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# CRR SERIES DIGITAL PLUG-IN TIME DELAY RELAY

## FEATURES

- C/MOS Digital Circuitry
- Time Delays to 1000 Minutes
- No First Cycle Effect
- 0.5% Repeat Accuracy
- 2% Stability Over Voltage And Temperature
- Wide Voltage Selection: 24-230 VAC, 12-110 VDC

## 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

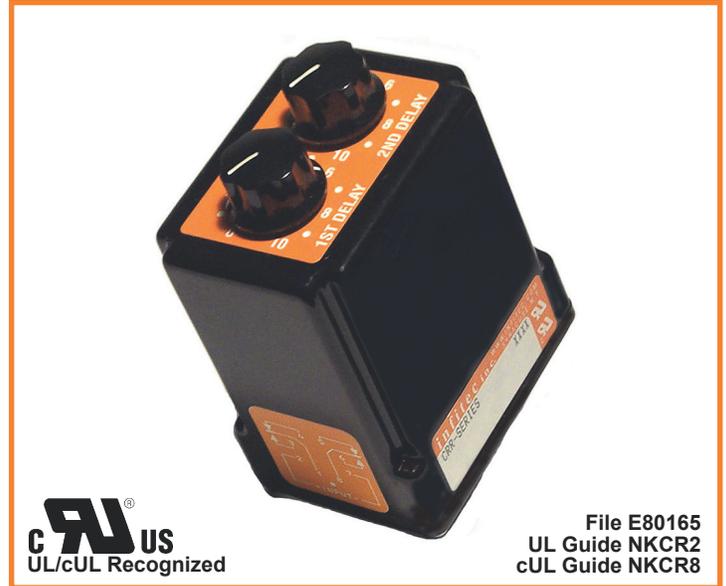
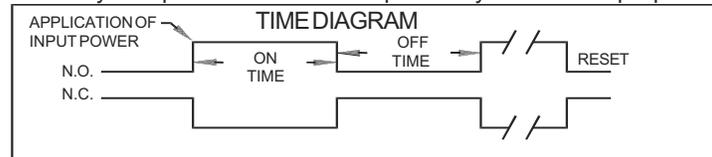
- 5.1 Mounting: Plug-in
- 5.2 Termination: Octal (8 Pin), Magnal (11 Pin), or 11 Pin Stab/Square Base Plug-in

### 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.

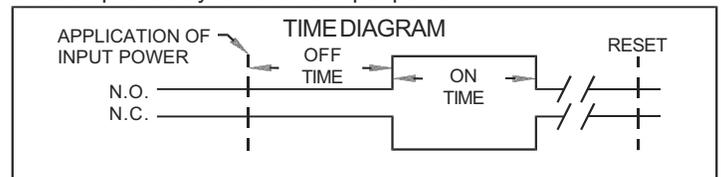


**UL**  
 UL/cUL Recognized

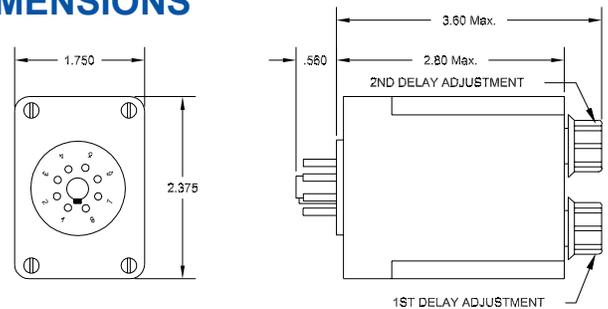
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 cUL Guide NKCR8

## OFF/ON RECYCLE

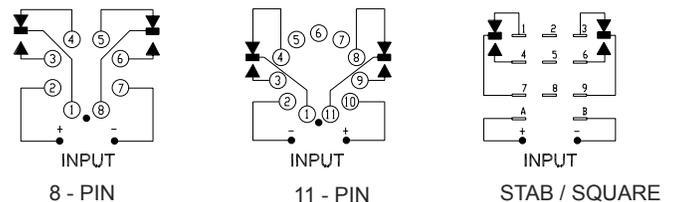
Upon application of input power to the input terminals, the OFF delay begins. Upon completion of the OFF delay, the output contacts transfer and the ON delay begins. Upon completion of the ON delay, the output contacts revert to their original position and the cycle repeats. Reset is accomplished by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



## DIMENSIONS



## CONNECTION DIAGRAMS



## ORDERING INFORMATION

SERIES	BASE STYLE	INPUT VOLTAGE	ADJUSTMENT	CYCLE	1ST TIME RANGE	2ND TIME RANGE
CRR	1 - Octal Plug-in (8 Pin) 2 - 11 Pin Plug-in 3 - 11 Pin Stab/Square Base	1 - 12 VDC 2 - 24/28 VDC 3 - 110 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	0 - Knob 1 - Fixed	1 - On Time First 2 - Off Time First	See Time Delay Range Chart	See Time Delay Range Chart