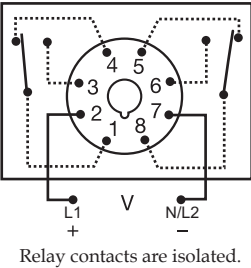


The TDI Series is an interval timer that combines accurate digital circuitry with isolated, 10A rated, DPDT relay contacts in an 8-pin plug-in package. The TDI Series features DIP switch selectable time delays ranging from 0.1 to 10,230 seconds in three ranges. The TDI Series is the product of choice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

For more information see:
Appendix A, pages 156-164 for function descriptions and diagrams.
Appendix B, page 165, Figure 8 for dimensional drawing.




Connection:



Digi-Set Binary Switch Operation:

0.1...102.3			1...1023			10...10,230		
OFF ► ON			OFF ► ON			OFF ► ON		
0.1	<input type="checkbox"/>		1	<input type="checkbox"/>		10	<input type="checkbox"/>	
0.2	<input type="checkbox"/>		2	<input type="checkbox"/>		20	<input type="checkbox"/>	
0.4	<input type="checkbox"/>		4	<input type="checkbox"/>		40	<input type="checkbox"/>	
0.8	<input type="checkbox"/>		8	<input type="checkbox"/>		80	<input type="checkbox"/>	
1.6	<input type="checkbox"/>		16	<input type="checkbox"/>		160	<input type="checkbox"/>	
3.2	<input type="checkbox"/>		32	<input type="checkbox"/>		320	<input type="checkbox"/>	
6.4	<input type="checkbox"/>		64	<input type="checkbox"/>		640	<input type="checkbox"/>	
12.8	<input type="checkbox"/>		128	<input type="checkbox"/>		1280	<input type="checkbox"/>	
25.6	<input type="checkbox"/>		256	<input type="checkbox"/>		2560	<input type="checkbox"/>	
51.2	<input type="checkbox"/>		512	<input type="checkbox"/>		5120	<input type="checkbox"/>	
6.3 S			544 S			3000 S		

Features:

- Switch settable time delay
 - Three time ranges from 0.1s - 10,230s
 - ±0.1% repeat accuracy
 - ±2% setting accuracy
 - 10A, DPDT output contacts
 - LED indication
- Approvals:   

Auxiliary Products:

- **Panel mount kit:** P/N: BZ1
- **Octal 8-pin socket:** P/N: NDS-8
- **Hold-down clips (sold in pairs):**
P/N: PSC8 (NDS-8)
- **DIN rail:** P/N: C103PM (AI)

Available Models:

TDI120AL	TDI24DL
TDI12D	TDIH24AL
TDI230AL	TDIL120AL
TDI24AL	TDIL24DL

If desired part number is not listed, please call us to see if it is technically possible to build.

Order Table:

- TDI - 1 - 1023s in 1s increments
- TDIH - 10 - 10,230s in 10s increments
- TDIL - 0.1 - 102.3s in 0.1s increments

<u>X</u>	<u>X</u>
Input Voltage	LED Indication*
<u>12D</u> - 12VDC	<u>L</u>
<u>24A</u> - 24VAC	
<u>24D</u> - 24VDC/28VDC	
<u>110D</u> - 110VDC	
<u>120A</u> - 120VAC	
<u>230A</u> - 230VAC	

* Note: LED not available in 12VDC

Specifications

Time Delay	
Type	Digital integrated circuitry
Range**	0.1 - 102.3s in 0.1s increments 1 - 1023s in 1s increments 10 - 10,230s in 10s increments
Repeat Accuracy	±0.1% or 20ms, whichever is greater
Setting Accuracy	±2% or 50ms, whichever is greater
Reset Time	≤ 50ms
Recycle Time	≤ 150ms
Time Delay vs Temp. & Voltage	±2%
Indicator	LED glows during timing; relay is energized
Input	
Voltage	12, 24, or 110VDC; 24, 120, or 230VAC
Tolerance	12VDC & 24VDC/AC -15% - 20% 110 to 230VAC/DC -20% - 10%
AC Line Frequency	50/60 Hz
Power Consumption	≤ 3.25W
Output	
Type	Electromechanical relay

Form	DPDT
Rating	10A resistive @ 120/240VAC & 28VDC; 1/3 hp @ 120/240VAC
Life	Mechanical - 1 x 10 ⁶ ; Electrical - 1 x 10 ⁶
Protection	
Polarity	DC units are reverse polarity protected
Isolation Voltage	≥ 1500V RMS input to output
Mechanical	
Mounting	Plug-in socket
Dimensions	3.2 x 2.4 x 1.8 in. (81.3 x 60.7 x 45.2 mm)
Termination	Octal 8-pin plug-in
Environmental	
Operating / Storage Temperature	-20° to 65°C / -30° to 85°C
Weight	≈ 6 oz (170 g)

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