

TIME DELAY RELAYS

**NON-PROGRAMMABLE PLUG-IN
8 PIN SPDT VERSIONS
OFF DELAY, SINGLE SHOT & WATCHDOG**



- ◆ These are 8 pin 10A SPDT versions of our standard 11 pin DPDT products
- ◆ Each unit has a single timing range from 0.02 Seconds to 24 Hours
- ◆ Uses industry-standard 8 pin octal socket



FUNCTION ■	INPUT VOLTAGE 50/60Hz.	PRODUCT NUMBER ** <small>COMPLETE PRODUCT NUMBER USING 2 DIGIT CODE FROM TABLE BELOW</small>	WIRING/SOCKETS ▲
OFF DELAY Control Switch Trigger	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-51662-** TR-51666-** TR-51668-** TR-51661-**	8 PIN OCTAL 70169-D ▲ CONTROL SWITCH INPUT VOLTAGE DIAGRAM 11
SINGLE SHOT Control Switch Trigger	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-51562-** TR-51566-** TR-51568-** TR-51561-**	
WATCHDOG Control Switch Trigger (Retriggerable Single Shot)	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-51362-** TR-51366-** TR-51368-** TR-51361-**	
OFF DELAY Power Trigger	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-51962-** TR-51966-** TR-51968-** TR-51961-**	8 PIN OCTAL 70169-D ▲ POWER TRIGGER * INPUT VOLTAGE <small>* SHOULD BE SAME VOLTAGE AS INPUT VOLTAGE</small> DIAGRAM 37
SINGLE SHOT PowerTrigger	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-51762-** TR-51766-** TR-51768-** TR-51761-**	
WATCHDOG Power Trigger (Retriggerable Single Shot)	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-51862-** TR-51866-** TR-51868-** TR-51861-**	

■ See Pages 32-33 for definitions & explanations of Timing Functions.

▲ Note: if these products are ordered with the Remote Adjust Potentiometer modification (suffix -Rx), they will require an 11 pin octal socket—see Page 50 for more information.

Sockets & Accessories—Page 58
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Application Data—Page 39
Standard Modifications—Pages 50-51

TIMING RANGES

** TIMING RANGE TABLE			
COMPLETE PRODUCT NUMBER USING TWO DIGIT CODE FROM TABLE BELOW			
i.e., TR-51662-04			
Time Delay Range	Code	Time Delay Range	Code
0.02 - 2 Sec.	03	6 Sec. - 10 Min.	22
0.05 - 5 Sec.	04	9 Sec. - 15 Min.	14
0.1 - 10 Sec.	05	0.3 - 30 Min.	15
0.15 - 15 Sec.	06	0.6 - 60 Min.	16
0.3 - 30 Sec.	07	1.2 - 120 Min.	17
0.6 - 60 Sec.	08	1.8 - 180 Min.	18
1.2 - 120 Sec.	09	2.4 Min. - 4 Hr.	19
1.8 - 180 Sec.	10	4.8 Min. - 8 Hr.	20
3 - 300 Sec.	12	7.2 Min. - 12 Hr.	21
4.5 - 450 Sec.	13	14.4 Min. - 24 Hr.	23

For Fixed Time Delay (at no additional charge), add suffix "F" and fixed time delay desired to basic Product Number, i.e., TR-51662-F5S is an Off Delay with a time delay fixed at 5 seconds.



800-238-7474

www.macromatic.com
whats-up@macromatic.com

TIME DELAY RELAYS

NON-PROGRAMMABLE PLUG-IN

8 PIN SPDT VERSIONS

APPLICATION DATA & DIMENSIONS

APPLICATION DATA

Voltage Tolerance:

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

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

Load (Burden):

2 VA

Setting Accuracy:

Maximum Setting (Adjustable): +5%, -0%

Minimum Setting (Adjustable): +0%, -50%

Fixed Time Delay: > 2 Seconds ±1%

0.1 - 2 Seconds ±5%

Repeat Accuracy (constant voltage and temperature):

> 2 Seconds Delay ±0.1%

0.1 - 2 Seconds Delay ±2%

Reset Time:

Off Delay/Single Shot/Watchdog: 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 time after power is removed)

0.01 Seconds for all units

Temperature:

12-120V Input Voltage: -28° to 65°C (-18° to 150°F)

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

Insulation Voltage:

2,000 volts

Output Contacts:

DPDT 10A @ 240V AC/28V DC,

1/2HP @ 240V AC, 1/3HP @ 120V AC

B300 & R300; AC15 & DC13

Life:

Mechanical: 10,000,000 operations

Full Load: 100,000 operations

Compatibility:

On all units triggered by a control switch, do not use a solid state switch to initiate the timing sequence-problems with leakage current could occur. On all units with a power trigger, do not use a solid state switch with leakage current exceeding 0.5ma. Contact Macromatic Controls for additional information.

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 0.1 seconds.

Approvals:



File #E109466



File #LR45565

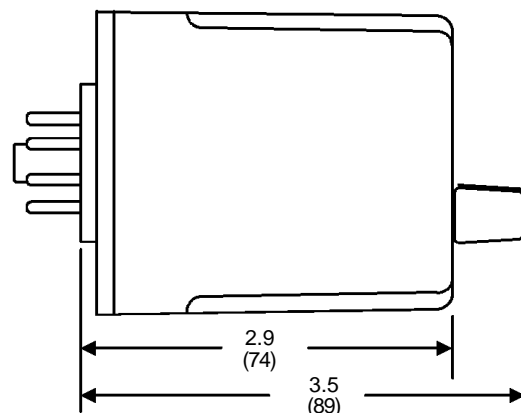
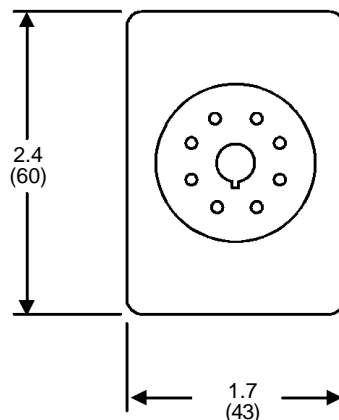


Low Voltage &
EMC Directives
EN60947-1, EN60947-5-1



IND. CONT. EQUIP
SOLUT.
with
appropriate
socket
File #E109466

DIMENSIONS



All Dimensions in
Inches (Millimeters)