

# Schneider Electric/Legacy Electric **Time Delay and Sensor Relays**

**TDRPRO Series** SPDT, 12 A; DPDT, 12 A











#### Description

Time delay relays that are programmable, multi-function, multi-voltage, and socketcompatible - offering the user the ultimate in design flexibility. The thumb wheel adjustment dials result in no mechanical deviation for supreme accuracy.

Feature	Benefit	
Up to 10 functions	5 Timing functions controlled via supply voltage 4 Timing functions controlled via trigger input 1 function of memory latching	
Broad timing range	0.1 Seconds to 9990 hours	
Panel mount adapter	Panel mountable	
Dust cover	Retains settings / keeps dust out	
Universal power supply	12 – 240 Vac/Vdc	
Thumb wheel adjustment for function / timing	Helps ensure accuracy and reduces timing deviations	
2 LED status inicators	Indicate coil power / timing out / output state	
RoHS compliant	Environmentally friendly	

Input Voltage	Functions Available (1)	Timing Range	Contact Configuration	Rated Current (A)	Standard Part Number
12 to 240 Vac/Vdc	A,B,C,D,E,F,G,H,I,J	100 ms to 9990 hrs	DPDT	12	TDRPRO-5100
12 to 240 Vac/Vdc	A,B,C,D,E,F,G,H,I,J	100 ms to 9990 hrs	SPDT	12	TDRPRO-5101
12 to 240 Vac/Vdc	A,B,C	100 ms to 9990 hrs	DPDT	12	TDRPRO-5102

<sup>(1)</sup> For function descriptions, see pages 33 and 34.

#### Part Number Explanation

**TDRPRO** Series:

TDRPRO = 48 x 48 mm Time Delay Relay

5100

**Contact Configuration/# of Functions:** 

**5100 =** DPDT, 10 Functions **5101 =** SPDT, 10 Functions 5102 = DPDT, 3 Functions

## **Specifications**

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#### **Specifications**

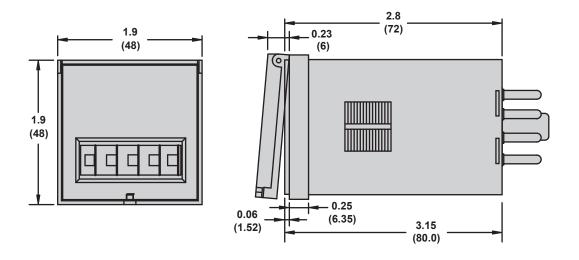
Part Number	TDRPRO-5100	TDRPRO-5101	TDRPRO-5102
Input Characteristics			
Input Voltage Range	12 to 240 Vac/Vdc	12 to 240 Vac/Vdc	12 to 240 Vac/Vdc
Operating Voltage	85% to 115% of Nominal	85% to 115% of Nominal	85% to 115% of Nominal
Maximum Power Consumption (AC)	2.5 VA	2.5 VA	2.5 VA
Maximum Power Consumption (DC)	2W	2W	2W
Output Characteristics			
Contact Configuration	DPDT	SPDT	DPDT
Output Current Rating	12 A	12 A	12 A
Contact Material	Silver Alloy	Silver Alloy	Silver Alloy
Switching Capabilties	12 A, 240 Vac, 50/60 Hz, 30 Vdc 1/3 HP @ 120 Vac 1/2 HP @ 240 Vac Pilot Duty B300	12 A, 240 Vac, 50/60 Hz, 30 Vdc 1/3 HP @ 120 Vac 1/2 HP @ 240 Vac Pilot Duty B300	12 A, 240 Vac, 50/60 Hz, 30 Vdd 1/3 HP @ 120 Vac 1/2 HP @ 240 Vac Pilot Duty B300
Minimum Switching Requirement	100 mA	100 mA	100 mA
Timing Characteristics			
Functions Available (1)	A,B,C,D,E,F,G,H,I,J	A,B,C,D,E,F,G,H,I,J	A,B,C
Time Scales	7	7	7
Time Ranges	0 to 999 by 0.1 sec 0 to 999 by sec 0 to 999 by 0.1 min 0 to 999 by min 0 to 999 by 0.1 hr 0 to 999 by hr 0 to 999 by 10 hr	0 to 999 by 0.1 sec 0 to 999 by sec 0 to 999 by 0.1 min 0 to 999 by min 0 to 999 by 0.1 hr 0 to 999 by hr 0 to 999 by 10 hr	0 to 999 by 0.1 sec 0 to 999 by sec 0 to 999 by 0.1 min 0 to 999 by min 0 to 999 by 0.1 hr 0 to 999 by hr 0 to 999 by 10 hr
Repeatability of the time delay @ constant voltage and temperature	0.1%	0.1%	0.1%
Reset Time	150 ms	150 ms	150 ms
Operate Time (3)	25 ms maximum	25 ms maximum	25 ms maximum
Release Time (3)	25 ms maximum	25 ms maximum	25 ms maximum
General Characteristics			
Electrical Life (operations at rated current) (2)	100,000 operations	100,000 operations	100,000 operations
Mechanical Life (Unpowered) (2)	10,000,000 operations	10,000,000 operations	10,000,000 operations
Dielectric Strength (Input to Contacts)	2500 Vrms	2500 Vrms	2500 Vrms
Storage Temperature Range	-30°C (-22°F) to +70°C (+158°F)	-30°C (-22°F) to +70°C (+158°F)	-30°C (-22°F) to +70°C (+158°F
Operating Temperature Range	-20°C (-4°F) to +60°C (+140°F)	-20°C (-4°F) to +60°C (+140°F)	-20°C (-4°F) to +60°C (+140°F)
Weight	133 g (4.69 oz)	133 g (4.69 oz)	133 g (4.69 oz)
Input Indication	Green LED	Green LED	Green LED
Output Indication (Blinks = Timing or On = Energized)	RED LED	RED LED	RED LED
Enclosure Rating (according to IEC 60529 IP rating)	IP40	IP40	IP40
Approvals	cURus (File No. E43641), CE 61810-1, RoHS, cULus (UL Listed [File No. E43641] when used with Schneider Electric/ Legacy Electric socket 70-465)	cURus (File No. E43641), CE 61810-1, RoHS, cULus (UL Listed [File No. E43641] when used with Schneider Electric/ Legacy Electric socket 70-464)	cURus (File No. E43641), CE 61810-1, RoHS, cULus (UL Listed [File No. E43641] when used with Schneider Electric/ Legacy Electric socket 70-464)

<sup>(1)</sup> For function descriptions, see pages 33 and 34.(2) Actual product life will vary based on electrical load, duty cycle, application, and environmental conditions.(3) After the time delay period expires or upon trigger signal application (depends on selected function).

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#### Dimensions — inches (millimeters)



### **Wiring Diagrams**

