

Interval (Single Pulse On Operate) TDIL, TDI, TDIH Digi-Set Time Delay Relay



5

- Switch Settable Time Delay
- Three Time Ranges from 100 ms ... 10,230 s
- +/-0.1% Repeat Accuracy
- +/-2% Setting Accuracy
- DPDT, 10 A Output Contacts
- LED Indication

Approvals:

Description

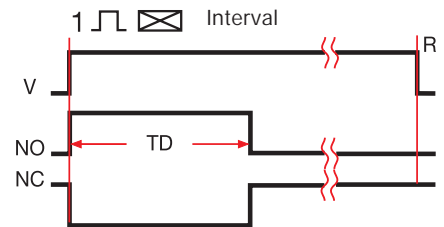
The TDI Series is an interval timer that combines accurate digital circuitry with isolated 10 A rated DPDT relay contacts in an 8 pin plug-in package. The TDI Series features DIP switch selectable time delays ranging from 100 milliseconds to 10,230 seconds in three ranges. The TDI Series is the product of choice for custom control panel and OEM designers.

Operation

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.

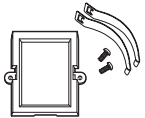
Reset: Removing input voltage resets the time delay and the output.

Function

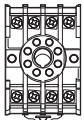


V = Voltage TD = Time Delay R = Reset
NO = Normally Open NC = Normally Closed
— = Undefined time

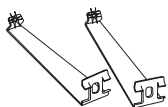
Accessories



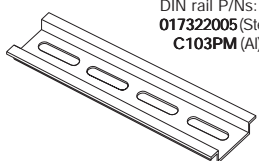
Panel mount kit
P/N: **BZ1**



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



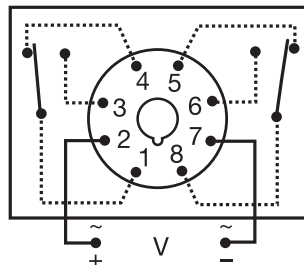
Hold down clips
P/N: **PSC8**



DIN rail P/Ns:
017322005 (Steel)
C103PM (Al)

See accessory pages for specifications.

Connection



Relay contacts are isolated. Dashed lines are internal connections.

Ordering Table

X	Series/Time Range
-	TDIL - 0.1 ... 102.3 s in 0.1 s increments
-	TDI - 1 ... 1023 s in 1 s increments
-	TDIH - 10 ... 10,230 s in 10 s increments

X	Input
-	12D - 12 V DC
-	24A - 24 V AC
-	24D - 24 V DC/28 V DC
-	110D - 110 V DC
-	120A - 120 V AC
-	230A - 230 V AC

X	LED Indication *
-	L

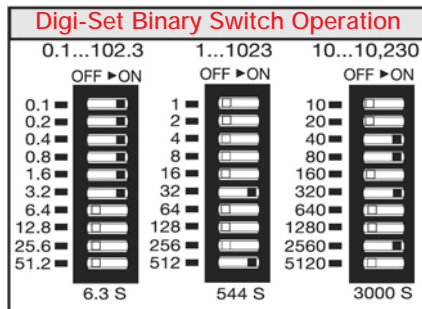
Example P/N: **TDIH24AL**

* Note: LED not available on 12 V DC units

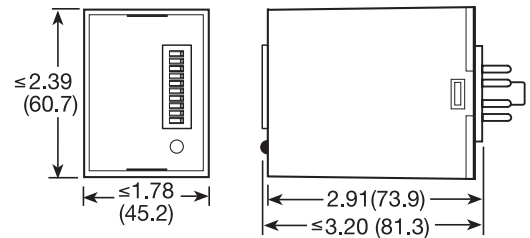
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Technical Data

Time Delay Type Range**	Digital integrated circuitry 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	**For CE approved applications, power must be removed from the unit when a switch position is changed.
Repeat Accuracy Setting Accuracy Reset Time Recycle Time Time Delay vs. Temperature & Voltage Indicator	+/-0.1% or 20 ms, whichever is greater +/-2% or 50 ms, whichever is greater ≤ 50 ms ≤ 150 ms +/-2% LED glows during timing; relay is energized	
Input Voltage Tolerance Frequency Power Consumption	12 V DC & 24 V DC/AC 110 ... 230 V AC/DC -15% ... +20% -20% ... +10% 50 ... 60 Hz ≤ 3.25 W	
Output Type Form Rating Life	Electromechanical relay Double pole double throw (DPDT) 10 A resistive at 120/240 V AC & 28 V DC; 1/3 hp at 120/240 V AC Mechanical -- 1 x 10 ⁷ ; Electrical -- 1 x 10 ⁶	
Protection Polarity Isolation Voltage	DC units are reverse polarity protected ≥ 1500 V RMS input to output	
Mechanical Mounting Package Termination	Plug-in socket 3.2 x 2.4 x 1.8 in. (81.3 x 60.7 x 45.2 mm) Standard octal plug (8 Pin)	
Environmental Operating Temperature Storage Temperature Weight	-20°C ... +65°C -30°C ... +85°C ≅ 6 oz (170 g)	



Mechanical View



Inches (Millimeters)