DYNACON INC
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RIBD2421C TIME DELAY RELAY

MULTI-FUNCTION, MULTI-VOLTAGE

Adjustable 6 Seconds to 20 Minutes

Provide time delay switching functions for electrical loads in building automation and HVAC systems.

- **Selectable timing functions and time ranges.**
- **Leadwires exit through 1/2" NPT nipple in NEMA 1 enclosure.**
- **Powered by any one of multiple AC and DC voltages.**
- **SPDT relay contacts rated for minimum of 10 million cycles.**
- **Relay activation and time delay status LED's.**

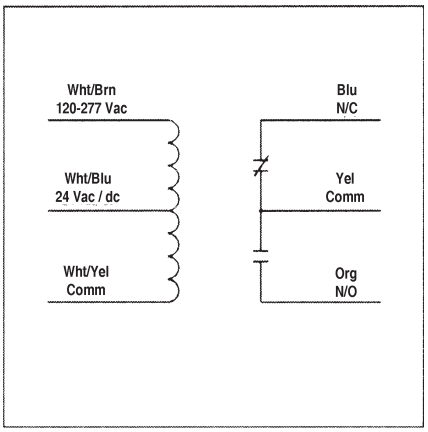
APPROVALS: UL listed; UL916; UL864; C-UL Canada; CSFM.
SUPPLY VOLTAGE: 24 vac/dc, 120 to 277 vac 50/60 Hz.
TIMING MODES: Delay on make, delay on break, interval.
TIMING RANGE: 6 seconds to 20 minutes.
TIMING ADJUSTMENT: 4-position dip switch for range selection and potentiometer for timing adjustment within range.
OPERATE TIME: 6 milliseconds after time delay.
TIMING TOLERANCE: Switches 1 and 2: +/-10%. Switches 3 and 4: +/-5%.
RECYCLE TIME: 750 milliseconds, maximum.

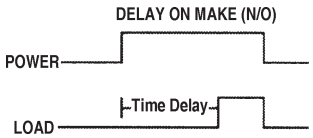
OPERATING TEMPERATURE: -30° to 140°F (-34° to 60°C).
RELAY STATUS: Red LED on = activated.
TIME DELAY STATUS: Pink LED flashing = timing.
TIMING REPEATABILITY: +/-1%.
TEMPERATURE REPEATABILITY: +/-1%.
VOLTAGE TIMING VARIANCE: +/-1%
LEADWIRES: 16" (40.6cm), 600V rated.
ENCLOSURE: Plenum rated, NEMA 1.
DIMENSIONS: 4"H x 4"W x 1.8"D (10.2 x 10.2 x 4.6cm) with 1/2" NPT nipple.

TIMING CHART

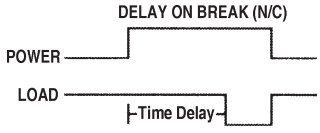
Switch Ranges	Close DIP Switch	POTENTIOMETER SETTING A ◄► B ◄► C ◄► D ◄► E				
6s - 20s	1	6s	9s	13s	16s	20s
22s - 1min15s	2	22s	36s	50s	1min4s	1min15s
1miin30s - 5 min	3	1min30s	2min10s	3min20s	4min16s	5min
6min - 20min	4	6min	9min	13min20s	17min20s	20min

LEADWIRE COLOR CODE

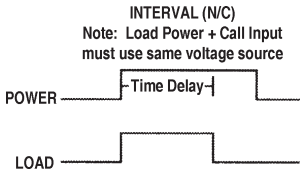




DELAY ON MAKE (ON-Delay)
When power is applied to the relay coil, the time delay period begins. At the end of the time delay, the N/O relay contact closes energizing the load. The unit resets when power is removed and reapplied.



DELAY ON BREAK (OFF-Delay)
When power is applied to the relay coil, the load is energized and the time delay period begins. At the end of the time delay, the N/C relay contact opens removing power from the load. The unit resets when power is removed and reapplied.



INTERVAL (N/C)
The load is energized and the time delay period begins when power is applied. At the end of the time delay, the N/C relay contact opens de-energizing the load, and it remains de-energized until power is removed and reapplied.

Model	Time Delay Range	Supply Voltage	Input Current	Relay Type	Contact Ratings
RIBD2421C	6 seconds to 20 minutes	24 vac/dc, 120-277 vac 50/60Hz	100 ma @ 24 vac, 30 ma @ 24 vdc, 55 ma @ 277 vac	SPDT	10A Resistive @ 30 vdc; 10A General Use @ 250 vac; 1/2 HP @ 125-250 vac; 470VA Pilot Duty @ 120-240 vac