



# Artisan Scientific

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# TIME DELAY RELAYS

## TIME RANGER™ MULTI-RANGE PLUG-IN



Simply select 1 of the 16 built-in time ranges by setting DIP switches per a chart on side of unit and adjust within that range using the knob on top

- ◆ 16 Timing Ranges in Single Timer- Requires No Math to Set
- ◆ Timing Ranges from 0.1 Seconds to 2 Hours (0.6 Seconds to 24 Hours for all Repeat Cycle & Delayed Interval Timers)
- ◆ Dual-Rated AC or DC Input Voltages
- ◆ Voltages from 12VAC/DC to 240VAC
- ◆  $\pm 0.1\%$  Repeat Accuracy
- ◆ 10A @240VAC DPDT Output
- ◆ Independently Adjustable ON & OFF Times on Repeat Cycle Products
- ◆ Industry-Standard 8 & 11 Pin Octal Sockets

### WIRING/SOCKET DIAGRAMS

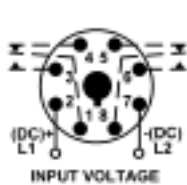


DIAGRAM 1

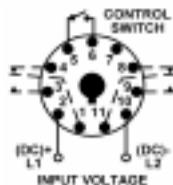


DIAGRAM 2

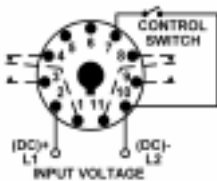


DIAGRAM 3

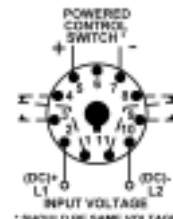


DIAGRAM 4



800-238-7474

FUNCTION	INPUT VOLTAGE	PRODUCT NUMBER	WIRING/SOCKETS
<b>ON DELAY</b>	120VAC/DC	SS-60222	8 Pin Octal 70169-D <b>DIAGRAM 1</b>
	12VAC/DC	SS-60226	
	24VAC/DC	SS-60228	
	240VAC	SS-60221	
<b>INTERVAL ON</b>	120VAC/DC	SS-60522	8 Pin Octal 70169-D <b>DIAGRAM 1</b>
	12VAC/DC	SS-60526	
	24VAC/DC	SS-60528	
	240VAC	SS-60521	
<b>OFF DELAY</b> (5-6 Trigger)	120VAC/DC	SS-61622	11 Pin Octal 70170-D <b>DIAGRAM 2</b>
	12VAC/DC	SS-61626	
	24VAC/DC	SS-61628	
	240VAC	SS-61621	
<b>OFF DELAY</b> (7-10 Trgger)	120VAC/DC	SS-61422	11 Pin Octal 70170-D <b>DIAGRAM 3</b>
	12VAC/DC	SS-61426	
	24VAC/DC	SS-61428	
	240VAC	SS-61421	
<b>OFF DELAY</b> (Power Trigger)	120VAC/DC	SS-61922	11 Pin Octal 70170-D <b>DIAGRAM 4</b>
	12VAC/DC	SS-61926	
	24VAC/DC	SS-61928	
	240VAC	SS-61921	
<b>SINGLE SHOT</b> (Momentary Interval)	120VAC/DC	SS-61522	11 Pin Octal 70170-D <b>DIAGRAM 2</b>
	12VAC/DC	SS-61526	
	24VAC/DC	SS-61528	
	240VAC	SS-61521	
<b>WATCHDOG</b> (Power Trigger Retriggerable Single Shot)	120VAC/DC	SS-61822	11 Pin Octal 70170-D <b>DIAGRAM 4</b>
	12VAC/DC	SS-61826	
	24VAC/DC	SS-61828	
	240VAC	SS-61821	
<b>REPEAT CYCLE*</b> (OFF Time First Followed By ON Time)	120VAC/DC	SS-63122	8 Pin Octal 70169-D <b>DIAGRAM 1</b>
	12VAC/DC	SS-63126	
	24VAC/DC	SS-63128	
	240VAC	SS-63121	
<b>REPEAT CYCLE*</b> (ON Time First Followed By OFF Time)	120VAC/DC	SS-65122	8 Pin Octal 70169-D <b>DIAGRAM 1</b>
	12VAC/DC	SS-65126	
	24VAC/DC	SS-65128	
	240VAC	SS-65121	
<b>DELAYED INTERVAL*</b> (OFF Time Followed by ON Time Followed by OFF State Until Reset)	120VAC/DC	SS-66122	8 Pin Octal 70169-D <b>DIAGRAM 1</b>
	12VAC/DC	SS-66126	
	24VAC/DC	SS-66128	
	240VAC	SS-66121	

