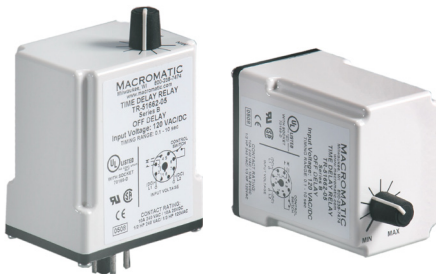


# NON-PROGRAMMABLE | OFF DELAY, SINGLE SHOT & WATCHDOG

## 8 PIN | SPDT VERSIONS | TR-5 SERIES



- ◆ These are 8 pin 10A SPDT versions of our standard 11 pin DPDT products
- ◆ Onboard & remote adjustable or fixed time delays from 0.05 seconds to 2 hours
- ◆ Uses industry-standard 8 pin octal socket
- ◆ Pilot duty rating



with appropriate socket

FUNCTION ■	INPUT VOLTAGE 50/60Hz.	CATALOG NUMBER **	WIRING/SOCKETS ▲
<b>OFF DELAY</b> Control Switch Trigger <b>C</b>	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51662-** TR-51666-** TR-51668-** TR-51661-**	<b>8 PIN OCTAL 70169-D ▲</b> 
<b>SINGLE SHOT</b> Control Switch Trigger <b>D</b>	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51562-** TR-51566-** TR-51568-** TR-51561-**	
<b>WATCHDOG</b> Control Switch Trigger (Retriggerable Single Shot) <b>J</b>	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51362-** TR-51366-** TR-51368-** TR-51361-**	
<b>OFF DELAY</b> Power Trigger <b>C</b>	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51962-** TR-51966-** TR-51968-** TR-51961-**	<b>8 PIN OCTAL 70169-D ▲</b> <p>* MUST BE SAME VOLTAGE AS INPUT VOLTAGE</p>
<b>SINGLE SHOT</b> Power Trigger <b>D</b>	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51762-** TR-51766-** TR-51768-** TR-51761-**	
<b>WATCHDOG</b> Power Trigger (Retriggerable Single Shot) <b>J</b>	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51862-** TR-51866-** TR-51868-** TR-51861-**	

■ See “Definitions of Timing Functions”.

\*\* Complete Product Number using two-digit Code from Table below.

▲ Note: if these products are ordered with the Remote Adjust Potentiometer modification (suffix -Rx), they will require an 11 pin octal socket—see [www.macromatic.com/remote](http://www.macromatic.com/remote) for information.

## TIME DELAYS

TR-5 Series Products have three time delay options:

- **Onboard Adjustable Time Delay**--complete Product Number by adding two-digit Code from Table at right, i.e., TR-51662-05 is an Off Delay with a time delay range of 0.1-10 seconds.
- **Onboard Fixed Time Delay**--replace two-digit Code with suffix “F” followed by delay [0.1 ... 100] followed by (S) seconds, (M) minutes or (H) hours, i.e., TR-51662-F5S is an Off Delay with a time delay fixed at 5 seconds.
- **Remote Time Delay**--Selected TR-5 Series products can be built with two terminals for remote adjustable or fixed time delays. See [www.macromatic.com/remote](http://www.macromatic.com/remote) for information.

\*\* TIMING RANGE TABLE

Time Delay Range	Code
0.05 - 5 Sec.	04
0.1 - 10 Sec.	05
0.3 - 30 Sec.	07
0.6 - 60 Sec.	08
1.2 - 120 Sec.	09
1.8 - 180 Sec.	10
3 - 300 Sec.	12
0.1 - 10 Min.	22
0.3 - 30 Min.	15
0.6 - 60 Min.	16
1.2 - 120 Min.	17

Sockets & Accessories available

Build your Time Delay Relays with the [Online Product Builder](#)



Better. By Design.

800.238.7474

WWW.MACROMATIC.COM

SALES@MACROMATIC.COM

# NON-PROGRAMMABLE | OFF DELAY, SINGLE SHOT & WATCHDOG

## 8 PIN | SPDT VERSIONS | TR-5 SERIES

### APPLICATION DATA

#### Voltage Tolerance:

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

#### Load (Burden):

Maximum of 2 VA for all voltages

#### Setting Accuracy:

Maximum Setting (Adjustable): +5%, -0%  
Minimum Setting (Adjustable): +0%, -50%  
Fixed Time Delay:  $\pm 2\%$  or 50ms, whichever is greater

**Repeat Accuracy** (constant voltage and temperature):  
 $\pm 0.1\%$  or  $\pm 0.04$  seconds, whichever is greater

#### Reset Time:

Input Voltage (All Functions) 0.100 Seconds  
Triggered Functions only 0.04 Seconds

#### Start-up Time:

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

#### Maintain Function Time:

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

**Temperature:** Operating: -28° to 65°C (-18° to 149°F)  
Storage: -40° to 85°C (-40° to 185°F)

#### Output Contacts:

SPDT 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](http://www.macromatic.com/leakage) or contact Macromatic for information regarding leakage current limits and other solid state design considerations.

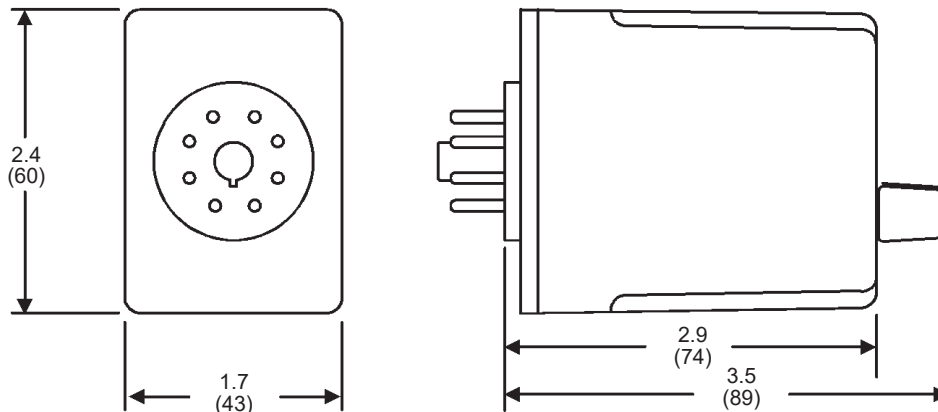
#### Triggering Off Delay, Single Shot or Watchdog Units:

Timing sequence must be initiated only after input voltage is applied to unit. Minimum required trigger switch closure time is 0.05 seconds.

#### Approvals:



### DIMENSIONS



All Dimensions in Inches (Millimeters)