

PROGRAMMABLE | MULTI-RANGE

DIGITAL-SET | TD-7 SERIES TIME RANGER™

The TD-781 Series offers an easy and accurate way to select a function and any time delay between 10ms 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. These units have a fifth pushbutton thumbwheel to select one of ten built-in functions. An LED indicates timing mode and time out condition.

Single-function versions available.

Multi-Function Product

| FUNCTION ■ | INPUT VOLTAGE | PRODUCT NUMBER | WIRING/ SOCKETS |
|---|---------------|----------------|--------------------|
| MULTI-FUNCTION (10 Functions in One Unit) | 120V AC/DC | TD-78122 | |
| A On Delay | 12V AC/DC | TD-78126 | |
| B Interval On | 24V AC/DC | TD-78128 | |
| C Off Delay * | 240V AC | TD-78121 | |
| D Single Shot * | | | |
| E Flasher (OFF 1st) | | | DIAGRAM 121 |
| F Flasher (ON 1st) | | | |
| G On/Off Delay * | | | |
| H Single Shot Falling Edge * | | | |
| J Watchdog * | | | |
| K Triggered On Delay * | | | |

■ See "Definitions of Timing Functions".

* These are the only functions requiring use of the Control Switch shown in Wiring Diagrams above.

Sockets & Accessories available



- ◆ Ten user-selectable modes in one unit
- ◆ Pushbutton Thumbwheels for digital set of time delay & function
- ◆ 10ms - 999 hour programmable time range
- ◆ Uses industry-standard 11 pin octal socket
- ◆ 10A DPDT output contacts
- ◆ LED indicates timing mode and time out conditions



UL LISTED with appropriate socket



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

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.

Reset Time:

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

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

Life:

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:



File #E109466



File #LR45565

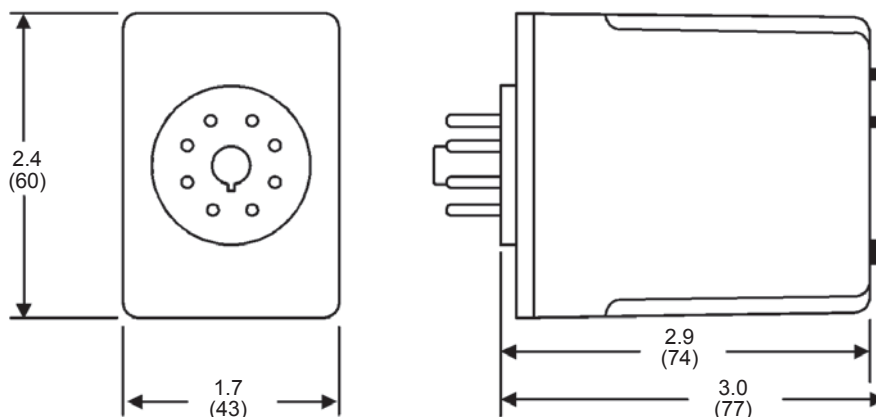


Low Voltage &
EMC Directives
EN60947-1, EN60947-5-1



with
appropriate
socket
File #E109466

DIMENSIONS



All Dimensions in
Inches (Millimeters)