

File No.
E109466



File No.
LR45565

**Timing Range Table (For Standard products)

Time Delay Range	Suffix Code
0.2 - 5 Sec.	04
0.3 - 10 Sec.	05
1.0 - 30 Sec.	07
2.0 - 60 Sec.	08
4.0 - 120 Sec.	09
6.0 - 180 Sec.	10
10 - 300 Sec.	12
20 Sec. - 10 Min.	22
1 - 30 Min.	15
2 - 60 Min.	16
4 Min. - 2 Hr.	17

WIRING/SOCKET DIAGRAMS

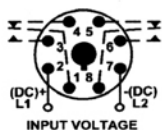


DIAGRAM 1

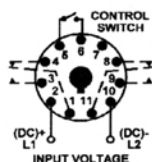


DIAGRAM 2

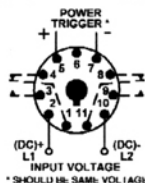


DIAGRAM 4

Type Of Mounting Accessory Product Number

35mm DIN Track/
Surface 8 Pin Octal
Socket 70169-D

35mm DIN Track/
Surface 11 Pin Octal
Socket 70170-D

TIME DELAY RELAYS

Macromatic offers two styles of full size plug-in time delay relays. Selecting one of the 16 built-in time ranges on the *Time Ranger*™ programmable products is easy using a rotary switch instead of DIP switches -no math is required. Each *Time Ranger* can be programmed for any time delay up to 2 hours (up to 24 hours on dual knob units*). Each of the Standard products have a specific timing range indicated by the two digit suffix code in the Timing Range Table. **Output:** 10A DPDT @ 240VAC/28VDC, 1/2 HP @ 240VAC. **Dimensions:** 3.2" x 2.4" x 1.7"

Product Selection

Function	Input Voltage	Time Ranger™ Product No. Each unit has 16 programmable time delay ranges	Standard Product No.** Complete Product No. using Timing Range Table	Wiring/ Sockets
ON DELAY	120VAC/DC 12VAC/DC 24VAC/DC	TR-60222 TR-60226 TR-60228	TR-50222-** TR-50226-** TR-50228-**	DIAGRAM 1 8 PIN OCTAL 70169-D
INTERVAL ON	120VAC/DC 12VAC/DC 24VAC/DC	TR-60522 TR-60526 TR-60528	TR-50522-** TR-50526-** TR-50528-**	DIAGRAM 1 8 PIN OCTAL 70169-D
FLASHER	120VAC/DC 12VAC/DC 24VAC/DC	TR-60822 TR-60826 TR-60828	TR-50822-** TR-50826-** TR-50828-**	DIAGRAM 1 8 PIN OCTAL 70169-D
OFF DELAY Control Switch Trigger	120VAC/DC 12VAC/DC 24VAC/DC	TR-61622 TR-61626 TR-61628	TR-51622-** TR-51626-** TR-51628-**	DIAGRAM 2 11 PIN OCTAL 70170-D
OFF DELAY Power Trigger	120VAC/DC 12VAC/DC 24VAC/DC	TR-61922 TR-61926 TR-61928	TR-51922-** TR-51926-** TR-51928-**	DIAGRAM 4 11 PIN OCTAL 70170-D
SINGLE SHOT Control Switch Trigger	120VAC/DC 12VAC/DC 24VAC/DC	TR-61522 TR-61526 TR-61528	TR-51522-** TR-51526-** TR-51528-**	DIAGRAM 2 11 PIN OCTAL 70170-D
SINGLE SHOT Power Trigger	120VAC/DC 12VAC/DC 24VAC/DC	TR-61722 TR-61726 TR-61728	TR-51722-** TR-51726-** TR-51728-**	DIAGRAM 4 11 PIN OCTAL 70170-D
WATCHDOG Control Switch Trigger	120VAC/DC 12VAC/DC 24VAC/DC	TR-61322 TR-61326 TR-61328	TR-51322-** TR-51326-** TR-51328-**	DIAGRAM 2 11 PIN OCTAL 70170-D
WATCHDOG Power Trigger	120VAC/DC 12VAC/DC 24VAC/DC	TR-61822 TR-61826 TR-61828	TR-51822-** TR-51826-** TR-51828-**	DIAGRAM 4 11 PIN OCTAL 70170-D
REPEAT CYCLE* (OFF Time First Followed By ON Time)	120VAC/DC 12VAC/DC 24VAC/DC	TR-63122 TR-63126 TR-63128	TR-53122-** TR-53126-** TR-53128-**	DIAGRAM 1 8 PIN OCTAL 70169-D
REPEAT CYCLE* (ON Time First Followed By OFF Time)	120VAC/DC 12VAC/DC 24VAC/DC	TR-65122 TR-65126 TR-65128	TR-55122-** TR-55126-** TR-55128-**	DIAGRAM 1 8 PIN OCTAL 70169-D
DELAYED INTERVAL* (OFF Time/Off Time/ OFF State Until Reset)	120VAC/DC 12VAC/DC 24VAC/DC	TR-66122 TR-66126 TR-66128	TR-56122-** TR-56126-** TR-56128-**	DIAGRAM 1 8 PIN OCTAL 70169-D
INTERVAL ON/FLASHER* (ON Time Followed by Flashing OFF-ON)	120VAC/DC 12VAC/DC 24VAC/DC	TR-66422 TR-66426 TR-66428	TR-56422-** TR-56426-** TR-56428-**	DIAGRAM 1 8 PIN OCTAL 70169-D

