PROGRAMMABLE MULTI-FUNCTION | MULTI-RANGE

TE-881 Series

- 10 field-selectable functions in one unit
- Universal Input Voltage: 12-240V AC/DC
- 0.1 second - 10 days programmable time delay
- 15A SPDT output contacts
- LEDs indicate output relay status & timing mode
- Compact 17.5mm enclosure mounts on 35mm DIN track
- Pilot duty rating

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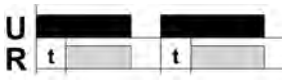
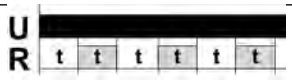
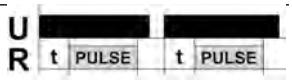
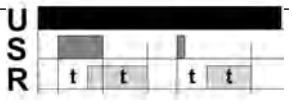
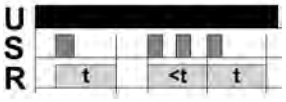
The TE-881 Series time delay relays offer 10 timing functions and a universal voltage input (12-240V AC/DC) with a programmable time range from 0.1 second – 10 days all in one compact unit. Choose between versions with 15A SPDT or DPDT output contacts. A green LED indicates input voltage applied; a red LED blinks during timing and is steady when the output relay is energized. These products have a compact 17.5mm enclosure which snaps on to 35mm DIN rail. This conserves space and reduces installation time, which saves money. With all this flexibility, the TE-881 Series replaces hundreds of separate time delay relays.

CATALOG NUMBER	TE-8816U	TE-8812U
Input		
Voltage Range	12-240V AC/DC, 50/60Hz	12-240V AC/DC, 50/60Hz
Tolerance	-15% of 12V, +10% of 240V	-15% of 12V, +10% of 240V
Burden	3VA (AC), 1.7W (DC)	3VA (AC), 1.7W (DC)
Output		
Configuration	SPDT	DPDT
Rating	15A @ 240V AC 1/3HP @ 120V AC, 3/4HP @ 240V AC, B300	
Minimum Switching	100mA	
Contact Material	Silver Alloy	
Life	10 million operations mechanical; 100,000 electrical	
Timing		
Number of Functions	10 (see descriptions on Page 44)	
Time Ranges	8 different time ranges built-in:	
	100 ms - 1 Sec. 1 - 10 Sec. 0.1 - 1 Min. 1 - 10 Min.	0.1 - 1 Hr. 1 - 10 Hr. 0.1 - 1 Day 1 - 10 Days
Repeat Accuracy	±0.2%	
Setting Accuracy	5%	
Reset Time	150ms maximum	
Trigger Pulse Length	50ms maximum	
Other		
Mounting	35mm DIN Rail only	
Agency Approval	c UL us CE (File #E109466)	
Temperature	Storage: -30° to 70° C (-22° to 158° F) Operating: -20° to 55° C (-4° to 131° F)	
LED Indication	Green-Input Voltage; Red-Timing or Relay ON	
Terminations	12-22 AWG, 3.5 in-lbs	

PROGRAMMABLE MULTI-FUNCTION | MULTI-RANGE

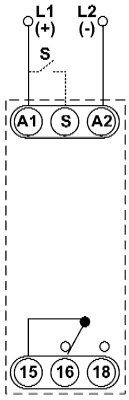
TE-881 Series

Functions

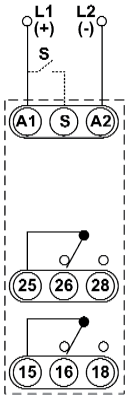
FUNCTION	DIAL SETTING	GRAPH	FUNCTION	DIAL SETTING	GRAPH
ON DELAY	A		Flasher* (ON 1ST)	F	
Flasher* (OFF 1ST)	B		PULSE GENERATOR (PULSE=0.5 SEC)	G	
INTERVAL	C		ONE SHOT	H	
OFF DELAY	D		ON/OFF DELAY *	I	
RETRIGGERABLE ONE SHOT (Watchdog)	E		MEMORY LATCH (Latching Relay)	J	

* Note: ON & OFF times are the same.

