

Description

Magnecraft Time Delay and Sensor Relays

TDR88867 Series
SPDT, DPDT, 8 A



Description

The TDR88867 socket-compatible time delay relays offer the following features:

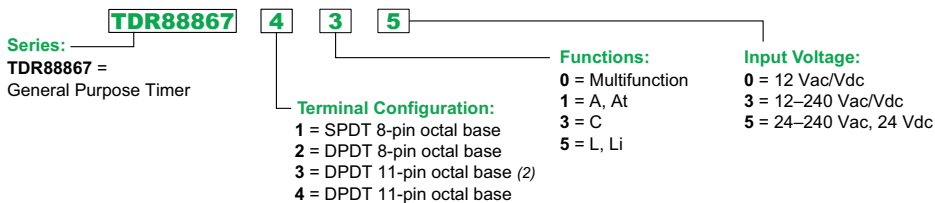
- 35 mm width
- single, dual, or multifunction capability
- easy installation by plugging into standard 8- or 11-pin octal sockets
- 1 or 2 relay outputs capable of switching up to 8 A, for ultimate flexibility
- a single LED with multiple states to clearly indicate the time state at a glance

This excellent feature set makes the TDR88867 an ideal choice in a variety of industrial control applications.

Feature	Benefit
Integrated rotary switch	Simplifies the programming of the functions and timing
LED indication	Displays the state of the timer
Removable knob	Resists tampering
Socket compatible	Allows for easy installation and replacement

Input Voltage	Functions Available (1)	Timing Range	Contact Configuration	Rated Current	Standard Part Number
11-pin Octal Base					
24–240 Vac 24 Vdc	C	0.1 s to 100 hr	DPDT	8 A	TDR88867435
	A, At	0.1 s to 100 hr	DPDT	8 A	TDR88867415
	L, Li	0.1 s to 100 hr	DPDT	8 A	TDR88867455
	A, At, B, C, H, Ht, Di, D, Ac, Bw	0.1 s to 100 hr	DPDT (2)	8 A	TDR88867305
12 Vac/Vdc	A, At, B, C, H, Ht, Di, D, Ac, Bw	0.1 s to 100 hr	DPDT (2)	8 A	TDR88867300
12–240 Vac/Vdc	A, At, B, C, H, Ht, Di, D, Ac, Bw	0.1 s to 100 hr	DPDT (2)	8 A	TDR88867303
8-pin Octal Base					
24–240 Vac 24 Vdc	A	0.1 s to 100 hr	DPDT	8 A	TDR88867215
	C	0.1 s to 100 hr	SPDT	8 A	TDR88867135
	L, Li	0.1 s to 100 hr	SPDT	8 A	TDR88867155
	A, At, B, C, H, Ht, Di, D, Ac, Bw	0.1 s to 100 hr	SPDT	8 A	TDR88867105
12 Vac/Vdc	A, At, B, C, H, Ht, Di, D, Ac, Bw	0.1 s to 100 hr	SPDT	8 A	TDR88867100
12–240 Vac/Vdc	A, At, B, C, H, Ht, Di, D, Ac, Bw	0.1 s to 100 hr	SPDT	8 A	TDR88867103

Part Number Explanation






(1) For function descriptions, see pages 34–35.

(2) One of the outputs can be configured to be either timed or instantaneous.

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Specifications

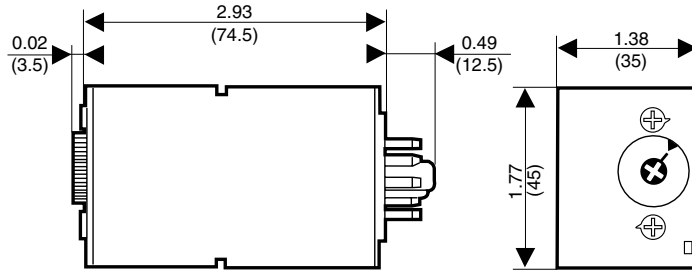
Part Number	TDR88867**0	TDR88867**3	TDR88867**5
Input Characteristics			
Input Voltage Range	12 Vac/Vdc	12–240 Vac/Vdc	24–240 Vac 24 Vdc
Operating Voltage	85–110% of nominal (85–120% of nominal for 12 Vac/Vdc)		
Maximum Power Consumption	AC	4.2 VA @ 240 Vac	
	DC	1.5 W @ 240 Vdc	
Output Characteristics			
Contact Configuration	SPDT, DPDT		
Output Current Rating	8 A		
Contact Material	Silver alloy		
Maximum Switching Voltage	250 Vac/Vdc		
Switching Capabilities	8 A, 250 Vac 1/3 hp @ 240 Vac		
Minimum Switching Requirement	10 mA at 5 Vdc		
Timing Characteristics			
Functions Available (1)	Multifunction		
Time Scales	7		
Time Ranges	0.1–1 s 1–10 s 0.1–1 min 1–10 min 0.1–1 hr 1–10 hr 10–100 hr		
Minimum Duration of the Control Impulse under Load	100 ms		
Maximum Reset Time by De-energization	100 ms		
Repeatability at Constant Voltage and Temperature	± 0.5%		
Temperature Drift	±0.05% / °C		
Voltage Drift	±0.2% / V		
General Characteristics			
Electrical Life (Operations at Rated Current) (2)	100,000 operations		
Mechanical Life (Unpowered) (2)	5,000,000 operations		
Dielectric Strength	Input to Contacts	2.5 kV (1 mA / 1 minute) at 50 Hz	
	Between Open Contacts	2.5 kV (1 mA / 1 minute) at 50 Hz	
Temperature Range	Storage	–22 to 140 °F (–30 to 60 °C)	
	Operation	–4 to 140 °F (–20 to 60 °C)	
Weight	2.8 oz. (0.08 kg)		
Green LED Indication	Operating status indication  Pulsing: relay de-energized, no timing in progress (except Di-D and Li-L)  Flashing: timing in progress  Steady On: relay energized, no timing in progress		
Degree of Protection (Enclosure)	IP40		
Approvals	cURus (File: E191122 CNN: NRNT2, NRNT8), CSA (File: 254373 Class: 3211 07)		