\* These units have independently adjustable ON and OFF times.

**Factory Modifications:** ◆ External Adjust ◆ Special Triggering ◆ Non-Standard Voltages

## APPLICATION DATA

### **Voltage Tolerance:**

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

### **Load (Burden):**

Less than 2.5 watts.

### **Repeat Accuracy:**

±0.1% for constant voltage and temperature.

### **Setting Accuracy:**

Maximum Setting: +0%, -50%  
Minimum Setting: +5%, -0%.

### **Triggering Off Delay or Single Shot Timers:**

Timing sequence must be initiated only after input voltage is applied to unit.

### **Compatibility:**

Do not use a solid state switch to initiate the timing sequence.

### **Recycle Time:**

0.1 Seconds

### **Temperature:**

-28° to 65°C (-20° to 150°F)

### **Transient Protection:**

10,000 volts for 20 microseconds

### **Output Contacts:**

10A Resistive @ 240VAC/30VDC,  
1/3HP @ 240VAC

### **Life:**

Mechanical: 7,000,000 operations  
Full Load: 500,000 operations

### **Approvals:**

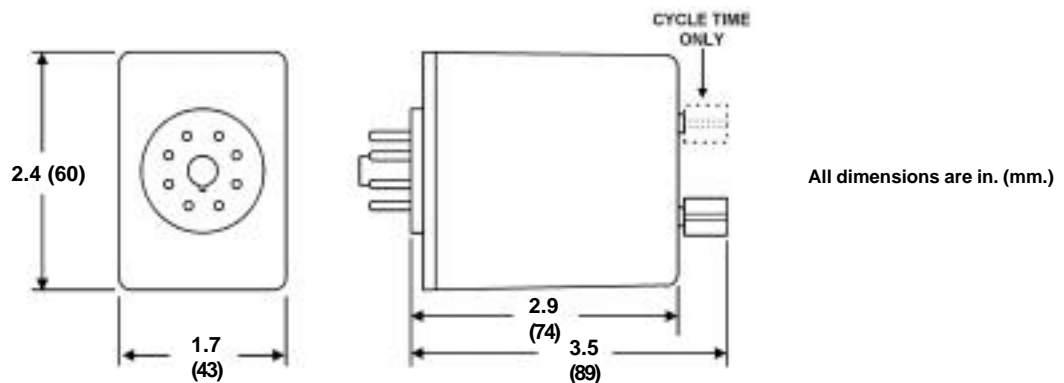


File E109466



File LR45565

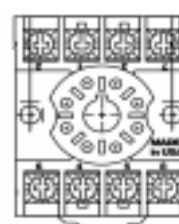
## DIMENSIONS



## MOUNTING & ACCESSORIES

Macromatic plug-in time delay relays require an octal socket for mounting (see below). Both the 8 pin & 11 pin octal sockets can be mounted to a panel with 2 screws or snapped on a 35mm DIN track. **Electrical Rating:** 10A @ 300VAC. Pressure wire clamps accept 1 or 2 #12-22 wires.

Description	Product Number
8 Pin Octal Socket	70169-D
11 Pin Octal Socket	70170-D
35MM DIN Track (3 ft. length)	70100



70169-D



70170-D



MACROMATIC CONTROLS LLC

6625 W. MILL ROAD, MILWAUKEE, WI 53218 ♦ 414-358-2600 ♦ 800-238-7474 ♦ FAX 414-358-2626



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