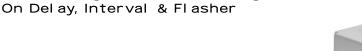
Non-Programmable Plug-in On Delay, Interval & Flasher







- u Each unit has a single timing range
- u Choose from 11 separate timing ranges from 0.02 Seconds to 2 Hours
- u Uses industry-standard 8 pin octal sockets
- u 10A DPDT output contacts





SINGLE KNOB UNITS

	INPUT	PRODUCT	
FUNCTION n	VOLTAGE 50/60Hz.	NUMBER ** COMPLETE PRODUCT NUMBER USING 2 DIGIT CODE FROM TABLE BELOW	WIRING/ SOCKETS p
ON DELAY	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-50222-** TR-50226-** TR-50228-** TR-50221-**	8 PIN OCTAL p 70169-D
INTERVAL ON	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-50522-** TR-50526-** TR-50528-** TR-50521-**	45 6 A A (DC)+ (DC)
FLASHER	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-50822-** TR-50826-** TR-50828-** TR-50821-**	INPUT VOLTAGE DIAGRAM 1

- n See Pages 52 & 53 for definitions & explanations of Timing Functions.
- p Note: if these products are ordered with the Remote Adjust Potentiometer modification (suffix -Rx), they will require an 11 pin octal socket-see Page 80 for more information.

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Timing Ranges



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** TIMING RANGE TABLE COMPLETE PRODUCT NUMBER USING TWO DIGIT CODE FROM TABLE BELOW			
i.e., TR-50222-04			
Time Delay Range	Code	Time Delay Range	Code
0.05 - 5 Sec.	04	3 - 300 Sec.	12
0.1 - 10 Sec.	05	0.1 - 10 Min.	22
0.3 - 30 Sec.	07	0.3 - 30 Min.	15
0.6 - 60 Sec.	80	0.6 - 60 Min.	16
1.2 - 120 Sec.	09	1.2 - 120 Min.	17
1.8 - 180 Sec.	10		

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

NOTE: Macromatic has obsoleted several time ranges that are no longer available on these products--for more information, please contact Macromatic.

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Non-Programmable Plug-in Off Delay, Single Shot & Watchdog

SINGLE KNOB UNITS

SINGLE KNOB UNITS			
	INPUT VOLTAGE	PRODUCT NUMBER **	WIRING/
FUNCTION n p	50/60Hz.	COMPLETE PRODUCT NUMBER USING 2 DIGIT CODE FROM TABLE BELOW	SOCKETS
OFF DELAY	120V AC/DC	TR-51622-**	11 PIN OCTAL
Control Switch Trigger	12V AC/DC	TR-51626-**	70170-D
	24V AC/DC	TR-51628-**	CONTROL
	240V AC	TR-51621-**	SWITCH
SINGLE SHOT	120V AC/DC	TR-51522-**	5 6 7
Control Switch Trigger	12V AC/DC	TR-51526-**	
	24V AC/DC	TR-51528-**	2\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	240V AC	TR-51521-**	
WATCHDOG	120V AC/DC	TR-51322-**	(DC)+
Control Switch Trigger	12V AC/DC	TR-51326-**	INPUT VOLTAGE
(Retriggerable	24V AC/DC	TR-51328-**	DIAGRAM 2
Single Shot)	240V AC	TR-51321-**	
OFF DELAY	120V AC/DC	TR-51922-**	11 PIN OCTAL
Power Trigger	12V AC/DC	TR-51926-**	70170-D
	24V AC/DC	TR-51928-**	POWER TRIGGER *
	240V AC	TR-51921-**	+ -
SINGLE SHOT	120V AC/DC	TR-51722-**	5 6 70
Power Trigger	12V AC/DC	TR-51726-**	₹₹₹, ♠ ,₺₹₹
	24V AC/DC	TR-51728-**	2\111/
	240V AC	TR-51721-**	(DC)-
WATCHDOG	120V AC/DC	TR-51822-**	L1 O L2
Power Trigger	12V AC/DC	TR-51826-**	* SHOULD BE SAME VOLTAGE AS INPUT VOLTAGE
(Retriggerable	24V AC/DC	TR-51828-**	DIAGRAM 4
Single Shot)	240V AC	TR-51821-**	DIAGRAWI 4

- Each unit has a single timing range
- u Choose from 11 separate timing ranges from 0.02 Seconds to 2 Hours
- Uses industry-standard11 pin octal sockets
- u 10A DPDT output contacts





- $\,n\,$ See Pages 52 & 53 for definitions & explanations of Timing Functions.
- p 8 Pin SPDT versions of these functions are available-see Page 64.

