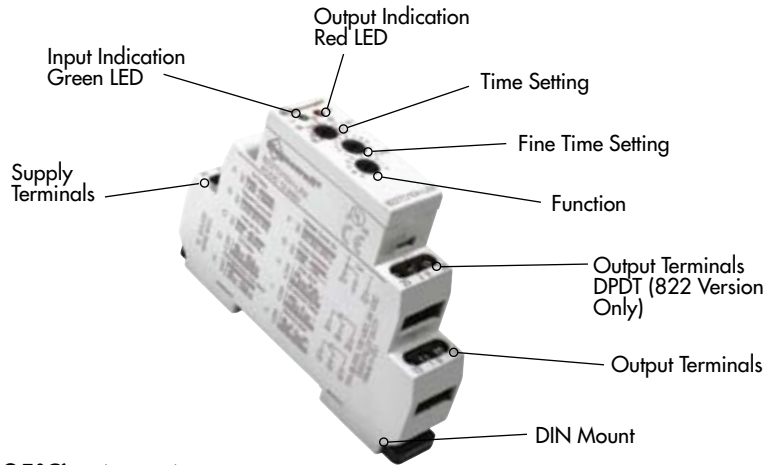


820 Series Time Delay Relays/SPDT, DPDT 15 Amp Rating



General Specifications (@ 25°C) (UL 508)

Output Characteristics		Units	821TD10H-UNI	822TD10H-UNI
Number and type of Contacts			SPDT	DPDT
Contact Material			Silver Alloy	Silver Alloy
Current rating	@ 240 VAC, 24 VDC	A	15	15
Switching voltage		V	240 AC, 50/60 Hz	240 AC, 50/60 Hz
		V	24 DC	24 DC
		HP	1/2 @ 120VAC	1/2 @ 120VAC
		HP	1 @ 240 VAC	1 @ 240 VAC
Minimum Switching Requirement		Pilot Duty	B300	B300
Indication	LED	mA	100	100
		Blinks = Timing On = Energized	Red	Red
Input Characteristics				
Voltage Range		VAC / VDC	12...240	12...240
Operating Range	% of Nominal		85% to 110%	85% to 110%
Maximum consumption		VA	3	3
		DC W	1.7	1.7
Indication	LED		Green	Green
Timing Characteristics				
Functions Available	(See page 5/3)		A,B,C,D,E,F,G,H,I,J	A,B,C,D,E,F,G,H,I,J
Time Scales			10	10
Time Ranges Available			0.1...1	0.1...1
		sec	1...10	1...10
			0.1...1	0.1...1
		min	1...10	1...10
			0.1...1	0.1...1
		hr	1...10	1...10
		day	0.1...1	0.1...1
			1...10	1...10
Tolerance	Mechanical Setting	%	5	5
Repeatability	Constant Voltage and Temperature	%	0.2	0.2
Reset Time	Maximum	ms	150	150
Trigger Pulse Length	Minimum	ms	50	50
Performance Characteristics				
Electrical Life	Operations @ Rated Current (Resistive)		100,000	100,000
Mechanical Life	Unpowered		10,000,000	10,000,000
Dielectric strength	Input to Contacts	V	2500 AC	2500 AC
	Between Open Contacts	V	1000 AC	1000 AC
Terminal Wire Capacity		AWG (mm ²)	14 (2.1)	14 (2.1)
Terminal Torque (maximum)		in lb (Nm)	7.1 (0.8)	7.1 (0.8)
Environment				
Product certifications	Standard version		UL, CE	UL, CE
Ambient air temperature around the device	Storage	°C	-30...+70	-30...+70
	Operation	°C	-20...+55	-20...+55
Degree of protection			IP 20	IP 20
Weight		grams	65	65

SECTION 5



821



822

Optional Panel Adapter
(16-788C1)
See Section 3 p.18

Standard Part Numbers

BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

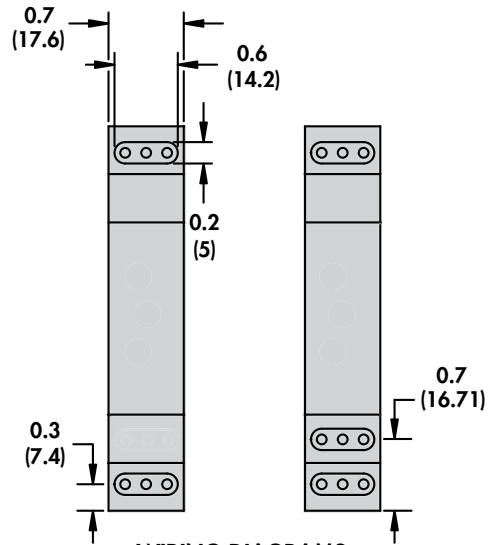
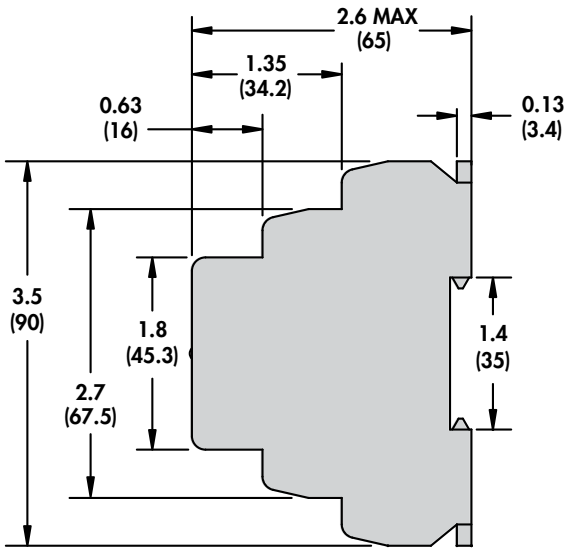
Part Number	Input Voltage	Timing Range	Functions Available	Contact Configuration	Rated Load Current
821TD10H-UNI	12...240 VAC/VDC	0.1s...10d	A,B,C,D,E,F,G,H,I,J	SPDT	15 Amps
822TD10H-UNI	12...240 VAC/VDC	0.1s...10d	A,B,C,D,E,F,G,H,I,J	DPDT	15 Amps

FUNCTION DEFINITIONS

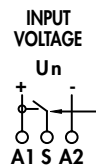
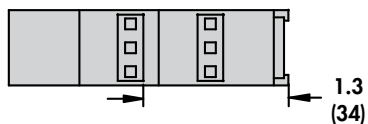
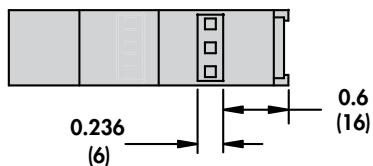
See Section 5 p.3

Part Number Builder

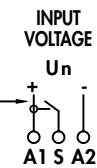
Series	Relay Style	Number of Functions	-	Input Voltage
821 = SPDT	TD - Time Delay	10H = 10 Functions		UNI = 12...240 VAC/VDC
822 = DPDT				



WIRING DIAGRAMS



EXTERNAL CONTROL SWITCH



15 - COMMON
16 - NORMALLY CLOSED
18 - NORMALLY OPEN



821TD10H-UNI



25 - COMMON
26 - NORMALLY CLOSED
28 - NORMALLY OPEN



822TD10H-UNI