

TIME DELAY RELAYS

Non-Programmable Plug-in

- Each unit has a single timing range
- Choose from 20 separate timing ranges from 0.02 Seconds to 24 Hours
- Independently selectable & adjustable ON & OFF times on dual timer products
- Uses industry-standard 8 or 11 pin octal sockets
- 10A DPDT output contacts (click [here](#) for information on 8 pin SPDT versions of selected functions normally offered with 11 pin DPDT output configurations)



Single Time

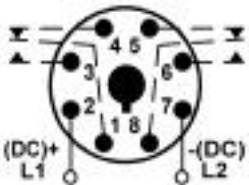


Dual Time

TR-5 Non-Programmable plug-in time delay relays are flexible and reliable. The most common timing functions are available in all standard input voltages. Each product is offered with a choice of time delay adjustment: on-board adjustable with a single timing range; fixed time delay; or remote adjustable. All dual-time functions such as repeat cycle or delayed interval have independently selectable and adjustable ON & OFF times for ultimate flexibility. These products utilize industry-standard 8 & 11 pin octal sockets, and have 10A DPDT output contacts.

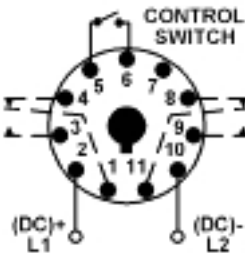
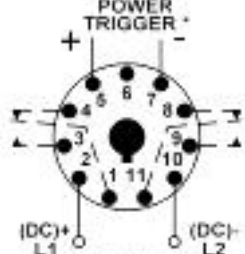
Single Time Units

| ** TIMING RANGE TABLE | |
|--|------|
| Complete Product Number Using Two Digit Code From Below, i.e., TR-50222-04 | |
| Time Delay Range | Code |
| | |

| FUNCTION | INPUT VOLTAGE | PRODUCT NUMBER Complete Product Number Using 2 Digit Code From Table at Left | WIRING/SOCKETS |
|--------------------|---|--|---|
| ON DELAY | 120V AC/DC 12V AC/DC 24V AC/DC 240V AC | TR-50222-** TR-50226-** TR-50228-** TR-50221-** | 8 PIN OCTAL 70169-D  INPUT VOLTAGE DIAGRAM 1 |
| INTERVAL ON | 120V AC/DC 12V AC/DC 24V AC/DC 240V AC | TR-50522-** TR-50526-** TR-50528-** TR-50521-** | |
| FLASHER | 120VAC/DC 12V AC/DC 24V AC/DC 240V AC | TR-50822-** TR-50826-** TR-50828-** TR-50821-** | |

| | |
|--------------------|----|
| 0.02 - 2 Sec. | 03 |
| 0.05 - 5 Sec | 04 |
| 0.1 - 10 Sec. | 05 |
| 0.15 - 15 Sec. | 06 |
| 0.3 - 30 Sec. | 07 |
| 0.6 - 60 Sec. | 08 |
| 1.2 - 120 Sec. | 09 |
| 1.8 - 180 Sec. | 10 |
| 3 - 300 Sec. | 12 |
| 4.5 - 450 Sec. | 13 |
| 6 Sec. - 10 Min. | 22 |
| 9 Sec. - 15 Min. | 14 |
| 0.3 - 30 Min. | 15 |
| 0.6 - 60 Min. | 16 |
| 1.2 - 120 Min. | 17 |
| 1.8 - 180 Min. | 18 |
| 2.4 Min. - 4 Hr. | 19 |
| 4.8 Min. - 8 Hr. | 20 |
| 7.2 Min. - 12 Hr. | 21 |
| 14.4 Min. - 24 Hr. | 23 |

For Fixed Time Delay: add suffix "F" and time delay desired to basic Product Number, i.e., TR-50222-F5S is an On Delay fixed at 5 seconds.

