

Interval

TDIL, TDI, TDIH Digi-Set Time Delay Relay

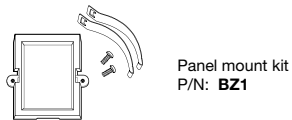


10 YEAR WARRANTY

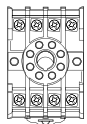
- Switch Settable Time Delay
- Three Time Ranges from 100 ms ... 10,230 s
- +/-0.1% Repeat Accuracy
- +/-2% Setting Accuracy
- DPDT, 10 A Output Contacts
- LED Indication

Approvals:

Accessories



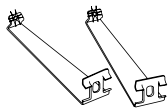
Panel mount kit
P/N: **BZ1**



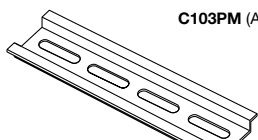
Octal
8 pin socket
P/N: **NDS-8**



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



DIN rail P/Ns:
C103PM (AI)



See accessory pages for specifications.

Description

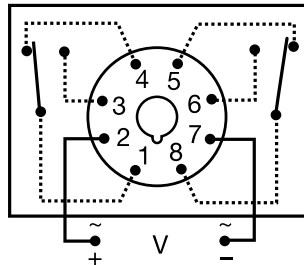
The TDI Series is an interval timer that combines accurate digital circuitry with isolated 10 A rated DPDT relay contacts in an 8 pin plug-in package. The TDI Series features DIP switch selectable time delays ranging from 100 milliseconds to 10,230 seconds in three ranges. The TDI Series is the product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

Connection



Relay contacts are isolated. Dashed lines are internal connections.

Available Models-

- | | | |
|------------|------------|----------|
| •TDI120AL | TDI12D | TDI24AL |
| TDI24DL | •TDIH120AL | TDIH24AL |
| •TDIL120AL | TDIL24DL | |

Don't see what you need? Call us for a minimum quantity and price quote!

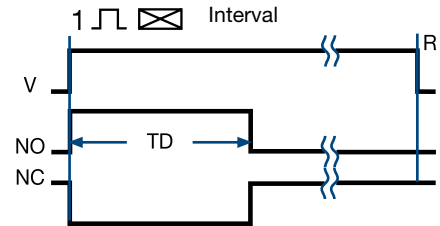
Ordering Table

X	Series/Time Range	X	Input	X	LED Indication *
-	TDIL - 0.1 ... 102.3 s in 0.1 s increments	-	12D - 12 V DC	-	L
-	TDI - 1 ... 1023 s in 1 s increments	-	24A - 24 V AC		
-	TDIH - 10 ... 10,230 s in 10 s increments	-	24D - 24 V DC/28 V DC		
		-	110D - 110 V DC		
		-	120A - 120 V AC		
		-	230A - 230 V AC		

Example P/N: **TDIH24AL**

* Note: LED not available on 12 V DC units

Function



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

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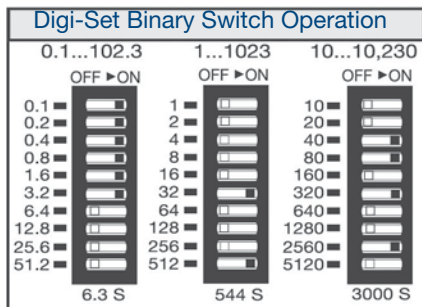
Time Delay Relay

Dedicated
timers

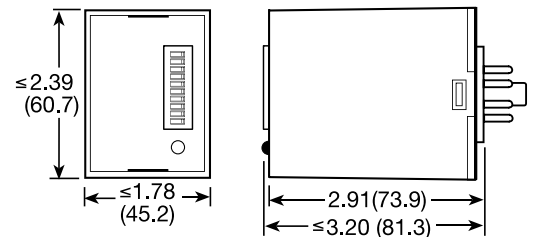
Technical Data

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

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Mechanical View



Inches (Millimeters)