# **Pr**Sense Relay Timers

## Multi-Mode Relay Timers TRM-10 Series

### **Overview**

The TRM-10 series offers an easy and accurate way to select a function and any time delay between 50ms and 999 hours. Programming is accomplished by using a pushbutton thumbwheel to select one of seven built-in time ranges and three pushbutton thumbwheels to digitally set the time delay required. These units have a fifth pushbutton thumbwheel to select one of ten built-in functions. An LED indicates timing mode and time out condition.

#### **Features**

- Ten user-selectable modes in one unit
- Pushbutton thumbwheels for digital set of time delay and function
- 50ms to 999 hour programmable time range
- 120 VAC/VDC and 24 VAC/VDC models available
- 11-pin octal socket
- 10A DPDT output contact
- LED indicates timing mode and time out conditions.



TRM-10-D-120AD

Multi-Mode Relay Timers TRM-10 Series								
Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Links		
TRM-10-D-120AD	\$72.00	Multi-mode 10 mode selectable	0.05 seconds to 999 hours selectable	120 VAC/VDC	(1) DPDT timed relay	<u>PDF</u>		
TRM-10-D-24AD	\$72.00	Multi-mode 10 mode selectable	0.05 seconds to 999 hours selectable	24 VAC/VDC	(1) DPDT timed relay	<u>PDF</u>		

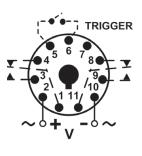
Multi-Mode Relay Timer Specifications							
Part Number	TRM-10-D-120AD	TRM-10-D-24AD					
Input Specifications							
Nominal Voltage	120 VAC/VDC	24 VAC/VDC					
Nominal Consumption	3\	/A					
Nominal Frequency	50/60 Hz						
Contact Specifications							
Туре	(1) D	PDT					
Switching Capacity	10A @ 240VAC, 30VDC 1/2 HP @ 120/240 VAC (N.O.) 1/3 HP @ 120/240 VAC (N.C.) B300 & R300 (N.O.) AC15 and DC13						
Electrical Lifetime	me Full Load: 100,000 operations						
Mechanical Lifetime	10,000,000 operations						
Reset Time	Reset Time						
Functions Triggered with All Other Functions	0.1 seconds						
Functions Triggered with Control Switch	0.04 seconds						
Time Circuit Specifications							
Setting Accuracy	Constant Voltage & Temperature w/i specifications: +0.1% of set time or +50ms, whichever is greater For Variable Voltage & Temperature w/i specifications: +1% of set time or +50ms, whichever is greater						
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						
Repeat Accuracy	For Constant Voltage & Temperature w/i specifications: +0.1% of set time or +0.02 seconds, whichever is greater For Variable Voltage & Temperature w/i specifications: +1% of set time or +0.02 seconds, whichever is greater						

Multi-Mode Relay Timer Specifications						
General Specifications						
Connection (screw terminal)	Recommend <u>70170-D</u> socket 1 or 2 -#12-20 AWG Wire					
Tightening Torque	12 in-lb					
Wire/Ferrule Size	1 or 2 #12-20 AWG (Ferrule size: Stud size 6 with max overall width 0.30")					
Ambient Temperature	-28 to +65°C [-18 to +150°F]					
Storage Temperature	-40 to +85°C [-40 to +185°F]					
Protection Rating	IP20					
Vibration Resistance	10-55 Hz with 3G maximum and 0.5mm total displacement (+/25mm).					
Mounting	Socket mount (11-pin required)					
Mounting Orientation	Any					
LED Indicator	See Installation Instructions					
Weight	0.22 lbs					
Agency Approvals and Standards *	cULus, / UL Recognized File E191059, CE UL Listed with appropriate socket File E191059 CSA 602618					

\*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

Function Table						
Select Function						
Α	On Delay					
В	Interval					
С	Off Delay					
D	One Shot					
E	Flasher - Off 1st					
F	Flasher - On 1st					
G	On/Off Delay					
Н	1 Shot Falling Edge					
J	Watchdog					
K	Trig. On Delay					

## Wiring Diagram



## **Dr**Sense Octal Sockets

### **Features**

- Mounts on 35mm DIN rail
- Screw clamp wire termination







70170-D



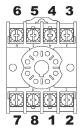
750-2C-SKT

Octal Sockets for Relays								
Part Number	Price	Description	Qty	Wt (lb)	Drawing Links			
<u>70169-D</u>	\$5.50	Macromatic relay socket, 8-pin, 35mm DIN rail or panel mount. For use with ProSense octal relays.	1	0.1	<u>PDF</u>			
<u>70170-D</u>	\$6.50	Macromatic relay socket, 11-pin, 35mm DIN rail or panel mount. For use with ProSense octal relays.	1	0.1	PDF			
750-2C-SKT	\$4.75	AutomationDirect relay socket, 8-pin, 35mm DIN rail or panel mount. For use with 750-2C and H750-2C series octal relays.	1	0.1	PDF			

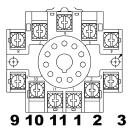
Octal Sockets Specifications									
Part Number	Number of Pins	Voltage	Current	Screw Size	Wire Size (capacity)	Screw Torque	Screw Chassis Mounting Torque	Agency Approval *	
70169-D	8	600V	10A	6-32	1 or 2, 12-20 AWG	12 in-lb	7 in-lb	UL Recognized E169693,	
70170-D	11	300V	10A	6-32	1 or 2, 12-20 AWG	12 in-lb	12 in-lb	ČSA, CE	
750-2C-SKT	8	600V	5A	M3.5	1-12 AWG / 1-14 AWG	9 in-lb	7 in-lb	UL Recognized E225080, CSA, CE	

<sup>\*</sup> To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

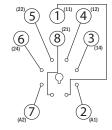
### **Socket Pinouts**



70169-D



70170-D



750-2C-SKT