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FEATURES

- C/MOS Digital Circuitry
- Switch Selectable Delays To 2.8 Hrs, In Three Ranges
- 1% Setting Accuracy
- 0.1% Repeat Accuracy
- Eight Modes Of Operation
- No First Cycle Effect
- Wide Voltage Selection 24-230 VAC, 12-110 VDC
- 10 Ampere DPDT Output Rating
- LED Timing Indication
- 8 Pin, 11 Pin, Stab/Square Base Plug-In Termination
- Rocker Type Time Delay Adjustment Switches For Positive Switch Settings
- UL / cUL Recognized

SPECIFICATIONS

1. Time Delay.

- 1.1 Type: C/MOS digital circuitry
- 1.2 Range: Three ranges available. Setting of the delay is accomplished via a 10 position dip switch located on the control's top surface. The required delay is selected by the addition of individual switch delays set in the on position. (See *delay settings*)
- 1.3 Repeat accuracy: $\pm 0.1\%$ under fixed conditions
- 1.4 Setting accuracy: $\pm 1\%$
- 1.5 Reset time: 50 milliseconds maximum
- 1.6 Recycle time: 100 milliseconds during timing
50 milliseconds after timing
- 1.7 Time delay vs. voltage and temperature: $\pm 2\%$

2. Input.

- 2.1 Operating voltage: 24, 120 & 230 VAC
12, 24/28 & 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 or SPDT (see *base style connection*)
- 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: D.C. 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 $+80^{\circ}\text{C}$
- 6.2 Storage temperature: -30°C to $+85^{\circ}\text{C}$

B SERIES BINARY DIGITAL PLUG-IN TIME DELAY RELAY



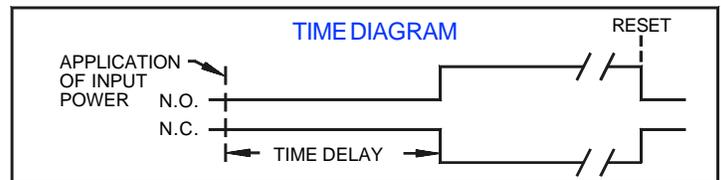
UL
UL/cUL Recognized

File E80165
UL Guide NKCR2
cUL Guide NKCR8

MODE OF OPERATION - SERIES

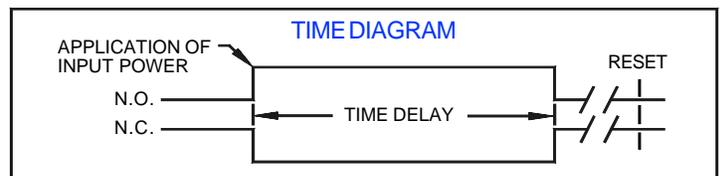
DELAY ON MAKE - BMR

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.



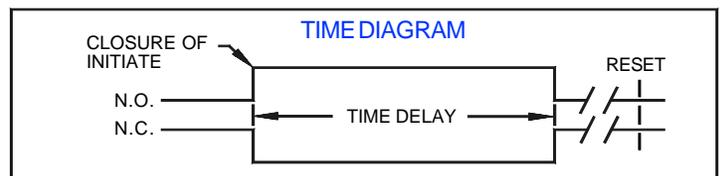
INTERVAL - BIR

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 to their original position. Reset is accomplished by removal of input power.



SINGLE SHOT - BSR

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-BBR

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 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-BOR

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-BTR

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch, nothing happens. When the initiate switch is opened, the time delay begins and the output contact transfers. At the completion of the pre-selected delay period the contact reverts to its original position. Removal of input power will reset the control. If the initiate switch is closed during timing, the output contact reverts to its original position and the time delay is reset.