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Timing Ranges

** TIMING RANGE TABLE COMPLETE PRODUCT NUMBER USING TWO DIGIT CODE FROM TABLE BELOW				
i.e., TR-51622-04				
Time Delay Range	Code	Time Delay Range	Code	
0.05 - 5 Sec.	04	3 - 300 Sec.	12	
0.1 - 10 Sec.	05	0.1 - 10 Min.	22	
0.3 - 30 Sec.	07	0.3 - 30 Min.	15	
0.6 - 60 Sec.	08	0.6 - 60 Min.	16	
1.2 - 120 Sec.	09	1.2 - 120 Min.	17	
1.8 - 180 Sec.	10			

For Fixed Time Delay, add suffix "F" and time delay desired to basic Product Number, i.e., TR-51622-F5S is an Off Delay with a time delay fixed at 5 seconds.

NOTE: Macromatic has obsoleted several time ranges that are no longer available on these products--for more information, please contact Macromatic.



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Non-Programmable Plug-in Repeat Cycle & Delayed Interval





- Each unit has a single timing range
- u Choose from 11 separate timing ranges from 0.02 Seconds to 2 Hours
- Independently adjustable
 ON & OFF times on dual
 knob timers
- Uses industry-standard 8 or11 pin octal sockets
- u 10A DPDT output contacts









DUAL KNOB UNITS *

FUNCTION n	INPUT VOLTAGE 50/60Hz.	PRODUCT NUMBER ** COMPLETE PRODUCT NUMBER USING 2 DIGIT CODE FROM TABLE BELOW	WIRING/ SOCKET
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
REPEAT CYCLE (ON Time First Followed By OFF Time and Repeating)	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-55122-** TR-55126-** TR-55128-** TR-55121-**	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
DELAYED INTERVAL (OFF Time Followed by ON Time Followed by OFF State Until Reset)	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-56122-** TR-56126-** TR-56128-** TR-56121-**	INPUT VOLTAGE DIAGRAM 1
DELAYED INTERVAL Control Switch Trigger (OFF Time Followed by ON Time Followed by OFF State Until Reset)	120V AC/DC 12V AC/DC 24V AC/DC 240V AC	TR-56522-** TR-56526-** TR-56528-** TR-56521-**	11 PIN OCTAL 70170-D CONTROL SWITCH 3 6 7 8 7 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

All Dual Knob units have independently selectable & adjustable ON & OFF times. To order a Dual Knob unit with the <u>same ON & OFF timing ranges</u>, complete the Product Number by adding one two-digit code from the table below, i.e., a TR-55122-08 is a Repeat Cycle unit with both the ON time & OFF time adjustable between 0.6 - 60 seconds. To order a Dual Knob unit with <u>different ON & OFF timing ranges</u>, complete the Product Number by adding two different two-digit codes from the table below. The first suffix indicates the first timing range of the unit and the second suffix indicates the second timing range, i.e., a TR-53122-05-12 is a Repeat Cycle unit with an OFF timing range first of 0.1-10 seconds and an ON timing range second of 3-300 seconds.

n See Pages 52 & 53 for definitions & explanations of Timing Functions.

1.8 - 180 Sec.

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Timing Ranges



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** TIMING RANGE TABLE COMPLETE PRODUCT NUMBER USING TWO DIGIT CODE FROM TABLE BELOW			
i.e., TR-55122-04			
Time Delay Range	Code	Time Delay Range	Code
0.05 - 5 Sec.	04	3 - 300 Sec.	12
0.1 - 10 Sec.	05	0.1 - 10 Min.	22
0.3 - 30 Sec.	07	0.3 - 30 Min.	15
0.6 - 60 Sec.	08	0.6 - 60 Min.	16
1.2 - 120 Sec.	09	1.2 - 120 Min.	17

NOTE: Macromatic has obsoleted several time ranges that are no longer available on these products--for more information, please contact Macromatic.

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Non-Programmable Plug-in Application Data & Dimensions

Application Data

Voltage Tolerance:

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

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 <u>+</u>0.1% <u>+</u>2% 0.1 - 2 Seconds Delay

Reset Time:

On Delay/Interval/Repeat Cycle/Delayed Interval: 0.1 Seconds Off Delay/Single Shot/Watchdog/

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

Insulation Voltage:

2,000 volts

Output Contacts:

DPDT 10A @ 240V AC/30V DC, 1/2HP @ 120/240V AC (N.O.), 1/3HP @ 120/240V AC (N.C.) B300 & R300; AC15 & DC13

Mechanical: 10,000,000 operations Full Load: 100,000 operations

Compatibility:

On all units triggered by input voltage or by a control switch, do not use a solid state switch to initiate the timing sequenceproblems 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:





Low Voltage & **FMC Directives** EN60947-1, EN60947-5-1



Dimensions

