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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
- Low Cost, Open Board Construction
- **DPDT 10 Ampere Output Rating**
- **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 (See Time Delay Range Chart)
- 1.3 Repeat Accuracy: ±0.5% Under Fixed Conditions
- 1.4 Setting Accuracy: ±10% 1.5 Reset Time: 100 Milliseconds Maximum
- 1.6 Recycle Time: 150 Milliseconds
- 1.7 Time Delay vs. Voltage and Temperature: ±2%

2. Input

- 2.1 Operating Voltage: 24, 120, & 230 VAC, 12, 24, & 110 VDC
- 2.2 Tolerance: ±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 120 VAC
- 3.4 Life: Electrical Full Load 1,000,000 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: #6 Screw Clearance (4 Places)
- 5.2 Termination: 3/16" or 1/4" Quick Connect Terminals
- 5.3 Style: Open Board/Surface Mount

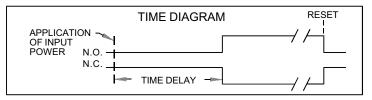
6. Environmental

6.1 Operating Temperature: -20°C to +80°C 6.2 Storage Temperature: -30°C to +85°C 6.3 Humidity: 95% Relative Non-Condensing

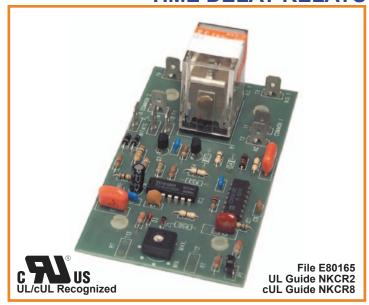
MODE OF OPERATION DELAY ON MAKE

SERIES

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.

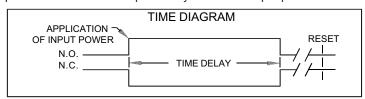


S SERIES **OPEN BOARD** TIME DELAY RELAYS



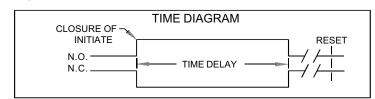
INTERVAL

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



SINGLE SHOT

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.

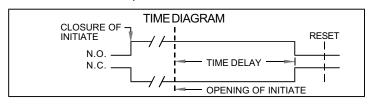


DELAY ON BREAK

SBR/STR*

Power must be applied to the 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 completion of the pre-selected delay period the output contacts revert to their original position. Closure of initiate during timing will reset the delay period. Removal of input power will reset the control.

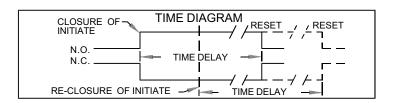
*STR is the same except it it trailing edge triggered. Load energizes when initiate switch is opened.

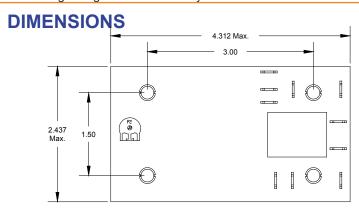


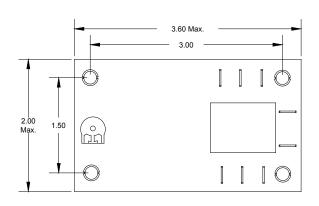
RETRIGGERABLE ONE-SHOT

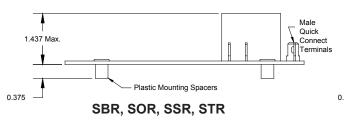
SOR

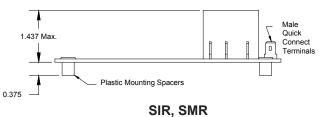
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. At the completion of the pre-selected delay period, the output contacts revert to their original position.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



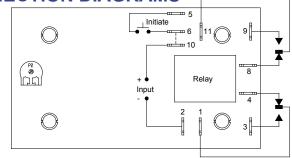








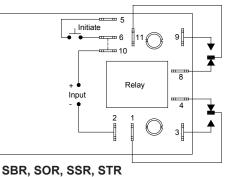
CONNECTION DIAGRAMS

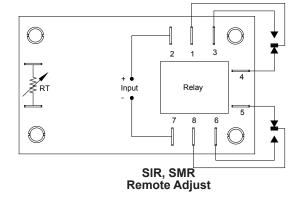


SIR, SMR Local Adjust

SBR, SOR, SSR, STR Local Adjust

Remote Adjust





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ORDERING INFORMATION					
SERIES	TERMINATION	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY RANGE	
SBR SIR SMR SOR SSR STR	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 Adjustment1 - Fixed2 - Remote Adjustment	See Time Delay Range Chart	