

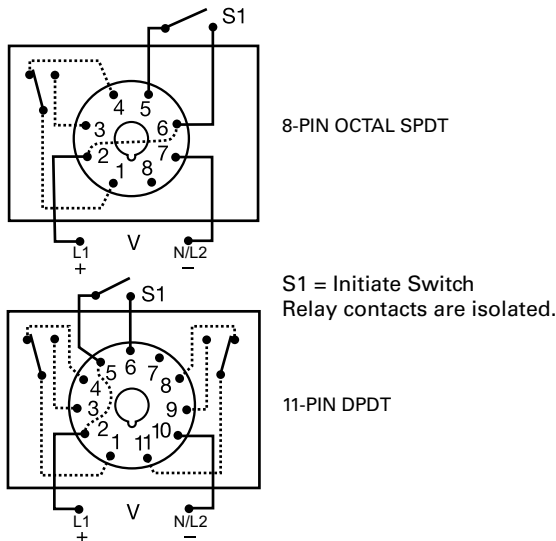
Time Delay Relays

SINGLE SHOT

TDS / TDSH / TDSL Series
Relay Output, Single Shot Time Delay Relay



Wiring Diagram



Description

The TDS series combines accurate digital circuitry with isolated, 8 A 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 10,230 s 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.

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 | PLUG TYPE/OUTPUT FORM |
|-----------|---------------|-------------------------------|-----|--------------------------|
| TDS120AL | 120 V ac | 1–1023 in 1 s increments | X | Octal (8-pin) plug, SPDT |
| TDS120ALD | 120 V ac | 1–1023 in 1 s increments | X | 11-pin plug, DPDT |
| TDS12D | 12 V dc | 1–1023 in 1 s increments | | Octal (8-pin) plug, SPDT |
| TDS230AL | 230 V ac | 1–1023 in 1 s increments | X | Octal (8-pin) plug, SPDT |
| TDS24AL | 24 V ac | 1–1023 in 1 s increments | X | Octal (8-pin) plug, SPDT |
| TDSH120AL | 120 V ac | 10–10230 in 10 s increments | X | Octal (8-pin) plug, SPDT |
| TDSL120AL | 120 V ac | 0.1–102.3 in 0.1 s increments | X | Octal (8-pin) plug, SPDT |

Time Delay Relays

SINGLE SHOT

Accessories



OT08PC 8-pin Octal Socket for UL listing*
8-pin 35 mm DIN-rail or surface mount. Rated at 10 A @ 600 V ac. Surface mounted with two #6 screws or snaps onto a 35 mm DIN rail.

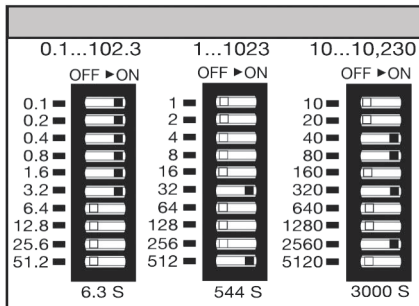


OT11PC Octal Socket for UL listing*
11-pin surface & DIN rail mountable. Rated for 10 A @ 300 V ac

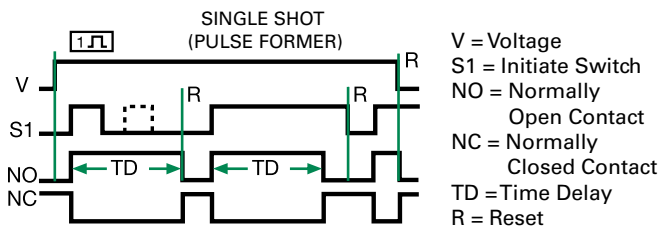


P1011-6 Octal Socket for UL listing*
8-pin surface mount socket with binder head screw terminals. Rated 10 A @ 600 V ac.

Digi-Set Binary Switch Operation



Function Diagram



Specifications

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

Repeat Accuracy

Setting Accuracy
Reset Time
Time Delay vs Temp. & Voltage

±0.1 %
±2 %
≤ 150 ms

Indicator

Initiate Time
Input

±5 %
LED glows during timing; relay is energized
≤ 60 ms

Voltage

12 V dc; 24, 120, or 230 V ac

Tolerance

12 V dc & 24 V

-15 %–20 %

120 & 230 V ac

-20 %–10 %

AC Line Frequency

50/60 Hz

Power Consumption

≤ 3.25W

Output

Type

Electromechanical relay

Form

SPDT or DPDT

Rating

8 A resistive @ 120/240 V ac

1/3 hp @ 120/240 V ac

Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

Life

Protection

Isolation Voltage

≥ 1500 V rms input to output

Polarity

Dc units are reverse polarity protected

Mechanical

Mounting

Plug-in socket

Termination

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

Dimensions

H 44.45 mm (1.75"); **W** 60.33 mm (2.38");

D (with socket) 104.78 mm (4.13")

Environmental

Operating/Storage

Temperature

-20 °C to 65 °C/-30 °C to 85 °C

Weight

≈ 4 oz (113 g)

Safety Marks

UL (socket required)*

UL 508 (E57310)

*UL Listed when used with Part Number OT08-PC, RB08-PC, OT11-PC, or RB11-PC manufactured by Custom Connector Corp.

Note: Manufacturer's recommended screw terminal torque for the OT Series sockets is 12 in-lbs.

Disclaimer Notice – Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/product-disclaimer.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Littelfuse\(美国力特\)](#)