

## **FEATURES**

- Microcontroller Based Circuitry
- Switch Selectable Delays to 620 Minutes In 8 Ranges
- No First Cycle Effect
- Wide Voltage Selection: 24-230 VAC, 12-110 VDC
- 10 Ampere DPDT Output Rating
- 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 Based Circuitry
- 1.2 Range: Eight Ranges Available 1 0.2 to 6.2 Seconds in 0.2 Second Increments

  - 2 1 to 31 Seconds in 1 Second Increments
    3 2 to 62 Seconds in 2 Second Increments
    4 0.2 to 6.2 Minutes in 0.2 Minute Increments

  - 5 1 to 31 Minutes in 1 Minute Increments
    6 2 to 62 Minutes in 2 Minute Increments

  - 7 10 to 310 Minutes in 10 Minute Increments
    8 20 to 620 Minutes in 20 Minute Increments
  - Five Switches to Set the ON Time, and Five Switches to Set the OFF Time. The Count Is Binary.
- 1.3 Repeat Accuracy: ±.01% Under Fixed Conditions 1.4 Setting Accuracy: ±2% 1.5 Reset Time: 200 Milliseconds Maximum

- 1.6 Recycle Time: 100 Milliseconds During Timing 200 Milliseconds After Timing 1.7 Time Delay vs. Voltage and Temperature: ±2%
- 2. Input
  - 2.1 Operation 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

  - 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 Immunity: IEC 61000-4-4
- 4.2 Surge Immunity: IEC 61000-4-5
- 4.3 Dips, Shorts, Interruptions Immunity: IEC61000-4-11 4.4 Polarity: DC Units Are Reverse Polarity Protected 4.5 Dielectric Breakdown: 1500 Volts RMS Mimimum

- 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 +85°C 6.2 Storage Temperature: -30°C to +85°C

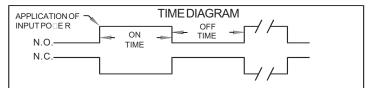
## **BRR SERIES BINARY DIGITAL PLUG-IN RECYCLING TIME DELAY RELAY**

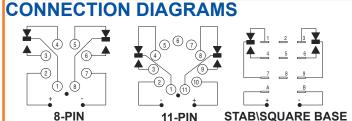


## MODE OF OPERATION **ON/OFF RECYCLE**

# SERIES

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** - Opposite of ON/OFF recycle.







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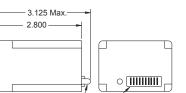
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∠10 Position Switch

POWER LED

#### Example Time Delay Settings OFF ON CYCLE SERIES BASE STYLE INPUT VOLTAGE **ON TIME OFF TIME** Five BRR 1 - Octal Plug-In 1 - 12 VDC 1 - On Time First 1 - .2 - 6.2 Seconds Switches For ŝ 1 - .2 - 6.2 Seconds 8 16 secor (8 Pin) 2 - 24/28 VDC 2 - Off Time First **2 -** 1 - 31 Seconds 2 - 1 - 31 Seconds "ON Time' 3 - 2 - 62 Seconds 3 - 2 - 62 Seconds Setting 2 - 11 Pin Plug-In 3 - 110 VDC 32 4 - .2 - 6.2 Minutes 4 - .2 - 6.2 Minutes Five 3 - 11 Pin Stab/ 4 - 24 VAC utes Switches For "OFF Time" 4 8 5 - 1 - 31 Minutes 5 - 1 - 31 Minutes Square Base 5 - 120 VAC min 16 32 6 - 2 - 62 Minutes 6 - 2 - 62 Minutes 6 - 230 VAC Setting 7 - 10 - 310 Minutes 7 - 10 - 310 Minutes 8 - 20 - 620 Minutes 8 - 20 - 620 Minutes Example: 18 seconds ON, 20 minutes OFF

## ORDERING INFORMATION