# 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	120V AC/DC	TR-51662-**	
Control Switch Trigger	12V DC	TR-51666-**	8 PIN OCTAL
C	24V AC/DC	TR-51668-**	70169-D 🔺
	240V AC	TR-51661-**	
SINGLE SHOT	120V AC/DC	TR-51562-**	TRIGGER
Control Switch Trigger	12V DC	TR-51566-**	
D	24V AC/DC	TR-51568-**	
	240V AC	TR-51561-**	
WATCHDOG	120V AC/DC	TR-51362-**	
Control Switch Trigger	12V DC	TR-51366-**	V
(Retriggerable	24V AC/DC	TR-51368-**	
Single Shot)	240V AC	TR-51361-**	DIAGRAM 11
OFF DELAY	120V AC/DC	TR-51962-**	8 PIN OCTAL
Power Trigger	12V DC	TR-51966-**	70169-D 🔺
C	24V AC/DC	TR-51968-**	POWER TRIGGER *
	240V AC	TR-51961-**	TRIGGER *
SINGLE SHOT	120V AC/DC	TR-51762-**	=
PowerTrigger	12V DC	TR-51766-**	A 7 4 5
D	24V AC/DC	TR-51768-**	
-	240V AC	TR-51761-**	
WATCHDOG	120V AC/DC	TR-51862-**	~ + ~
Power Trigger	12V DC	TR-51866-**	* MUST BE SAME VOLTAGE AS INPUT VOLTAGE
(Retriggerable	24V AC/DC	TR-51868-**	AS INPUT VOLTAGE
Single Shot)	240V AC	TR-51861-**	DIAGRAM 37

- 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 <u>www.macromatic.com/remote</u> 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 <u>www.macromatic.com/remote</u> 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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800.238.7474 www.macromatic.com sales@macromatic.com

# 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: +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) Triggered Functions only

tions) 0.100 Seconds hly 0.04 Seconds

ions only

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 <u>www.macromatic.com/leakage</u> 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:

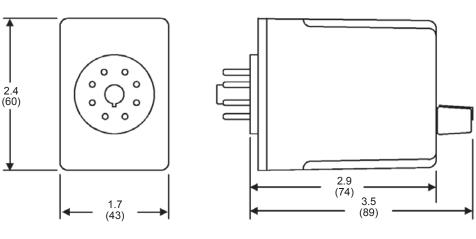




with appropriate socket

File #E109466

### DIMENSIONS



All Dimensions in Inches (Millimeters)

### 800.238.7474 | WWW.MACROMATIC.COM | SALES@MACROMATIC.COM