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FEATURES

- Microcontroller Circuitry
- Switch Selectable Delays to 17.7 Days in 8 Ranges
- **Eight Different Modes of Operation**
- 1% Setting Accuracy
- 0.1% Repeat Accuracy
- Wide Voltage Selection: 24-230 VAC, 12-24/28 VDC
- 10 Ampere SPDT & DPDT Output Rating
- LED For Power and Output Indication
- **CE Marking**
- **UL/cUL** Recognized
- SPECIFICATIONS

1. Time Delay

- 1.1 Type: Microcontroller Circuitry
- 1.2 Range: Switch Selectable From 0.1 Seconds to 17.7 Days In 8 Ranges
- 1.3 Adjustment: One Ten Position and One Four Position Dipswitch to Control Time Range and Mode of Operation (See Settings Diagrams)
- 1.4 Repeat Accuracy: ±0.1% Under Fixed Conditions
- 1.5 Setting Accuracy: ±1%
 1.6 Reset Time: 100 Milliseconds Minimum
- 1.7 Recycle Time: 50 ms During Timing, 100 ms After Timing
- 1.8 Initiate Time: 75 ms Maximum 1.9 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: ±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 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 Electrical Fast Transient Immunity: IEC 61000-4-4
- 4.2 Surge Immunity: IEC 61000-4-5
- 4.3 Dips, Shorts, and Interruptions Immunity: IEC 61000-4-11
- 4.4 Polarity: DC Units Are Reverse Polarity Protected
- 4.5 Dielectric Breakdown: 1500 Volts RMS Minimum

5. Mechanical

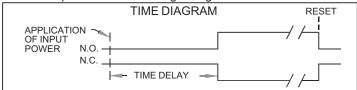
5.1 Mounting: Plug-in 5.2 Termination: Octal (8 Pin), Magnal (11 Pin), or 11 Pin Stab/Square Base Plug-in

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

MODE OF OPERATION **DELAY ON MAKE**

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.

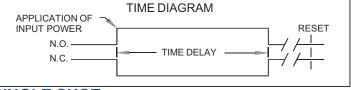


DUR SERIES UNIVERSAL PLUG-IN TIME DELAY RELAY



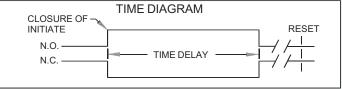
INTERVAL

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



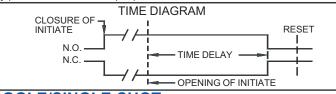
SINGLE SHOT

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.



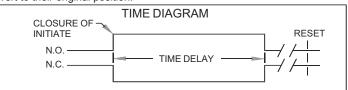
DELAY ON BREAK

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 peroiod. Removal of input power will reset the control



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



RETRIGGERABLE ONE-SHOT

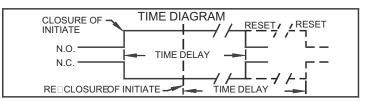
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contacts transfer and the time delay begins. at the completion of the pre-selected delay period, the output contacts revert to their original position.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

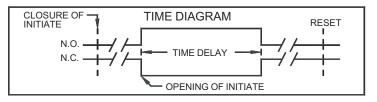
TRAILING EDGE TRIGGERED

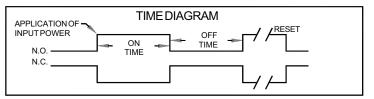
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch, nothing happens. When the initiate switch is opened, the time delay begins and the output contact transfers. at the completion of the pre-selected delay period the output contact reverts to 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.

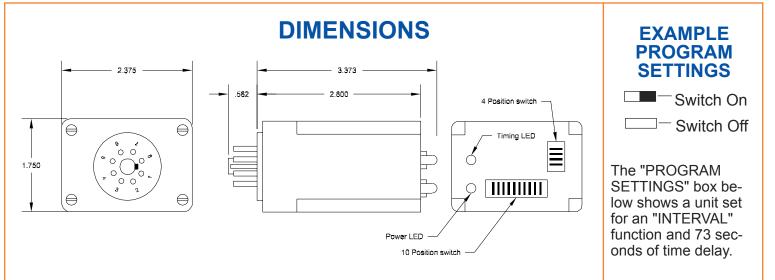
ON/OFF RECYCLE

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 back 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.









USED FOR

INTERVAL.

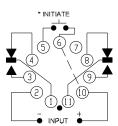
DELAY ON

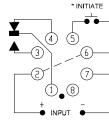
RECYCLE

MODES OF **OPERATION**

MAKE &

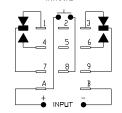
CONNECTION DIAGRAMS





11 - PIN

8 - PIN



* INITIATE

11 - PIN STAB/SQUARE BASE

ORDERING INFORMATION		
SERIES	BASE STYLE	INPUT VOLTAGE
DUR	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

PROGRAM SETTINGS

