

Time Delay Relays

DEDICATED - DELAY-ON-BREAK

TRB Series



Description

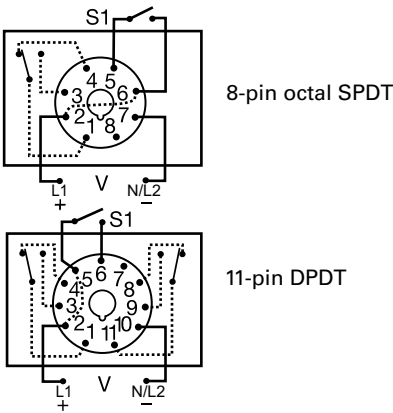
The TRB series combines an isolated, 8 A electromechanical relay output with digital timing circuitry. False trigger of the TRB by a transient is unlikely because of the complete isolation of the circuit from the line prior to initiation. The initiate contact is common to one side of the line and may 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.

Wiring Diagram



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

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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

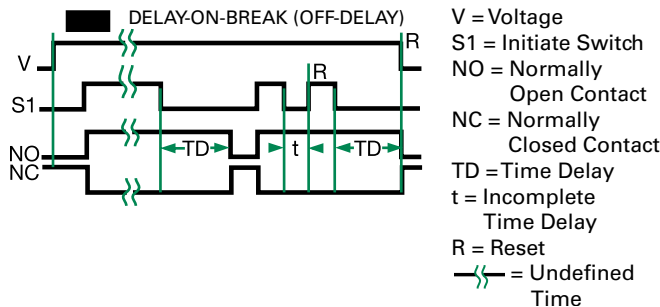


P1011-6 Octal Socket for UL listing*
8-pin surface mount socket with binder head screw terminals. Rated 10 A @ 600 V ac.



C103PM (AL) DIN Rail
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

Function Diagram



Specifications

Time Delay

Type

Digital circuitry
See "Ordering Information" table
±2 %

Range

Repeat Accuracy

Fixed Time Tolerance

& Setting Accuracy

±5, 10, or 20 %

Initiate Time

≤ 70 ms

Reset Time

≤ 75 ms

Recycle Time

≤ 250 ms

Time Delay vs Temp.

& Voltage

≤±5 %

Input

Voltage

24/28 V dc; 120 V ac

Indicator

LED indicates relay is energized

Tolerance

24V dc/ac

-15 %–20 %

120 V ac

-20 %–10 %

AC Line Frequency

50/60 Hz

Power Consumption

≤ 3.25W

Output

Type

Electromechanical relay

Form

Isolated SPDT or DPDT

Rating

8 A resistive @ 120/240 V ac

1/3 hp @ 120/240 V ac

Mechanical - 1 x 10⁷; Electrical - 1 x 10⁶

Life

Protection

Insulation Resistance

≥ 100 MΩ

Isolation Voltage

≥ 1500 V rms between input to output

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")

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

Termination

Environmental

Operating/Storage

Temperature

-20 °C to 65 °C / -30 °C to 85 °C

Weight

≈ 4 oz (113 g)

Safety Marks

UL (socket required)*

UL 508 (E57310)

*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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