| | | | |
|--|---|--|--|
| OFF DELAY Control Switch Trigger | 120VAC/DC 12V AC/DC 24V AC/DC 240V AC | TR-51622-** TR-51626-** TR-51628-** TR-51621-** | 11 PIN OCTAL 70170-D  DIAGRAM 2 |
| SINGLE SHOT Control Switch Trigger | 120V AC/DC 12V AC/DC 24V AC/DC 240V AC | TR-51522-** TR-51526-** TR-51528-** TR-51521-** | |
| WATCHDOG (Retriggerable Single Shot) Control Switch Trigger | 120V AC/DC 12V AC/DC 24V AC/DC 240V AC | TR-51322-** TR-51326-** TR-51328-** TR-51321-** | 11 PIN OCTAL 70170-D  DIAGRAM 4 <small>* SHOULD BE SAME VOLTAGE AS INPUT VOLTAGE</small> |
| OFF DELAY Power Trigger | 120V AC/DC 12V AC/DC 24V AC/DC 240V AC | TR-51922-** TR-51926-** TR-51928-** TR-51921-** | |
| SINGLE SHOT Power Trigger | 120V AC/DC 12V AC/DC 24V AC/DC 240V AC | TR-51722-** TR-51726-** TR-51728-** TR-51721-** | |
| WATCHDOG (Retriggerable Single Shot) Power Trigger | 120V AC/DC 12V AC/DC 24V AC/DC 240V AC | TR-51822-** TR-51826-** TR-51828-** TR-51821-** | |


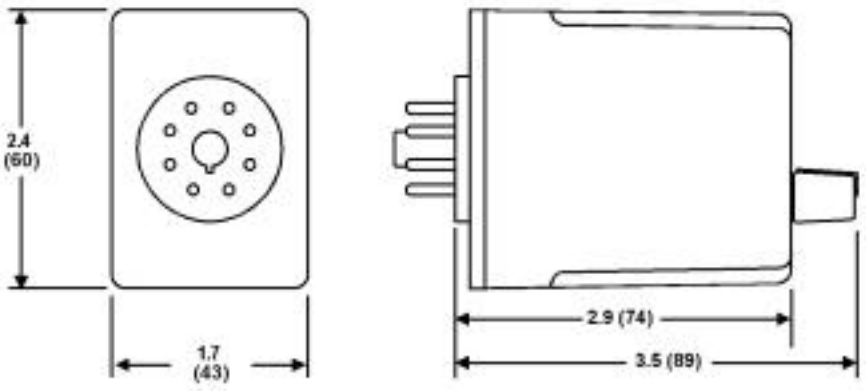


Click here for [Sockets & Accessories](#).

Standard Modifications such as External Time Adjust, Special Pin Configurations and Special Voltages are available-click [here](#) for more information or contact Macromatic for additional information.

Dual Time Units *

| FUNCTION | INPUT VOLTAGE | PRODUCT NUMBER Complete Product Number Using 2 Digit Code From Table at Left | WIRING/ SOCKETS |
|--|---|---|--------------------------------|
| REPEAT CYCLE * (OFF Time First Followed by ON Time and Repeating) | 120V AC/DC 12V AC/DC 24V AC/DC 240V AC | TR-53122-** TR-53126-** TR-53128-** TR-53121-** | 8 PIN OCTAL 70169-D |

| APPLICATION INFORMATION | DIMENSIONS |
|---|--|
| <p>Voltage Tolerance: AC Operation: +10/-15% of nominal at 50/60 Hz.; DC Operation: +10/-15% of nominal.</p> <p>Load (Burden): 2 VA</p> <p>Setting Accuracy: Maximum Setting (Adjustable): +5%, -0%; Minimum Setting (Adjustable): +0%, -50%. Fixed: > 2 Seconds: $\pm 1\%$, 0.1-2 Seconds: $\pm 5\%$</p> <p>Repeat Accuracy (Constant Voltage & Temperature): > 2 Seconds Delay $\pm 0.1\%$; 0.1 - 2 Seconds Delay $\pm 2\%$</p> <p>Reset Time: 0.1 Seconds</p> <p>Output Contacts: 10A @ 240V AC/30V DC, 1/2HP @ 120/240V AC (N.O.), 1/3HP @ 120/240V AC (N.C.), B300 & R300, AC15 & DC</p> <p>Life: Mechanical: 10,000,000 operations; Full Load: 100,000 operations</p> <p>Temperature: (12-120V) -28° to 65° C (-18° to 150° F); 240V -28° to 50° C (-18° to 122° F)</p> <p>Insulation Voltage: 2,000 volts</p> <p>Approvals:</p>  <p>with Appropriate Macromatic Socket</p> |  <p style="text-align: center;">Inches (Millimeters)</p> |

Revised: 90/7