Schneider Electric Legacy Time Delay and Sensor Relays

Catalog 2017





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Legacy Time Delay and Sensor Relays

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Legacy Schneider Electric[™] time delay and sensor relays provide cost effective solutions for your industrial timing and sensing needs. Available in a wide array of forms, fits, and functions, these timers offer the ultimate in flexibility and performance. Accurate adjustments, legible wiring diagrams, and an interactive timer demo make selection quick and easy.

Key Features

- Multiple timing functions
- Wide input voltage range
- Wide timing range
- DIN, panel, or plug-in mounting styles
- Conforms to international standards including UL, CSA, RoHS, and CE IEC

	Series	Style	Contact Configuration	Rated Current Load (A)	Timing Range	Number of Functions	Function Type	Input Voltage Range	Page		
	DIN Mount	ing									
	820 Relays	Time delay relay	SPST DPDT	15	100 ms to 10 days	10	All	12–240 Vac/Vdc	4		
	831 Voltage Sensing Relays	Voltage sensing relay	SPDT	15	100 ms to 10 s	1	On-Delay	120, 240 Vac; 24 Vdc	7		
	841 Current Sensing Relays	Current sensing relay	SPDT	15	100 ms to 10 s	1	On-Delay	24–240 Vac	10		
	Plug-in Mounting										
	TDR782	lays relay with dial	DPDT	5	100 ms to	100 ms to	is to	On-Delay	12, 24 Vdc;	14	
	Relays		4PDT	3	100 hr	'	Oli-Delay	24, 110, 230 Vac	14		
	TDRPRO	Time delay relay with	SPDT	12	100 ms to 9990 hr	10	All	12–240	22		
	Relays	5-digit thumb-wheel	DPDT	12	100 ms to 9990 hr	3	On-Delay / Repeat Cycle / On Interval	Vac/Vdc	22		



820 Series SPDT, 15 A; DPDT, 15 A



Description

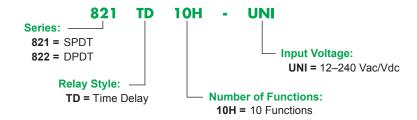
The 820 Series time delay relays are 35-mm DIN-rail mountable products offering ten different timing functions, ultra-wide timing range (10 ms to 10 days), and a universal voltage input (12–240 Vac/Vdc), all in a slim 17.5 mm (0.69 in.) modular package.

Feature	Benefit
Up to 10 functions	 5 timing functions controlled via supply voltage 4 timing functions controlled via trigger input 1 memory latching function Meets most timing requirements
Contact configuration	SPDT or DPDT
Universal power supply	12-240 Vac/Vdc
2 LED status indicators	Shows status at a glance
Only 17.5 mm (0.69 in.) wide	Ideal for tight spaces
DIN-rail mountable	Easy installation (screwdriver required)
RoHS compliant	Environmentally friendly

Input Voltage	Functions Available (1)	Timing Range	Contact Configuration	Rated Current	Standard Part Number
12–240 Vac/Vdc	A,B,C,D,E,F,G,H,I,J	10 ms to 10 days	SPDT	15 A	821TD10H-UNI
	A,b,C,D,E,F,G,H,I,J	TO HIS to TO days	DPDT	15 A (2 pairs of contacts)	822TD10H-UNI

⁽¹⁾ For function descriptions, see page 31.

Part Number Explanation



Specifications

Legacy Time Delay and Sensor Relays

820 Series SPDT, 15 A; DPDT, 15 A

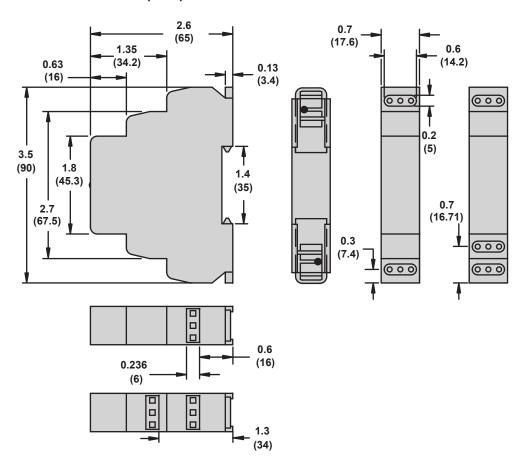
Specifications

Part Number	821TD10H-UNI	822TD10H-UNI
Input Characteristics	<u>'</u>	<u>'</u>
Input Voltage Range	12–240 Vac/Vdc	12–240 Vac/Vdc
Operating Voltage (% of Nominal)	85% of 12 V to 110% of 240 V	85% of 12 V to 110% of 240 V
Maximum Power Consumption	3 VA 1.7 W	3 VA 1.7 W
Output Characteristics		
Contact Configuration	SPDT	DPDT
Output Current Rating	15 A	15 A
Contact Material	Silver alloy	Silver alloy
Switching Capability	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300
Minimum Switching Requirement	100 mA	100 mA
Timing Characteristics		
Functions Available (1)	Multifunction	Multifunction
Time Scales	8	8
Time Ranges	100 ms to 1 s 1 s to 10 s 0.1 min to 1 min 1 min to 10 min 0.1 hr to 1 hr 1 hr to 10 hr 0.1 day to 1 day 1 day to 10 days	100 ms to 1 s 1 s to 10 s 0.1 min to 1 min 1 min to 10 min 0.1 hr to 1 hr 1 hr to 10 hr 0.1 day to 1 day 1 day to 10 days
Tolerance	5% of mechanical setting	5% of mechanical setting
Repeatability at Constant Voltage and Temperature	0.2%	0.2%
Reset Time	150 ms maximum	150 ms maximum
Trigger Pulse Length	50 ms minimum	50 ms minimum
General Characteristics		
Electrical Life (Operations at Rated Current) (2)	70,000 operations	70,000 operations
Mechanical Life (Unpowered) (2)	10,000,000 operations	10,000,000 operations
Dielectric Strength (Input to Contacts)	2500 Vac	2500 Vac
Dielectric Strength (Between Open Contacts)	1600 Vac	1600 Vac
Storage Temperature Range	-30 to +70 °C (−22 to +158 °F)	-30 to +70 °C (-22 to +158 °F)
Operating Temperature Range	−20 to +55 °C (−4 to +131 °F)	−20 to +55 °C (−4 to +131 °F)
Terminal Wire Capacity (Input and Output)	14 AWG (2.1 mm²) maximum	14 AWG (2.1 mm²) maximum
Terminal Screw Torque	7.1 lb-in (0.8 N•m) maximum	7.1 lb-in (0.8 N•m) maximum
Weight	55 g (1.9 oz)	70 g (2.5 oz)
Input Indication	Green LED	Green LED
Output Indication (Blinking = Timing; On = Energized)	Red LED	Red LED
Enclosure Rating (according to IEC 60529 IP rating)	IP20	IP20
Approvals	cULus (File: E234203, CCN: NKCR, NKCR7), CE 61810-1, RoHS	cULus (File: E234203, CCN: NKCR, NKCR7), CE 61810-1, RoHS

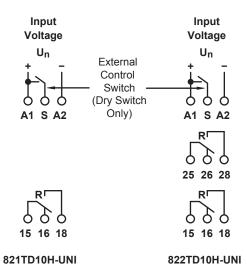
⁽¹⁾ For function descriptions, see page 31.(2) Actual product life varies based on electrical load, duty cycle, application, and environmental conditions.

