

## Two-Shot Timer



### Description

Microprocessor based two-shot timer with two selectable modes of operation and eight separately selectable ON and OFF time ranges from 0.3sec - 60hrs. The ON and OFF times can only be selected from the A or B range and not both. Extensive applications due to combination of functions and time ranges. Due to the advanced design of the unit a high accuracy can be achieved. Any adjustment on the front potentiometers after the supply is applied is not acknowledged. This prevents unwanted changes of the time range. The ON and OFF times can be adjusted independently.

### FEATURES

- Microprocessor based design
- Time range 0.3sec - 60hrs
- Rear DIP switch selection of 8 separate ON and OFF timer ranges
- Separate potentiometer adjustable time settings for ON and OFF period
- Selectable ON or OFF time first
- Repeatable deviation: < 0.2%
- Power supply ON and Relay ON LEDs
- Output 5A DPDT

### Time Specifications

Time Ranges	A Pins 5 & 6 open	B Pins 5 & 6 closed
	0.3 - 6sec	0.3 - 6min
	3 - 60 sec	3 - 60 min
	0.3 - 6min	0.3 - 6 hrs
	3 - 60 min	3 - 6 hrs
Range Accuracy	≤ 0.5%	
Scale Accuracy	± 5%	
Repeat Accuracy	± 0.2%	
Time Variation	≤ 0.05% / V	
within rated power supply and ambient temperature	≤ 0.2% / °C	
Reset Time	500 ms	
Pulse Duration	500 ms (pins 6 & 7)	

### Output Specifications

Output Specifications	DPDT
Rated Isolation	6000 VAC (contact / electric)
Voltage	1000 VAC (contact / contact)
Nominal Rate in AC1 (Ag-Ni)	1500 VA
Rated Current	5A
Rated Voltage	250V
Mechanical Life	10x10 <sup>6</sup> cycles
Electrical Life	110x10 <sup>3</sup> cycles (at max load)
Operation Frequency	≤ 1800 cycles/h

### Supply Specifications

Power Supply AC Type (Galvanic)	110, 230, 400V 525V ± 10%
	50 / 60 Hz ± 5Hz
Isolation	4kV
Consumption	± 3VA ± 6VA 525 V
Power Supply DC Types (Non-galvanic)	12,24,48 V ± 10%
Isolation	None
Consumption	± 100 mA

### General Specifications

Power ON Delay	≤ 300 ms
Power OFF Delay	≤ 200 ms
Indication for Power Supply ON	LED red
Output ON	LED green
Environment	
Degree Of Protection	IP 20
Operating Temperature	-10 to + 50°C
Storage Temperature	-50 to + 85°C
Weight	200g

## Two-Shot Timer

### Mode of Operations

#### Function OFF First

Applying supply activates the set OFF period, where after the separately set ON time is activated. On expiry of the ON period the relay energizes until the supply is removed.

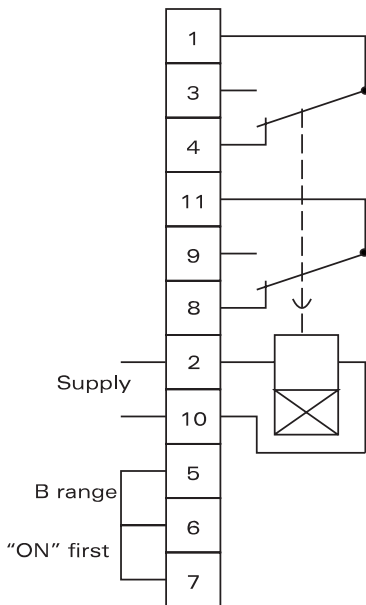
#### Example

- Activating a siren after a specific time period.
- Chemical dosing.

#### Function ON First

Applying supply activates the set ON period, where after the separately set OFF time is activated. On expiry of the OFF period the relay energizes until the supply is removed.

### Wiring Diagram



### Operations Diagram

