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C SERIES
DIGITAL PLUG-IN
TIME DELAY RELAY

c UL us
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
- 8 Pin, 11 Pin. Stab/Square Base Plug-in Termination
- Six Modes of Operation
- UL/cUL Recognized

SPECIFICATIONS

1. Time Delay
1.1 Type: C/MOS Digital Circuitry
1.2 Range: From 0.05 Seconds to 1000 Minutes
Fixed Delays Available
1.3 Repeat Accuracy: ±5% Under Fixed Conditions
1.4 Setting Accuracy: ±10%
1.5 Reset Time: 100 Milliseconds Maximum
1.6 Recycle Time: 100 Milliseconds During Timing
50 Milliseconds After Timing
1.7 Time Delay vs. Voltage and Temperature: ±2%

2. Input
2.1 Operating Voltage: 24, 120, and 230 VAC
12, 24/28, and 110 VDC
2.2 Tolerance: ±20% of Nominal

3. Output
3.1 Type: Electromechanical Relay
3.2 Form: DPDT or SPDT (See Base Style Connections)
3.3 Rating: 10 Amperes Resistive @ 30 VDC, 120/240 VAC
3.4 Life: Electrical - Full Load: 100,000 Operations
Mechanical: 10,000,000 Operations

4. Protection
4.1 Transient: ±1500 Volts for 150 Microseconds
4.2 Polarity: DC Units Are Reverse Polarity Protected
4.3 Dielectric Breakdown: 1500 Volts RMS Minimum

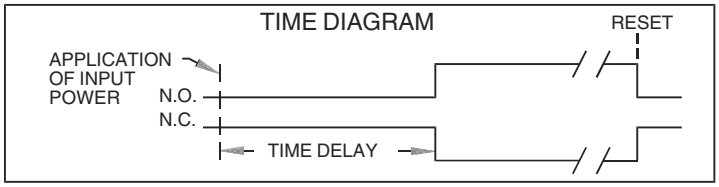
5. Mechanical
5.1 Mounting: Plug-in
5.2 Termination: Octal (8 Pin), Magnal (11 Pin), or 11 Pin
Stab/Square Base Plug-in

6. Environmental
6.1 Operating Temperature: -20°C to +80°C
6.2 Storage Temperature:-30°C to +85°C

MODE OF OPERATION SERIES

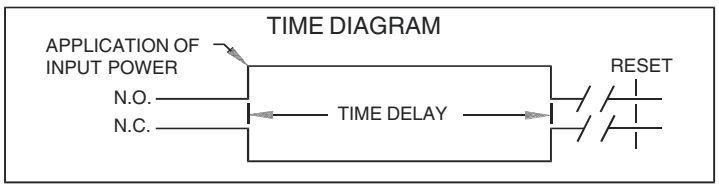
DELAY ON MAKE CMR

Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contacts transfer. Reset is accomplished by removal of input power. There is no false output when reset during timing.



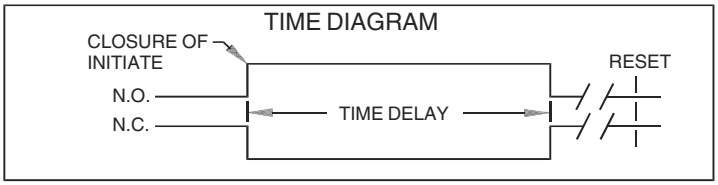
INTERVAL CIR

Upon application of power to the input terminals, the output contacts immediately transfer and the time delay begins. At the comopletion of the pre-selected time delay, the output contacts revert to their original position. Reset is accomplished by removal of input power.



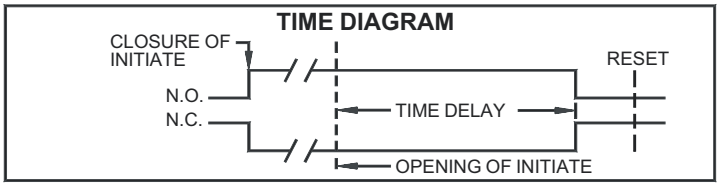
SINGLE-SHOT CSR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.



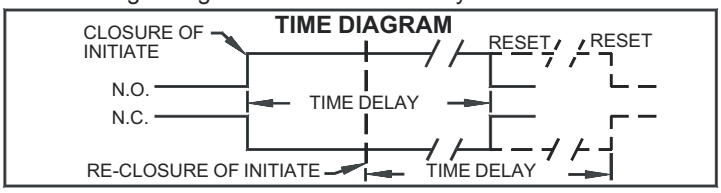
DELAY ON BREAK CBR

Power must be applied to th input at all times prior to and during timing. Upon closure of the initiate switch, the output contacts transfer and remain transferred if no further action is taken. When the initiate switch is opened, the time delay begins. At the end of the pre-selected delay period, the output contacts revert to their original position. Removal of input power will reset the control.