820 Series SPDT, 15 A; DPDT, 15 A

Dimensions—in. (mm)



Wiring Diagram



- 15—Common
- 16—Normally Closed
- 18—Normally Open
- 25—Common
- 26—Normally Closed
- 28—Normally Open

Description

Legacy Time Delay and Sensor Relays

831 Series SPDT, 15 A









Description

The 831 voltage sensor is a single-phase AC voltage sensing device capable of monitoring and reacting to overvoltage and undervoltage conditions. This product is designed to be wired across terminals A1 and A2 with the voltage being monitored.

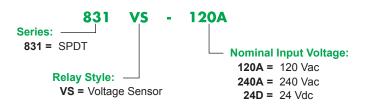
The two LED lamps indicate when the input voltage is present (green LED) and when the output is energized (red LED).

The Umax dial is used to set the upper trip-point for the voltage sensor. The Umin dial is a percentage of the Umax dial and is used to set the lower trip-point for the voltage sensor. The timing dial is used to delay the transfer of the contacts, from 0–10 s, when a set point has been violated.

Feature	Benefit
Three-state indication LEDs	Indicate normal state and two types of faulted states
Timing dial	Adjustable delay 0–10 s
DIN mounting capability	Mounts directly on a 35 mm DIN rail
Current rating: 15 A @ 240 Vac, 24 Vdc	High switching capacity
Narrow width: 17.5 mm (0.69 in.)	Ideal for tight spaces

Nominal Input Voltage	Sensing Voltage Range	Timing Range	Contact Configuration	Rated Current	Standard Part Number
120 Vac	Upper: 85–150 Vac Lower: 30–99% of upper				831VS-120A
240 Vac	Upper: 160–276 Vac Lower: 30–99% of upper	0–10 s	SPDT	15 A	831VS-240A
24 Vdc	Upper: 18–30 V Lower: 30–99% of upper				831VS-24D

Part Number Explanation



Specifications

Legacy Time Delay and Sensor Relays

831 Series SPDT, 15 A

Specifications

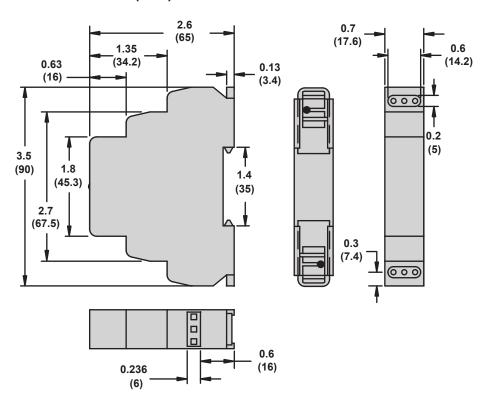
Part Number	831VS-120A	831VS-240A	831VS-24D
Input Characteristics			
Nominal Input Voltage	120 Vac	240 Vac	24 Vdc
Absolute Input Voltage Maximum	200 Vac	280 Vac	35 Vdc
Upper Supply Voltage Range	85–150 Vac	160–276 Vac	18–30 Vdc
Lower Supply Voltage Range	30–99% of upper preset	30–99% of upper preset	30–99% of upper preset
Maximum Power Consumption	1.2 VA	1.2 VA	1.2 W
Time Delay	adjustable, 0–10 s	adjustable, 0–10 s	adjustable, 0–10 s
Accuracy			
Mechanical Setting	5%	5%	5%
Repeat Accuracy	<1%	<1%	<1%
Temperature Variation	<1% / °C	<1% / °C	<1% / °C
Hysteresis (from fault to normal)	2–6% of adjusted value	2–6% of adjusted value	2–6% of adjusted value
Output Characteristics			
Contact Configuration	SPDT	SPDT	SPDT
Output Current Rating	15 A @ 120, 240 Vac, 24 Vdc	15 A @ 120, 240 Vac, 24 Vdc	15 A @ 120, 240 Vac, 24 Vdc
Breaking Capacity	4000 VA/AC1. 384 W/DC	4000 VA/AC1, 384 W/DC	4000 VA/AC1, 384 W/DC
Inrush Current	30 A / <3 s	30 A / <3 s	30 A / <3 s
		+	250 Vac / 24 Vdc
Maximum Switching Voltage	250 Vac / 24 Vdc	250 Vac / 24 Vdc	
Minimum Breaking Capacity DC	500 mW	500 mW	500 mW
Mechanical Life (1)	10,000,000 operations	10,000,000 operations	10,000,000 operations
Electrical Life (1)	70,000 operations	70,000 operations	70,000 operations
Contact Material	Silver alloy	Silver alloy	Silver alloy
Switching Capability	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300
Minimum Switching Requirement	100 mA at 5 Vac/Vdc	100 mA at 5 Vac/Vdc	100 mA at 5 Vac/Vdc
Timing/Sensing Characteristics			
Time Scales	1	1	1
Time Ranges	0–10 s	0–10 s	0–10 s
Tolerance	5% of mechanical setting	5% of mechanical setting	5% of mechanical setting
Repeatability at Constant Voltage and Temperature	1%	1%	1%
Upper Sensing Voltage Range	85–150 Vac	160–276 Vac	18–30 Vdc
Lower Sensing Voltage Range	30–99% of upper preset	30–99% of upper preset	30–99% of upper preset
	00 00 % of upper preser	00 30 % of upper preser	00 35% of apper preser
General Characteristics	0500.14	050014	0500) (
Dielectric Strength (Input to Contacts)	2500 Vac	2500 Vac	2500 Vac
Dielectric Strength (Between Open Contacts)	1600 Vac	1600 Vac	1600 Vac
Mounting Position	Any, 35 mm DIN rail EN 50022	Any, 35 mm DIN rail EN 50022	Any, 35 mm DIN rail EN 50022
Overvoltage Category	III	III	III
Pollution Degree	2	2	2
Storage Temperature Range	-30 to +70 °C (-22 to +158 °F)	-30 to +70 °C (-22 to +158 °F)	−30 to +55 °C (−22 to +131 °F)
Operating Temperature Range	-20 to +55 °C (-4 to +131 °F)	-20 to +55 °C (-4 to +131 °F)	−20 to +55 °C (−4 to +131 °F)
Terminal Wire Capacity (Input and Output)	14 AWG (2.5 mm²) maximum	14 AWG (2.5 mm²) maximum	14 AWG (2.5 mm²) maximum
Terminal Screw Torque	7.1 lb-in (0.8 N•m) maximum	7.1 lb-in (0.8 N•m) maximum	7.1 lb-in (0.8 N•m) maximum
Weight	62 g (2.19 oz)	62 g (2.19 oz)	88 g (3.10 oz)
Input Indication	Green LED		
Output Indication (Blinking = Timing; On = Energized)	Red LED		
Enclosure Rating (according to IEC 60529 IP rating)	IP40		
Approvals	UL (E234203, CCN: NKCR, NKCR CE (IEC 60947-1, 61000-4), RoHS	7),	

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

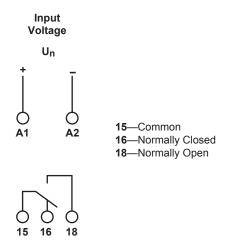


831 Series SPDT, 15 A

Dimensions—in. (mm)



Wiring Diagram



Description

Legacy Time Delay and Sensor Relays

841 Series SPDT, 15 A









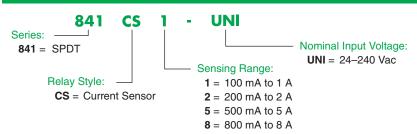
Description

This current sensing relay allows you to monitor the current of one circuit (1–8 A) and switch another circuit in case of an overcurrent condition. The relays are modular and finger protected (according to IEC 60529 IP rating).

