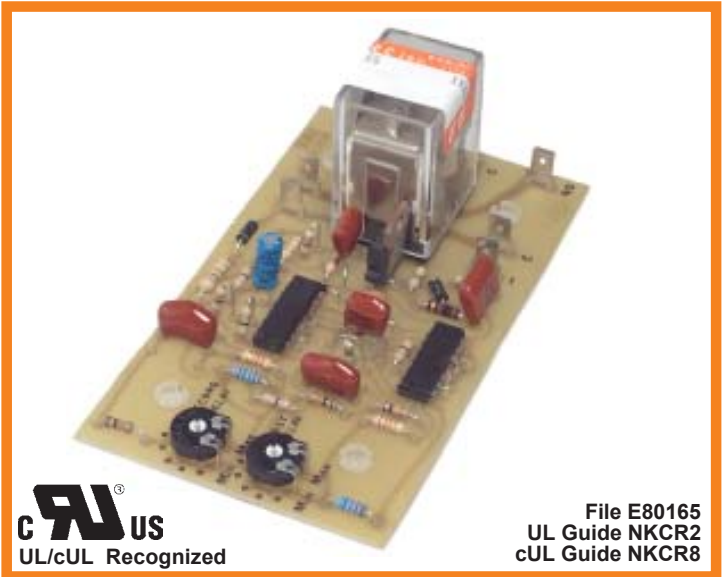




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# SRR SERIES OPEN BOARD RECYCLING TIME DELAY RELAY



File E80165  
 UL Guide NKCR2  
 cUL Guide NKCR8

## FEATURES

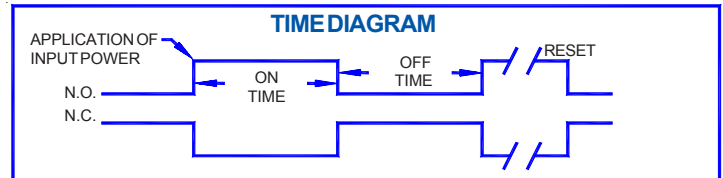
- C/MOS Digital Circuitry
- Time Delays To 1000 Minutes
- No First Cycle Effect
- 0.5% Repeat Accuracy
- 2% Stability Over Voltage And Temperature
- DPDT 10 Ampere Output Rating

## 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 at 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

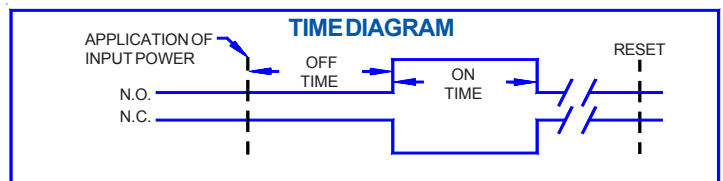
## MODE OF OPERATION ON/OFF RECYCLE

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.

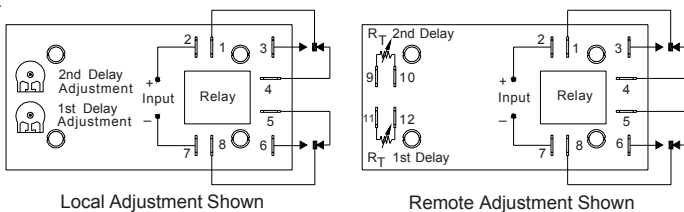


## OFF/ON RECYCLE

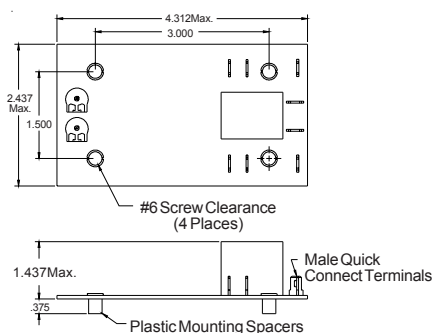
Upon application of power to the input terminals, the **OFF** delay begins. Upon completion of the **OFF** delay, the output contacts transfer and the **ON** delay begins. Upon completion of the **ON** delay, the output contacts revert to their original position and the cycle repeats. Reset is accomplished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



## CONNECTION DIAGRAM



## DIMENSIONS



## ORDERING INFORMATION

SERIES	TERMINATION	INPUT VOLTAGE	ADJUSTMENT	CYCLE	1ST TIME RANGE	2ND TIME RANGE
SRR	2 - 3/16" Quick Connect 3 - 1/4" Quick Connect	1 - 12 VDC 2 - 24/28 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC 9 - 36 VDC	0 - Both Delays Local Adj. 0A- 1st Delay Fixed 2nd Delay Local Adj. 0B- 1st Delay Local Adj. 2nd Delay Fixed 0C- 1st Delay Ext. Adj. 2nd Delay Local Adj. 0D- 1st Delay Local Adj. 2nd Delay Ext. Adj. 1 - Both Delays Factory Fixed 1A- 1st Delay Fixed 2nd Delay Ext. Adj. 1B- 1st Delay Ext. Adj. 2nd Delay Fixed 2 - Both Delays Ext. Adj.	1 - On Time First 2 - Off Time First	See Time Delay Range Chart	