

Delay On Break (Release)

PRLB Series Time Delay Relay

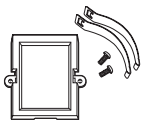


5

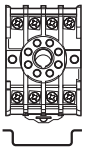
- Knob Adjustable Time Delay Relay
- Electronic Circuit with Electromechanical Relay
- Popular AC & DC Operating Voltages
- Industry Standard Octal Plug-in Connection
- Time Delays to 600 s in 6 Ranges
- +/-2% Repeat Accuracy
- +/-10% Factory Calibration
- LED Indication
- 10 A SPDT Relay Output

Approvals:

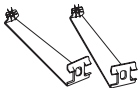
Accessories



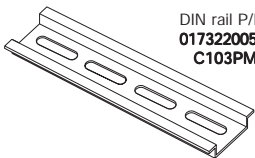
Panel mount kit
P/N: **BZ1**



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



Hold down clips
P/N: **PSC8**



DIN rail P/Ns:
017322005 (Steel)
C103PM (Al)

See accessory pages for specifications.

Description

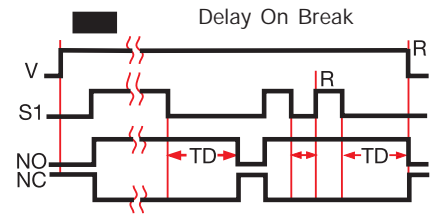
The PRLB Series is designed for use on non-critical timing applications. It offers low cost knob adjustable timing control, full 10 A relay output, and onboard LED indication. The knob adjustment provides a guaranteed time range of up to 10 minutes in 6 ranges. The onboard LED indicates whether or not the unit is timing (flashing LED) as well as the status of the output.

Operation

Input voltage must be applied at all times prior to and during timing. Upon closure of the initiate switch, the output contacts transfer and remain transferred if no further action is taken. The LED is on steady. When the initiate switch is opened, the time delay is started. The LED flashes during timing. At the conclusion of the delay, the output contacts revert to their original unenergized position. Applying input voltage with the initiate switch closed will energize the load.

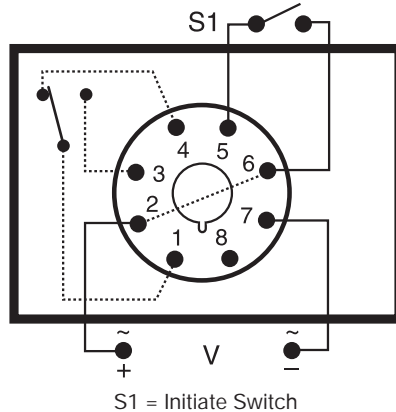
Reset: Reclosing the initiate switch during timing resets the time delay. Loss of input voltage resets the time delay and output.

Function



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

Connection



Relay contacts are isolated. Dashed lines are internal connections.

Ordering Table

PRLB Series	X Input	X Adjustment	X Time Delay *
	-1 - 12 V DC	-1 - Factory Fixed	-1 - 0.05 ... 3 s
	-2 - 24 V AC	-2 - Adjustable	-2 - 0.1 ... 10 s
	-3 - 24 V DC		-3 - 1 ... 60 s
	-4 - 120 V AC		-4 - 2 ... 180 s
	-5 - 110 V DC		-5 - 7 ... 480 s
	-6 - 230 V AC		-6 - 7 ... 600 s

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

Example P/N: **PRLB623** Fixed – **PRLB4160**

Delay On Break (Release)

PRLB Series

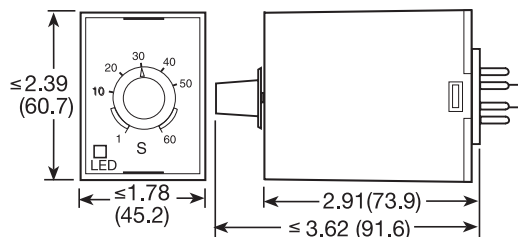
Time Delay Relay

Technical Data

Time Delay Type Range Repeat Accuracy Tolerance Reset Time Recycle Time Time Delay vs. Temperature & Voltage	Analog circuitry 0.05 ... 600 s in 6 adjustable ranges or fixed +/-2% or 20 ms, whichever is greater Knob Adjust: Guaranteed range Fixed: +/-10% ≤ 75 ms ≤ 250 ms ≤ +/-10%
Input Voltage Tolerance 12 V DC & 24 V DC/AC 110 ... 230 V AC/DC Line Frequency Power Consumption	24, 120, or 230 V AC; 12, 24, or 110 V DC -15% ... +20% -20% ... +10% 50 ... 60 Hz ≤ 2.25 W
Output Type Form Rating Life	Electromechanical relay Isolated SPDT 10 A resistive at 28 V DC; 10 A resistive at 240 V AC; 1/3 hp at 120 & 240 V AC Mechanical--1x10 ⁷ ; Electrical--1x10 ⁶
Protection Surge Isolation Voltage Insulation Resistance Polarity	IEEE C62.41-1991 Level A ≥ 1500 V RMS input to output ≥ 100 MΩ DC units are reverse polarity protected
Indication Type Operation	LED Output Energized--ON steady Output Energized & Timing--Flashing
Mechanical Mounting Package Termination	Plug-in socket 3.62 x 2.39 x 1.78 in. (91.6 x 60.7 x 45.2 mm) Octal plug-in (8 pin)
Environmental Operating Temperature Storage Temperature Weight	-20°C ... +65°C -30°C ... +85°C ≅ 6 oz (170 g)

5

Mechanical View



Inches (Millimeters)