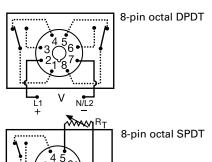
TRM Series





Wiring Diagram



V = Voltage

R_T is used when external adjustment is ordered. Relay contacts are isolated.

Description

The TRM series is a combination of digital electronic circuitry and electromechanical relay output. It provides input to output isolation with a wide variety of input voltages and time ranges. Standard plug-in base wiring, fast reset, rugged enclosure, and good repeat accuracy make the TRM a select choice in any OEM application.

Operation (Delay-on-Make)

Upon application of input voltage, the time delay begins. The output is de-energized before and during the time delay. At the end of the time delay, the output relay energizes and remains energized until input voltage is removed.

Reset: Removing input voltage resets the time delay and output.

Features & Benefits

FEATURES	BENEFITS
Electronic circuitry with electromechanical relay	Repeat Accuracy +/- 2 %
Isolated 8 A, SPDT or DPDT output contacts	Allows control of loads with independent voltage sources.

Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	OUTPUT	TIME TOLERANCE	TIME DELAY
TRM120A2X30	120 V ac	Knob	Octal, DPDT	+/- 20%	1–30 s
TRM120A2Y120	120 V ac	Knob	Octal, DPDT	+/- 10%	2–120 s
TRM120A2Y180	120 V ac	Knob	Octal, DPDT	+/- 10%	2–180 s
TRM24A8Y5	24 V ac	External	Octal, SPDT without potentiometer	+/- 10%	0.1–5 s
TRM24D1X10	24 V dc/28 V dc	Fixed	Octal, DPDT	+/- 20%	10 s
TRM24D1X2	24 V dc/28 V dc	Fixed	Octal, DPDT	+/- 20%	2 s



Time Delay Relays DELAY-ON-MAKE

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 @ $600 \, \text{V}$ ac.



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

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



P0700-7 Versa-Knob

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



C103PM (AL) DIN Rail

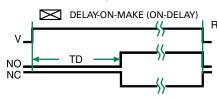
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

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

NO = Normally

Open Contact NC = Normally

Closed Contact TD =Time Delay

R = Reset

-∖∖-- = Undefined Time

Specifications

Time Delay

Type Digital circuitry

Range See "Ordering Information" table

Repeat Accuracy ±2

 Fixed Time Tolerance &
 \$5, 10, or 20 %

 Reset Time
 ≤ 50 ms

Recycle Time After timing: $\leq 20 \text{ ms}$

During timing: 0.1 % of max. time delay or

75 ms, whichever is greater

Time Delay vs Temp.

& Voltage $\leq \pm 5 \%$

Indicator LED glows after time delay; relay is

energized

Input

Voltage 24 V dc; 24, 120 V ac

Tolerance

Output

Type Electromechanical relay
Form Isolated DPDT or SPDT
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

Isolation Voltage $\geq 1500 \text{ V rms between input } \&$

output terminals

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

Polarity Dc units are reverse polarity protected

Mechanical

Mounting Plug-in socket

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

D (with socket) 104.78 mm (4.13")

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

Environmental

Operating/Storage

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

Weight ≈ 4 oz (113 g)

Safety Marks

UL (socket required)* UL 508 (E57310)

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

Note: Manufacturer's recommended screw terminal torque for the OT series sockets is 12 in-lhs

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