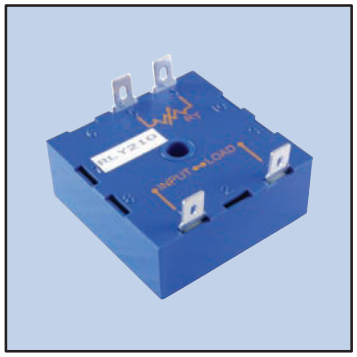
Cube Timers – Delay on Operate

RLY210 Series

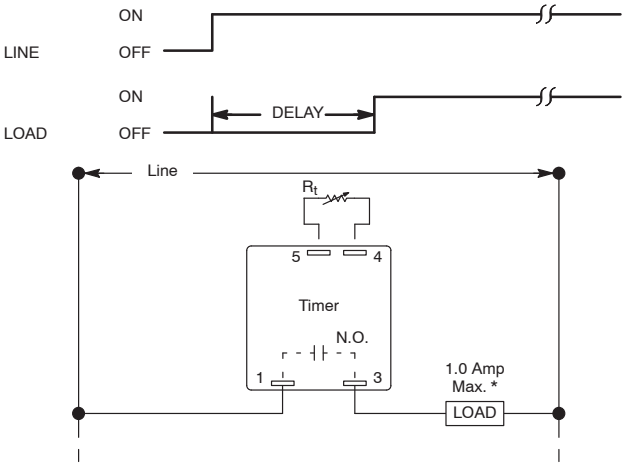
Features

- 2 x 2 Industry Standard Package
- 19–264 Volts AC or DC Operation
- 12 to 480 Seconds Timing Range
- ±2% Repeat Accuracy
- .250" Quick Connect Terminals
- Encapsulated Construction



OPERATION

DELAY ON OPERATE– The delay period begins when input voltage is applied. At the end of the delay period, the relay will operate and will not release until input voltage is removed. Reset occurs when input voltage is reapplied.



* For higher current applications connect a switching relay in series with timer in place of load.

External Resistor Adjustable, AC or DC, Delay on Operate, Solid State, Universal Cube Timer.

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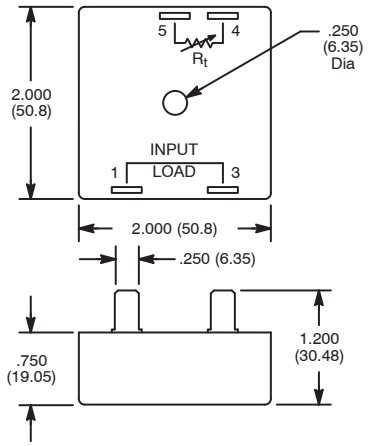

Potentiometer Timing

Potentiometer Value (Ohms)	Approx. Timing Range (Sec.)
100K	12 to 18
250K	12 to 40
500K	12 to 70

Potentiometer Value (Ohms)	Approx. Timing Range (Sec.)
1.0M	12 to 150
2.5M	12 to 300
5.0M	12 to 480

Fixed Resistor Timing

Resistor Value (Ohms)	Approx. Time * (Sec.)
25	12
27	13
29	14
33	16
35	17
37	18
41	20
45	22
50	24
54	26
62	30
66	32
72	35
79	38

Resistor Value (Ohms)	Approx. Time * (Sec.)
87	42
97	47
104	50
116	56
125	60
145	70
150	72
166	80
179	86
197	95
218	105
260	125
291	140

Resistor Value (Ohms)	Approx. Time * (Sec.)
312	150
354	170
375	180
395	190
479	230
510	245
531	255
625	300
729	350
791	380
864	415
968	465
1.0K	480

* Approximate – Actual time value will depend on tolerance of resistor.

External Resistance Selection:
The delay period is set by placing resistance across designated pins or terminals. The resistor or potentiometer should be a 1/4W or larger. To determine the resistor value required for a specific time delay, use the following formula:

$$R_{ext} = \frac{T_{des}}{T_{max}} \times 1000$$

R_{ext} = Resistance value required to obtain T_{des} (in K ohms)
T_{des} = Desired time delay
T_{max} = Maximum delay period of the timer

Ratings and Specifications

Operating Voltage Range (Line): 19–264 V DC or AC (50/60Hz)
Switch Configuration: Solid State, SPST
Switching Current (Load): 40mA Amp min., 1 Amp max.
Timing Adjustment Range: 12 to 480 seconds
External Timing Resistance: See Tables
Repeat Accuracy: ±2%
Expected Life (Electrical): 100,000,000 operations @ rated load
Operating Temperature: –20° to +65°C
Storage Temperature: –30° to +85°C
Dielectric Breakdown Voltage Between All Elements: 1500V_{rms}
Transient Protection: 1500 V for 150µs
Mounting: One #8 or #10 Screw