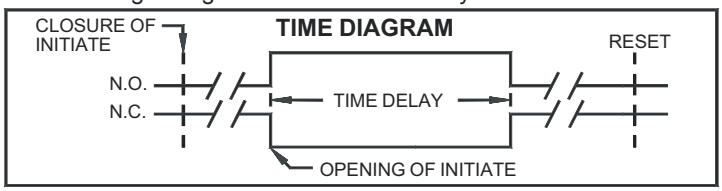
RETRIGGERABLE ONE SHOT — COR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected time delay the output contacts revert to their original position. **NOTE:** Momentary or maintained closure of initiate switch during timing will reset the time delay.

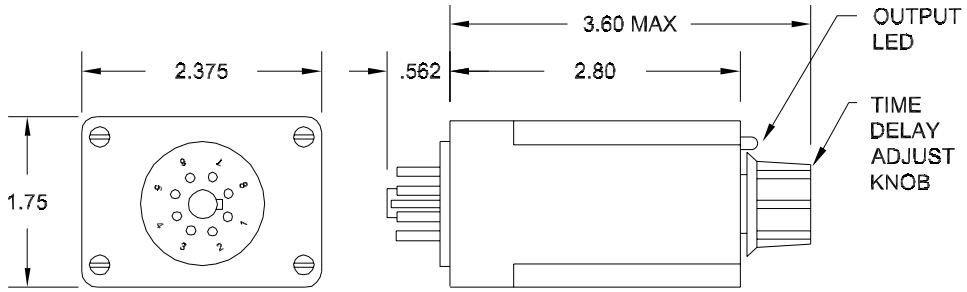


TRAILING EDGE TRIGGERED — CTR

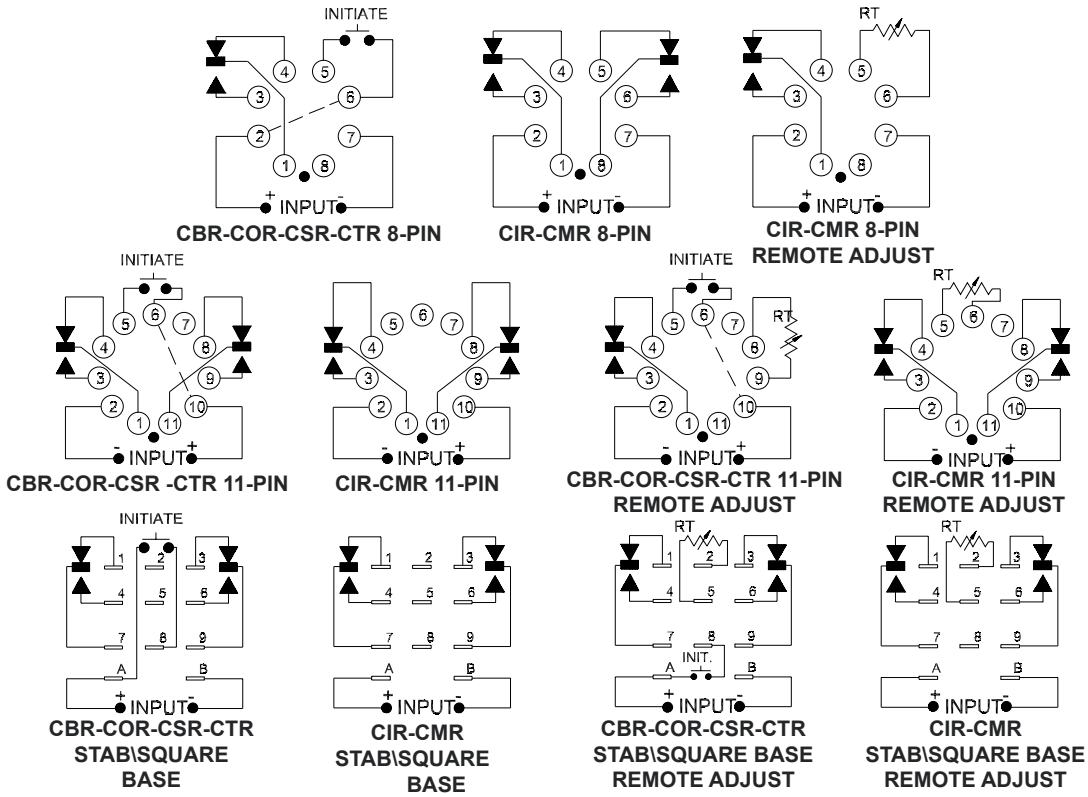
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected time delay the output contacts revert to their original position. **NOTE:** Momentary or maintained closure of initiate switch during timing will reset the time delay.



DIMENSIONS



CONNECTION DIAGRAMS



*** NOTE : CBR, COR, CSR & CTR ARE NOT AVAILABLE WITH REMOTE ADJUSTMENT (2) IN OCTAL BASE STYLE (1)**

ORDERING INFORMATION

SERIES	BASE STYLE	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY RANGE	LED OPTION
CBR **CIR** **CMR** **COR** **CSR** **CTR**	**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 **2 -** Remote Adjust ***** **3 -** Lockshaft	**See Time Delay Range Chart**	**L -** Output LED