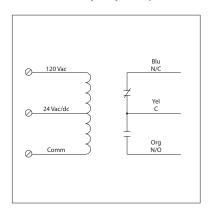
20 AMP TIME DELAY RELAY

RIBTD2401B

Enclosed Time Delay Relay 20 Amp SPDT with 24 Vac/dc/120 Vac Coil













SPECIFICATIONS

Relays & Contact Type: One (1) 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: 6ms after time delay Relay Status: RED LED On = Activated Time Delay Status: PINK LED FLASHING = Timing Timing Mode: Delay On Make (N/O) Timing Range: 6 seconds - 20 minutes

Timing Adjustment: 4 position DIP switch for range selection and single turn potentiometer for timing

adjustment within range

Timing Tolerance: Switches $1\& 2 = \pm 10\%$ Switches $3 \& 4 = \pm 5\%$

Timing Repeatability: ±1% Temperature Timing Variance: ±1% Voltage Timing Variance: ±1%

Recycle Time: 750ms Maximum

Dimensions: 4.00" x 4.00" x 1.80" with .50" NPT nipple Approvals: UL Listed, UL916, C-UL, CE, RoHS

Housing Rating: UL Accepted for Use in Plenum, NEMA 1

Gold Flash: No Override Switch: No

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) 770 VA Pilot Duty @ 120 Vac 1,110 VA Pilot Duty @ 277 Vac

2 HP @ 277 Vac 1 HP @ 120 Vac

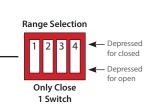
Input Current: 133 mA @ 24 Vac

45 mA @ 24 Vdc 51 mA @ 120 Vac $24\,Vac/dc$; $120\,Vac$; $50\text{-}60\,Hz$ Drop Out = 3 Vac / 3.8 VdcPull In = 20 Vac / 20 Vdc

Coil Voltage Input:

Timing Adjustment

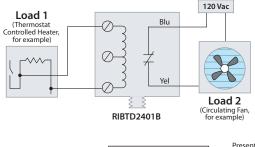


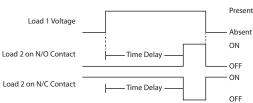


TIMING TABLE						
Switch Ranges	Close Dip Switch	Potentiometer Setting A ← → B ← → C ← → D ← E				
6s-20s	1	6s	9s	13s	16s	20s
22s-1min15s	2	22s	36s	50s	1min4s	1min15s
1min30s-5min	3	1min30s	2min10s	3min20s	4min16s	5min
6min-20min	4	6min	9min	13min20s	17min20s	20min

Time Delay Application Example #1

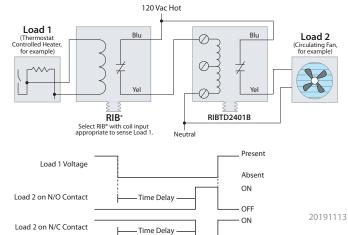
Load 2 stays ON selected amount of time after Load 1 turns ON (N/C) Load 2 stays OFF selected amount of time after Load 1 turns ON (N/O)





Time Delay Application Example #2 (Requires an Inverting Relay)

Load 2 stays ON selected amount of time after Load 1 turns OFF (N/C) Load 2 stays OFF selected amount of time after Load 1 turns OFF (N/O)





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Seller shall not be liable for loss, damage, or expense directly or indirectly caused from the failure of Products to perform as expected.

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- 10. EXPORTS. Buyer agrees that it will comply with any and all U.S. Export Controls and will not pay for, resell, transfer or knowingly sell Products in violation of U.S. Export Controls. If Buyer resells Products within or exports Products to a country or region which imposes upon Seller and/or Buyer an obligation to fund or undertake reuse, recycling, composting, recovery of Products, or any similar obligation (e.g., the European Union's Waste Electrical and Electronic Equipment Directive, EC 2002/96/EC) (the "Obligations"), Buyer shall wholly undertake the Obligations or duties and shall be entirely responsible for all associated costs therewith. Seller shall have no obligation to reimburse Buyer for execution of the Obligations. In the event that Seller is named in a proceeding based upon the Obligations, Buyer shall indemnify, defend and hold Seller harmless from all actions related thereto, including all civil and governmental actions.
- 11. MISCELLANEOUS. This Agreement is governed by the laws of the State of Indiana, without giving effect to its conflict of laws principles. Buyer hereby irrevocably consents and submits to the exclusive jurisdiction and venue of the state and federal courts in Marion County, Indiana. The United Nations Convention for Contracts for the International Sale of Goods is explicitly excluded. Each provision contained in this Agreement constitutes a separate and distinct provision severable from all other provisions. If any provision (or any part thereof) is unenforceable under or prohibited by any present or future law, then such provision (or part thereof) will be amended, and is hereby amended, so as to be in compliance with such law, while preserving to the maximum extent possible the intent of the original provision. Any provision (or part thereof) that cannot be so amended will be severed from this Agreement; and, all the remaining provisions of this Agreement will remain unimpaired. No modification, addition or deletion, or waiver of any rights under this Agreement is binding on a party unless made in a non-preprinted agreement clearly understood by the parties to be a modification or waiver, and signed by a duly authorized representative of each party.