# **Pr**Sense<sup>®</sup> Relay Timers

## **Off-Delay Relay Timers TRS-TD Series**

### **Overview**

The TRS-TD series is designed to replace the functionality of pneumatic time delay relays which are very large, expensive and not very accurate. Unlike standard electronic off delay time relays, the TRS-TD does not require a trigger switch or continuous application of input voltage. With an on board power source, these units keep the logic circuit and relay energized during the off delay period.

### **Features**

- 8 timing ranges built-in covering 0.05 seconds to 30 minutes
- Selecting a range is easy using a rotary switch
- 120 VAC/VDC and 24 VAC/VDC models available
- 8-pin octal socket
- 10A DPDT output contact



#### TRS-TD-D-120AD

Off-Delay Relay Timers TRS-TD Series								
Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Links		
TRS-TD-D-120AD	\$69.00	Off-delay	0.05 seconds to 30 minutes selectable	120 VAC/VDC	(1) DPDT timed relay	PDF		
TRS-TD-D-24AD	\$69.00	Off-delay	0.05 seconds to 30 minutes selectable	24 VAC/VDC	(1) DPDT timed relay	PDF		

Off-Delay Relay Timer Specifications								
Part Number	TRS-TD-D-120AD	TRS-TD-D-24AD						
Input Specifications								
Nominal Voltage	120 VAC/VDC	24 VAC/VDC						
Nominal Consumption	Max 2VA							
Nominal Frequency	50/60	) Hz						
Contact Specifications								
Туре	(1) DPDT							
Switching Capacity	10A @ 240VAC, 30VDC 8A @ 28VDC 1/2 HP @ 240 VAC 1/4 HP @ 120 VAC B300 & R300							
Electrical Lifetime	Full Load: 100,000 operations							
Reset Time	0.1 se	0.1 seconds						
Mechanical Lifetime	2,000,000	) operations						
Time Circuit Specification	ons							
Setting Accuracy	Maximum Setting (Adjustable): +5%, -0% Minimum Setting (Adjustable): +0%, -50%							
Start-up Time	Time from when power is applied	until unit is timing : 0.05 seconds						
Maintain Function Time	Time unit continues to opera 0.01 se	ate after power is removed: econds						
Repeat Accuracy	± 50	lms						

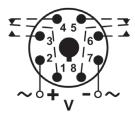
Timing	Ranges		
Dial Setting	Timing Range		
Α	0.05 - 5 Sec		
В	0.1 - 10 Sec		
С	0.3 - 30 Sec		
D	0.6 - 60 Sec		
E	1.8 - 180 Sec		
F	3 - 300 Sec		
G	0.1 - 10 Min		
Н	0.3 - 30 Min		

# Off-Delay Relay Timer Specifications

General Specifications					
Connection (screw terminal)	Recommend <u>70169-D</u> socket 1 or 2 -#12-20 AWG Wire				
Tightening Torque	12 in-Ib				
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 (8-pin required)				
Mounting Orientation	Any				
Weight	0.22 lbs				
Agency Approvals and Standards *	cURus File E191059, cULus with appropriate socket CE EN60947-1, EN60947-5-1				

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

## Wiring Diagram



# **Dr**Sense<sup>®</sup> Octal Sockets

### **Features**

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



70169-D



<u>70170-D</u>



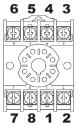
750-2C-SKT

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	<u>PDF</u>			
<u>750-2C-SKT</u>	\$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 *	
<u>70169-D</u>	8	600V	10A	6-32	1 or 2, 12-20 AWG	12 in-lb	7 in-lb	UL Recognized E169693,	
<u>70170-D</u>	11	300V	10A	6-32	1 or 2, 12-20 AWG	12 in-lb	12 in-lb	ČSA, CE	
<u>750-2C-SKT</u>	8	600V	5A	M3.5	1-12 AWG / 1-14 AWG	9 in-lb	7 in-lb	UL Recognized E225080, CSA, CE	

\* 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**



<u>70169-D</u>