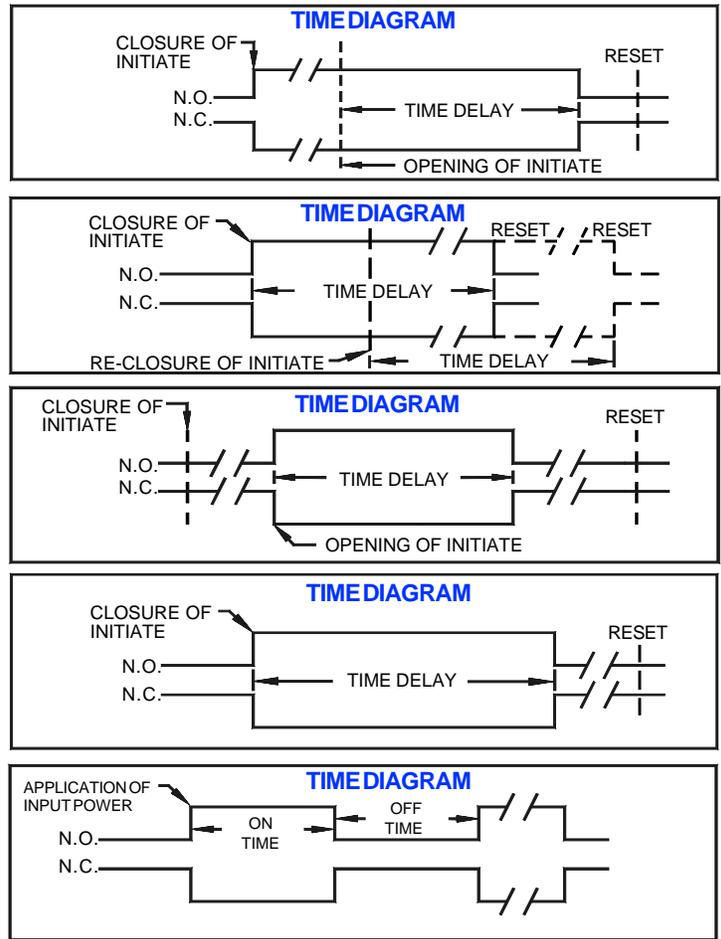
TOGGLE/SINGLE-SHOT-BFR

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. Upon re-closure of the initiate switch or at the completion of the pre-selected delay period, the output contacts revert to their original position.

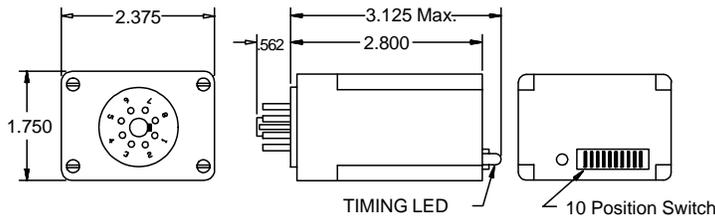
ON/OFF RECYCLE-BRSR

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 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.

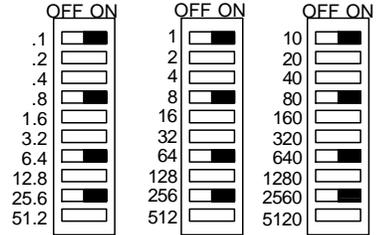
OFF/ON RECYCLE - BRSR = Opposite of ON/OFF recycle



DIMENSIONS

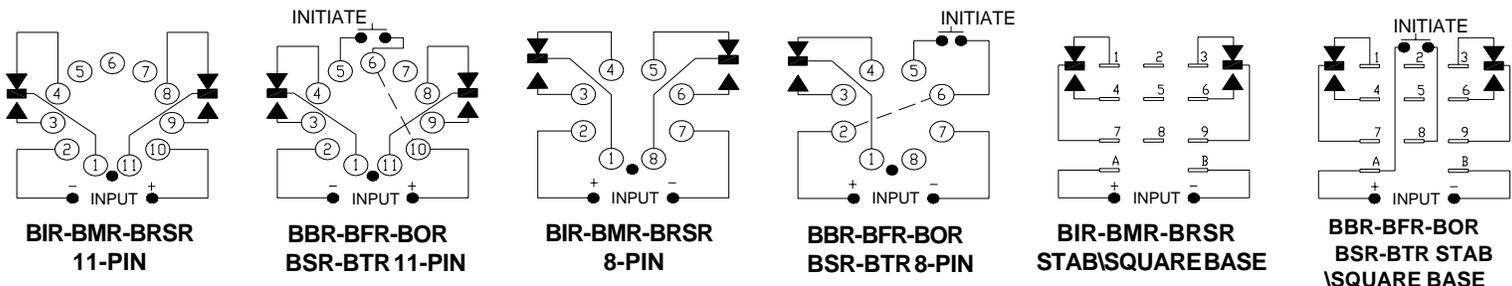


DELAY SETTINGS



STYLE L Ex. 32.9 Sec. STYLE S Ex. 329 Sec. STYLE H Ex. 3290 Sec.
Combine "ON" switches to set time delay.

CONNECTION DIAGRAMS



ORDERING INFORMATION

SERIES	BASE STYLE	INPUT VOLTAGE	CYCLE	DELAY SETTING
BBR BFR BIR BMR BOR BRSR BSR BTR	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	BR SR ONLY 1 - On Time First 2 - Off Time First	L - Low Range, .1 to 102.3 Seconds S - Standard Range, 1 to 1023 Seconds H - High Range, 10 to 10230 Seconds