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# SDIR SERIES DELAYED INTERVAL OPEN BOARD TIME DELAY RELAY

## 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

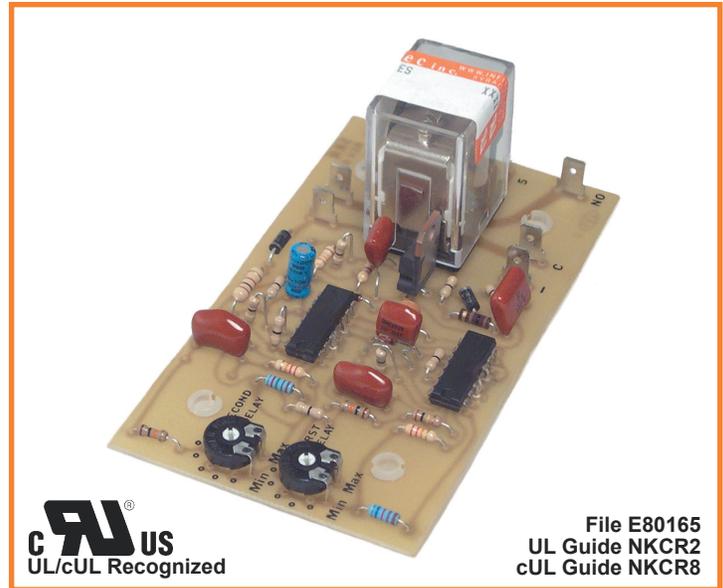
- 4.1 Transient:  $\pm 1500$  Volts for 150 Microseconds
- 4.2 Polarity: DC Units are Reverse Polarity Protected
- 4.3 Dielectric Breakdown: 1500 Volts RMS Minimum

### 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

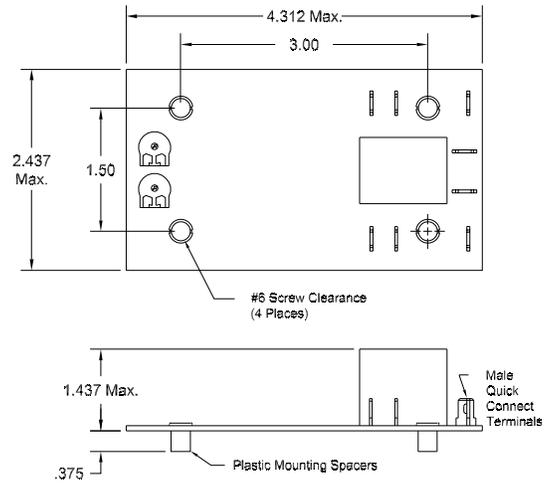
- 6.1 Operating Temperature:  $-20^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- 6.2 Storage Temperature:  $-30^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- 6.3 Humidity: 95% Relative Non-Condensing



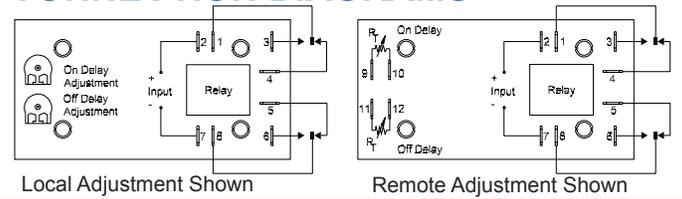
**UL**  
 UL/cUL Recognized

File E80165  
 UL Guide NKCR2  
 cUL Guide NKCR8

## DIMENSIONS



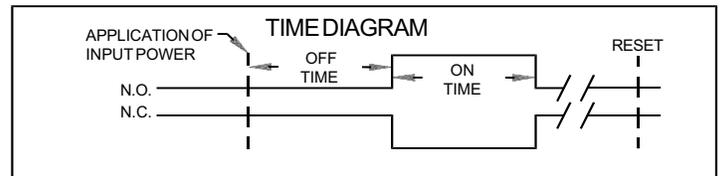
## CONNECTION DIAGRAMS



## 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.



## 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 - 12 VDC 2 - 24/28 VDC 3 - 110 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	0 - Local 1 - Fixed 2 - Remote Adjust	See Time Delay Range Chart	