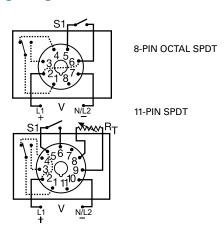
TRS Series





Wiring Diagram



Description

The TRS series combines an isolated, 8 A electromechanical, relay output with digital timing circuitry. False trigger of the TRS series by a transient is unlikely because of the complete isolation of the circuit from the line prior to initiation. The initiate contact is common to one side of the line and may be utilized to operate other loads. Installation is easy due to the TRS's industry standard 8 or 11-pin plug-in base wiring.

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 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 affect on the time delay. Applying input voltage with the initiate switch closed will energize the load and begin the time delay.

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 |
|---|--|
| Complete isolation of circuit from line | No false trip due to transients |
| Industry standard octal plug connection | Eliminates need for special connectors |
| Isolated, 8 A, SPDT output contacts | Allows control of loads with independent voltage sources |
| Digital circuitry | Repeat accuracy +/- 2 % |

Ordering Information

| MODEL | INPUT VOLTAGE | ADJUSTMENT | OUTPUT FORM | TIME TOLERANCE | TIME DELAY |
|--------------|-----------------|------------|----------------------------------|----------------|------------|
| TRS120A2X300 | 120 V ac | Knob | 8-Pin, Octal, SPDT | +/- 20 % | 7–300 s |
| TRS120A2Y10 | 120 V ac | Knob | 8-Pin, Octal, SPDT | +/- 10 % | 0.1–10 s |
| TRS24D7Z10 | 24 V dc/28 V dc | External | 11-Pin, SPDT no potentiometer | +/- 5 % | 0.1–10 s |



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.



P0700-7 Versa-Knob

Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.



P1004-95, P1004-95-X Versa-Pot

Panel mountable, industrial potentiometer recommended for remote time delay adjustment.



C103PM (AL) DIN Rail

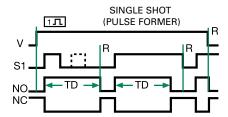
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

Selection Guide

| External R _T P/N Selection Table | | | |
|---|---------------|--|--|
| VALUE | PART NUMBER** | | |
| 100K ohm | P1004-95 | | |
| 100K ohm | P1004-95-X | | |

^{**} Externally adjustable potentiometers. Numbers with additional "-X" include two pre-soldered 8" wire leads with 1/4" female quick-connect terminals (for clockwise increase).

Function Diagram



V = Voltage

S1 = Initiate Switch

NO = Normally
Open Contact

NC = Normally Closed Contact

TD =Time Delay R = Reset

Specifications

Time Delay

Type Digital circuitry

Range See "Ordering Information" table

Repeat Accuracy $\pm 2~\%$

Fixed Time Tolerance &

Time Delay vs Temp.

& Voltage $\leq \pm 5 \%$

Input

Voltage 24/28 V dc; 24, 120 V ac

Tolerance

Output

Type Electromechanical relay
Form Isolated SPDT or DPDT
Rating 8 A resistive @ 120/240 V ac;

1/3 hp @ 120/240 V ac

Life Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

Protection

Insulation Resistance $\geq 100 \text{ M}\Omega$

Isolation Voltage ≥ 1500 V rms between input & output

terminals

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 $-20 \,^{\circ}\text{C}$ to 65 $^{\circ}\text{C}/-30 \,^{\circ}\text{C}$ to 85 $^{\circ}\text{C}$

Weight $\approx 4 \text{ oz } (113 \text{ g})$

Safety Marks

UL (socket required)* 4 oz (113 g)

*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.