

## Delay On Release



### Description

The unit provides delayed release of relay after the supply has been removed. Time ranges from 10 - 180min are supplied with internal battery which has to be charged for 24 hours before it is first used. Power must be supplied for 30sec and  $\pm 30\%$  of time range before removed to charge internal retaining circuit. In applications where supply voltage is present the pulse controlled interval timer (T2M or T1I/P) should be used.

### FEATURES

- Time range 3 - 360sec without battery
- Time range 10 - 180min with battery
- Potentiometer adjustable time setting
- Oscillator control time circuit
- Repeatable deviation: < 1%
- LED indication for power supply ON
- Output 5A DPDT

### Time Specifications

Time Ranges	Without battery	With battery
	3 sec	10 min
	10 sec	30 min
	30 sec	60 min
	60 sec	180 min
	180 sec	
	360 sec	

Range Accuracy  $\leq 0.5\%$

Scale Accuracy  $\pm 5\%$

Repeat Accuracy  $\pm 1\%$

Time Variation  $\leq 0.05\% / V$   
within rated power  
supply and ambient  
temperature

$\leq 0.2\% / ^\circ C$

Reset Time 500 ms

### Output Specifications

Output Specifications	DPDT
Rated Isolation	6000 VAC (contact / electric)
Voltage	1000 VAC (contact / contact)

Nominal Rate in AC1 1500 VA  
(Ag-Ni)

Rated Current 5A

Rated Voltage 250V

Mechanical Life  $10 \times 10^6$  cycles

Electrical Life  $110 \times 10^3$  cycles (at max load)

Operation Frequency  $\leq 1800$  cycles/h

### Supply Specifications

Power Supply AC Type 110, 230, 400V  
(Galvanic)  
525V  $\pm 10\%$   
50 / 60 Hz  $\pm 5\text{Hz}$

Isolation 4kV

Consumption  $\pm 3\text{VA}$

$\pm 6\text{VA}$  525 V

Power Supply DC Types 12,24,48 V  $\pm 10\%$   
(Non-galvanic)

Isolation None

Consumption  $\pm 100$  mA

### General Specifications

Power ON Delay  $\leq 300$  ms

Power OFF Delay  $\leq 200$  ms

Indication for  
Power Supply ON LED red

#### Environment

Degree Of Protection IP 20  
Operating Temperature -10 to + 50 $^\circ\text{C}$   
Storage Temperature -50 to + 85 $^\circ\text{C}$   
Weight 200g

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### Mode of Operations

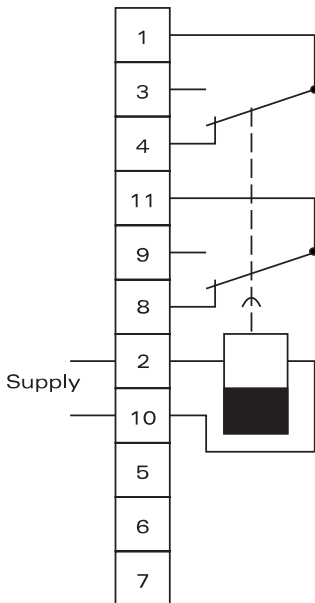
#### Function: Delay on release

Applying supply energizes relay. When removing the supply, the relay remains energized for the set time period and then de-energizes.

#### Example

- Prevention of unnecessary generator set initiation due to brief supply failure.
- Prevention of unnecessary equipment shut-down due to brief supply failure.
- Power supply failure alarm timing.

### Wiring Diagram



### Operations Diagram

