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FEATURES

- Microcontroller Circuitry
- Switch Selectable Delays To 170.5 Hrs, In Five 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
- 0 8 Pin, 11 Pin, Stab/Square Base Plug-In Termination
- Rocker Type Time Delay Adjustment Switches For Positive Switch Settings
- UL / cUL Recognized, CE Mark

SPECIFICATIONS

1. Time Delay.

1.1 Type: Microcontroller circuitry

1.2 Range: Five 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: ± 0.1% under fixed conditions

1.4 Setting accuracy: ± 1%

1.5 Reset time: 200 milliseconds maximum

1.6 Recycle time: 100 milliseconds during timing 200 milliseconds after timing

1.7 Initiate time: 25 msecs. maximum

(customizable per customer request)

1.8 Time delay vs. voltage and temperature: ± 2%

2. Input.

2.1 Operating voltage: 24, 120 & 230 VAC

12, 24/28 & 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 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 Electrical fast transient Immunuty: IEC 61000-4-4

4.2 Surge Immunity: IEC 61000-4-5

4.3 Dips, shorts and interuptions Immunity: IEC 61000-4-11

4.4 Polarity: D.C. units are reverse polarity protected

4.5 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 pluq-in

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

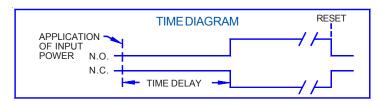
BSERIES BINARY DIGITAL PLUG-IN TIME DELAY RELAY



MODE OF OPERATION - SERIES

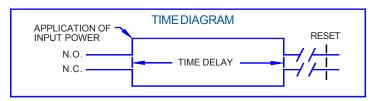
DELAY ON MAKE-BMR

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.



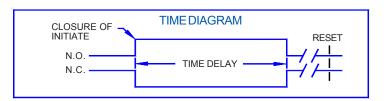
INTERVAL-BIR

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.



DELAYON 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 it's original position. Removal of input power will reset the control. If the initiate switch is closed during timing, the output contact reverts to it's original position and the time delay is reset.

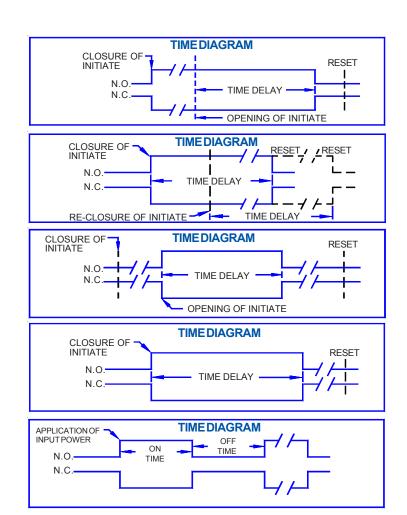
TOGGLE/SINGLE-SHOT-BFR

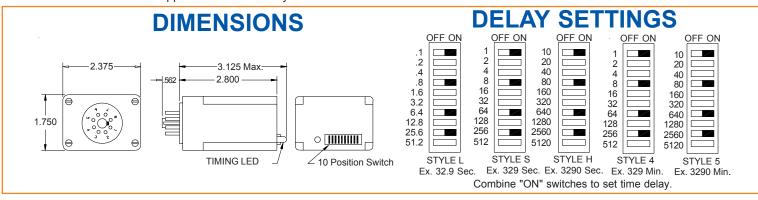
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. Upon reclosure of the initiate switch or at the completion of the pre-selected delay period, the output contacts revert to their original position. The unit is now reset, ready for a new cycle.

ON/OFF RECYCLE-BRSR

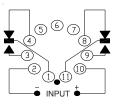
Upon application of power to the input terminals, the ON delay begins and the output contacts transfer. Upon completion of the ON delay, the output contacts revert to their original position and the OFF delay begins. Upon completion of the OFF delay, the output contacts again transfer and the cycle repeats.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

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

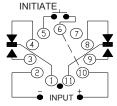




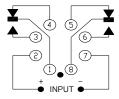
CONNECTION DIAGRAMS



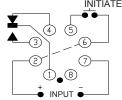
BIR-BMR-BRSR 11-PIN



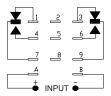
BBR-BFR-BOR BSR-BTR11-PIN



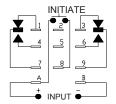
BIR-BMR-BRSR 8-PIN



BBR-BFR-BOR BSR-BTR8-PIN



BIR-BMR-BRSR STAB\SQUAREBASE



BBR-BFR-BOR BSR-BTR STAB \SQUARE BASE

ORDERING INFORMATION				
SERIES	BASE STYLE	INPUT VOLTAGE	CYCLE	DELAY SETTING
BBR BFR BIR BMR BOR BRSR 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	BRSR 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 4-1-1023 Minutes 5-10-10,230 Minutes