

TRU SERIES

Knob Adjustable Universal Time Delay Relay



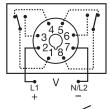






11-PIN

Wiring Diagram



8-PIN DPDT Delay-on-Make Interval Recycling

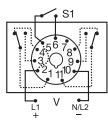
S1 8-PIN SPDT Delay-on-Make Interval Single Shot Recycling (ON Time First, Equal Recycle Delays) Delay-on-Break Retriggerable Single Shot

11-PIN DPDT

Delay-on-Make Interval Single Shot Recycling

(ON Time First, Equal Recycle Delays) Delay-on-Break

Retriggerable Single Shot



N/L2

V = Voltage S1 = Initiate Switch

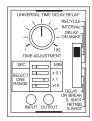
Relay contacts are isolated

Description The TRU Series is a multifunction, knob adjustable, Universal

Time Delay Relay. It includes six of the most popular timing functions selected by a slide switch. The time delay is knob adjustable and the time delay range is switch selectable. The repeat accuracy is + 0.1%. Both function and time range can be selected on the top face of the unit. In addition to multifunctioning and multiple time ranges, the TRU Series features universal input voltage; 19 to 264VAC and 19 to 30VDC and full 10A output relay. The TRU Series can directly replace up to 1000 competitive time delay relay models.

Operation

A six position slide switch selects delay-on-make, interval, single shot, recycling (ON time first, equal recycle delays), delay-on-break, and retriggerable single shot. 8-pin DPDT base wiring is limited to delay-on-make, interval, and recycling functions. All six functions are available in the 8-pin SPDT and 11-pin DPDT versions.



Features & Benefits

FEATURES	BENEFITS	
Microcontroller based	Repeat Accuracy + / - 0.1% or + / - 20ms, whichever is greater	
6 time ranges (0.1s to 1,000m)	Broad range will satisfy most requirements	
Knob adjustable time delay	Allows user to fine tune time delay based on application needs	
Universal input voltage	Makes it versatile for use in most applications	
Multifunction	Provides the most common standard timing functions	
LED Indicators	Provide visual indication of input voltage and relay status	
10A isolated output contacts	Allows control of loads for AC or DC voltages	

Ordering Information

MOD)EL	INPUT VOLTAGE	BASE WIRING	FUNCTIONS
TRL	J1	19 to 264VAC; 19 to 30VDC	8-pin DPDT	3
TRL	J2	19 to 264VAC; 19 to 30VDC	8-pin SPDT	6
TRL	J3	19 to 264VAC; 19 to 30VDC	11-pin DPDT	6

If you don't find the part you need, call us for a custom product 800-843-8848



TRU SERIES



Accessories



BZ1 Front Panel Mount Kit

Provides an easy method of through-the-panel mounting of 8- or 11-pin plug-in timers, flashers, and other controls.



NDS-8 Octal 8-pin Socket

8-pin 35mm DIN rail or surface mount. Rated at 10A @ 300VAC. Surface mounted with two #6 (M 3.5×0.6) screws or snaps onto a 35 mm DIN rail. Uses PSC8 hold-down clips.



NDS-11 11-pin Socket

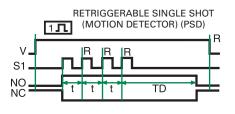
11-pin 35mm DIN rail or surface mount. Rated at 10A @ 300VAC. Surface mounted with two #6 (M 3.5×0.6) screws or snaps onto a 35 mm DIN rail. Uses PSC11 hold-down clips.



PSC8 or PSC11 Hold-down Clips

Securely mounts plug-in controls in any position. Provides protection against vibration. Use PSC8 with NDS-8 Octal Socket or PSC11 with NDS-11 Socket. Sold in pairs.

Function Diagram



V = Voltage S1 = Initiate Switch NO = Normally Open Contact NC = Normally Closed Contact t = Incomplete Time Delay TD = Time Delay R = Reset

Specifications

Time Delay Type Range Switch Selectable

Adjustments Multiplier

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Time Setting

Two LEDs indicate

Repeat Accuracy Reset Time Time Delay vs Temp. & Voltage Input Voltage - Universal Input Range AC Line Frequency Output Type Form Rating

Life Protection Transient Isolation Voltage Polarity Mechanical Mounting Dimensions

Termination Environmental Operating/Storage Temperature Weight Digital integrated circuitry

0.1s - 1000m in 6 ranges: 1) 0.1 - 10s 2) 1 - 100s 3) 10 - 1000s 4) 0.1 - 10m 5) 1 - 100m 6) 10 - 1000m

4 position DIP switch selects x0.1, x1, x10, and sec. or min. Onboard knob adjustment with 1 - 100 reference dial 1) Input voltage applied 2) Output relay status ±0.1% or ±20ms, whichever is greater ≤ 300ms

±2%

19 to 264VAC and 19 to 30VDC 50/60Hz

Electromechanical relay SPDT or DPDT, isolated 10A resistive @ 120/240VAC & 28VDC; 1/3 hp @ 120/240VAC Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

38 joules ≥ 1500V RMS input to output DC units are reversed polarity protected

Plug-in socket H 87.3 mm (3.44"); W 60.7 mm (2.39"); D 45.2 mm (1.78") Octal 8-pin plug-in or magnal 11-pin plug-in

 -20° to 65° C / -30° to 85° C ≈ 6 oz (170 g)

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