

# TRB SERIES



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



8-PIN



11-PIN

## Description

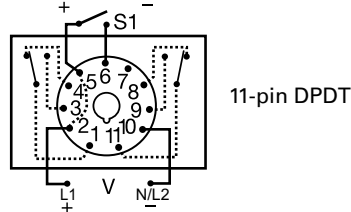
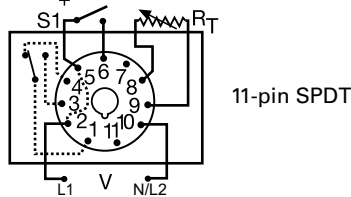
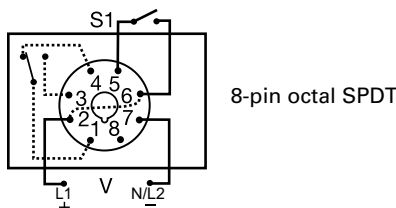
The TRB Series combines an isolated, 10A electromechanical relay output with analog timing circuitry. False trigger of the TRB by a transient is unlikely because of the complete isolation of the circuit from the line prior to initiation. The initiate contact is common to one side of the line and may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



V = Voltage  
S1 = Initiate Switch  
Relay contacts are isolated.  
R<sub>T</sub> is used when external adjustment is ordered.

## Features & Benefits

FEATURES	BENEFITS
<b>Complete isolation of circuit from line</b>	No false trip due to transients
<b>Industry standard 8 or 11-pin connection</b>	Provides easy installation and field replacement
<b>Isolated, 10A, SPDT or DPDT output contacts</b>	Allows control of loads for AC or DC voltages
<b>Analog circuitry</b>	Repeat accuracy + /- 2%

## Accessories

**P1004-XX, P1004-XX-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.

**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.

## Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	OUTPUT FORM	TIME TOLERANCE	TIME DELAY
TRB120A2Y30	120VAC	Onboard	Octal, SPDT (AC only)	+ /- 10%	1 - 30s
TRB120A3X600	120VAC	Lock shaft	Octal, SPDT (AC only)	+ /- 20%	7 - 600s
TRB120A4Y120	120VAC	Onboard	11-pin, DPDT	+ /- 10%	2 - 120s
TRB24D10Y10	24VDC/28VDC	Fixed	11-pin, DPDT	+ /- 10%	10s

If you don't find the part you need, call us for a custom product 800-843-8848

## TRB SERIES

### Accessories



**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.



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

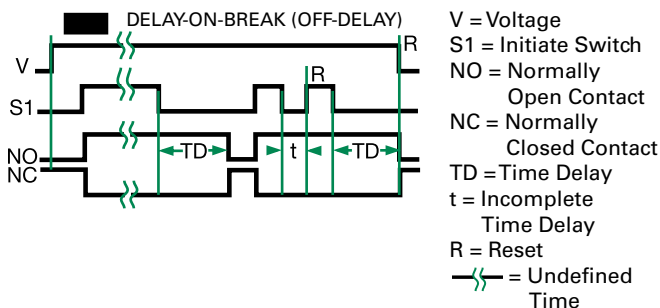
### Selection Guides

External R <sub>T</sub> 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

R <sub>T</sub> Selection Chart	
Time Delay*	
Range	R <sub>T</sub>
Seconds	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<sub>T</sub> add at least 15...30% for tolerance of unit and the R<sub>T</sub>.

### Function Diagram



### Specifications

#### Time Delay

#### Type

#### Range

#### Repeat Accuracy

#### Fixed Time Tolerance

#### & Setting Accuracy

#### Initiate Time

#### Reset Time

#### Recycle Time

#### Time Delay vs Temp.

#### & Voltage

#### Input

#### Voltage

#### Tolerance

#### 24VDC/AC

#### 10 to 230VAC/DC

#### AC Line Frequency

#### Power Consumption

#### Output

#### Type

#### Form

#### Rating

#### Life

#### Protection

#### Insulation Resistance

#### Isolation Voltage

#### Polarity

#### Mechanical

#### Mounting

#### Dimensions

#### Termination

#### Environmental

#### Operating/Storage

#### Temperature

#### Weight

Analog circuitry

50ms - 10m in 15 adjustable ranges or fixed

±2% or 20ms, whichever is greater

±5, 10, or 20%

≤ 70ms

≤ 75ms

≤ 250ms

≤±10%

24/28 or 110VDC; 24, 120, or 230VAC

(DC voltages on DPDT output models only)

-15% - 20%

-20% - 10%

50/60 Hz

≤ 3.25W

Electromechanical relay

Isolated SPDT or DPDT

10A resistive @ 120/240VAC & 28VDC;

1/3 hp @ 120/240VAC

Mechanical - 1 x 10<sup>7</sup>; Electrical - 1 x 10<sup>6</sup>

≥ 100 MΩ

≥ 1500V RMS between input to output

DC units are reverse polarity protected

Plug-in socket

**H** 91.6 mm (3.62"); **W** 60.7 mm (2.39");

**D** 45.2 mm (1.78")

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

-20° to 65°C / -30° to 85°C

≈ 6 oz (170 g)

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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