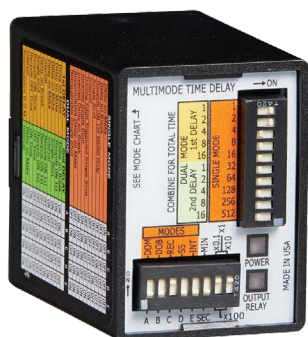


TRDU SERIES

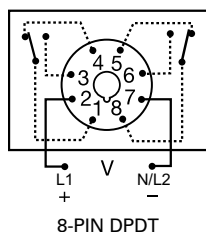


8-PIN

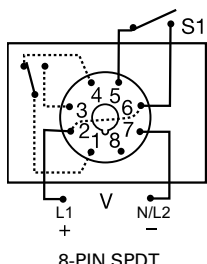


11-PIN

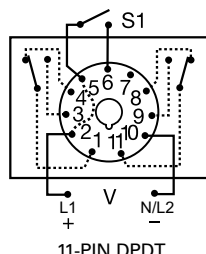
Wiring Diagram



8-PIN DPDT



8-PIN SPDT



11-PIN DPDT

V = Voltage
S1 = Initiate Switch

Ordering Information

MODEL	INPUT VOLTAGE	BASE CONNECTION
TRDU120A1	120VAC	8-pin, DPDT*
TRDU120A2	120VAC	8-pin, SPDT
TRDU120A3	120VAC	11-pin, DPDT
TRDU12D1	12VDC	8-pin, DPDT*
TRDU12D2	12VDC	8-pin, SPDT
TRDU230A2	230VAC	8-pin, SPDT
TRDU24A1	24VAC/DC	8-pin, DPDT*
TRDU24A2	24VAC/DC	8-pin, SPDT
TRDU24A3	24VAC/DC	11-pin, DPDT

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

*Limited to 9 operating functions in 8-pin DPDT units.

Description

The TRDU Series is a versatile universal time delay relay with 21 selectable single and dual functions. The dual functions replace up to three timers required to accomplish the same function. Both the function and the timing range are selectable with switches located on the face of the unit. Two LED's indicate input voltage and output status. This device offers full 10A isolated relay output contacts in either SPDT or DPDT. The TRDU replaces hundreds of part numbers, thereby, reducing your stock inventory requirements.

21 Functions

Five switches are provided to set one of 10 single or 11 dual modes of operation.

Features & Benefits

FEATURES	BENEFITS
Multifunction: 21 timing functions	Replace hundreds of parts and reduce stocking requirements
Microcontroller based	Repeat Accuracy + / - 0.1%
User selectable time delay	Timing settings are switch selectable 0.1s - 1,705h in eight ranges for added flexibility
Isolated 10A, SPDT or DPDT output contacts	Allows control of loads for AC or DC voltages
LED indicators	Provides visual indication of input voltage and relay status

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. Surface mounted with two #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. Surface mounted with two #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 sets of two.



C103PM (AL) DIN Rail

35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

TRDU SERIES

Specifications

Time Delay

Type

Range: Switch Selectable**

Adjustments

Setting Accuracy

Repeat Accuracy

Timing Functions

Reset Time

Initiate Time

Time Delay vs Temp.

& Voltage

Indication

Two LEDs indicate

Input

Voltage

Tolerance

12VDC & 24VAC/DC

120 & 230VAC

AC Line Frequency

Power Consumption

Output

Type

Form

Rating

Life

Microcontroller

Single Functions: 0.1s - 1,705h in 8 ranges

Dual Functions: 0.1s - 3,100m each in 8 ranges

Multiplier: 3 position DIP switches select 0.1, 1, 10, or 100 in s or m

±1% or 50ms, whichever is greater

±0.1% or 20ms, whichever is greater

Five switches are provided to set one of twenty-one single or dual functions

≤ 50ms

120VAC: 75ms

±1%

1) Input voltage applied 2) Output relay status

12VDC, 24VAC/DC, 120VAC, or 230VAC

-15% - 20%

-20% - 10%

50/60Hz

24 to 230V ≤ 3W; 12VDC ≤ 2W

Electromechanical relay

SPDT or DPDT

10A resistive @ 120/240VAC & 28 VDC;

