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# **NETWORK COMPATIBLE RELAYS**

# RIBTW2401B-LN

LonWorks® Twisted-Pair FT-10 Network Enclosed Dual I/O Device: One Binary Output (20 Amp Relay SPDT), One Binary Input (Dry Contact Class 2); 24 Vac/dc or 120 Vac Power Input



# **SPECIFICATIONS**

Operating Temperature: -30 to 140° F

# RIBTW2402B-LN

LonWorks<sup>®</sup> Twisted-Pair FT-10 Network Enclosed Dual I/O Device: One Binary Output (20 Amp Relay SPDT), One Binary Input (Dry Contact Class 2); 24 Vac/dc or 208-277 Vac Power Input



**Contact Ratings:** 

2 HP @ 277 Vac

1 HP @ 120 Vac

**Power Input Ratings:** 

111 mA @ 24 Vac

81 mA @ 24 Vdc

20 Amp Resistive @ 277 Vac

20 Amp Ballast @ 120/277 Vac (N/O)

96 mA @ 120 Vac (RIBTW2401B-LN)

105 mA @ 208-277 Vac (RIBTW2402B-LN)

20 Amp Ballast @ 277 Vac (N/C) 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



Power Input: 24 Vac/dc ; 120 Vac ; 50-60 Hz (RIBTW2401B-LN) 24 Vac/dc ; 208-277 Vac ; 50-60 Hz (RIBTW2402B-LN)

### Notes:

• Order with P1 option by adding "-P1" to end of model number. The P1 option is pre-programmed to allow dry contact binary input to command the relay. Contact closure on the BI will activate relay.

• 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.

Operate Time:	18ms
Green LED:	Network Status
Red LED:	Relay Status
Yellow LED:	Service Status
Pink LED:	Binary Input Status
Dimensions:	4.00" x 4.00" x 1.80" with .50" NPT Nipple
Wires:	16″, 600V Rated
Approvals:	FCC, LonMark®
	UL Listed, UL916, C-UL
Housing Rating:	UL Accepted for Use in Plenum, NEMA 1
Gold Flash:	No
Override Switch:	No
Channel:	TD/ET-10
· · · · ·	FT5000 Smart Transceiver
Transceiver Compatibility:	FT3120 / FT3150, FTT-10 / FTT-10A, and
	LPT-10 / LPT-11 Tranceivers
Functional Blocks:	0000 Node Object

# Relays & Contact Type: One (1) SPDT Continuous Duty Coil

Humidity Range: 5 to 95% (noncondensing)

Expected Relay Life: 10 million cycles minimum mechanical

Functional Blocks: 0000 Node Object 0004 Closed Loop Actuator Object 0001 Open Loop Sensor Object Downloadable Files: PDF, XIF, APB, VSS and NXE available on website.



Option 2: Add diode on 24 Vac power (Com) interconnection between devices. Band on diode faces towards RIB(s). DESCRIPTION **SNVT NAME SNVT TYPE** Command to open/close relay nvi Value SNVT\_switch Command status of relay nvo Value Fb SNVT\_switch Default state of relay on/off nci Default SNVT\_switch Communication timer nci Max Receive T SNVT\_elapsed\_tm Status of Binary Input nvo Value SNVT\_switch Invert status of Binary Input nci Invert SNVT\_lev\_disc Max time between updates nci Max Send T SNVT\_elapsed\_tm nci Min Send T SNVT\_elapsed\_tm Min time between updates

The relay will go to the default state when the communication timer times out. Setting the timer value to zero will cause the communication to never time out.

It is recommended to put a value in nci Max Send T to ensure the RIB re-synchronizes itself on the network after power loss. It is the responsibility of the user to ensure this value does not cause conflicts in network traffic. (No value = No "heartbeat" updates / no re-sychronization; Low Value = Many updates but may cause many traffic collisions; High value = Few updates but many less collisions.)

