T2D

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 ± 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

	Without battery	With battery
Time Ranges	3 sec 10 sec 30 sec 60 sec 180 sec 360 sec	10 min 30 min 60 min 180 min
Range Accuracy	≤ 0.5%	
Scale Accuracy	± 5%	
Repeat Accuracy	± 1%	
Time Variation	≤ 0.05% / V	
within rated power supply and ambient temperature	≤ 0.2% / ^{O}C	
Reset Time	500 ms	

Output Specifications

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	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
Environment	
Degree Of Protection	IP 20
Operating Temperature	-10 to + 50^{O}C
Storage Temperature	-50 to + 85^{O}C
Weight	200g

Delay On Release

Mode of Operations

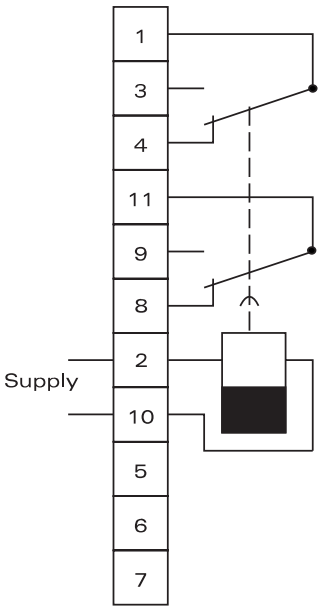
Function: Delay on release

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