Connection Diagrams

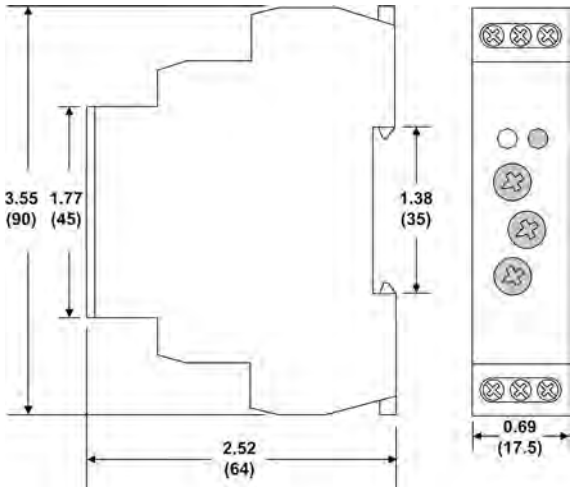


TE-8816U
SPDT



TE-8812U
DPDT

Dimensions



All Dimensions in
Inches (Millimeters)

TIME DELAY RELAYS | 17.5MM

PROGRAMMABLE | SINGLE FUNCTION

DIP-Switch | Digital-Set | TD-8 Series

Single Mode

Dual Mode

- DIP-Switches for accurate digital set of time delay
- 100ms - 1,023 hours programmable time delay
- Uses industry-standard 8 or 11 pin octal sockets
- 10A DPDT output contacts
- LED indicates relay status
- Pilot duty rating

with appropriate socket

The TD-8 Series time delay relays offer an easy and accurate method to select any time delay between 100ms and 1,023 hours. Programming is accomplished through the use of a 10-position DIP-switch. Each position is marked with a binary time increment. The required delay is selected by moving the switch of each increment to the ON position and adding their corresponding values (see examples below). This method provides a greater setting accuracy than is found on other units with an analog potentiometer. An LED indicates relay status.

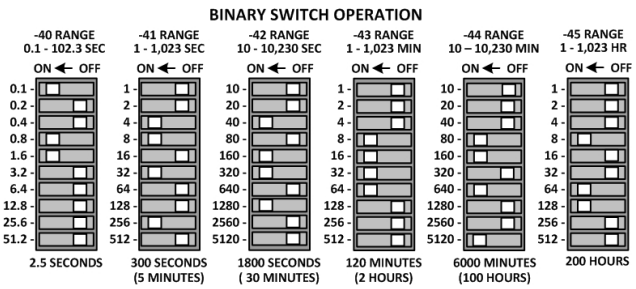
FUNCTION ■	INPUT VOLTAGE 50/60Hz.	CATALOG NUMBER **	WIRING/ SOCKETS
ON DELAY **A**	120V AC/DC 12V DC 24V AC/DC 240V AC	TD-80222-** TD-80226-** TD-80228-** TD-80221-**	8 PIN OCTAL **70169-D**
INTERVAL ON **B**	120V AC/DC 12V DC 24V AC/DC 240V AC	TD-80522-** TD-80526-** TD-80528-** TD-80521-**	
REPEAT CYCLE * (OFF Time First Followed By ON Time and Repeating) **L**	120V AC/DC 12V DC 24V AC/DC 240V AC	TD-83122-** TD-83126-** TD-83128-** TD-83121-**	8 PIN OCTAL **DIAGRAM 1**
REPEAT CYCLE * (ON Time First Followed By OFF Time and Repeating) **M**	120V AC/DC 12V DC 24V AC/DC 240V AC	TD-85122-** TD-85126-** TD-85128-** TD-85121-**	
OFF DELAY Control Switch Trigger **C**	120V AC/DC 12V DC 24V AC/DC 240V AC	TD-81622-** TD-81626-** TD-81628-** TD-81621-**	11 PIN OCTAL **70170-D**
SINGLE SHOT Control Switch Trigger **D**	120V AC/DC 12V DC 24V AC/DC 240V AC	TD-81522-** TD-81526-** TD-81528-** TD-81521-**	**DIAGRAM 2**

■ See “Definitions of Timing Functions”.

* ON & OFF Time Ranges for these functions are the same. See ***www.macromatic.com/onoff*** for information on how to order a unit with different ON & OFF time ranges.

Time Delays

**TIMING RANGE TABLE COMPLETE PRODUCT NUMBER USING TWO DIGIT CODE BELOW: i.e., TD-80222-40	
Time Delay Range	Code
0.1 - 102.3 Sec.	40
1 - 1,023 Sec.	41
10 - 10,230 Sec.	42
1 - 1,023 Min.	43
10 - 10,230 Min.	44
1 - 1,023 Hr.	45



Sockets & Accessories available

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