(1) For function descriptions, see pages 34–35.

(2) Actual product life varies based on electrical load, duty cycle, application, and environmental conditions.

Dimensions—in. (mm)

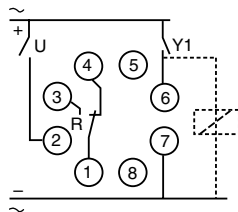
TDR88867 plug-in timers (relay output)



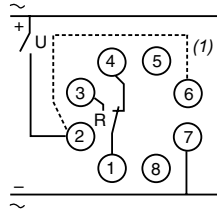
Wiring Diagrams

Wiring connection diagrams for TDR88867 plug-in timers (8-pin, relay output)

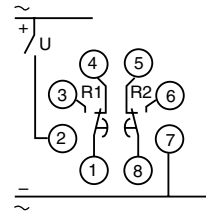
Timing relays with 1 relay output
All functions except L and Li



Functions L and Li



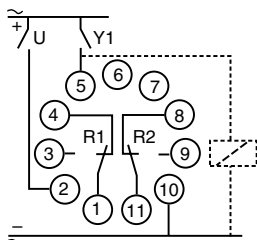
Timing relays with 2 relay outputs
Function A



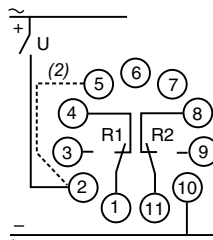
(1) Jumper between
pins 2 and 6 for
function L only

Wiring connection diagrams for TDR88867 plug-in timers (11-pin, relay output)

All functions except L and Li



Functions L and Li



(2) Jumper between
pins 2 and 5
for function L only

Description

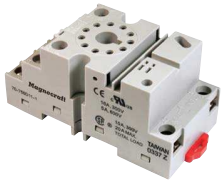
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TDRPRO/TDR88867 Series Accessories



Description

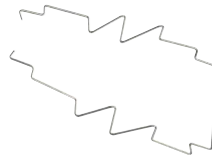
The TDR accessories create a complete system solution for your application needs. The 70-750DL socket offers an alternative installation option for plug-in models. The 16-TDRPROSC retention clip holds the relay securely in place while allowing quick and efficient installation and maintenance.



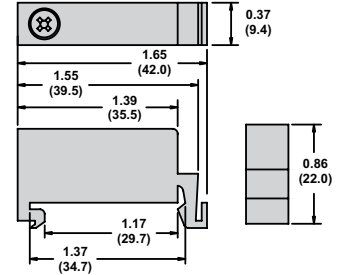
70-750DL8-1 Socket



70-750E8-1 Socket



16-TDRPROSC Retention Clip



16-DCLIP-1 DIN Rail End Clip

Relay Accessories

Description	Function	For Use With Relays	Packaging Quantities	Standard Part Number
Socket	Mounting directly to DIN Rail or Panel	TDRPRO-5101, TDRPRO-5102	10	70-750DL8-1
	Panel Mounting with Screw Terminals and Clamping Plates	TDR888673**, TDR888674**	10	70-169-1
	DIN or Panel Mounting with Elevator Terminals	TDRPRO-5101, TDR888671**, TDR888672**	10	70-750E8-1
	DIN or Panel Mounting with Screw Terminals and Clamping Plates	TDR888671**, TDR888672**	10	70-464-1
	Mounting directly to DIN Rail or Panel		10	70-750DL11-1
	DIN or Panel Mounting with Elevator Terminals	TDRPRO-5100, TDR888673**, TDR888674**	10	70-750E11-1
	DIN or Panel Mounting with Screw Terminals and Clamping Plates	TDR888673**, TDR888674**	10	70-465-1
	Panel Mounting with Screw Terminals and Clamping Plates		10	70-170-1
Metal Retention Clip	Helping secure the relay in the socket	TDRPRO	10	16-TDRPROSC
		TDR88867	25	16-1344

Socket Accessories

Description	Function	For Use With Sockets	Packaging Quantities	Standard Part Number
Metal DIN Rail, 1 m (39.3 in.)	Quick installation and removal of sockets	(See table above.)	10	16-700DIN
DIN Rail End Clip	Holding sockets firmly in place on DIN rail	—	10	16-DCLIP-1
ID Tags	Identification of circuits in multi-relay applications	70-750E8-1, 70-750EL8-1, 70-750DL8-1, 70-750E11-1, 70-750EL11, 70-750DL11-1	10	16-750/782FT-1
Insulated Coil Bus Jumper System	Wireless socket connection		10	16-750/788CJB-1