# PROGRAMMABLE | MULTI-RANGE

# DIGITAL-SET | TD-7 SERIES TIME RANGER™



- Pushbutton Thumbwheels for digital set of time delay
- ◆ 50ms 999 hour programmable time range
- Uses industry-standard 8 or 11 pin octal sockets
- ◆ 10A DPDT output contacts
- LED indicates timing mode and time out conditions









with appropriate socket The TD-7 series of time delay relays offer an easy and accurate way to select any time delay between 50ms and 999 hours. Programming is accomplished by using a pushbutton thumbwheel to select one of seven built-in time ranges and three pushbutton thumbwheels to digitally set the time delay required. This method provides a greater setting accuracy than is found on other units with an analog potentiometer. An LED indicates timing mode and time out condition.

Multi-function versions available.

**Single Function Products** 

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FUNCTION ■	INPUT VOLTAGE	PRODUCT NUMBER	WIRING/ SOCKETS	
ON DELAY	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TD-70222 TD-70226 TD-70228 TD-70221	8 PIN OCTAL 70169-D	
INTERVAL ON	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TD-70522 TD-70526 TD-70528 TD-70521	4 5 /6 /6 /7 /1 8 /7	
FLASHER (OFF 1st)	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TD-70822 TD-70826 TD-70828 TD-70821	~ ○ + V - ○ ~ DIAGRAM 1	
OFF DELAY	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TD-71622 TD-71626 TD-71628 TD-71621	11 PIN OCTAL 70170-D	
SINGLE SHOT	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TD-71522 TD-71526 TD-71528 TD-71521	45 5 7 8 Y	
			DIAGRAM 2	

■ See "Definitions of Timing Functions".

Sockets & Accessories available



Better. By Design.

800.238.7474

WWW.MACROMATIC.COM Sales@Macromatic.com

Build your Time Delay Relays with the **Online Product Builder** 

# TD-7 SERIES TIME RANGER™

## APPLICATION DATA

### Voltage Tolerance:

AC Operation: +10/-15% of nominal at 50/60 Hz.

+10/-15% of nominal. DC Operation:

Load (Burden):

3 VA

#### **Setting Accuracy:**

±1% of set time or ±50ms, whichever is greater.

Repeat Accuracy (constant voltage and temperature): +0.1% of set time or +0.02 seconds, whichever is greater.

On Delay/Interval/Flasher: 0.1 Seconds Functions with Control Switches: 0.04 Seconds

#### Start-up Time:

(Time from when power is applied until unit is timing)

120 & 240V units 0.05 Seconds 12, 24 & 48V units 0.08 Seconds

#### **Maintain Function Time:**

(Time unit continues to operate after power is removed) 0.01 Seconds for all units

#### Temperature:

12-120V Input Voltage: -28° to 65°C (-18° to 149°F) -28° to 50°C (-18° to 122°F) 240V Input Voltage:

#### Insulation Voltage:

2,000 volts

### **Output Contacts:**

DPDT 10A @ 240V AC/30V DC.

1/2HP @ 120/240V AC (N.O.), 1/3HP @ 120/240V AC (N.C.)

B300 & R300; AC15 & DC13

Mechanical: 10,000,000 operations Full Load: 100,000 operations

#### Compatibility:

Using a solid state switch to initiate the time sequence is acceptable. See www.macromatic.com/leakage or contact Macromatic for information regarding leakage current limits and other solid state design considerations.

#### **Initiating Units with Control Switch Triggers:**

Timing sequence must be initiated only after input voltage is applied to unit. Minimum required trigger switch closure time is 0.1 seconds.

#### LED:

Red LED. Refer to instruction sheet provided with product to determine code for relay & timing status.

#### Approvals:

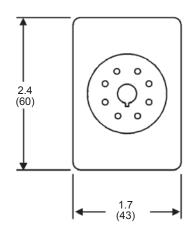


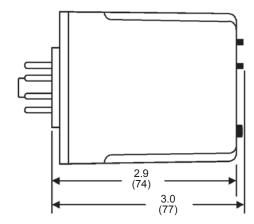


Low Voltage & **FMC Directives** EN60947-1, EN60947-5-1

LISTED D. CONT. EQUII 50U7 with appropriate File #E109466

## DIMENSIONS





All Dimensions in Inches (Millimeters)