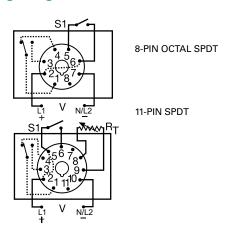
TRS Series





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

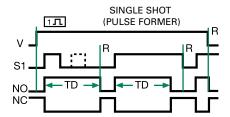
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

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

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 &

 $\begin{array}{lll} \textbf{Setting Accuracy} & \pm 5, \ 10, \ \text{or} \ 20 \ \% \\ \textbf{Initiate Time} & \leq 70 \ \text{ms} \\ \textbf{Reset Time} & \leq 75 \ \text{ms} \\ \textbf{Recycle Time} & \leq 250 \ \text{ms} \\ \end{array}$

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

erminals

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

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.

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