1/3 hp @ 120/240VAC

Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

Protection

Isolation Voltage

Insulation Resistance

Polarity

Mechanical

Mounting

Dimensions

Termination

Environmental

Operating/Storage

Temperature

Weight

≥ 1500V RMS input to output

≥ 100 MΩ

DC units are reverse polarity protected

Plug-in socket

H 76.7 mm (3.1"); W 60.7 mm (2.39");

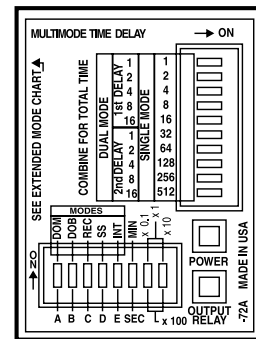
D 45.2 mm (1.78")

Octal 8-pin plug-in or magnal 11-pin plug-in

-20° to 65°C / -40° to 85°C

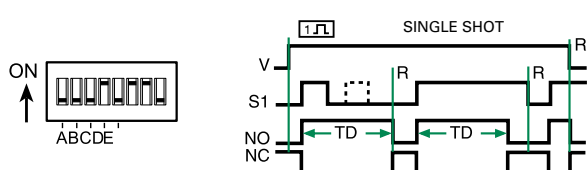
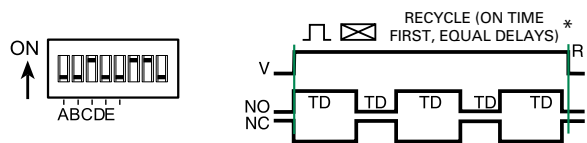
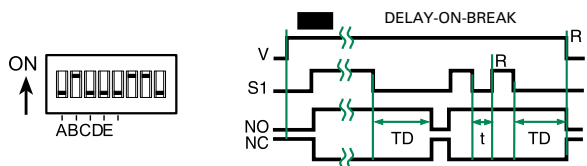
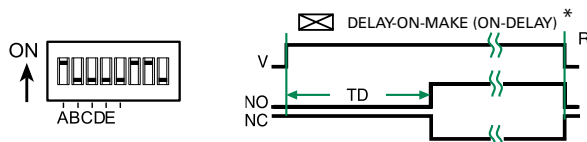
≈ 5.8 oz (164 g)

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

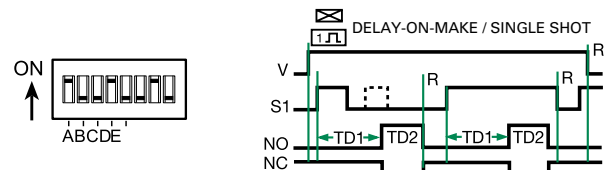
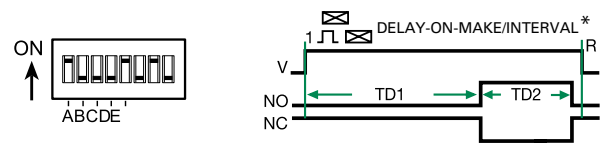
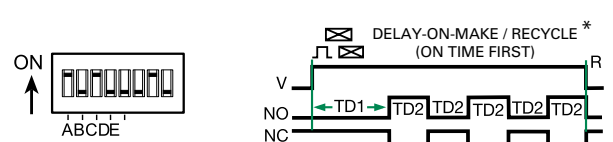
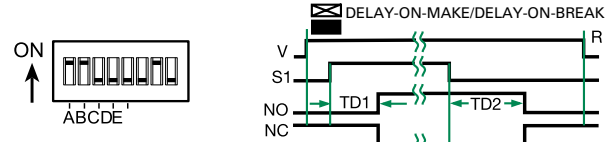


