

TDS / TDSH / TDSL SERIES

Relay Output, Single Shot Time Delay Relay



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



8-PIN



11-PIN

Description

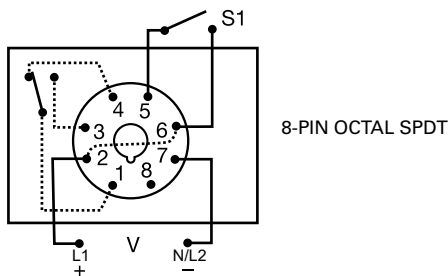
The TDS Series combines accurate digital circuitry with isolated, 10A rated, DPDT or SPDT relay contacts in an 8-pin or 11-pin plug-in package. The TDS Series features DIP switch selectable time delays ranging from 0.1s to 10,230s in three ranges. The TDS Series is the product of choice for custom control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

Operation (Single Shot)

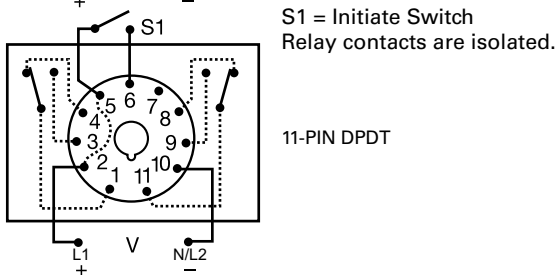
Input voltage must be applied to the input before and during timing. Upon momentary or maintained closure of the initiate switch (leading edge triggered), the output relay energizes for a measured interval of time. At the end of the delay, the output de-energizes. Opening or reclosing the initiate switch during timing has no effect on the time delay. The output will energize if the initiate switch is closed when input voltage is applied.

Reset: Reset occurs when the time delay is complete and the initiate switch is opened. Loss of input voltage resets the time delay and output.

Wiring Diagram



8-PIN OCTAL SPDT



S1 = Initiate Switch
Relay contacts are isolated.

11-PIN DPDT

Features & Benefits

| FEATURES | BENEFITS |
|---|---|
| 3 time ranges available (0.1s to 2.8h) | Makes it versatile for use in many applications |
| Microcontroller based | Repeat Accuracy +/- 0.1% or 20ms, whichever is greater; Setting Accuracy +/- 2% or 50ms, whichever is greater |
| 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 for AC or DC voltages |

Ordering Information

| MODEL | INPUT VOLTAGE | DELAY RANGE (SEC) | LED | PLUG TYPE/OUTPUT FORM |
|-----------|---------------|------------------------------|-----|--------------------------|
| TDS120AL | 120VAC | 1-1023 in 1s increments | X | Octal (8-pin) plug, SPDT |
| TDS120ALD | 120VAC | 1-1023 in 1s increments | X | 11-pin plug, DPDT |
| TDS12D | 12VDC | 1-1023 in 1s increments | | Octal (8-pin) plug, SPDT |
| TDS230AL | 230VAC | 1-1023 in 1s increments | X | Octal (8-pin) plug, SPDT |
| TDS24AL | 24VAC | 1-1023 in 1s increments | X | Octal (8-pin) plug, SPDT |
| TDSH120AL | 120VAC | 10-10230 in 10s increments | X | Octal (8-pin) plug, SPDT |
| TDSL120AL | 120VAC | 0.1-102.3 in 0.1s increments | X | Octal (8-pin) plug, SPDT |
| TDSL12D | 12VDC | 0.1-102.3 in 0.1s increments | | Octal (8-pin) plug, SPDT |

If you don't find the part you need, call us for a custom product 800-843-8848

TDS / TDSH / TDSL SERIES

Accessories



BZ1 Front Panel Mount Kit
Provides an easy method of through-the-panel mounting of 8- or 11-pin plug-in timers, flashers, and other controls.



NDS-8 Octal 8-pin Socket
8-pin 35mm DIN rail or surface mount. Rated at 10A @ 300VAC. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. Uses PSC8 hold-down clips.



NDS-11 11-pin Socket
11-pin 35mm DIN rail or surface mount. Rated at 10A @ 300VAC. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. Uses PSC11 hold-down clips.



PSC8 or PSC11 Hold-down Clips
Securely mounts plug-in controls in any position. Provides protection against vibration. Use PSC8 with NDS-8 Octal Socket or PSC11 with NDS-11 Socket. Sold in pairs.



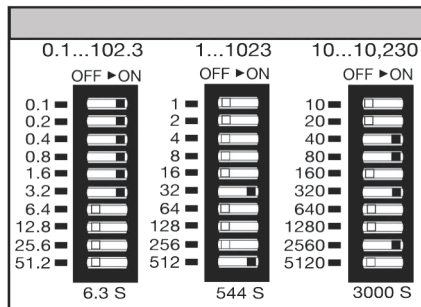
PSCRB8 Hold-down Brackets
Designed for use with P1011-6 socket. Securely mounts 8-pin plug-in controls in any position, and provides protection against vibration. Sold in pairs.



P1011-6 Octal Socket for UL listing*
8-pin surface mount socket with binder head screw terminals. Rated 10A @ 600VAC. Uses PSCRB8 Hold-down Brackets.

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Digi-Set Binary Switch Operation



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

Specifications

Time Delay
Type
Range**

Digital integrated circuitry
0.1 - 102.3s in 0.1s increments
1 - 1023s in 1s increments
10 - 10,230s in 10s increments

Repeat Accuracy
Setting Accuracy
Reset Time
Recycle Time
Time Delay vs Temp. & Voltage

±0.1% or 20ms, whichever is greater
±2% or 50ms, whichever is greater
≤ 50ms
≤ 150ms
±5%

Indicator
Initiate Time

LED glows during timing; relay is energized
≤ 60ms

Input
Voltage

12, 24/28, or 110VDC; 24, 120, or 230VAC

Tolerance
12VDC & 24VDC/AC
110 to 230VAC/DC
AC Line Frequency
Power Consumption

-15% - 20%
-20% - 10%
50/60 Hz
≤ 3.25W

Output

Electromechanical relay

Type

SPDT or DPDT

Form

10A resistive @ 120/240VAC & 28VDC;
1/3 hp @ 120/240VAC

Rating

Life

Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

Protection

≥ 1500V RMS input to output

Isolation Voltage

DC units are reverse polarity protected

Polarity

Mechanical

Plug-in socket

Mounting

Termination

Octal 8-pin plug-in or 11-pin plug-in

Dimensions

H 81.3 mm (3.2"); **W** 60.7 mm (2.39");
D 45.2 mm (1.78")

Environmental

Operating/Storage

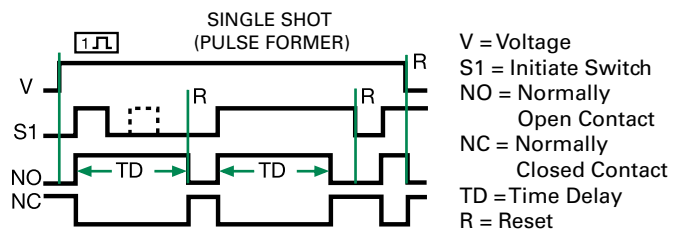
Temperature

-20° to 65°C/-30° to 85°C

Weight

≈ 6 oz (170 g)

Function Diagram



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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