Feature	Benefit
Current-sensing adjustment knob	Sense from 10–100% of the rated sensing current
Input/ouput terminals	Accepts wire up to 14 AWG
Solid-state circuitry	Used for precise sensing and timing control
Input/output indication	Shows status at a glance
DIN rail mounting capability	Mounts directly on a DIN Rail
Narrow width: 17.5 mm (0.69 in.)	Ideal for tight spaces
Wide input range	Works with common AC voltages

Input Voltage	Timing Range	Contact Configuration	Output (A)	Sensing Current Range (AC)	Standard Part Number
				100 mA to 1 A	841CS1-UNI
24 240 1/00	100 ms to 10 s	SPDT	45	200 mA to 2 A	841CS2-UNI
24–240 Vac	100 ms to 10 s	3901	500 mA to 5 A 800 mA to 8 A	500 mA to 5 A	841CS5-UNI
				841CS8-UNI	

Part Number Explanation



Specifications

Legacy Time Delay and Sensor Relays

841 Series SPDT, 15 A

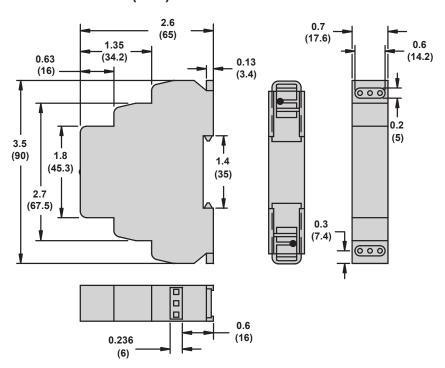
Specifications

Part Number	841CS1-UNI	841CS2-UNI	841CS5-UNI	841CS8-UNI	
Input Characteristics					
Input Voltage Range	24-240 Vac	24-240 Vac	24-240 Vac	24-240 Vac	
Maximum Power Consumption	1.2 VA	1.2 VA	1.2 VA	1.2 VA	
Output Characteristics					
Contact Configuration	SPDT	SPDT	SPDT	SPDT	
Output Current Rating	15 A	15 A	15 A	15 A	
Contact Material	Silver alloy	Silver alloy	Silver alloy	Silver alloy	
Switching Capability	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300	15 A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 hp @ 120 Vac 1 hp @ 240 Vac Pilot duty B300	
Minimum Switching Requirement	100 mA at 5 Vac/Vdc				
Timing/Sensing Characteristics					
Time Scales	1	1	1	1	
Time Ranges	0–10 s	0–10 s	0–10 s	0–10 s	
Tolerance	5% of mechanical setting				
Repeatability at Constant Voltage and Temperature	1%	1%	1%	1%	
Sensing Range	100 mA to 1 A	200 mA to 2 A	500 mA to 5 A	800 mA to 8 A	
General Characteristics	70 000ti				
Electrical Life (Operations at Rated Current) (1)	70,000 operations				
Mechanical Life (Unpowered) (1)	10,000,000 operations				
Dielectric Strength (Input to Contacts)	2500 Vac 1600 Vac		,		
Dielectric Strength (Between Open Contacts)		=0 °F\	,		
Storage Temperature Range Operating Temperature Range	-30 to +70 °C (-22 to +15				
Terminal Wire Capacity (Input and Output)	14 AWG (2.1 mm²) maxim				
Terminal Screw Torque	7.1 lb-in (0.8 N•m) maxim				
Weight	7.1 ID-In (0.8 N•m) maximum 60 g (2.12 oz)				
Input Indication	Green LED				
Output Indication (Blinking = Timing; On = Energized)	Red LED				
Enclosure Rating (according to IEC 60529 IP rating)	IP20				
Approvals					

⁽¹⁾ Actual product life varies based on electrical load, duty cycle, application, and environmental conditions.

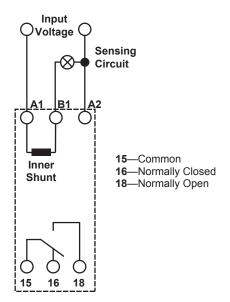
841 Series SPDT, 15 A

Dimensions—in. (mm)

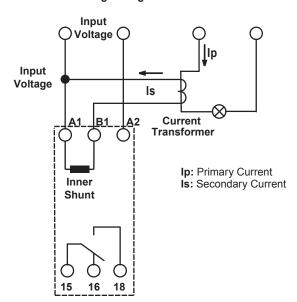


Wiring Diagram

Direct current sensing



Current sensing through a current transformer



800 Series Accessories

Description

16-700DIN DIN Rail, 16-DCLIP-1 DIN Rail



End Clip

The 16-700DIN DIN rail provides for quick removal and installation of most sockets, while the 16-788C1 panel adapter provides a panel mounting option.





Shown with an 821 Relay

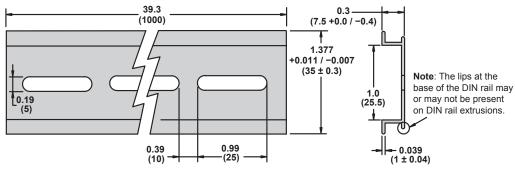
16-788C1 Panel Adapter

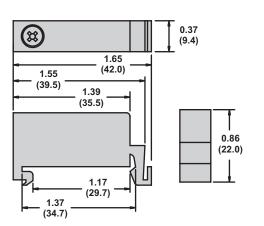
Shown with an 831 Relay

Description	Function	For Use With Relays	Packaging Quantities	Standard Part Number
Metal DIN Rail 39.3 in. (1 m).	Quick installation and removal	821, 822, 831, 841		16-700DIN
DIN Rail End Clip	N Rail End Clip Holds sockets firmly in place on the DIN rail		10	16-DCLIP-1
Panel Adapter	Provides additional panel mounting option	821, 822, 831, 841		16-788C1

Dimensions—in. (mm)

16-700DIN Metal DIN Rail





16-788C1 Panel Adapter 0.256 0.06 TYP (6.5)0.12 (3.04)1.39 Max. (35.3) 0.165 (4.19)0.165 TYP (4.19)0.585 1(14.95) 1.4 Max. (35.5)(43.18)

TDR782 Series DPDT, 5A; 4PDT, 3A





Description

Miniature time delay relay that is single-function, single-voltage, and socketcompatible. Ideal for tight spaces.

