

8-pin octal

SPDT

S1 = Initiate Switch

11-pin

DPDT

The TDB Series combines accurate digital circuitry with isolated, 10A, DPDT or SPDT contacts in an 8 or 11-pin plug-in package. The TDB Series features DIP switch selectable time delays ranging from 0.1-10,230 seconds in three ranges. The TDB Series is the product of choice for custom control panel and OEM designers.

Operation (Delay-on-Break):

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.

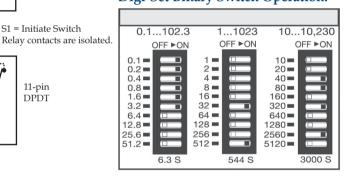
Reset: Reclosing the initiate switch during timing resets the time delay. Loss of input voltage resets the time delay and output.

For more information see:

Appendix A, pages 156-164 for function descriptions and diagrams.

Appendix B, page 165, Figure 8 for dimensional drawing.

Digi-Set Binary Switch Operation:



Features:

- Switch settable time delay
- Three time ranges from 0.1s 10,230s
- ±0.1% repeat accuracy
- ±2% setting accuracy
- 10A, SPDT or DPDT output contacts
- LED indication



8-pin models UL listed when used in combination with P1011-6 socket only.

Auxiliary Products:

- Panel mount kit: P/N: BZ1
- Hold-down clips (sold in pairs): P/N: PSC8 (NDS-8) P/N: 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

Available Models:

TDB120AL TDBH120AL TDB120ALD TDBH120ALD TDB12D TDBH24AL TDB230AL TDBL120AL TDB24AL TDBL120ALD TDB24DL TDBL24DL

If desired part number is not listed, please call us to see if it is technically possible to build.

Order Table:

Connection:

TDB - 1 - 1023s in 1s increments TDBH - 10 - 10,230s in 10s increments TDBL - 0.1 - 102.3s in 0.1s increments

N/L2

Input Voltage LED* Type Plug/Output Form D - 11-pin plug, DPDT -12D - 12VDČ -24A - 24VAC -Blank - Octal (8-pin) plug, SPDT -24D - 24VDC/28VDC -110D - 110VDC -120A - 120VAC *Note: LED not available

on 12VDC units.

Time Delay Type	
Repeat Accuracy	
Setting Accuracy	
Reset Time	
Recycle Time	.≤150ms
Time Delay vs Temp. & Voltage	.±5%
Indicator	. LED indicates relay is energized
Initiate Time	.≤60ms
Input	
Voltage	.12, 24/28, or 110VDC; 24, 120, or 230VAC
Tolerance 12VDC & 24VDC/AC	15% - 20%
110 to 230VAC/DC	20% - 10%
AC Line Frequency	.50/60 Hz
Power Consumption	.≤3.25W
=	

-230A - 230VAC

Output	
Type	.Electromechanical relay
Form	.SPDT or DPDT
Rating	.10A resistive @ 120/240VAC & 28VDC;
0	1/3 hp @ 120/240VAC
Life	.Mechanical - 1 x 10 ⁷ ; Electrical - 1 x 10 ⁶
Protection	
Isolation Voltage	.≥ 1500V RMS input to output
Polarity	
Mechanical	1 71
Mounting	.Plug-in socket
Dimensions	
Termination	
Environmental	1 1 0 1 1 0
Operating / Storage Temperature	20° to 65°C / -30° to 85°C
Weight	

^{**} For CE approved applications, power must be removed from the unit when a switch position is changed.