



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

# SDIR SERIES DELAYED INTERVAL OPEN BOARD TIME DELAY RELAY



File E80165  
 UL Guide NKCR2  
 cUL Guide NKCR8

## FEATURES

- C/MOS Digital Circuitry
- Time Delays From 0.05 Seconds To 1000 Minutes
- No First Cycle Effect
- 0.5% Repeat Accuracy
- 2% Stability Over Voltage And Temperature
- Low Cost Open Board Construction
- DPDT 10 Ampere Output Rating

## SPECIFICATIONS

### 1. Time Delay.

- 1.1 Type: C/MOS Digital Circuitry
- 1.2 Range: From 0.05 seconds to 1000 minutes. Fixed delays available (see time delay range chart)
- 1.3 Repeat accuracy:  $\pm 0.5\%$  under fixed conditions
- 1.4 Setting accuracy:  $\pm 10\%$
- 1.5 Reset time: 100 milliseconds maximum
- 1.6 Recycle time: 150 milliseconds
- 1.7 Time delay vs. voltage and temperature:  $\pm 2\%$

### 2. Input.

- 2.1 Operating voltage: 24, 120 & 230 VAC, 12, 24 & 110 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 @ 30 VDC, 120/240 VAC
- 3.4 Life: Electrical - full load - 1,000,000 operations  
 Mechanical - 10,000,000 operations

### 4. Protection.

- 4.1 Transient:  $\pm 1500$  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 (4 places)
- 5.2 Termination: 3/16" or 1/4" quick connect terminals
- 5.3 Style: Open board / surface mount

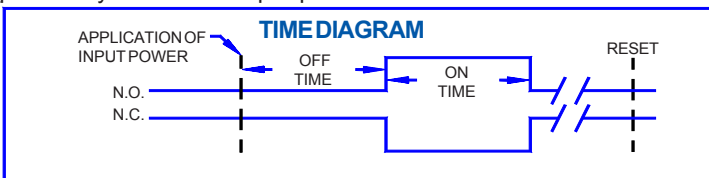
### 6. Environmental.

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

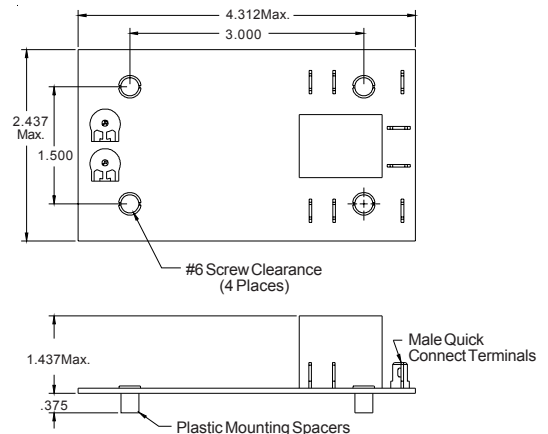
## MODE OF OPERATION

### DELAYED INTERVAL

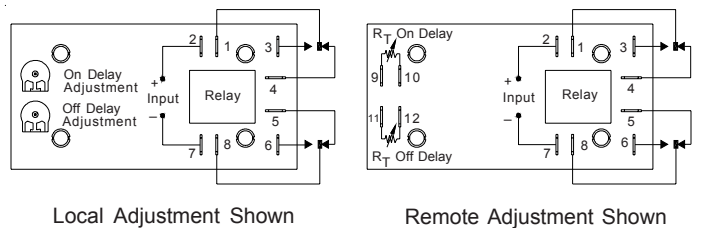
Upon application of power to the input terminals, the **OFF** delay begins. Upon completion of the **OFF** delay, the output contacts transfer and the **ON** delay begins. Upon completion of the **ON** delay, the output contacts revert to their original position. Reset is accomplished by removal of input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



## DIMENSIONS



## CONNECTION DIAGRAMS



## ORDERING INFORMATION

SERIES	TERMINATION	INPUT VOLTAGE	ADJUSTMENT	1ST TIME RANGE	2ND TIME RANGE
SDIR	2 - 3/16" Quick Connect 3 - 1/4" Quick Connect	1 - 12VDC 2 - 24/28VDC 3 - 110VDC 4 - 24VAC 5 - 120VAC 6 - 230VAC	0 - Local 1 - Fixed 2 - Remote Adjust.		See Time Delay Range Chart