Feature	Benefit
Time setting	Selects between 7 different time scales
Socket compatible	Mounts directly to DIN rail or panel
Input/output indication	Shows status at a glance
Time adjustment dial	Fine-tunes the time setting
IEC and NEMA terminal numbering	Allows numbering compatibility

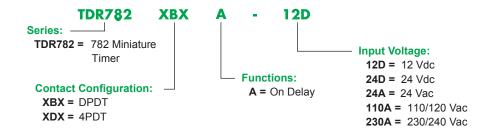


TDR782 Relay

Input Voltage	Functions Available (1)	Timing Range	Contact Configuration	Rated Current	Standard Part Number
AC					
24 Vac A (On-Dela	A (On Dolov)	100 ms to 100 hr	4PDT	3 A	TDR782XDXA-24A
	A (On-Delay)	100 ms to 100 m	DPDT	5 A	TDR782XBXA-24A
110 Vac A (On-Delay)	100 (100 /	4PDT	3 A	TDR782XDXA-110A	
110 vac	A (On-Delay)	100 ms to 100 hr	DPDT	5 A	TDR782XBXA-110A
230 Vac	A (On-Delay)	100 ms to 100 hr	4PDT	3 A	TDR782XDXA-230A
DC					
12 Vdc	A (On-Delay)	100 ms to 100 hr	4PDT	3 A	TDR782XDXA-12D
04.1/4-	A (On Palau)	400 t- 400 b	4PDT	3 A	TDR782XDXA-24D
24 Vdc	A (On-Delay)	100 ms to 100 hr	DPDT	5 A	TDR782XBXA-24D

⁽¹⁾ For function descriptions, see page 31.

Part Number Explanation



Specifications

Legacy Time Delay and Sensor Relays

TDR782 Series DPDT, 5A; 4PDT, 3A

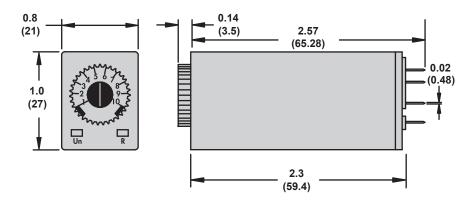
Specifications

Part Number	TDR782XBX	TDR782XDX		
Input Characteristics				
Input Voltage Range	24, 110/120, 230/240 Vac 12, 24 Vdc	24, 110/120, 230/240 Vac 12, 24 Vdc		
Operating Voltage V	ac 85–115% of nominal	85–115% of nominal		
V	dc 90–110% of nominal	90–110% of nominal		
Maximum Power Consumption	1.7 VA @ 24 Vac 2.6 VA @ 120 Vac 3 VA @ 230 Vac 1.5 W @ 12 Vdc 1.2 W @ 24 Vdc	1.7 VA @ 24 Vac 2.6 VA @ 120 Vac 3 VA @ 230 Vac 1.5 W @ 12 Vdc 1.2 W @ 24 Vdc		
Output Characteristics				
Contact Configuration	DPDT	4PDT		
Output Current Rating	5 A	3 A		
Contact Material	Silver alloy	Silver alloy		
Maximum Inrush Current	10 A @ < 100 ms	10 A @ < 100 ms		
Minimum Switching Requirement	100 mA at 5 Vac/Vdc	100 mA at 5 Vac/Vdc		
Timing Characteristics				
Functions Available (1)	A (On-Delay)	A (On-Delay)		
Time Scales	7 7	7		
Time Ranges	100 ms to 1 s 1 s to 10 s 0.1 min to 1 min 1 min to 10 min 0.1 hr to 1 hr 1 hr to 10 hr 10 hr to 100 hr	100 ms to 1 s 1 s to 10 s 0.1 min to 1 min 1 min to 10 min 0.1 hr to 1 hr 1 hr to 10 hr 10 hr to 100 hr		
Tolerance	5% of mechanical setting	5% of mechanical setting		
Repeatability at Constant Voltage and Temperat	ure 0.5%	0.5%		
Reset Time	50 ms maximum	50 ms maximum		
Temperature Drift	0.05% / °C	0.05 % / °C		
General Characteristics				
Electrical Life (Operations at Rated Current) (2)	100,000 operations			
Mechanical Life (Unpowered) (2)	10,000,000 operations			
Dielectric Strength (Input to Contacts)	2000 Vrms			
Storage Temperature Range		-40 to +70 °C (-40 to +158 °F)		
Operating Temperature Range	-20 to +60 °C (-4 to +140 °F			
Weight	43 g (1.52 oz)			
Input Indication	Green LED			
Output Indication (On = Energized)	Amber LED			
Enclosure Rating (According to IEC 60529 IP R	ating) IP50			
Approvals	cURus (File: E191122, CCN: CSA (File No. 254373), CE 61810-1, RoHS	NRNT2, NRNT8),		

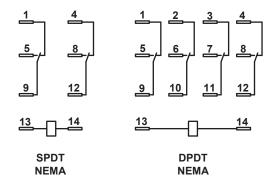
⁽¹⁾ For function descriptions, see page 31.(2) Actual product life varies based on electrical load, duty cycle, application, and environmental conditions.

TDR782 Series DPDT, 5 A; 4PDT, 3 A

Dimensions—in. (mm)



Wiring Diagram



TDR782 Series Accessories









The TDR782 accessories create a complete system solution for all your application

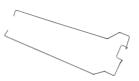
- The 70-782EL socket offers an alternate installation option for plug-in models.
- The 16-TDR782SC retention clip holds the relay securely in place while allowing quick and efficient installation and maintenance.



70-782EL8-1 Socket



70-782E14-1 Socket



16-TDR782SC Retention Clip

Relay Accessories

Description	Function	For Use With Relays	Packaging Quantities	Standard Part Number
		TDR782XBX	10	70-782EL8-1
	Mounts directly to the DIN rail or panel	TDR782XBX TDR782XDX	10	70-782EL14-1
Socket	DIN or panel mounting with rising elevator box terminals	TDR782XBX TDR782XDX	10	70-782E14-1
	DIN or panel mounting with screw terminals and clamping plates	TDR782XBX TDR782XDX	10	70-782D14-1
		TDR782XBX TDR782XDX	10	70-461-1
	Solder terminals for chassis mounting	TDR782XBX TDR782XDX	10	70-378-1
	Printed circuit terminals	TDR782XBX TDR782XDX	10	70-379-1
Metal Retention Clip	Helps secure the relay in the socket	TDR782●● (1)	10	16-TDR782SC

⁽¹⁾ Replace the bullets (••) with the the part number suffix. See page 14.

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	Holds sockets firmly in place on the DIN rail	_	10	16-DCLIP-1
ID Tags	Allows for identification of circuits in multi-relay applications	70-782EL8-1 70-782EL14-1 70-782E14-1	10	16-782FT-1

