Time Delay Relay

## RIBD2421C

Enclosed Time Delay Relay 10 Amp SPDT with
24 Vac/dc/120-277 Vac Coil



Wiring diagram:
- Wht/Brn 120-277 Vac
- Wht/Blu 24 Vac/dc
- Wht/Yel Comm
- Blu N/C
- Yel Comm
- Org N/O
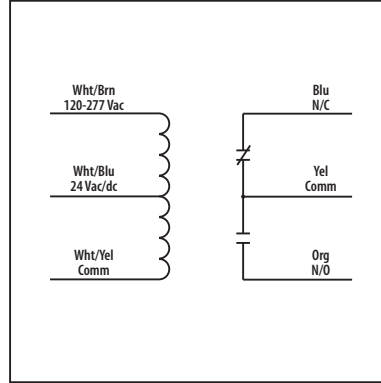
### ■ SPECIFICATIONS

| | |
|---|---|
| **# Relays & Contact Type:** | One (1) SPDT Continuous Duty Coil |
| **Expected Relay Life:** | 10 million cycles minimum mechanical |
| **Operating Temperature:** | -30 to 140° F |
| **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 = ±10% |
| | Switches 3 & 4 = ±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 |
| **Wires:** | 16″, 600V Rated |
| **Approvals:** | UL Listed, UL916, UL864, C-UL California State Fire Marshal, CE, RoHS |
| **Housing Rating:** | Plenum, NEMA 1 |
| **Gold Flash:** | No |
| **Override Switch:** | No |

**Contact Ratings:**
10 Amp General Use @ 277 Vac
10 Amp Resistive @ 30 Vdc N/O
7 Amp Resistive @ 30 Vdc N/C
1/2 HP @ 125 Vac
1 HP @ 250 Vac
1/4 HP @ 277 Vac
C300 Pilot Duty

**Input Current:**
110 mA @ 24 Vac
33 mA @ 24 Vdc
61 mA @ 120-277 Vac

**Coil Voltage Input:**
24 Vac/dc ; 120-277 Vac ; 50-60 Hz
Drop Out = 3 Vac / 3.8 Vdc
Pull In = 20 Vac / 20 Vdc

**Notes:**
» Order with terminals for coil voltage input by using model number RIBTD2421C



**Timing Adjustment**

**Range Selection**

| 1 | 2 | 3 | 4 |
|---|---|---|---|
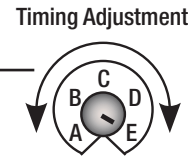
Close Only 1 Switch

### TIMING CHART

| 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 |

### DELAY ON MAKE (N/O)
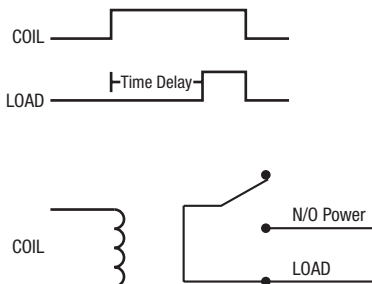


### APPLICATION FOR INTERVAL (N/C)
Note: Load Power + Coil Input
must use same voltage source
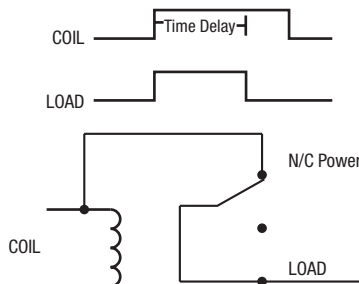


### APPLICATION FOR DELAY ON BREAK (N/C)
(See Time Delay application in Application Manual on website.)