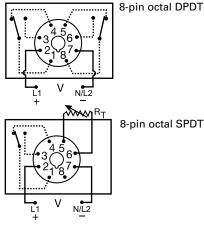
### **TRM Series**

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### **Wiring Diagram**



V = Voltage

 $R_{\ensuremath{\mathsf{T}}}$  is used when external adjustment is ordered. Relay contacts are isolated.

# **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



# **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.		

## 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.



**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

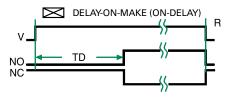
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

## **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**



## Specifications

#### Time Delay

Type Range Repeat Accuracy Fixed Time Tolerance & Setting Accuracy Reset Time Recycle Time

Time Delay vs Temp. & Voltage Indicator

### Input

Voltage Tolerance 24 V dc/ac 120 V ac AC Line Frequency Power Consumption Output Type Form Rating

Life Protection

Isolation Voltage

Insulation Resistance Polarity Mechanical Mounting Dimensions

#### Termination Environmental Operating/Storage Temperature Weight Safety Marks

Safety Marks UL (socket required)\*

Digital circuitry See "Ordering Information" table ±2 %

±5, 10, or 20 % ≤ 50 ms After timing: ≤ 20 ms During timing: 0.1 % of max. time delay or 75 ms, whichever is greater

≤±5 % LED glows after time delay; relay is energized

24 V dc; 24, 120 V ac

-15 %-20 % -20 %-10 % 50/60 Hz ≤ 3.25W

Electromechanical relay Isolated DPDT or SPDT 8 A resistive @ 120/240 V ac; 1/3 hp @ 120/240 V ac Mechanical - 1 x 10<sup>7</sup>; Electrical - 1 x 10<sup>6</sup>

 $\geq$  1500 V rms between input & output terminals  $\geq$  100 M $\Omega$  Dc units are reverse polarity protected

Plug-in socket **H** 44.45 mm (1.75"); **W** 60.33 mm (2.38"); **D** (with socket) 104.78 mm (4.13") Octal 8-pin or 11-pin plug-in

-20 °C to 65 °C / -30 °C to 85 °C ≅ 4 oz (113 g)

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-lbs.

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