Legacy Time Delay and Sensor Relays TDR782 Series Accessories

Specifications

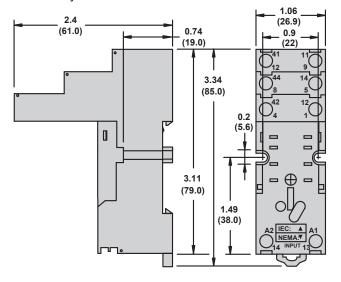
Part Number	70-782EL8-1	70-782EL14-1	70-782E14-1
Contact Configuration	DPDT	4PDT	4PDT
Number of Terminals	8	14	14
Mounting Style	Panel or DIN Rail	Panel or DIN Rail	Panel or DIN Rail
Current Rating	12 A	10 A	10 A
Nominal Voltage Rating	300 V	300 V	300 V
Storage Temperature Range	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)
Protection Category	IP20 (Finger Protection)		
Internal Metal Tracks	Copper Alloy, Zinc Plated	Copper Alloy, Zinc Plated	Copper Alloy, Zinc Plated
Screw Terminals	Steel, Zinc Plated	Steel, Zinc Plated	Steel, Zinc Plated
Screw Style	Combination Head	Combination Head	Combination Head
Screw Size	M3	M3	M3
Terminal Connection	Elevator	Elevator	Elevator
Terminal Layout	Logic	Logic	Non-Logic
Wire Size Capacity	Solid or Stranded Cu: Two 14–16 AWG (1.5–2.5 mm²)	Solid or Stranded Cu: Two 14–16 AWG (1.5–2.5 mm²)	Solid or Stranded Cu: Two 14–16 AWG (1.5–2.5 mm²)
DIN Rail Mounting, EN 60715	35 mm (1.38 in)	35 mm (1.38 in)	35 mm (1.38 in)
Maximum Screw Torque	7 lb-in (0.8 N•m)	7 lb-in (0.8 N•m)	7 lb-in (0.8 N•m)
Flammability Rating	UL94 Class V-0	UL94 Class V-0	UL94 Class V-0
Body Color	Light Gray	Light Gray	Light Gray
DIN Locking Method	Red Plastic Locking Clip	Red Plastic Locking Clip	Metal Compression Spring
Product Certifications	cURus (File: E70550, CCN: SWIV: CSA (File: 40787, Class: 3211 07), CE 60947-1, RoHS		

Part Number	70-379-1	70-378-1	70-461-1, 70-782D14-1
Contact Configuration	4PDT	4PDT	4PDT
Number of Terminals	14	14	14
Mounting Style	РСВ	Chassis	Panel or DIN Rail
Current Rating	5 A	5 A	10 A
Nominal Voltage Rating	300 V	300 V	300 V
Storage Temperature Range	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)
Protection Category	-	-	70-782D14-1: IP20 (Finger Protection)
Internal Metal Tracks	Copper Alloy, Zinc Plated	Copper Alloy, Zinc Plated	Copper Alloy, Zinc Plated
Screw Terminals	Copper Alloy, Zinc Plated	Copper Alloy, Zinc Plated	Steel, Zinc Plated
Screw Style	-	-	Combination Head
Screw Size	_	-	M3 mm
Terminal Connection	РСВ	Solder	Screw Clamping
Terminal Layout	Non-Logic	Non-Logic	Non-Logic
Wire Size Capacity	-	Solid or Stranded Cu: Two 14–16 AWG (1.5–2.5 mm²)	Solid or Stranded Cu: Two 14–16 AWG (1.5–2.5 mm²)
DIN Rail Mounting, EN 60715	-	-	35 mm (1.38 in)
Maximum Screw Torque	_	-	7 lb-in (0.8 N•m)
Flammability Rating	UL94 Class V-0	UL94 Class V-0	UL94 Class V-0
Body Color	Light Gray	Light Gray	Light Gray
DIN Locking Method	_	-	Red Plastic Locking Clip
Product Certifications	cURus (File: E70550, CCN: SWIV: CSA (File: 40787 Class: 3211 07), CE 60947-1, RoHS		70-461-1: cURus (File: E70550, CCN: SWIV2, SWIV8), CSA (File: 40787 Class: 3211 07), CE 60947-1, RoHS 70-782D14-1: cURus (File: E70550), CSA (File: 40787 Class: 3211 07), CE 60947-1, RoHS

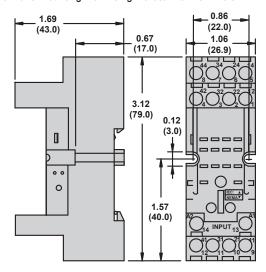
TDR782 Series Accessories

Dimensions—in. (mm)

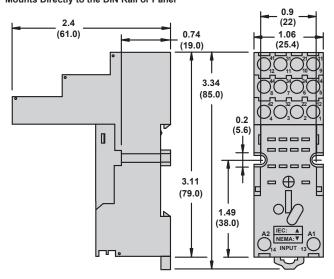
70-782EL8-1Mounts Directly to the DIN Rail or Panel



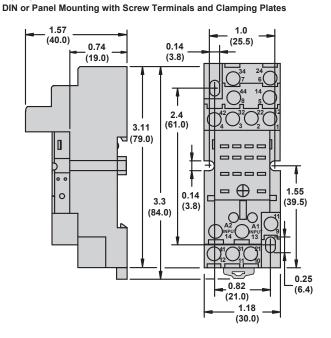
70-782E14-1
DIN or Panel Mounting with Rising Elevator Box Terminals



70-782EL14-1Mounts Directly to the DIN Rail or Panel



70-782D14-1



TDR782 Series Accessories

Dimensions—in. (mm)

2.51

(64.0)

(69.0)

(32.0)

70-461-1
DIN or Panel Mounting with Screw Terminals and Clamping Plates

or Panel Mounting with Screw Terminals and Clamping Plates

Solder Terminals for Chassis Mount

0.708 (18)

0.44

(11.1)

0.375

(9.52)

0.105

0.89

(22.7)

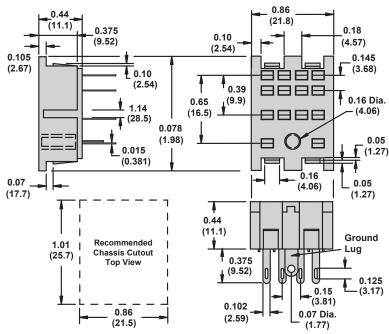
(30.7)

0.17

(4.32)

Dia.

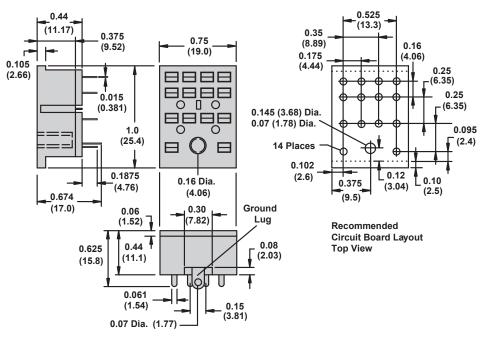
Тур.



70-379-1 Printed Circuit Terminals

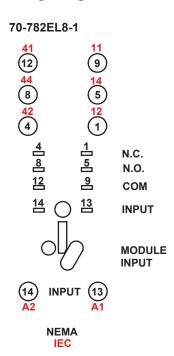
1.0

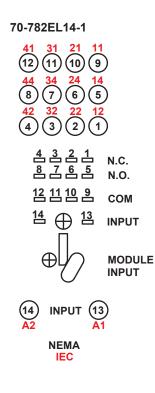
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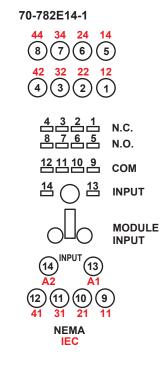


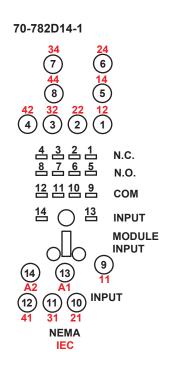
TDR782 Series Accessories

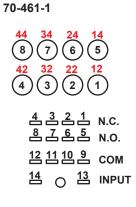
Wiring Diagrams

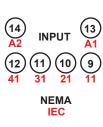


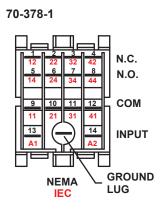


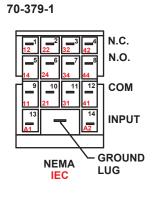












TDRPRO Series SPDT, 12 A; DPDT, 12 A









Description

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



TDRPRO Relay

Feature	Benefit
Up to 10 functions	5 timing functions controlled via supply voltage 4 timing functions controlled via trigger input 1 memory latching function
Broad timing range	0.1 s to 9990 hr
Panel-mounting adapter	Panel mountable
Dust cover	Retains settings and 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 indicators	Indicate coil power, timing out, and output state
RoHS compliant	Environmentally friendly

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

⁽¹⁾ For function descriptions, see page 31.

