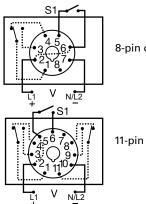
TRB Series



Wiring Diagram



8-pin octal SPDT

11-pin DPDT

Description

The TRB series combines an isolated, 8 A electromechanical relay output with digital timing circuitry. False trigger of the TRB 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 TRB's industry standard 8- or 11-pin plug-in base wiring.

Operation (Delay-on-Break)

Input voltage must be applied before and during timing. Upon closure of the initiate switch, the output relay energizes. The time delay begins when the initiate switch is opened (trailing edge triggered). The output remains energized during timing. At the end of the time delay, the output de-energizes. The output will energize if the initiate switch is closed when input voltage is applied.

Reset: Reclosing the initiate switch during timing resets the time delay. 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 8 or 11-pin connection	Provides easy installation and field replacement		
Isolated, 8 A, SPDT or DPDT 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
TRB120A4Y120	120 V ac	Onboard	11-pin, DPDT	+ /- 10 %	2–120 s



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



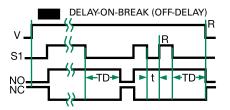
P1011-6 Octal Socket for UL listing* 8-pin surface mount socket with binder head

screw terminals. Rated 10 A @ 600 V ac.

C103PM (AL) DIN Rail

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

Function Diagram



V = Voltage S1 = Initiate Switch NO = Normally Open Contact NC = Normally Closed Contact TD = Time Delay t = Incomplete Time Delay R = Reset $-\sqrt{-}$ = Undefined Time

Specifications

Time Delay Туре Range **Repeat Accuracy Fixed Time Tolerance** & Setting Accuracy **Initiate Time Reset Time Recycle Time** Time Delay vs Temp. & Voltage Input Voltage Indicator Tolerance 24V dc/ac 120 V ac **AC Line Frequency Power Consumption** Output Туре Form Rating

Life

Protection Insulation Resistance Isolation Voltage Polarity Mechanical Mounting Dimensions

Termination

Environmental Operating/Storage Temperature Weight Safety Marks

UL (socket required)*

UL 508 (E57310)

 \approx 4 oz (113 g)

Digital circuitry

±5, 10, or 20 %

24/28 V dc; 120 V ac

Electromechanical relay

Isolated SPDT or DPDT

1/3 hp @ 120/240 V ac

8 A resistive @ 120/240 V ac

Mechanical - 1 x 107; Electrical - 1 x 106

 \geq 1500 V rms between input to output

Dc units are reverse polarity protected

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

D (with socket) 104.78 mm (4.13")

-20 °C to 65 °C / -30 °C to 85 °C

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

-15 %-20 %

-20 %-10 %

50/60 Hz

≤ 3.25W

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

Plug-in socket

LED indicates relay is energized

±2 %

≤ 70 ms

< 75 ms

≤ 250 ms

≤±5 %

See "Ordering Information" table

*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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