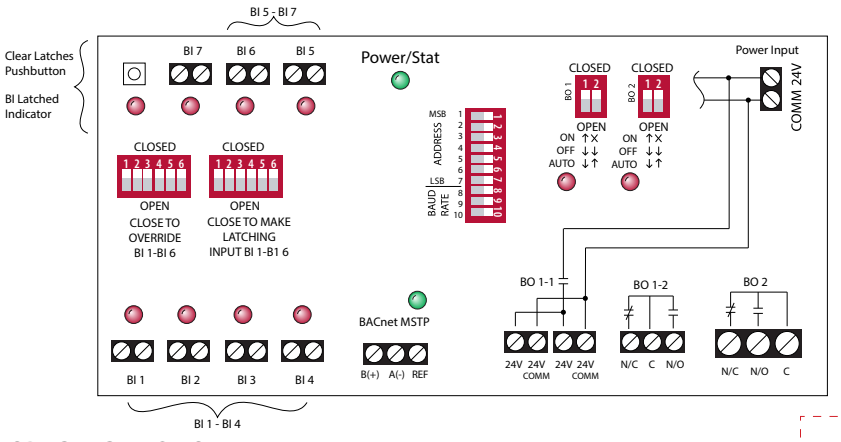
RIBMNWLB-7-BC

AHU Fan Safety Alarm and General Purpose Logic Circuit, BACnet MS/TP Network, 24 Vac/dc Power Input, Two Binary Outputs + Override, Seven Binary Inputs, 2.75" Track Mount





RIBMNWLB-7-BC

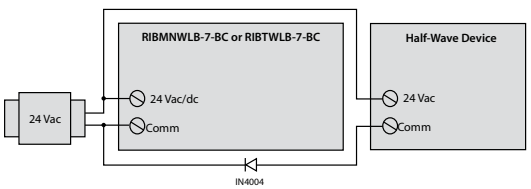
SPECIFICATIONS

Expected Relay Life: 10 million cycles minimum mechanical
Operating Temperature: -30 to 140° F
Humidity Range: 5 to 95% (noncondensing)
Operate Time: 8ms
Power Input: 24 Vac/dc: 50-60 Hz
Max current input determined by adding load current user applies to BO 1-1 (3A Max) plus 75 mA @ 24 Vac or 30 mA @ 24 Vdc depending on power source supplied by user to power RIB device, 24 Vac or 24 Vdc
Dimensions: 6.62"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
Approvals: UL864, UL916, C-UL, CE, RoHs, CSFM
Relay Rating, BO 1-1: 3 Amp Max @ 24 Vac or 24 Vdc (depending on power source supplied by user to power RIB device)
Relay Rating, BO 1-2: 10 Amp Resistive @ 30 Vdc
10 Amp General Use @ 277 Vac
1/2 HP @ 120/240 Vac
Relay Rating, BO 2: 20 Amp Resistive @ 277 Vac
5 Amp @ 480 Vac
20 Amp Ballast @ 277 Vac
16 Amp Electronic Ballast @ 277 Vac
1 HP @ 120 Vac
2 HP @ 277 Vac
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)

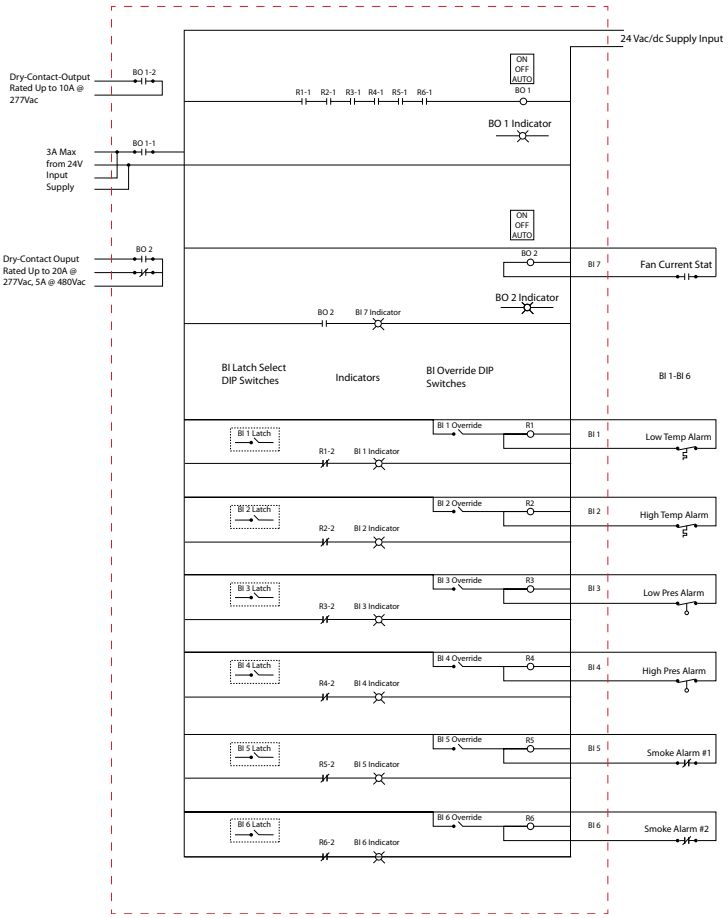
Notes:

- 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. ^^

- The RIBMNWLB-7-BC is set in Fan-Safety-Circuit mode by default from the factory. Fan-Safety-Circuit mode sets up BI 1 – BI 6 in an AND function, so that when all 6 binary inputs are closed, BO 1 will close. Opening any of the 6 binary inputs will open BO 1.
- BO 2 is bound to BI 7 such that when BI 7 is closed, BO 2 relay will activate. Binding and Priority level can be set by properties in BO 2.
- The RIBMNWLB-7-BC can also be enabled as an I/O board with 2 binary output relays and 7 general-purpose binary inputs.



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



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	MS/TP Address - 121
Device ID - 277004	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.)

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

* 0 = Open ; 1 = Closed