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## INTELLIGENT FIELD DEVICE

## RIBTW2401B-BC

BACnet MS/TP Network Relay Device, One Binary Output + Override, One Binary Input, $24 \mathrm{Vac} / \mathrm{dc} / 120$ Vac Power Input, NEMA 1 Housing



## SPECIFICATIONS

\# Relays \& Contact Type: One (1) SPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical Operating Temperature: -30 to $140^{\circ} \mathrm{F}$

Humidity Range: 5 to $95 \%$ (noncondensing) Operate Time: 18 ms

Green LED: Network Communication
Red LED: Relay Status
Dimensions: $4.00^{\prime \prime} \mathrm{H} \times 4.00^{\prime \prime} \mathrm{W} \times 1.81^{\prime \prime} \mathrm{D}$ with $0.50^{\prime \prime} \mathrm{NPT}$ nipple Housing Detail: See Housing C in housing guide for dimensions

Origin: Made of US and non-US parts
Wires: $16^{\prime \prime}, 600 \mathrm{~V}$ 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 M S/TP network - Use $120 \Omega$ 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
$96 \mathrm{~mA} @ 120 \mathrm{Vac}$

Power Input:
$24 \mathrm{Vac} / \mathrm{dc} ; 120 \mathrm{Vac} ; 50 / 60 \mathrm{~Hz}$

## Notes:

- When connecting 24 Vac to both the $\mathrm{RIB}(\mathrm{s})$ 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. ^^

|  | 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]- 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.


[^0]:    * 0 = Open ; 1 = Closed
    ** Device must be powered for override

