

Unequal Repeating



Description

Microprocessor based unequal repeating 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 advance design of the unit a high accuracy can be achieved. Any adjustable on the front potentiometer 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	

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	10x10 ⁶ cycles
Electrical Life	110x10 ³ 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

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Mode of Operations

Function ON First

Applying the supply activates the set ON period, where after the separately selectable OFF time is activated. This cycle continues until the supply is removed.

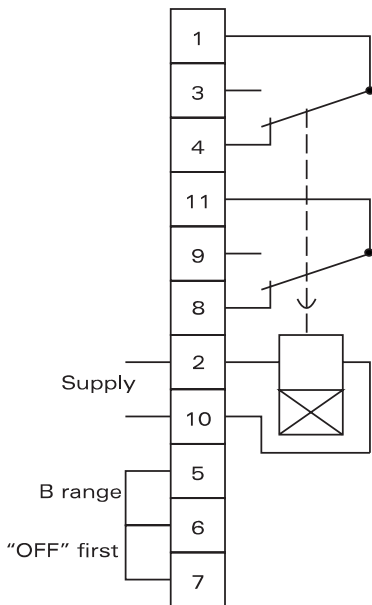
Example

- Chemical dosing and mixing.
- Periodic lubrication control for equipment.

Function OFF First

When applying the supply the relay is energized and remains so until the set time is elapsed. The relay will then de-energize until the supply is removed and reapplied.

Wiring Diagram



Operations Diagram

