

Multifunction, Multirange TRU Series Universal Time Delay Relay

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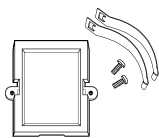


10 YEAR WARRANTY

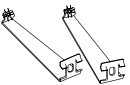
- Microcontroller +/-0.1% Repeat Accuracy
- Six Timing Functions are Switch Selectable
- 0.1 s ... 1000 m in Six Ranges
- Knob Adjustable Time Delay
- Universal Input Voltage 19...264 V AC & 19...30 V DC
- 10 A, SPDT or DPDT Relay Contacts

Approvals:

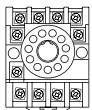
Accessories



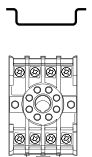
Panel mount kit
P/N: **BZ1**



Hold down clips
P/Ns:
PSC8 (NDS-8)
PSC11 (NDS-11)



11 pin socket
P/N: **NDS-11**



Octal
8 pin socket
P/N: **NDS-8**

See accessory pages for specifications.

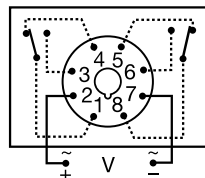
Description

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 $\pm 0.1\%$. 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

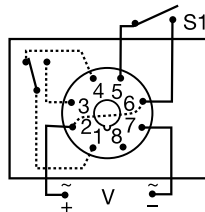
A six position slide switch selects Delay on Make, Interval, Single Shot, Recycling (ON time first), Delay on Break, and Retriggerable Single Shot. 8 Pin DPDT base wiring is limited to Delay on Make, Interval, and Recycling functions. All six functions are available in the 8 pin SPDT and 11 pin DPDT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

Connection



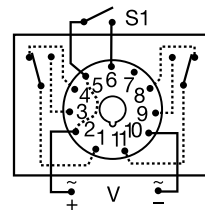
8 Pin DPDT

Delay On Make
Interval
Recycling



8 Pin SPDT

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

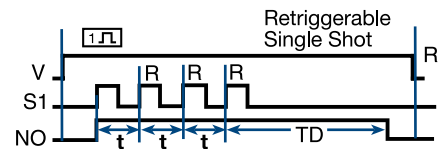
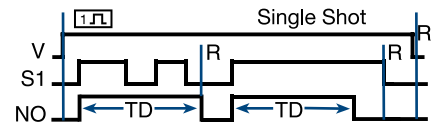
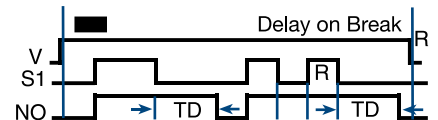
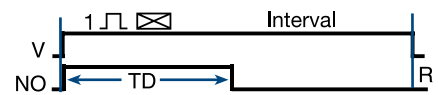
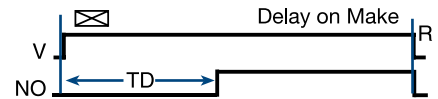


11 Pin DPDT

S1 = Initiate Switch

Dashed lines are internal connections.
Relay contacts are isolated.

Function



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

Available Models-

•TRU1

•TRU2

•TRU3

Don't see what you need? Call us for a minimum quantity and price quote!

Ordering Table

Voltage	Base Wiring	Functions	Part Number
19 ... 264 V AC; 19 ... 30 V DC	8 pin DPDT	3	TRU1
19 ... 264 V AC; 19 ... 30 V DC	8 pin SPDT	6	TRU2
19 ... 264 V AC; 19 ... 30 V DC	11 pin DPDT	6	TRU3

For Info: www.switchesunlimited.com sales@switchesunlimited.com
Phone: 800-221-0487 Fax: 718-672-6370

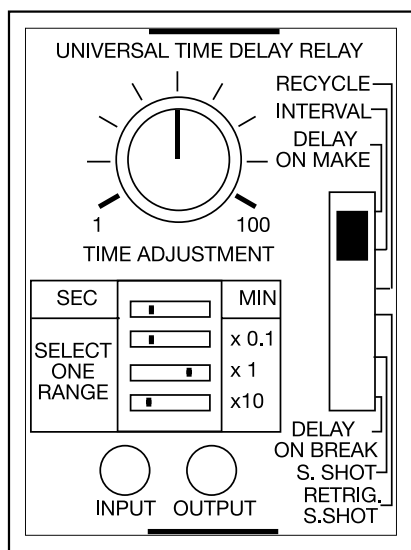
Multifunction, Multirange TRU Series Universal Time Delay Relay

Multifunction
timers

Technical Data

Time Delay	
Type	Digital integrated circuitry
Range: Switch Selectable**	0.1 s ... 1000 m in 6 ranges--0.1 ... 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	
Voltage--Universal Input Range	19 ... 264 V AC and 19 ... 30 V DC
Line Frequency	50 ... 60 Hz
Output	
Type	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 CE approved applications, power must be removed when a switch position is changed.



Mechanical View

