# TDI / TDIH / TDIL SERIES









# Wiring Diagram



Relay contacts are isolated.

## Description

The TDI Series is an interval timer that combines accurate digital circuitry with isolated, 10A rated, DPDT relay contacts in an 8-pin plug-in package. The TDI Series features DIP switch selectable time delays ranging from 0.1 to 10,230 seconds in three ranges. The TDI Series is the product of choice for custom control panel and OEM designers.

#### Operation (Interval)

Upon application of input voltage, the time delay begins. The output relay is energized during the time delay. At the end of the time delay, the output de-energizes and remains de-energized until input voltage is removed.

**Reset:** Removing input voltage resets the time delay and the output.

### Features & Benefits

BENEFITS
Repeat Accuracy + / - 0.1%, Setting accuracy + / - 2%
Allows control of loads for AC or DC voltages
Provides first time setting accuracy
Eliminates need for special connectors
Provides visual indication of timing and output status

### Accessories



#### **BZ1 Front Panel Mount Kit**

NDS-8 Octal 8-pin Socket

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

8-pin 35mm DIN rail or surface mount. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. Uses PSC8 hold-

010/1



#### PSC8 Hold-down Clips

down clips.

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

#### C103PM (AL) DIN Rail

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

# Ordering Information

	MODEL	INPUT VOLTAGE	TIME DELAY	LED
	TDI120AL	120VAC	1 - 1023s in 1s increments	Yes
	TDI12D	12VDC	1 - 1023s in 1s increments	No
	TDIH24AL	24VAC	10 - 10,230s in 10s increments	Yes
	TDIL120AL	120VAC	0.1 - 102.3s in 0.1s increments	Yes
	TDIL24DL	24VDC	0.1 - 102.3s in 0.1s increments	Yes

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

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## Specifications

Time Delay Type Range\*\*

Repeat Accuracy Setting Accuracy **Reset Time Recycle Time** Time Delay vs Temp. & Voltage Indicator Input Voltage Tolerance 12VDC & 24VDC/AC 110 to 230VAC/DC **AC Line Frequency Power Consumption** Output Type Form Rating

#### Life

Protection Polarity Isolation Voltage Mechanical Mounting

Dimensions

Termination Environmental Operating/Storage Temperature Weight Digital integrated circuitry 0.1 - 102.3s in 0.1s increments 1 - 1023s in 1s increments 10 - 10,230s in 10s increments ±0.1% or 20ms, whichever is greater ±2% or 50ms, whichever is greater ≤ 50ms ≤ 150ms

±2% LED glows during timing; relay is energized

12, 24, or 110VDC; 24, 120, or 230VAC

-15% - +20% -20% - +10% 50/60 Hz ≤ 3.25W

Electromechanical relay DPDT 10A resistive @ 120/240VAC & 28VDC; 1/3 hp @ 120/240VAC Mechanical - 1 x10<sup>7</sup>; Electrical - 1 x 10<sup>6</sup>

DC units are reverse polarity protected ≥ 1500V RMS input to output

Plug-in socket H 81.3 mm (3.2"); W 60.7 mm (2.4"); D 45.2 mm (1.8") Octal 8-pin plug-in

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

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

# **Digi-Set Binary Switch Operation**



### Function Diagram



V = Voltage NO = Normally Open Contact NC = Normally Closed Contact TD = Time Delay R = Reset  $-\langle \rangle = Undefined$  Time