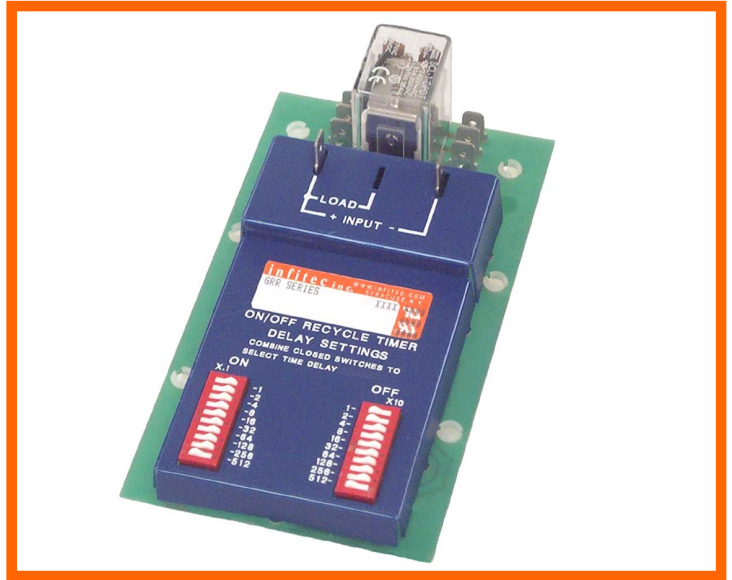




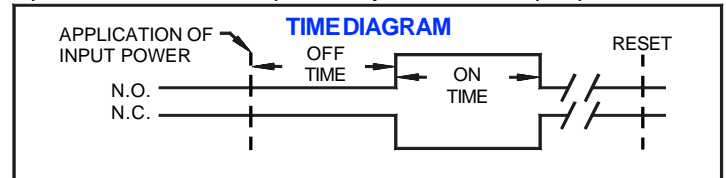
P.O. Box 2956 · Syracuse · New York · 13220
 Phone: (315) 433-1150 Fax: (315) 433-1521
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GRR SERIES OPEN BOARD, RECYCLING TIME DELAY RELAY



OFF/ONRECYCLE

Upon application of power to the input terminals, the **OFF** delay begins. Upon completion of the **OFF** delay, the output contacts transfer and the **ON** delay begins. Upon completion of the **ON** delay, the output contacts revert to their original position and the cycle repeats. Reset is accomplished by removal of input power.



FEATURES

- C/MOS Digital Circuitry
- Independent Timing Adjustments
- No First Cycle Effect
- 0.1% Repeat Accuracy
- Rocker Type Dip Switches For Positive Switch Settings
- DPDT 10 Ampere Output Rating
- UL/cUL Pending

SPECIFICATIONS

1. Time Delay.

- 1.1 Type: C/MOS Digital Circuitry
- 1.2 Range: Five ranges available. Delay time is set via a 10 position, binary dip switch. (see ordering information)
- 1.3 Repeat accuracy: $\pm 0.1\%$ under fixed conditions
- 1.4 Setting accuracy: $\pm 1\%$
- 1.5 Reset time: 50 milliseconds maximum
- 1.6 Recycle time: 100 milliseconds during
- 1.7 Time delay vs. voltage and temperature: $\pm 2\%$

2. Input.

- 2.1 Operating voltage: 24, 120 & 230 VAC, 12 & 24/28 VDC
- 2.2 Tolerance: $\pm 20\%$ of nominal
- 2.3 Frequency: 50 - 60 Hertz

3. Output.

- 3.1 Type: Electromechanical relay
- 3.2 Form: DPDT
- 3.3 Rating: 10 amperes resistive at 120 VAC
- 3.4 Life: Electrical - full load - 1,000,000 operations
 Mechanical - 10,000,000 operations

4. Protection.

- 4.1 Transient: ± 1500 volts for 150 microseconds
- 4.2 Polarity: DC units are reverse polarity protected
- 4.3 Dielectric breakdown: 1500 volts RMS minimum

5. Mechanical.

- 5.1 Mounting: #6 screw clearance (6 places)
- 5.2 Termination: 1/4" quick connect terminals
- 5.3 Style: Open board / surface mount, conformal coated

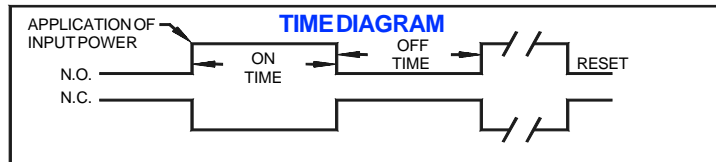
6. Environmental.

- 6.1 Operating temperature: -20°C to $+80^{\circ}\text{C}$
- 6.2 Storage temperature: -30°C to $+85^{\circ}\text{C}$
- 6.3 Humidity: 95% relative, non-condensing

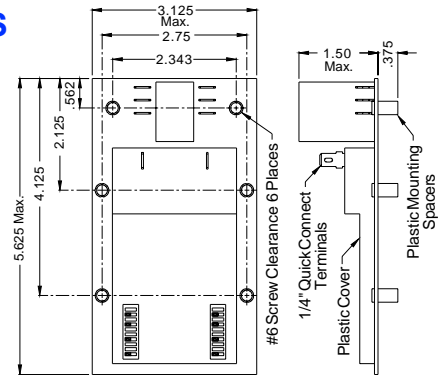
MODE OF OPERATION

ON/OFFRECYCLE

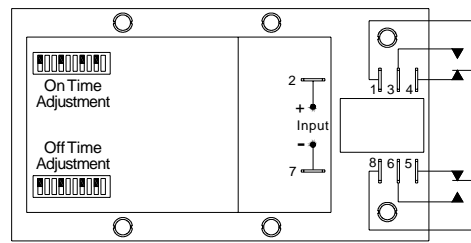
Upon application of power to the input terminals, the **ON** delay begins and the output contacts transfer. Upon completion of the **ON** delay, the output contacts revert back to their original position and the **OFF** delay begins. Upon completion of the **OFF** delay, the output contacts again transfer and the cycle repeats. Reset is accomplished by removal of input power.



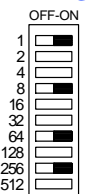
DIMENSIONS



CONNECTION DIAGRAM



DELAY SETTINGS



STYLE 2
 Ex. 329 Sec.
 (example)

ORDERING INFORMATION

SERIES	INPUT VOLTAGE	CYCLE	1ST TIME RANGE	2ND TIME RANGE
GRR	1 - 12 VDC	1 - On Time First	1 - 0.1 - 102.3 Seconds	1 - 0.1 - 102.3 Seconds
	2 - 24/28 VDC		2 - 1 - 1023 Seconds	2 - 1 - 1023 Seconds
	4 - 24 VAC	2 - Off Time First	3 - 10 - 10230 Seconds	3 - 10 - 10230 Seconds
	5 - 120 VAC		4 - 1 - 1023 Minutes	4 - 1 - 1023 Minutes
	6 - 230 VAC		5 - 10 - 10230 Minutes	5 - 10 - 10230 Minutes