

## Magnecraft™ Time Delay and Sensor Relays

820 Series

SPDT, 15 A; DPDT, 15 A



### Description

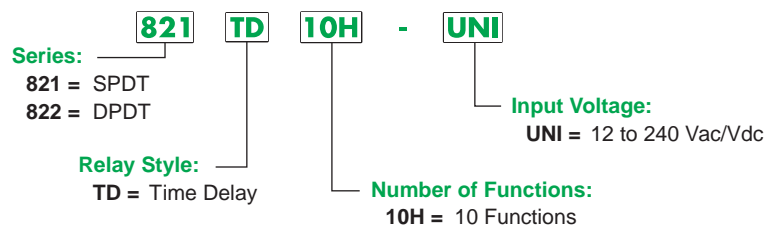
The 820 Series Time Delay Relays are 35 mm DIN rail mountable products offering 10 different timing functions, ultra-wide timing range (10 ms to 10 days) and a universal voltage input (12-240 Vac/Vdc), all in a slim 17.5 mm (0.69 in) modular package.

Feature	Benefit
Up to 10 functions	5 timing functions controlled via supply voltage 4 timing functions controlled via trigger input 1 function of memory latching Meets most timing requirements
Contact configuration	SPDT or DPDT
Universal power supply	12 to 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 (A)	Standard Part Number
12-240 Vac/Vdc	A,B,C,D,E,F,G,H,I,J	10 ms - 10 days	SPDT	15	821TD10H-UNI
12-240 Vac/Vdc	A,B,C,D,E,F,G,H,I,J	10 ms - 10 days	DPDT	2 x 15 A (2 pairs of contacts)	822TD10H-UNI

(1) For function descriptions, see pages 33 and 34.

### Part Number Explanation



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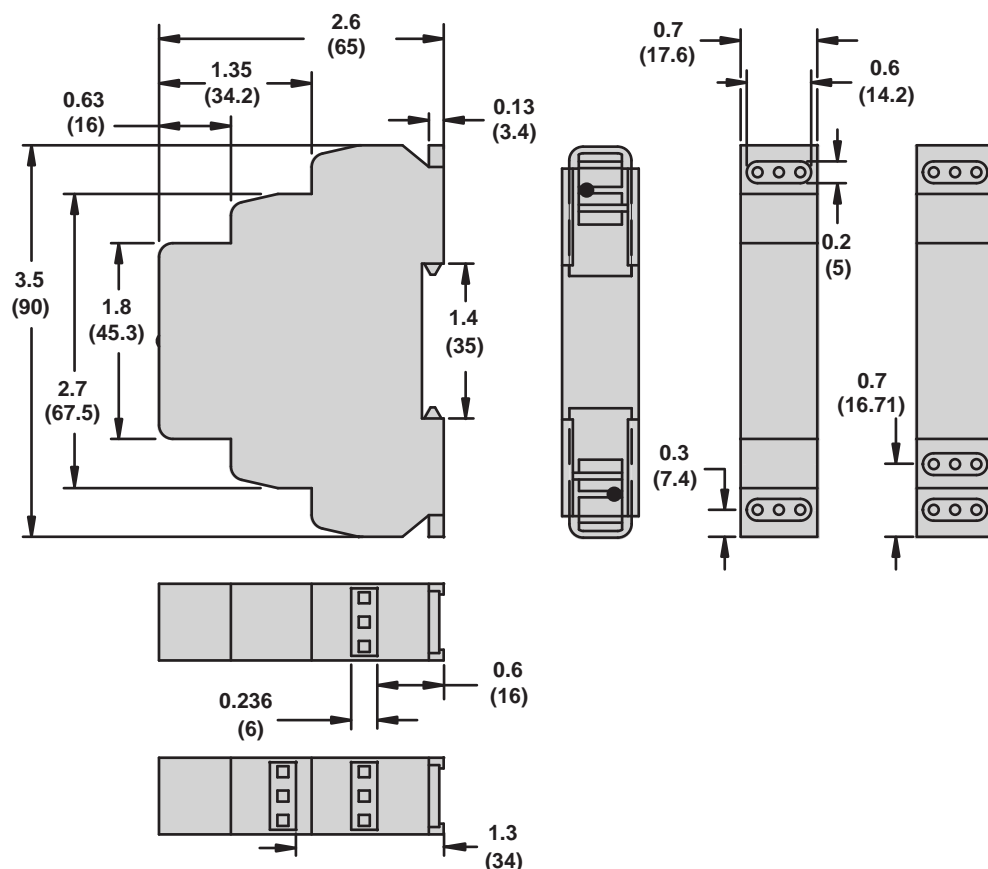
## Specifications

Part Number	821TD10H-UNI	822TD10H-UNI
<b>Input Characteristics</b>		
Input Voltage Range	12-240 Vac / Vdc	12-240 Vac / Vdc
Operating Voltage (% of Nominal)	85% of 12 V – 110% of 240 V	85% of 12 V – 110% of 240 V
Maximum Power Consumption	3 VA 1.7 W	3 VA 1.7 W
<b>Output Characteristics</b>		
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
<b>Timing Characteristics</b>		
Functions Available (1)	All	All
Time Scales	8	8
Time Ranges	100 ms to 1 sec 1 sec to 10 sec 0.1 min to 1 min 1 min to 10 min 1 hr to 10 hrs 0.1 hr to 1 hrs 1 day to 10 day 0.1 day to 1 day	100 ms to 1 sec 1 sec to 10 sec 0.1 min to 1 min 1 min to 10 min 1 hr to 10 hrs 0.1 hr to 1 hrs 1 day to 10 day 0.1 day to 1 day
Tolerance	5% of Mechanical setting	5% of Mechanical setting
Repeatability @ 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
<b>General Characteristics</b>		
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°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 +55°C (+131°F)	-20°C (-4°F) to +55°C (+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 (Blinks = Timing or On = Energized)	Red LED	Red LED
Enclosure Rating (according to IEC 60529 IP rating)	IP20	IP20
Approvals	cULus (file no. E234203), CE 61810-1, RoHS	cULus (file no. E234203), CE 61810-1, RoHS

(1) For function descriptions, see pages 33 and 34.

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

## Dimensions — inches (millimeters)



## Wiring Diagram

