

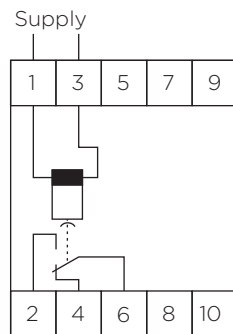
Unequal Repeating Timer



Description

Multi-range off delay (delay on release) timer with advanced backup power circuitry to deliver wide time ranges. DIN rail mountable for front and back panel positioning. The unit has to be powered for no less than 30 sec or 30% of set time range. If permanent power is available the DMFT timer should be used.

Wiring Diagram



FEATURES

- Microprocessor controlled
- Automatic start of timing after drop-out of power supply
- Front face adjustable time settings
- Front face adjustable time range settings
- Modular 35.5mm DIN rail mountable
- 0.3 - 60 min Adjustable time ranges
- 8A SPDT output relay
- LED indication for power supply ON

Time Specifications

Time Ranges	A		B	
	ON	OFF	ON	OFF
6s	6s	60s	60s	6m
60s	60s	6m	6m	60s
6m	6m	60m	6m	60m
60m	60m	6s	60m	6m
6s	60s	60m	60m	6h
60s	6s	6h	6h	60m
6s	60m	60s	60s	6h
60m	6s	6h	6h	60s

Range Accuracy $\leq 0.5\%$

Scale Accuracy $\pm 5\%$

Repeat Accuracy $\pm 0.2\%$

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	SPDT
Rated Isolation	6000 VAC
Voltage	(contact / electric) 1000 VAC (contact / contact)
Nominal Rate in AC1	2500 VA (Ag-Ni)
Rated Current	10A
Rated Voltage	250V
Mechanical Life	10×10^6 cycles
Electrical Life	110×10^3 cycles (at max load)
Operation Frequency	≤ 1800 cycles/h

Supply Specifications

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

General Specifications

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

Unequal Repeating Timer Mode of Operations

Function 1: Asymmetrical Recycler ON-time period first

The relay operates and the ON time period begins as soon as the power supply is connected. After the ON time period the relay releases for the OFF time period.

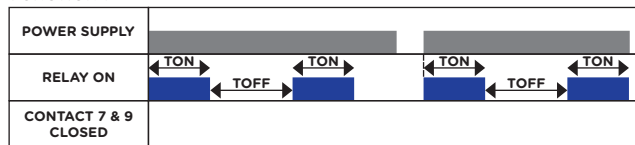
This sequence continues until the power supply is interrupted for at least 500 ms.

Example

- Centre pivoting for watering cycle and moving cycle on Irrigation systems.
- Chemical dosing and mixing.
- Convey or transfer control for manual packaging.
- Material handling control in cutting application.
- Periodic lubrication control on equipment.
- Periodic moisture cycle control in catering equipment.

Operations Diagram

FUNCTION 1



Function 2: Asymmetrical Recycler OFF-time period first

The OFF time period begins as soon as the power supply is connected. After the OFF time period the relay operates for the ON time period.

This sequence continues until the power supply is interrupted for at least 500 ms.

FUNCTION 2

