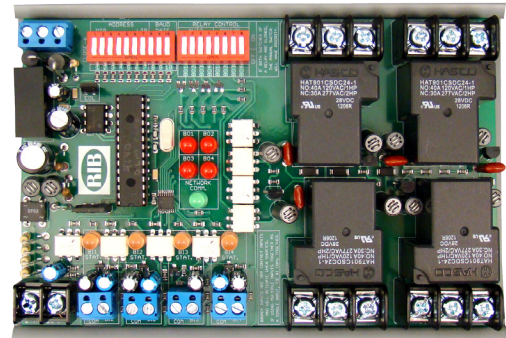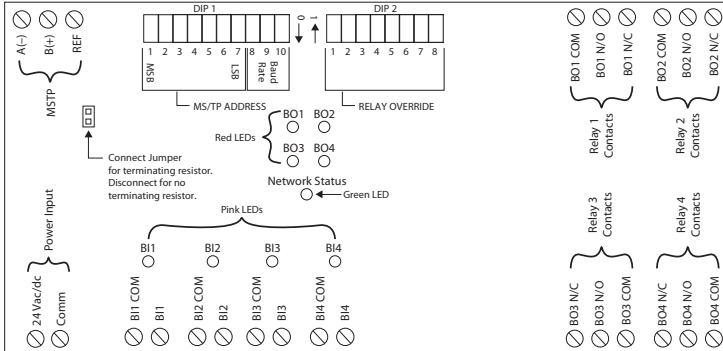## NETWORK COMPATIBLE RELAY

RIBMW24B-44-BC

4.00″ Track Mount BACnet® MS/TP Network Relay Device; Four Binary Outputs (20 Amp Relay SPDT + Override); Four Binary Inputs (Dry Contact Binary Inputs), 24 Vac/dc Power Input, Optional End of Line Resistor (EOL) Included.

c(UL)us LISTED   ASHRAE **BACnet**   CE   RoHS   Made in USA Meets **"Buy American"** of ARRA 2009

RELAYS

SPECIFICATIONS

# Relays & Contact Type:	Four (4) 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
Binary Input Status:	Pink LED On = Activated
Dimensions:	6.00″ L x 4.27″ W x 1.34″ H
Track Mount:	MT4-6 Mounting Track Provided
Approvals:	CE, UL Listed, UL916, C-UL, RoHS
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 @ 120/277 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:
24 Vac : 400 mA
24 Vdc : 190 mA

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: BO1, BO2, BO3, BO4, (Relay outputs), BI1, BI2, BI3, BI4 (Dry contact inputs)
• Device Instance changed via Object Identifier Property of Device Object
• Each unit is 1/8 unit load
• PIC Statement available on website.
http://www.functionaldevices.com/pdf/datasheets/pics/RIBMW24B-44-BC_PICS.pdf

Or scan QR code with your smart phone.

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DIP 1				
	DIP Switches			Baud Rate
1-7	8	9	10	
See Bulletin B1082 for full MS/TP Addressing	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

• Dry contact digital 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.

DIP 2										
Relay	Relay State**	DIP Switches*							
		1	2	3	4	5	6	7	8
BO1	Auto	1	X	X	X	0	X	X	X
	ON	X	X	X	X	1	X	X	X
	OFF	0	X	X	X	0	X	X	X
BO2	Auto	X	1	X	X	X	0	X	X
	ON	X	X	X	X	X	1	X	X
	OFF	X	0	X	X	X	0	X	X
BO3	Auto	X	X	1	X	X	X	0	X
	ON	X	X	X	X	X	X	1	X
	OFF	X	X	0	X	X	X	0	X
BO4	Auto	X	X	X	1	X	X	X	0
	ON	X	X	X	X	X	X	X	1
	OFF	X	X	X	0	X	X	X	0

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