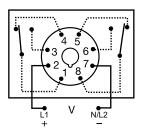
TDI / TDIH / TDIL Series





Wiring Diagram



Relay contacts are isolated.

Ordering Information

MODEL	INPUT VOLTAGE	TIME DELAY	LED
TDI120AL	120 V ac	1–1023 s in 1 s increments	Yes
TDI12D	12 V dc	1–1023 s in 1 s increments	No
TDIH24AL	24 V ac	10–10,230 s in 10 s increments	Yes
TDIL120AL	120 V ac	0.1–102.3 s in 0.1 s increments	Yes
TDIL24DL	24 V dc/28 V dc	0.1–102.3 s in 0.1 s increments	Yes

Description

The TDI series is an interval timer that combines accurate digital circuitry with isolated, 8 A 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

FEATURES	BENEFITS	
Digital circuitry	Repeat Accuracy + / - 0.1 %, Setting accuracy + / - 2 %	
Isolated, 8 A, DPDT output contacts	Allows control of loads with independent voltage sources	
DIP switch adjustment	Provides first time setting accuracy	
Industry standard octal plug connection	Eliminates need for special connectors	
LED indication (select models)	Provides visual indication of timing and output status	

Accessories



OT08PC 8-pin Octal Socket for UL listing* 8-pin 35 mm DIN-rail or surface mount. Rated at 10 A @ 600 V ac. Surface mounted with two #6 screws or snaps onto a 35 mm DIN rail.



C103PM (AL) DIN Rail

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

Time Delay Relays INTERVAL

Specifications

Time Delay

Type Digital integrated circuitry

Range 0.1–102.3 s in 0.1 s increments
1–1023 s in 1 s increments

10 - 10,230 s in 10 s increments

Repeat Accuracy $\pm 0.1 \%$ Setting Accuracy $\pm 2 \%$ Reset Time $\leq 150 \text{ ms}$

Time Delay vs Temp.

& Voltage $\pm 5 \%$

Indicator LED glows during timing; relay is energized

Input

Voltage 12, 24 V dc; 24, 120 V ac

Tolerance

 12 V dc & 24 V dc/Ac
 -15% -+20%

 120 V ac
 -20% -+10%

 AC Line Frequency
 50/60 Hz

 Power Consumption
 $\leq 3.25 \text{W}$

Output

Type Electromechanical relay

Form DPDT

Rating 8 A resistive @ 120/240 V ac;

1/3 hp @ 120/240 V ac

Life Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

Protection

Polarity Dc units are reverse polarity protected

Isolation Voltage $\geq 1500 \text{ V rms input to output}$

Mechanical

Mounting Plug-in socket

Dimensions H 44.45 mm (1.75"); **W** 60.33 mm (2.38");

D (with socket) 104.78 mm (4.13")

Termination Octal 8-pin plug-in

Environmental

Operating/Storage

Temperature -20 °C to 65 °C / -30 °C to 85 °C

Weight $\approx 4 \text{ oz (113 g)}$

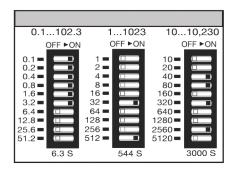
Safety Marks

UL (socket required)* UL 508 (E57310)

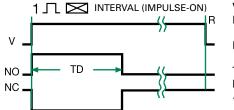
*UL Listed when used with Part Number OT08-PC or RB08-PC manufactured by Custom Connector Corp.

Note: Manufacturer's recommended screw terminal torque for the OT Series sockets is 12 in-lbs.

Digi-Set Binary Switch Operation



Function Diagram



V = Voltage
NO = Normally
Open Contact
NC = Normally
Closed Contact
TD = Time Delay
R = Reset

= Undefined Time

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