Function Diagrams

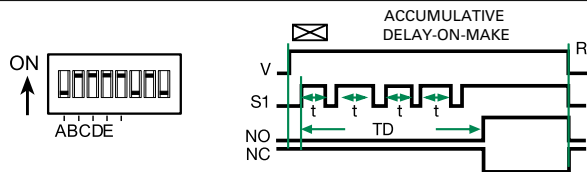
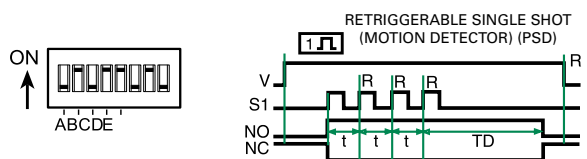
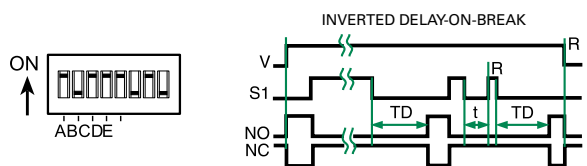
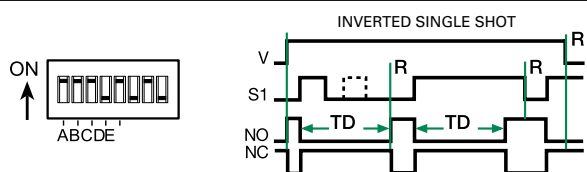
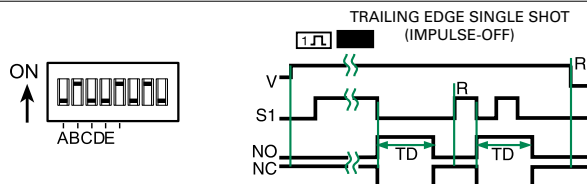
Single Functions



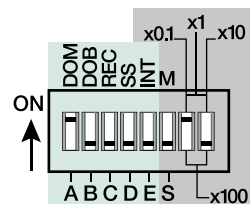
Dual Functions



Single Functions

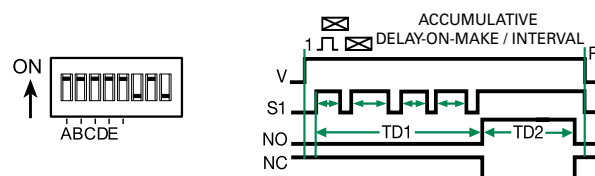
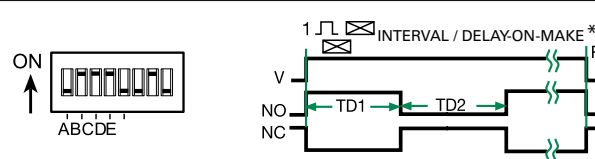
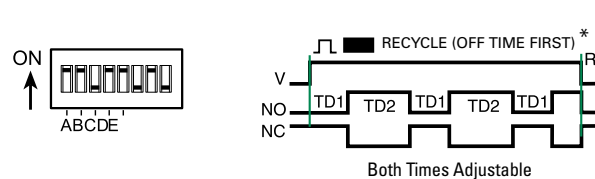
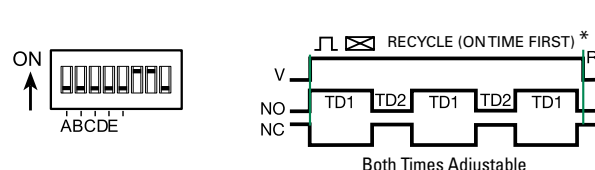
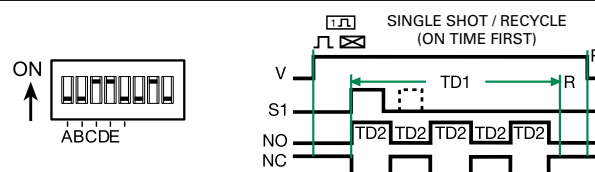
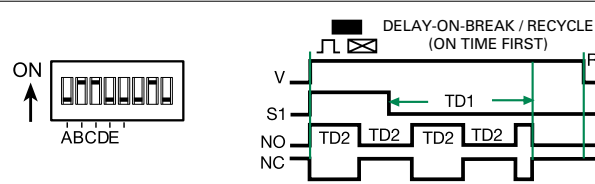
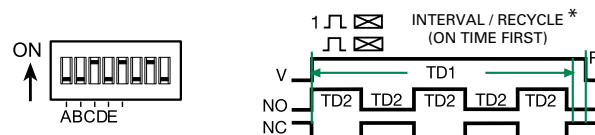


LEGEND



3 Switches for Time Delay Range

Dual Functions



* 9 Functions included in the 8 pin DPDT models

Rev: 1-A-062216