

Multifunction, Multirange TRU Series Universal Time Delay Relay

Description

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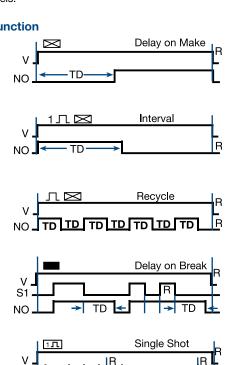
The TRU Series is a multifunction, knob adjustable, Universal Time Delay Relay. It includes six of the most popular timing functions selected by a slide switch. The time delay is knob adjustable and the time delay range is switch selectable. The repeat accuracy is $\pm 0.1\%$. Both function and time 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 264 V AC and 19 to 30 V DC and full 10 A output relay. The TRU Series can directly replace up to 1000 competitive time delay relay models.

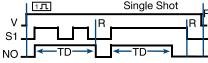
Operation

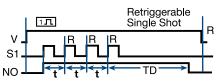
Connection

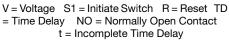
Function

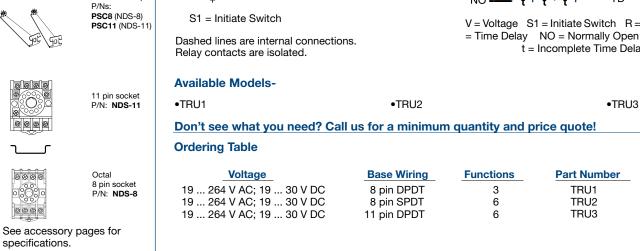
A six position slide switch selects Delay on Make, Interval, Single Shot, Recycling (ON time first), Delay on Break, and Retriggerable Single Shot. 8 Pin DPDT base wiring is limited to Delay on Make, Interval, and Recycling functions. All six functions are available in the 8 pin SPDT and 11 pin DPDT versions.











- Microcontroller +/-0.1% Repeat Accuracy
- Six Timing Functions are Switch Selectable
- 0.1 s ... 1000 m in Six Ranges
- Knob Adjustable Time Delay
- Universal Input Voltage
- 19...264 V AC & 19...30 V DC ■ 10 A, SPDT or DPDT Relay

Panel mount kit

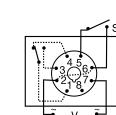
Hold down clips

P/N: **BZ1**

Contacts

Approvals:

Accessories





Delay On Make

8 Pin DPDT

8 Pin SPDT

Delay On Make Interval Single Shot Recycling (ON Time First) Delay on Break Retriggerable Single Shot

11 Pin DPDT

09.10 TRU02B01

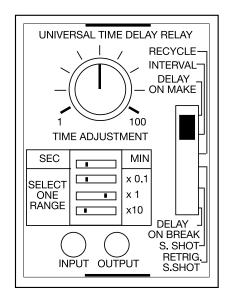


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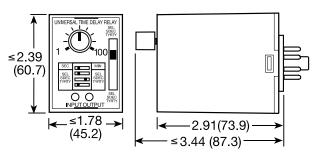
Technical Data

Time Delay	
Туре	Digital integrated circuitry
Range: Switch Selectable**	0.1 s 1000 m in 6 ranges0.1 10, 1 100 or 10 1000 s;
-	0.1 10, 1 100 or 10 1000 m
Adjustments	Multiplier: 4 position DIP switch selects x0.1, x1, x10, and s or m
	Time Setting: Onboard knob adjustment with 1 100 reference dial
LED Indication	Two LED's indicate input voltage applied & output relay status
Repeat Accuracy	+/-0.1%, or +/-20 ms, whichever is greater
Reset Time	≤ 300 ms
Time Delay vs. Temp. & Voltage	+/-2%
Input	
VoltageUniversal Input Range	19 264 V AC and 19 30 V DC
Line Frequency	50 60 Hz
Output	
Туре	Electromechanical relay
Form	Isolated SPDT & DPDT
Rating	10 A resistive at 120/240 V AC & 28 V DC; 1/3 hp at 120/240 V AC
Life	Mechanical: 1 x 10 ⁷ ; Electrical: 1 x 10 ⁶
Protection	
Transient	38 joules
Isolation Voltage	≥ 1500 V RMS input to output
Polarity	DC units are reversed polarity protected
Mechanical	
Mounting	Plug-in socket
Package	3.44 x 2.39 x 1.78 in. (87.3 x 60.7 x 45.2 mm)
Termination	Octal plug (8 Pin) or magnal plug (11 Pin)
Environmental	
Operating Temperature	-20°C +65°C
Storage Temperature	-30°C +85°C
Weight	≅ 6 oz (170 g)
** For OF approved applications, power must be removed when a switch position is abanged	

** For CE approved applications, power must be removed when a switch position is changed.



Mechanical View



Inches (Millimeters)