

Delay On Break (Release) TDBL, TDB, TDBH Digi-Set Time Delay Relay



10 YEAR WARRANTY

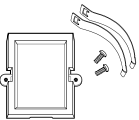
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- Switch Settable Time Delay
- Three Time Ranges from 100 ms ... 10,230 s
- +/-0.1% Repeat Accuracy
- +/-2% Setting Accuracy
- SPDT or DPDT, 10 A Output Contacts
- LED Indication

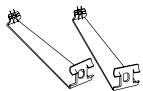
Approvals:

***8 pin models used in combination with P1011-6 socket only.

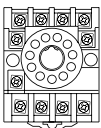
Accessories



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



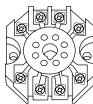
Hold down clips
P/Ns:
PSC8 (NDS-8)
PSC11 (NDS-11)



11 pin socket
P/N: **NDS-11**



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



Octal socket
for UL Listing
P/N: **P1011-6**

See accessory pages for specifications.

Description

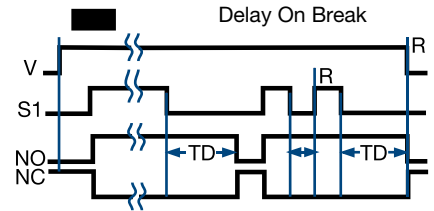
The TDB Series combines accurate digital circuitry with isolated 10 A rated DPDT or SPDT relay contacts in an 8 or 11 pin plug-in package. The TDB Series features DIP switch selectable time delays ranging from 100 milliseconds to 10,230 seconds in three ranges. The TDB Series is the product of choice for custom control panel and OEM designers.

Operation

Input voltage must be applied to the input before and during timing. Upon closure of the initiate switch, the output relay is energized. The time delay begins when the initiate switch is opened (trailing edge triggered). The output remains energized during timing. At the end of the time delay, the output de-energizes. The output will energize if the initiate switch is closed when input voltage is applied.

Reset: Reclosing the initiate switch during timing resets the time delay. Loss of input voltage resets the time delay and output.

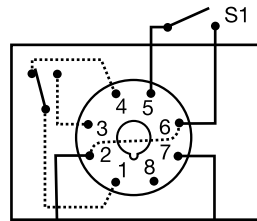
Function



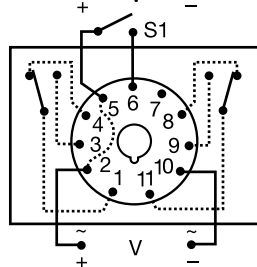
S1 = Initiate Switch V = Voltage R = Reset
NO = Normally Open NC = Normally Closed
TD = Time Delay

— = Undefined time

Connection



8 Pin Octal
SPDT



S1 = Initiate Switch
Relay contacts are isolated. Dashed lines are internal connections.

11 Pin
DPDT

Available Models-

- | | | |
|------------|-------------|-------------|
| •TDB120AL | •TDB120ALD | •TDB12D |
| •TDB12DD | •TDB230AL | •TDB24AL |
| •TDB24DL | •TDBH120AL | •TDBH120ALD |
| •TDBH12D | •TDBH24AL | •TDBL110DL |
| •TDBL120AL | •TDBL120ALD | •TDBL24DL |

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

Ordering Table

X	X	X	X
Series/Time Range	Input	LED*	Type Plug/Output Form
- TDBL - 0.1 ... 102.3 s in 0.1 s increments	- 12D - 12 V DC	- L	- D - 11 Pin Plug, DPDT
- TDB - 1 ... 1023 s in 1 s increments	- 24A - 24 V AC		Blank - Octal (8 Pin)
- TDBH - 10 ... 10,230 s in 10 s increments	- 24D - 24 V DC/28 V DC		Plug, SPDT
	- 110D - 110 V DC		
	- 120A - 120 V AC		
	- 230A - 230 V AC		

Example P/N: **TDB120AL**

* Note: LED not available on 12 V DC units

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Dedicated
timers

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 Initiate Time	+/-0.1% or 20 ms, whichever is greater +/-2% or 50 ms, whichever is greater ≤ 50 ms ≤ 150 ms +/-5% LED indicates relay is energized ≤ 60 ms	
Input Voltage Tolerance Frequency Power Consumption	12, 24, or 110 V DC; 24, 120, or 230 V AC -15% ... +20% -20% ... +10% 50 ... 60 Hz ≤ 3.25 W	
Output Type Form Rating Life	Electromechanical relay SPDT or 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 Isolation Voltage Polarity	≥ 1500 V RMS input to output DC units reverse polarity protected	
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) or 11 Pin plug-in	
Environmental Operating Temperature Storage Temperature Weight	-20°C ... +65°C -30°C ... +85°C ≅ 6 oz (170 g)	

5

Mechanical View

