R2U

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	0.3 - 6sec	B Pins 5 & 6 closed 0.3 - 6min 3 - 60 min 0.3 - 6 hrs 3 - 6 hrs		
Range Accuracy	≤ 0.5%			
Scale Accuracy	± 5%			
Repeat Accuracy	± 0.2%			
Time Variation	≤ 0.05% / V			
within rated power	\leq 0.2% / ⁰ C			
supply and ambient temperature				

Output Specificat	ions
Output Specifications	DPDT
Rated Isolation Voltage	6000 VAC (contact / electric) 1000 VAC (contact / contact)
Nominal Rate in AC1 (Ag-Ni)	1500 VA
Rated Current	5A
Rated Voltage	
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

Reset Time 500 ms

General Specifications

Power ON De	elay ≤ 300 ms
Power OFF De	elay ≤ 200 ms
Indication Power Supply Output	

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.

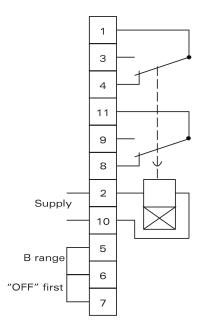
Example

- 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

Power supply		
Relay On	ton toff	ton toff
Contact 6 & 7 closed		

Power supply		
Relay On	toff toff	toff
Contact 6 & 7 closed		



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