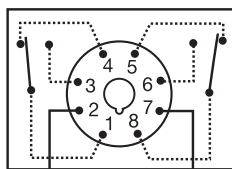


TDM, TDI, TDS, TDB Series Digi-Set Time Delay Relay



- Switch Setable Time Delays
- +/-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



8-Pin Octal DPDT*

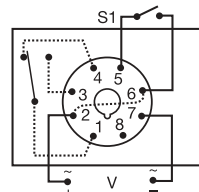
*Dash Lines Are Internal Connections.
Relay Contacts Are Isolated.

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.

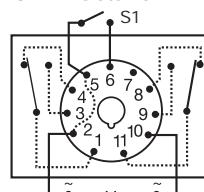
TDI... Interval

TDS... Single Shot

TDB... Delay On Break



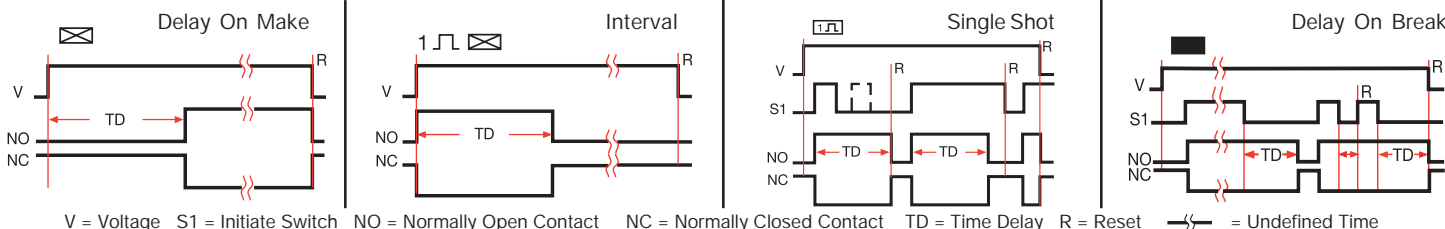
8-Pin Octal SPDT*



11-Pin DPDT*

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					
		1 ... 1023 s	TDM12DL	A						
24 V DC	+20% -15%	0.1 ... 102.3 s	TDML24DL	A						
		1 ... 1023 s	TDM24DL	A						
24 V AC	50 ... 60 Hz	0.1 ... 102.3 s	TDM24AL	A	TDI24DL	A	TDS24DL	B	TDB24DL	B
		1 ... 1023 s	TDM24AL	A	TDI24AL	A	TDS24AL	B	TDB24AL	B
120 V AC	+10% -20% 50 ... 60 Hz	0.1 ... 102.3 s	TDML120AL	A	TDI120AL	A	TDSL120AL	B	TDBL120AL	B
		0.1 ... 102.3 s					TDSL120ALD	C	TDBL120ALD	C
		1 ... 1023 s	TDM120AL	A	TDI120AL	A	TDS120AL	B	TDB120AL	B
		1 ... 1023 s					TDS120ALD	C	TDB120ALD	C
		10 ... 10230 s	TDMH120AL	A	TDIH120AL	A	TDSH120AL	B	TDBH120AL	B

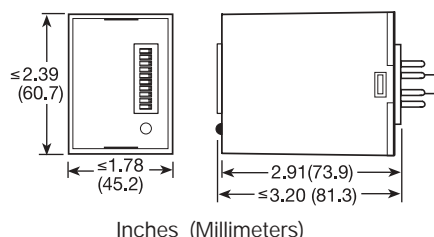
Time Diagrams



Specifications

Repeat Accuracy	TDM & TDI +/- 0.1% or +/- 8.3 ms, whichever is greater	TDS & TDB +/- 0.1%
Setting Accuracy	+/- 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	+/- 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 1/3 hp at 120 & 240 V AC	
- Life : Mechanical / Full Load	1 x 10 ⁷ operations / 1 x 10 ⁶ operations	
- Status indication	LED glows during timing	LED glows during timing and indicates relay energized
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	

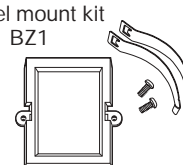
Mechanical



Digi-Set Binary Switch Operation		
0.1...102.3	1...1023	10...10,230
OFF → ON	OFF → ON	OFF → ON
0.1	1	10
0.2	2	20
0.4	4	40
0.8	8	80
1.6	16	160
3.2	32	320
6.4	64	640
12.8	128	1280
25.6	256	2560
51.2	512	5120
8.3 s	544 s	3000 s

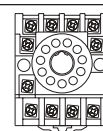
Accessories

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