

# Delay On Break (Release)

## TRB Series

### Time Delay Relay

5



- Knob Adjustable Time Delays
- Fixed or Adjustable Delays from 0.05 ... 600 s in Ranges
- +/-2% Repeat Accuracy
- AC and DC Operating Voltages are Available
- 10 A, Isolated SPDT and DPDT Contacts

Approvals:

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

#### Description

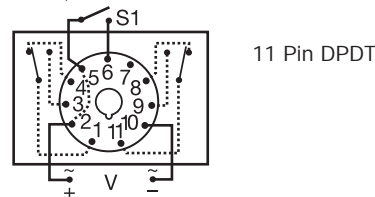
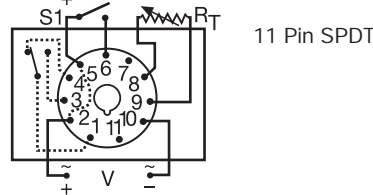
The TRB Series combines a 10 A isolated electromechanical relay output with analog timing circuitry. False trigger of the TRB by a transient is unlikely because of the complete isolation of the circuit from the line prior to initiation. The initiate contact is common to one side of the line and may be utilized to operate other loads. Installation is easy due to the TRB's industry standard 8 or 11 pin plug-in base wiring.

#### Operation

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.

#### Connection

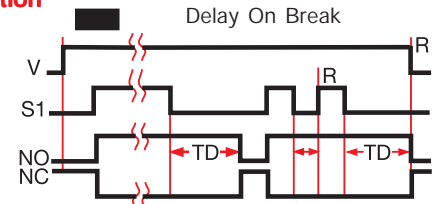


S1 = Initiate Switch

Relay contacts are isolated. Dashed lines are internal connections.

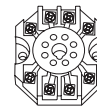
R<sub>T</sub> is used when external adjustment is ordered.

#### Function

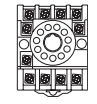


V = Voltage S1 = Initiate Switch TD = Time Delay  
R = Reset — = Undefined time  
NO = Normally Open NC = Normally Closed

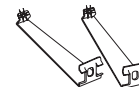
#### Accessories



Octal socket for UL Listing  
P/N: **P1011-6**



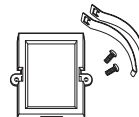
11 pin socket  
P/N: **NDS-11**



Hold down clips  
P/Ns:  
**PSC8 (NDS-8)**  
**PSC11 (NDS-11)**



Octal 8 pin socket  
P/N: **NDS-8**



Panel mount kit  
P/N: **BZ1**

See accessory pages for specifications.

#### Ordering Table

TRB Series	X Input
	<b>24A</b> - 24 V AC
	<b>24D</b> - 24 V DC/28 V DC
	<b>110D</b> - 110 V DC
	<b>120A</b> - 120 V AC
	<b>230A</b> - 230 V AC

X Adjustment and Output Form
<b>-1</b> - Fixed, Octal, SPDT
<b>-10</b> - Fixed, 11 Pin DPDT
<b>-2</b> - Knob Adjust, Octal, SPDT
<b>-3</b> - Lock Shaft Adjust, Octal, SPDT
<b>-4</b> - Knob Adjust, 11 Pin, DPDT
<b>-7</b> - Ext. Adjust, 11 Pin, SPDT without Potentiometer

X Time Tolerance
<b>-X</b> - +/-20%
<b>-Y</b> - +/-10%
<b>-Z</b> - +/- 5%

X Time Delay* (Seconds)
-0.05 ... <b>1</b> -2 ... <b>120</b>
-0.05 ... <b>2</b> -2 ... <b>180</b>
-0.05 ... <b>3</b> -7 ... <b>240</b>
-0.1 ... <b>5</b> -7 ... <b>300</b>
-0.1 ... <b>10</b> -7 ... <b>360</b>
-1 ... <b>30</b> -7 ... <b>420</b>
-1 ... <b>60</b> -7 ... <b>480</b>
-7 ... <b>600</b>

Example P/N: **TRB120A2Y30** Fixed: **TRB230A10X600**

\*If Fixed Delay is selected, insert delay [0.05 ... 600] in seconds

