

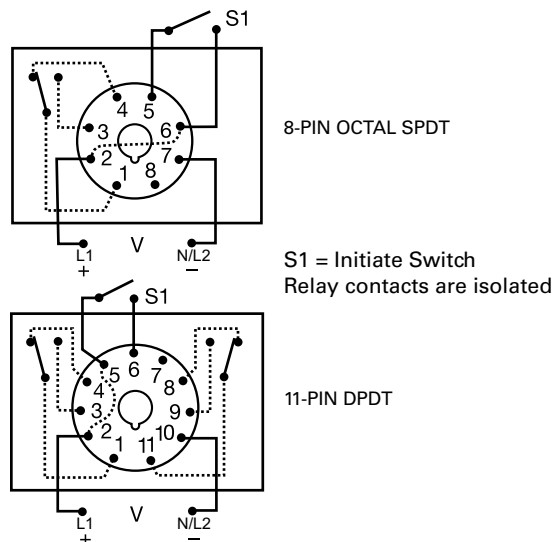
Time Delay Relays

DELAY-ON-BREAK

TDB / TDBH / TDBL Series



Wiring Diagram



Description

The TDB series combines accurate digital circuitry with isolated, 8 A, DPDT or SPDT contacts in an 8-pin 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.

Features & Benefits

FEATURES	BENEFITS
3 time ranges available (0.1 s to 2.8 h)	Makes it versatile for use in many applications
Microcontroller based	Repeat Accuracy +/- 0.1 %; Setting Accuracy +/- 2 %
LED indication (select models)	Provides visual indication of relay status
Dip switch adjustment	Provides first time setting accuracy
Isolated output contacts	Allows control of loads with independent voltage sources

Ordering Information

MODEL	INPUT VOLTAGE	DELAY RANGE (SEC)	LED	TYPE PLUG/OUTPUT FORM
TDB120AL	120 V ac	1–1023 in 1 s increments	X	Octal (8-pin) plug, SPDT
TDB120ALD	120 V ac	1–1023 in 1 s increments	X	11-pin plug, DPDT
TDB12D	12 V dc	1–1023 in 1 s increments		Octal (8-pin) plug, SPDT
TDB230AL	230 V ac	1–1023 in 1 s increments	X	Octal (8-pin) plug, SPDT
TDB24AL	24 V ac	1–1023 in 1 s increments	X	Octal (8-pin) plug, SPDT
TDB24DL	24 V dc/ 28 V dc	1–1023 in 1s increments	X	Octal (8-pin) plug, SPDT
TDBH120AL	120 V ac	10–10230 in 10 s increments	X	Octal (8-pin) plug, SPDT
TDBH120ALD	120 V ac	10–10230 in 10 s increments	X	11-pin plug, DPDT
TDBL120AL	120 V ac	0.1–102.3 in 0.1 s increments	X	Octal (8-pin) plug, SPDT
TDBL120ALD	120 V ac	0.1–102.3 in 0.1 s increments	X	11-pin plug, DPDT
TDBL24DL	24 V dc/ 28 V dc	0.1–102.3 in 0.1 s increments	X	Octal (8-pin) plug, SPDT