Part Number Explanation

TDRPRO

5100

Series: **TDRPRO** = 48 x 48 mm Time Delay Relay

Contact Configuration and Number of Functions:

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

Specifications

Legacy Time Delay and Sensor Relays

TDRPRO Series SPDT, 12A; DPDT, 12A

Specifications

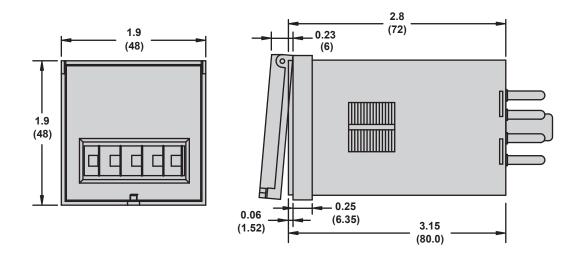
Part Number	TDRPRO-5100	TDRPRO-5101	TDRPRO-5102
Input Characteristics			
Input Voltage Range	12–240 Vac/Vdc	12–240 Vac/Vdc	12–240 Vac/Vdc
Operating Voltage	85–115% of nominal	85–115% of nominal	85–115% of nominal
Maximum Power Consumption (AC)	2.5 VA	2.5 VA	2.5 VA
Maximum Power Consumption (DC)	2 W	2 W	2 W
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 Vdc 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	0–999 by 0.1 s	0–999 by 0.1 s	0–999 by 0.1 s
	0-999 by 1 s 0-999 by 0.1 min 0-999 by 1 min 0-999 by 0.1 hr 0-999 by 1 hr 0-999 by 10 hr	0–999 by 1 s 0–999 by 0.1 min 0–999 by 1 min 0–999 by 0.1 hr 0–999 by 1 hr 0–999 by 10 hr	0-999 by 1 s 0-999 by 0.1 min 0-999 by 1 min 0-999 by 0.1 hr 0-999 by 1 hr 0-999 by 10 hr
Repeatability of the Time Delay at 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 to +70 °C (-22 to +158 °F)	-30 to +70 °C (-22 to +158 °F)	-30 to +70 °C (-22 to +158 °F)
Operating Temperature Range	-20 to +60 °C (-4 to +140 °F)	-20 to +60 °C (-4 to +140 °F)	-20 to +60 °C (-4 to +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 (Blinking = Timing; On = Energized)	Red LED	Red LED	Red LED
Enclosure Rating (according to IEC 60529 IP rating)	IP40	IP40	IP40
Approvals	CURus (File: E43641, CCN: NLDX2), CE 61810-1, RoHS, CULus (File: E43641, CCN: NLDX2, UL Listed when used with Schneider Electric socket 70-465)	cURus (File: E43641, CCN: NLDX2), CE 61810-1, RoHS, cULus (File: E43641, CCN: NLDX2, UL Listed when used with Schneider Electric socket 70-464)	cURus (File: E43641, CCN: NLDX2), CE 61810-1, RoHS, cULus (File: E43641, CCN: NLDX2, UL Listed when used with Schneider Electric socket 70-464)

⁽¹⁾ For function descriptions, see page 31.

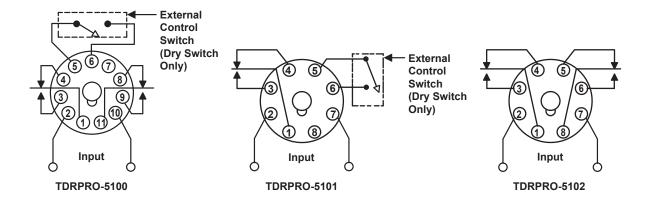
 ⁽²⁾ Actual product life varies based on electrical load, duty cycle, application, and environmental conditions.
 (3) After the time delay period expires, or upon application of the trigger signal (depending on the selected function).

TDRPRO Series SPDT, 12 A; DPDT, 12 A

Dimensions—in. (mm)



Wiring Diagrams



TDRPRO Series Accessories



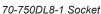




Description

The TDRPRO 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.



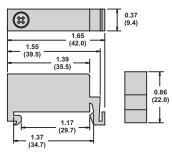




70-750E8-1 Socket



16-TDRPROSC Retention Clip



16-DCLIP-1 DIN Rail End Clip

Relay Accessories

Description	Function	For Use With Relays	Packaging Quantities	Standard Part Number
	Mounting directly to DIN Rail or Panel	TDRPRO-5101,	10	70-750DL8-1
	Panel Mounting with Screw Terminals and Clamping Plates	TDRPRO-5102	10	70-169-1
	DIN or Panel Mounting with Elevator Terminals	TDDDDO 5404	10	70-750E8-1
0 - 1 - 1	DIN or Panel Mounting with Screw Terminals and Clamping Plates	TDRPRO-5101	10	70-464-1
Socket	Mounting directly to DIN Rail or Panel		10	70-750DL11-1
	DIN or Panel Mounting with Elevator Terminals	TDDDD0 5400	10	70-750E11-1
	DIN or Panel Mounting with Screw Terminals and Clamping Plates	TDRPRO-5100	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

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	Compatible with all sockets	10	16-700DIN
DIN Rail End Clip	Holding sockets firmly in place on the DIN rail	listed in the table above.	10	16-DCLIP-1
ID Tags	Identification of circuits in multi-relay applications	70-750E8-1, 70-750EL8-1,	10	16-750/782FT-1
Insulated Coil Bus Jumper System	Wireless socket connection	70-750DL8-1, 70-750E11-1, 70-750EL11, 70-750DL11-1	10	16-750/788CBJ-1

