

TDM, TDI, TDS, TDB Series

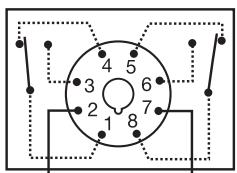
Digi-Set

Time Delay Relay



- Switch Setable Time Delays
- $\pm 0.1\%$ Repeat Accuracy
- Delays from 100 ms ... 2.8 h in 3 Ranges
- AC and DC Input Voltages
- Isolated 10 A Relay Contacts
- Plug-In Connection - LED Indication

TDM... Delay On Make



TDI... Interval

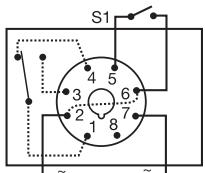
A

8-Pin Octal DPDT*

*Dash Lines Are Internal Connections.
Relay Contacts Are Isolated.

The TD Series of time delay relays are comprised of digital circuitry and a separate oscillator to provide high accuracy and stability. The delay is selected by means of ten binary switches, which allow the setting of the desired delay the first time and every time. Full 10 ampere isolated output contacts.

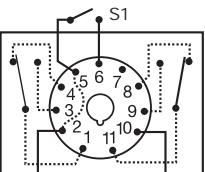
TDS... Single Shot



TDB... Delay On Break

B

8-Pin Octal SPDT*

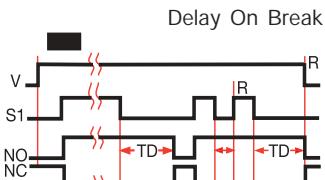
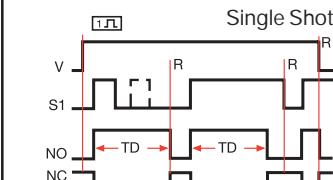
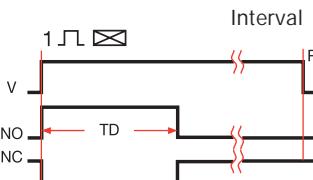
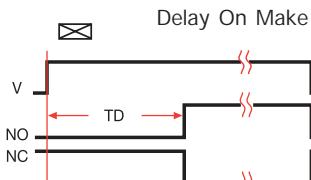


11-Pin DPDT*

C

Voltage	Tolerance Frequency	Time Range	Part Numbers				Part Numbers			
			Delay On Make	Diagram	Interval	Diagram	Single Shot	Diagram	Delay On Break	Diagram
12 V DC	+20% -15%	0.1 ... 102.3 s	TDML12DL	A	Call for 230 V AC, 110 V DC and combinations not listed					
24 V DC	+20% -15%	0.1 ... 102.3 s	TDM12DL	A						
24 V AC	50 ... 60 Hz	1 ... 1023 s	TDM24DL	A	TDI24DL	A	TDS24DL	B	TDB24DL	B
120 V AC	+10% -20%	0.1 ... 102.3 s	TDM120AL	A	TDI120AL	A	TDSL120AL	B	TDBL120AL	B
		0.1 ... 102.3 s					TDSL120ALD	C	TDBL120ALD	C
	50 ... 60 Hz	1 ... 1023 s	TDM120AL	A	TDI120AL	A	TDS120AL	B	TDB120AL	B
		10 ... 10230 s	TDMH120AL	A	TDIH120AL	A	TDS120ALD	C	TDB120ALD	C
							TDSH120AL	B	TDBH120AL	B

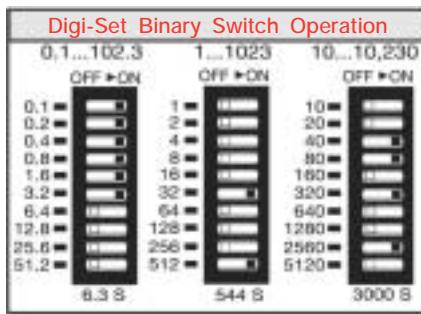
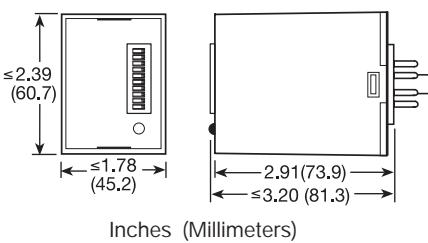
Time Diagrams



Specifications

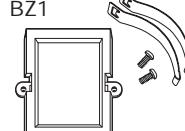
Repeat Accuracy	TDM & TDI $\pm 0.1\%$ or ± 8.3 ms, whichever is greater	TDS & TDB $\pm 0.1\%$
Setting Accuracy	$\pm 2\%$ or 50 ms, whichever is greater	
Reset Time		≤ 50 ms
Recycle Time	TDMH ≤ 500 ms	TDI, TDS & TDB ≤ 150 ms
Initiate Time		TDS & TDB - 60 ms
Time Delay vs. Temperature and Voltage		$\pm 2\%$
Input : - Power Consumption	TDM ≤ 2.25 Watts max.	TDI, TDS & TDB ≤ 3.25 Watts
Output : - Rating		10A resistive at 28 V DC & 240 V AC
- Life : Mechanical / Full Load		1/3 hp at 120 & 240 V AC
- Status indication	LED glows during timing	1×10^7 operations / 1×10^6 operations
Termination	8-Pin Octal plug	8-Pin Octal plug or 11-Pin Magnal plug
Operating Temperature / Storage Temperature		-20°C to +65°C / -30°C to +85°C

Mechanical



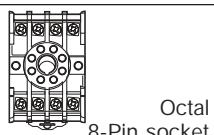
Accessories

Panel mount kit
P/N: BZ1



Hold down clips
P/N: PSC8 (NDS 8)
PSC11 (NDS 11)

11-Pin
socket
P/N: NDS 11



Octal
8-Pin socket
P/N: NDS 8

See accessory pages for specifications.

** TDM, TDS, TDB 8 pin models used in combination with P1011 6 socket only