



P.O. Box 2956 • Syracuse • New York • 13220
 Phone: (315) 433-1150 Fax: (315) 433-1521
 Toll Free US & Canada: (800) 334-0837
 Email: sales@infitec.com

GRR SERIES OPEN BOARD, RECYCLING TIME DELAY RELAY

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 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 Timing
- 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

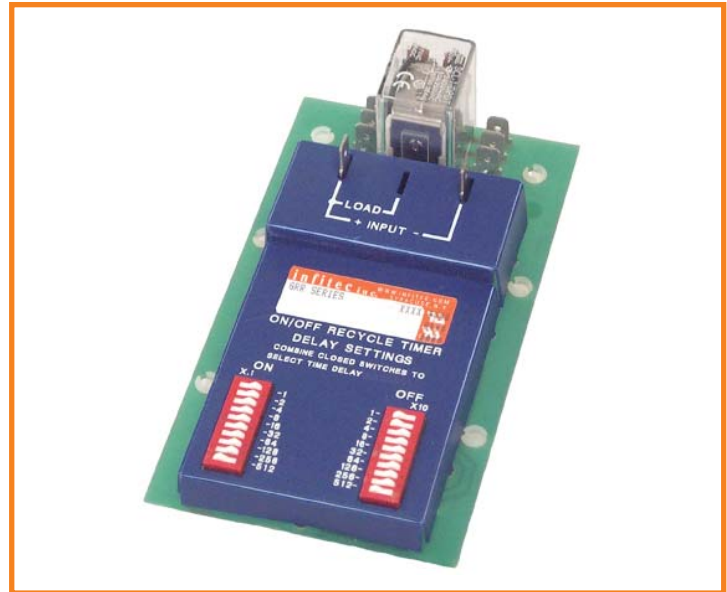
- 4.1 Transient: ± 1500 Volts for 150 Microseconds
- 4.2 Polarity: DC Units Are Reverse Polarity Protected
- 4.3 Dielectric Breakdown: 1500 Volts RMS Minimum

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

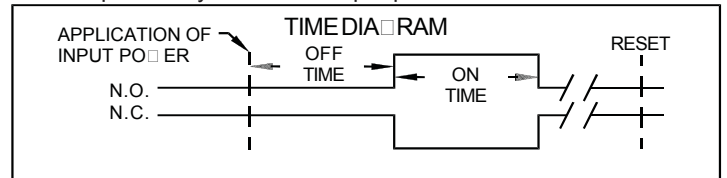
6. Environmental

- 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

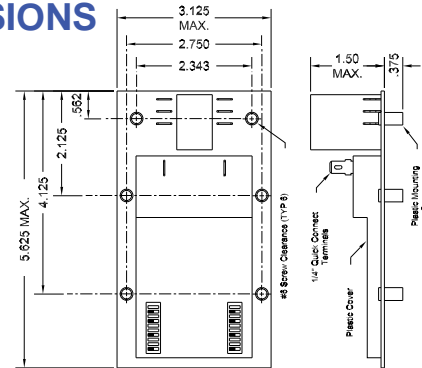


OFF/ON RECYCLE

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.



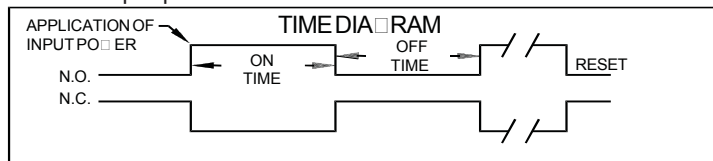
DIMENSIONS



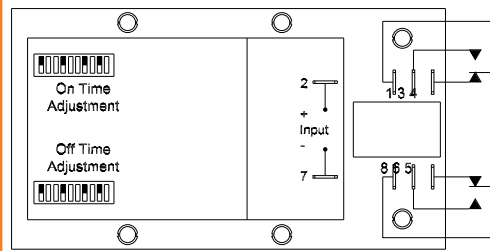
MODE OF OPERATION

ON/OFF RECYCLE

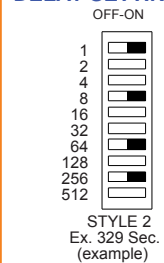
Upon application of power to the input terminals, the ON delay begins and the output contacts transfer. Upon completion of the ON delay, the output contacts revert back to their original position and the OFF delay begins. Upon completion of the OFF delay, the output contacts again transfer and the cycle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



CONNECTION DIAGRAM



DELAY SETTINGS



ORDERING INFORMATION

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