Legacy Time Delay and Sensor Relays TDRPRO Series Accessories

Specifications

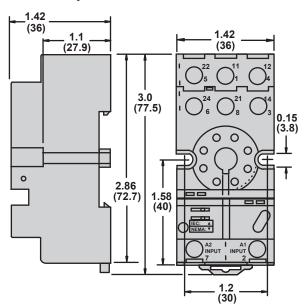
Part Number	70-750DL8-1	70-750DL11-1	70-750E8-1	70-750E11-1
Contact Configuration	DPDT	3PDT	DPDT	3PDT
Number of Terminals	8	11	8	11
Mounting Style	Panel or DIN rail			
Current Rating	16 A	5 A	12 A	12 A
Nominal Voltage Rating	300 V	600 V	600 V	300 V
Storage Temperature Range	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)
Protection Category according to IEC 60529 IP rating (finger protection)	IP20	IP20	IP20	IP20
Internal Metal Tracks	Copper Alloy, Zinc Plated			
Screw Terminals	Steel, Zinc Plated	Steel, Zinc Plated	Steel, Zinc Plated	Steel, Zinc Plated
Screw Style	Combination Head	Combination Head	Combination Head	Combination Head
Screw Size	M3.5 mm	M3.5 mm	M3.5 mm	M3.5 mm
Maximum Screw Torque	9 lb-in (1.0 N•m)			
Terminal Connection	Screw Clamping	Screw Clamping	Elevator	Elevator
Terminal Layout	Logic	Logic	Non-Logic	Non-Logic
Maximum Wire Size	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)
DIN Rail Mounting, EN 60715	35 mm (1.38 in)			
Chassis Mounting Screw Torque	7 lb-in (0.8 N•m)			
Flammability Rating	94V-0 Class	94V-0 Class	94V-0 Class	94V-0 Class
Body Color	Light Gray	Light Gray	Light Gray	Light Gray
DIN Locking Method	Red Plastic Locking Clip			
Agency Approvals	cURus (File: E70550, CCN: SWIV2, SWIV8), CSA (File: 40787, Class: 3211 07), CE 60947-1, RoHS	cURus (File: E70550, CCN: SWIV2, SWIV8), CSA (File: 40787, Class: 3211 07), CE 60947-1, RoHS	cURus (File: E70550, CCN: SWIV2, SWIV8), CSA (File: 40787, Class: 3211 07), CE 60947-1, RoHS	cURus (File: E70550, CCN: SWIV2, SWIV8), CSA (File: 40787, Class: 3211 07), CE 60947-1, RoHS

Part Number	70-169-1	70-170-1	70-464-1	70-465-1	
Contact Configuration	DPDT	3PDT	DPDT	3PDT	
Number of Terminals	8	11	8	11	
Mounting Style	Panel	Panel	Panel or DIN rail	Panel or DIN rail	
Current Rating	15 A	15 A	15/10 A	15/5 A	
Nominal Voltage Rating	300 V	600 V	300/600 V	300/600 V	
Temperature Storage Range	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)	-40 to +105 °C (-40 to +221 °F)	
Internal Metal Tracks	Copper Alloy, Zinc Plated	Copper Alloy, Zinc Plated	Copper Alloy, Zinc Plated	Copper Alloy, Zinc Plated	
Screw Terminals	Steel, Zinc Plated	Steel, Zinc Plated	Steel, Zinc Plated	Steel, Zinc Plated	
Screw Style	Combination Head	Combination Head	Combination Head	Combination Head	
Screw Size	M3.5 mm	M3.5 mm	M3.5 mm	M3.5 mm	
Maximum Screw Torque	9 lb-in (1.0 N•m)	9 lb-in (1.0 N•m)	9 lb-in (1.0 N•m)	9 lb-in (1.0 N•m)	
Terminal Connection	Screw Clamping	Screw Clamping	Screw Clamping	Screw Clamping	
Terminal Layout	Non-Logic	Non-Logic	Non-Logic	Non-Logic	
Maximum Wire Size	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)	Solid or Stranded Cu: two 12–14 AWG (2.5–4 mm²)	
DIN Rail Mounting, EN 60715	35 mm (1.38 in)	35 mm (1.38 in)	35 mm (1.38 in)	35 mm (1.38 in)	
Chassis Mount Screw Torque	7 lb-in (0.8 N•m)	7 lb-in (0.8 N•m)	7 lb-in (0.8 N•m)	7 lb-in (0.8 N•m)	
Flammability Rating	94 V-0 Class	94 V-0 Class	94 V-0 Class	94 V-0 Class	
Body Color	Light Gray	Light Gray	Light Gray	Light Gray	
DIN Locking Method	_	_	Red Plastic Locking Clip	Red Plastic Locking Clip	
Product Certifications	cURus (File: E70550, CCN: SWIV2, SWIV8), CSA (File: 40787, Class: 3211 07), CE 60947-1, RoHS				

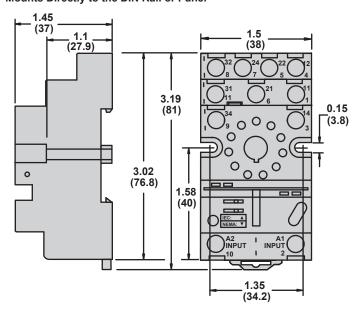
TDRPRO Series Accessories

Dimensions—in. (mm)

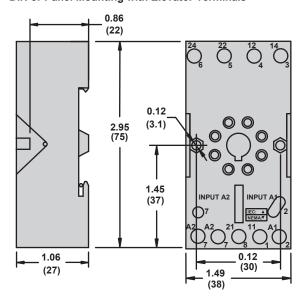
70-750DL8-1Mounts Directly to the DIN Rail or Panel



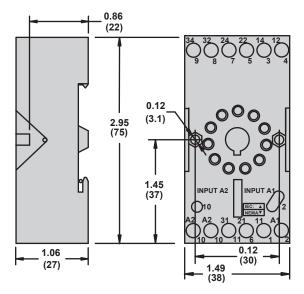
70-750DL11-1 Mounts Directly to the DIN Rail or Panel



70-750E8-1DIN or Panel Mounting with Elevator Terminals



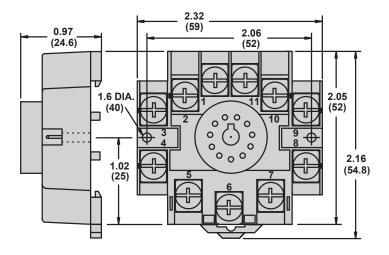
70-750E11-1DIN or Panel Mounting with Elevator Terminals



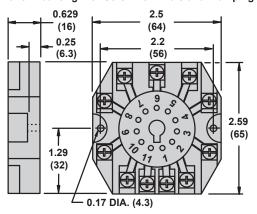
TDRPRO Series Accessories

Dimensions—in. (mm)

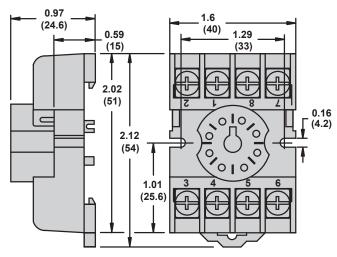
70-465-1
DIN Mounting with Screw Terminals and Clamping Plates



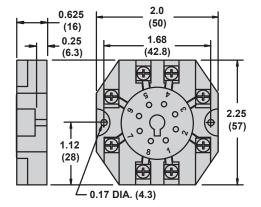
70-170-1Panel Mounting with Screw Terminals and Clamping Plates



70-464-1
DIN Mounting with Screw Terminals and Clamping Plates



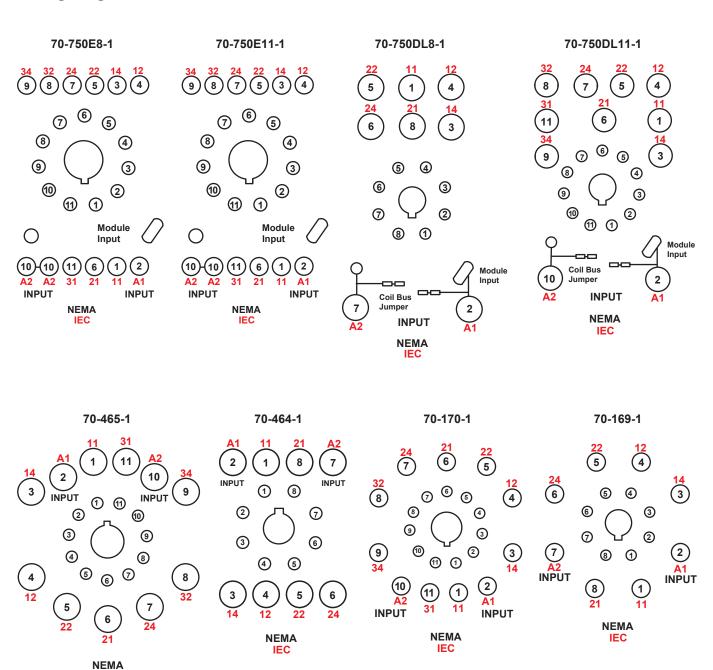
70-169-1
Panel Mounting with Screw Terminals and Clamping Plates



TDRPRO Series Accessories

Wiring Diagrams

IEC



Definition

A time delay is a controlled period between the functioning of two events. A time delay relay combines an electromechanical output relay and a control circuit. The control circuit is composed of solid-state components that control the operation of the relay and the timing range.

