input, Optional End of Line Resistor (EOL) Included.

Contact Ratings:

1 HP @ 120 Vac

Power Input:

20 Amp Resistive @ 277 Vac

1110 VA Pilot Duty @ 277 Vac

770 VA Pilot Duty @ 120 Vac 2 HP @ 277 Vac

24 Vac/dc ; 120 Vac ; 50/60 Hz

Power Input Ratings:

105 mA @ 24 Vac

78 mA @ 24 Vdc

0.25 - 20 Amps

105 mA @ 120 Vac

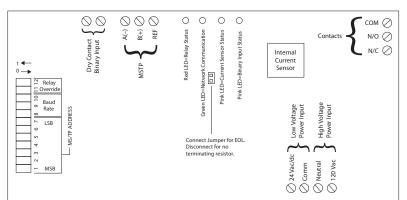
Current Sensor Range:

Threshold fixed at .25 Amps.

16 Amp Electronic Ballast @ 277 Vac (N/O)

10 Amp Tungsten @ 120 Vac (N/O)

20 Amp Ballast @ 277 Vac



SPECIFICATIONS

Ν

# Relays & Contact Type:	One (1) SPDT Continuous Duty Coil
, ,,	10 million cycles minimum mechanical
Operating Temperature:	
	5 to 95% (noncondensing)
Operate Time:	
letwork Communication:	
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″ (RIBMNWX2401B-BC)
	4.28″ x 7.00″ x 2.00″
	with .75" NPT Nipple (RIBTWX2401B-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
	Twisted Pair 22-24AWG, shielded recommended
Torminations	Eunstianal Davisas product installed at both ands

 Terminations:
 Functional Devices product installed at both ends of the MS/TP network – Use 120Ω 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:

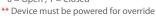
 9600, 19200, 38400, 57600, 76800, 115200 (DIP

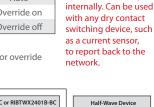
Switch Selectable)

DI	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
Х	1	Override on
0	0	Override off
* 0 = Open ;	1 = Closed	





Drv contact binarv

purpose input that is

not tied to the relay

input is a general











Notes:

• Device can be powered by either 24 Vac/dc or 120 Vac, but not both.

 Order NEMA 4 housing by adding "-N4" to end of model number. (RIBTWX2401B-BC-N4)
 Order with grey lid by adding "-GY" to end of model number. (RIBTWX2401B-BC-GY)
 Order NEMA 4 housing with grey lid by adding "-N4-GY" to end of model number.

(RIBTWX2401B-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/ datasheet/pics/BACnetRIB_PICS_V105.pdf

Or scan QR code with your smart phone.



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