*Dual knob unit

Time Ranger™ Programmable Multi-Function Multi-Range Plug In Time Delay Relay

The TR Series 681 Multi-Function *Time Ranger* offers the most common timing functions with up to a 10 hour time delay in one easy-to-program product. Plus it works at both 24VAC/DC and 120VAC input voltages. This flexibility makes it a great product for anyone's inventory. It is the same size as the standard line of Macromatic *Time Ranger* products and uses industry-standard 8 or 11 pin octal sockets. **Output:** 10A @ 240VAC/28VDC **Dimensions:** 3.2" x 2.4" x 1.7"



WIRING/SOCKET DIAGRAMS

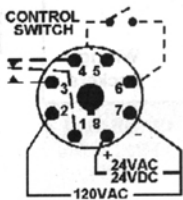


Diagram 43

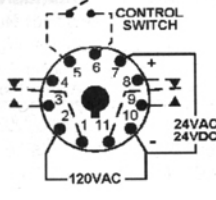


Diagram 44

PRODUCT SELECTION

Field Selectable:	Voltage	Output	Product Number	Wiring/Socket
On Delay Interval On Single Shot Off Delayu On/Off Delay Triggered On Delay Instantaneous On	120V AC & 24V AC/DC	SPDT DPDT	TR-68169 TR-68129	DIAGRAM 43 8 PIN OCTAL 70169-D DIAGRAM 44 11 PIN OCTAL 70170-D

Time Ranger III Digital Set Multi-Function/Multi-Range Time Delay Relay

File No.
701134File No.
E170213

The Time Ranger III Digital-Set Time Delay Relay is a flexible and versatile product for almost any application requiring a timing function. It offers 8 field selectable functions in one product, a programmable time range of 0.1 second to 9,990 hours, and universal AC/DC input voltage through 240V. Push button thumb wheels and an LCD allow for easy and accurate settings of function and time delay. **Output:** 3A DPDT @ 250VAC; 5A DPDT @ 28VDC. **Dimensions:** 1.9" x 1.9" x 3.5"

MOUNTING ACCESSORIES

Type of Mounting	Accessory	Product No.
Panel (Door)	11 Pin Octal Back-Mounted Socket	70300
	Mounting Adapter	70310
	Protective Cover	70320
35mm DIN Track or Surface	11 Pin Octal Socket	70170-D

Product Number: 9816U1

Compact Plug-In Time Delay Relay

Macromatic's line of Compact Time Delay Relays are ideal for applications requiring dependable, small and economical plug-in products. They are available in both ON and OFF Delays, with five separate timing ranges covering 0.2-180 seconds. **Output:** 5A SPDT @ 120VAC, 1/6 Hp @ 120VAC. **Dimensions:** 1.4" x 1.4" x 2.1"

File
E109466

**Timing Range Table (FOR COMPACT PRODUCTS)

Time Delay Range	Suffix Code
0.2 - 5 Sec.	04
0.5 - 15 Sec.	06
1.0 - 30 Sec.	07
2.0 - 60 Sec.	08
6.0 - 180 Sec.	10

PRODUCT SELECTION

Function	Input Voltage	Product Number** Complete Product Number using Timing Range Table	Wiring/Socket
On Delay	120V AC 12V AC/DC 24V AC/DC	SS-6262-** SS-6266-** SS-6268-**	DIAGRAM 5 8 PIN OCTAL 70169-D
Off Delay	120V AC 12V AC/DC 24V AC/DC	SS-8562-** SS-8566-** SS-8568-**	DIAGRAM 6 8 PIN OCTAL 70169-D

WIRING/SOCKET DIAGRAMS

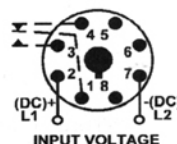


Diagram 5

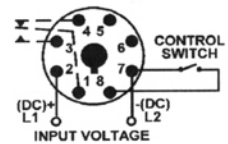


Diagram 6