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TRS SERIES

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


8-PIN


11-PIN

Description

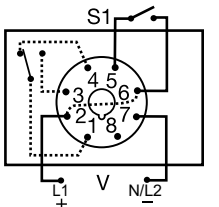
The TRS Series combines an isolated, 10A electromechanical, relay output with analog timing circuitry. False trigger of the TRS Series by a transient is unlikely because of the complete isolation of the circuit from the line prior to initiation. The initiate contact is common to one side of the line 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)

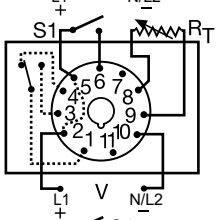
Input voltage must be applied to the input before and during timing. Upon momentary or maintained closure of the initiate switch (leading edge triggered), the output energizes for a measured interval of time. At the end of the delay, the output de-energizes. Opening or reclosing the initiate switch during 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.

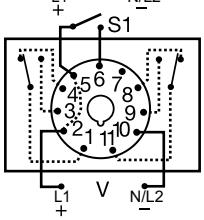
Wiring Diagram



8-PIN OCTAL SPDT



11-PIN SPDT



11-PIN DPDT

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, 10A, SPDT or DPDT output contacts	Allows control of loads for AC or DC voltages
Analog circuitry	Repeat accuracy + / - 2%

Ordering Information

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

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TRS SERIES

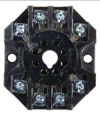
Accessories

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. Surface mounted with two #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. Surface mounted with two #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 sets of two.



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

P0700-7 Versa-Knob
Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.

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

Selection Guides

R_T Selection Chart	
Time Delay*	
Range Seconds	R_T Megohm
0.05...1	1.0
0.05...2	2.0
0.05...3	3.0
0.1...5	5.0
0.1...10	3.0
1...30	1.5
1...60	3.0
2...120	2.0
2...180	3.0
7...240	1.5
7...300	2.0
7...360	2.0
7...420	3.0
7...480	3.0
7...600	5.0

* When selecting an external R_T add at least 15...30% for tolerance of unit and the R_T.

External R_T P/N Selection Table	
VALUE	PART NUMBER*
1M ohm	P1004-16
1.5M ohm	P1004-15
2M ohm	P1004-14
3M ohm	P1004-12
5M ohm	P1004-13
1M ohm	P1004-16-X
1.5M ohm	P1004-15-X
2M ohm	P1004-14-X
3M ohm	P1004-12-X
5M ohm	P1004-13-X

* Externally adjustable potentiometers. Numbers with additional "-X" include two pre-soldered 8" wire leads with ¼" female quick-connect terminals (for clockwise increase).

Specifications

Time Delay

Type	Analog circuitry
Range	0.05s - 10m in 15 adjustable ranges or fixed
Repeat Accuracy	±2% or 20ms, whichever is greater
Fixed Time Tolerance & Setting Accuracy	±5, 10, or 20%
Initiate Time	≤ 70ms
Reset Time	≤ 75ms
Recycle Time	≤ 250ms
Time Delay vs Temp. & Voltage	≤±10%

Input

Voltage	24/28 or 110VDC; 24, 120, or 230VAC
Tolerance	
24VDC/AC	-15% - 20%
110 to 230VAC/DC	-20% - 10%
AC Line Frequency	50/60 Hz
Power Consumption	≤ 3.25W

Output

Type	Electromechanical relay
Form	Isolated SPDT or DPDT
Rating	10A resistive @ 120/240VAC & 28VDC; 1/3 hp @ 120/240VAC
Life	Mechanical - 1 x 10^7; Electrical - 1 x 10^6

Protection

Insulation Resistance	≥ 100 MΩ
Isolation Voltage	≥ 1500V RMS between input & output terminals
Polarity	DC units are reverse polarity protected

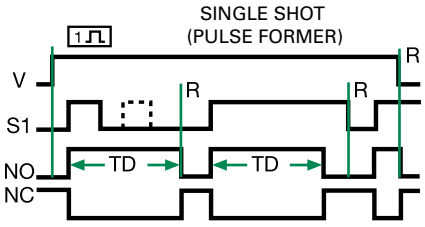
Mechanical

Mounting	Plug-in socket
Termination	Octal 8-pin plug-in or 11-pin plug-in
Dimensions	**H** 60.7 mm (2.39"); **W** 45.2 mm (1.78") **D** 91.6 mm (3.62")

Environmental

Operating/Storage Temperature	-20° to 65°C/-30° to 85°C
Weight	≅ 6 oz (170 g)

Function Diagram



V = Voltage
S1 = Initiate Switch
NO = Normally Open Contact
NC = Normally Closed Contact
TD = Time Delay
R = Reset