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# CDIR SERIES DIGITAL PLUG-IN TIME DELAY RELAY



**UL**  
 UL/cUL Recognized

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
- 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

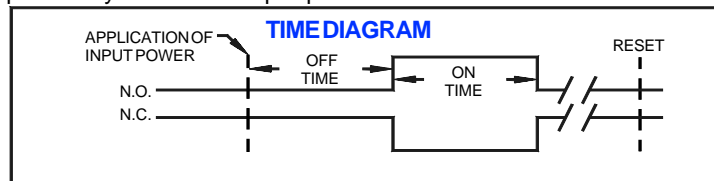
### 6. Environmental.

- 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

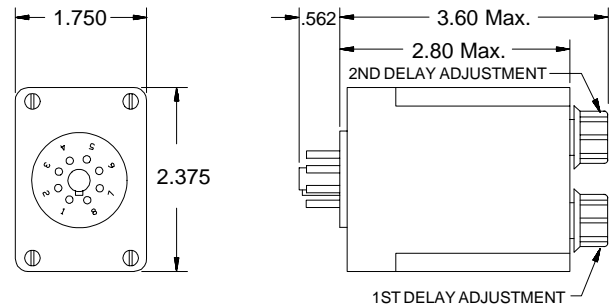
## MODE OF OPERATION

### DELAYED INTERVAL

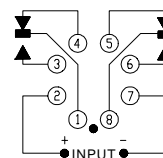
Upon application of power to the input terminals, the **OFF** delay begins. Upon completion of the **OFF** delay, the output contacts transfer and the **ON** delay begins. Upon completion of the **ON** delay, the output contacts revert to their original position. Reset is accomplished by removal of input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



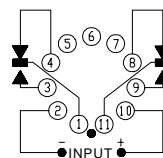
## DIMENSIONS



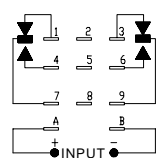
## CONNECTION DIAGRAMS



8 - PIN



11 - PIN



STAB / SQUARE

## ORDERING INFORMATION

| SERIES | BASE STYLE                | INPUT VOLTAGE | ADJUSTMENT            | 1ST TIME RANGE             | 2ND TIME RANGE |
|--------|---------------------------|---------------|-----------------------|----------------------------|----------------|
| CDIR   | 1 - Octal Plug-In (8 Pin) | 1 - 12 VDC    | 0 - Knob<br>1 - Fixed | See Time Delay Range Chart |                |
|        | 2 - 11 Pin Plug-In        | 2 - 24/28 VDC |                       |                            |                |
|        | 3 - 11 Pin                | 3 - 110 VDC   |                       |                            |                |
|        | Stab/Square               | 4 - 24 VAC    |                       |                            |                |
|        | Base                      | 5 - 120 VAC   |                       |                            |                |
|        |                           | 6 - 230 VAC   |                       |                            |                |