Typical time delay functions include:

- On-Delay
- Repeat Cycle (Starting Off)
- Interval
- Off-Delay
- Retriggerable One-Shot
- Repeat Cycle (Starting On)
- Pulse Generator
- One-Shot
- On- and Off-Delay
- Memory Latch

Each function is explained in the table on page 31. Time delay relays offer a broad choice of timing ranges from less than one second to many days. There are many choices of timing adjustments from calibrated external knobs, DIP switches, thumbwheel switches, or a recessed potentiometer.

Principle of Operation

Time delay relays are simply control relays with a time delay built in. Their purpose is to control an event based on time. The difference between relays and time delay relays is *when* the output contacts open and close:

- on a control relay, contacts change state when voltage is applied and removed from the coil
- on time delay relays, contacts change state before or after a pre-selected, timed interval

Typically, time delay relays are initiated or triggered by one of two methods:

- application of input voltage (On-Delay, Interval On, Flasher, Repeat Cycle, Delayed Interval, and Interval/Flasher)
- opening or closing of a trigger signal (Off-Delay, Single Shot, and Watchdog)

These trigger signals can be one of two designs:

- a control switch (dry contact)—for example, limit switch, push button, float switch
- voltage (commonly known as a power trigger)

Definitions:

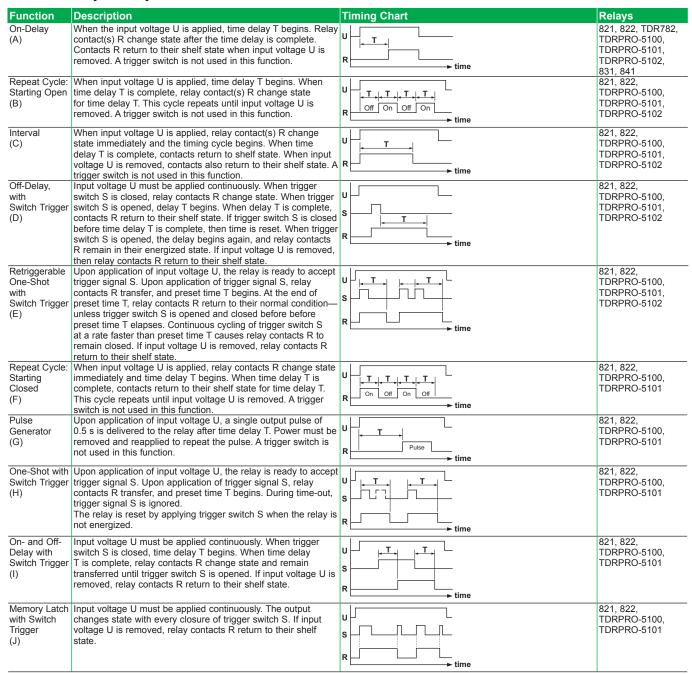
Input Voltage: Control voltage applied to the input terminals (see the wiring diagrams on page 31). Depending on the function, input voltage either initiates the unit or readies it to initiate when a trigger signal is applied.

Trigger Signal: On certain timing functions, a trigger signal initiates the unit after input voltage has been applied. As noted above, this trigger signal can either be a control switch (dry contact switch) or a power trigger (voltage).

Output (Load): A time delay relay has an internal relay (usually mechanical) with contacts that open and close to control the load. The contacts are represented by the dotted lines in the wiring diagrams.

NOTE: For the time delay relay to operate properly, voltage must be applied to power the load being switched by the relay's output contacts.

Time Delay Relay Functions



Note: G = Gate. R = Relay contacts or outputs. S = Switch trigger. Y1 = Control contact. T = Time delay setting. U = Input voltage (power supply).

Applications

Legacy Schneider Electric time delay and sensor relays provide cost effective solutions for your industrial timing and sensing needs. Available in a wide array of forms, fits, and functions, these timers offer flexibility and performance for process control and industrial building applications.

Typical Examples of Timer Applications



Automation Panels

Process controls, motor controls, emergency lighting



Food & Beverage

Commercial/industrial cooking equipment, filtration systems, bottling, chillers, convection ovens



Packaging Machinery

Conveyor motors, food processors, product/shrink wrap, solenoid controls



Lighting Control

Traffic signal systems, motorway information systems, theatrical lighting, ballast lighting



Power Supplies

Universal power supplies, battery backup systems



Material Handling

Motor control, conveyor controls



HVAC & Refrigeration

Anti-condensation equipment, compressor controls, blower controls, motorized duct/vent controls



Appliances

Air conditioners, water heaters, portable heaters, spa controls, water pumps

The Schneider Electric Relays website (www.serelays.com) helps you to easily find the proper relay to fit your design requirements, and to simplify and shorten workflow.

Easily find the proper relay to fit your design requirements

■ Online Catalog

Find the right product by choosing specifications, compare products side-byside, and view technical specifications, 2D and 3D drawings, and associated accessories.

■ Cross-Reference Search

Search our comprehensive database to identify products by manufacturer and part number, and link directly to part specifications.

■ 3D CAD Library

View, email, download, or insert a file directly into your open CAD software. You can choose from 18 different file formats.

■ Order Free Samples

Schneider Electric offers free samples as a courtesy to individuals and companies evaluating our products for their designs and applications. Sample orders are subject to approval.

Timing Functions Demo Instructions: 1. Select a Vigger 2. Select a Anaction On Writing Disgrams 3. Select Trigger 3. Select Trigger 4. Clost trigger method (5) to deep goover (4. Clost trigger method (5) to deep goover (5. Select Trigger 5. Select Trigger 5. Select Trigger 6. Select Trigger 6. Select Trigger 7. A pewer trigger primate large primate larg

3D Models

Time Delay Relay Demo

Simplify and shorten workflow

■ Interactive Tools

View interactive demonstrations, such as our Time Delay Relay Interactive Demo (left), which visually demonstrates the ten different timing functions offered on legacy Schneider Electric time delay relays.

■ Distributor Inventory Search

Search authorized distributors' current Schneider Electric inventory and buy online.

(Buy online is not available for all distributors.)

<u>16-700DIN</u> 13 ,	
16-750/782FT-1	
16-782FT-1	17
16-788C1	13
16-DCLIP-1 13,	17, 25
16-TDR782SC	17
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70-782E14-1	<i>17, 18</i>
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821TD10H-UNI	
822TD10H-UNI	
831VS-24D	
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TDRPRO-5100	22, 23
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