

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



FUNCTION ■	INPUT VOLTAGE 50/60Hz.	PRODUCT NUMBER **	WIRING/ SOCKETS ▲
OFF DELAY Control Switch Trigger C	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51662-** TR-51666-** TR-51668-** TR-51661-**	8 PIN OCTAL 70169-D ▲ DIAGRAM 11
SINGLE SHOT Control Switch Trigger D	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51562-** TR-51566-** TR-51568-** TR-51561-**	
WATCHDOG Control Switch Trigger (Retriggerable Single Shot) J	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51362-** TR-51366-** TR-51368-** TR-51361-**	
OFF DELAY Power Trigger C	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51962-** TR-51966-** TR-51968-** TR-51961-**	8 PIN OCTAL 70169-D ▲ DIAGRAM 37
SINGLE SHOT PowerTrigger D	120V AC/DC 12V DC 24V AC/DC 240V AC	TR-51762-** TR-51766-** TR-51768-** TR-51761-**	
WATCHDOG Power Trigger (Retriggerable Single Shot) J	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 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 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](#)



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TR-5 SERIES

8 PIN | SPDT VERSIONS

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 ± 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 or contact Macromatic for information regarding leakage current limits and other solid state design considerations.

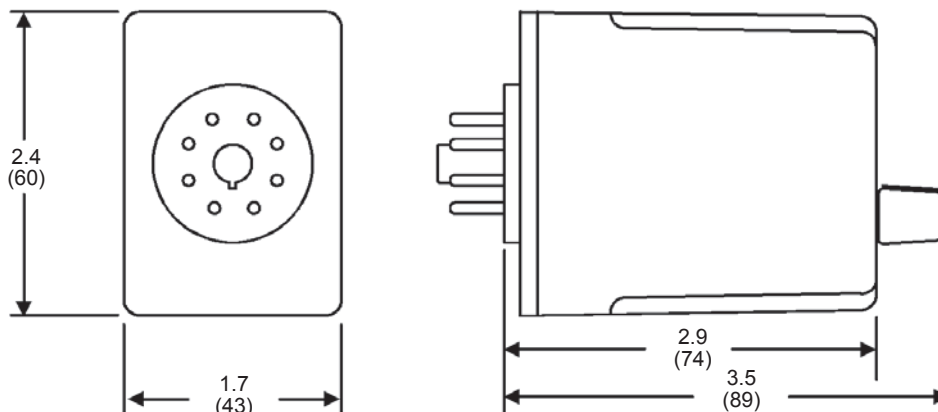
Triggering Off Delay, Single Shot or Watchdog Units:

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)