

Delay On Make (Operate)

PRLM Series

Time Delay Relay

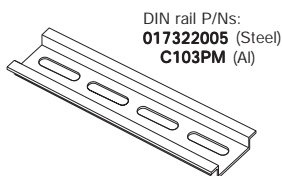
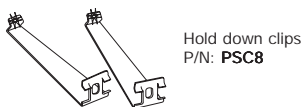
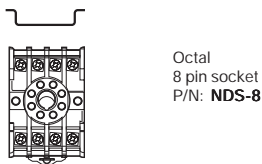
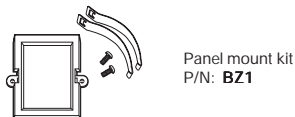
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- Knob Adjustable Time Delay Relay
- Electronic Circuit with Electromechanical Relay
- Popular AC & DC Operating Voltages
- Industry Standard Octal Plug-in Connection
- Time Delays to 600 s in 6 Ranges
- +/-2% Repeat Accuracy
- +/-10% Factory Calibration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

Approvals:

Accessories



See accessory pages for specifications.

Description

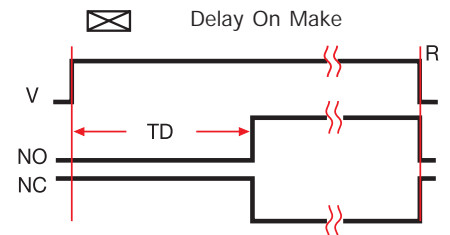
The PRLM Series is designed for use in non-critical timing applications. It offers low cost knob adjustable timing control, full 10 A relay output, and onboard LED indication. The knob adjustment provides a guaranteed time range of up to 10 minutes in 6 ranges. The onboard LED indicates whether or not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

Operation

The time delay is initiated when input voltage is applied. LED flashes during timing. At the end of the delay period, the output contacts energize. LED is on steady after the unit times out.

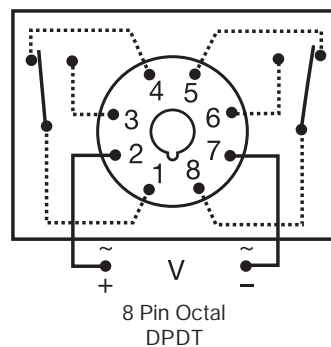
Reset: Reset is accomplished by removal of input voltage. There is no false output when reset during timing.

Function



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

Connection



Relay contacts are isolated. Dashed lines are internal connections.

Ordering Table

PRLM 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

Example P/N: PRLM422 Fixed – PRLM6160

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

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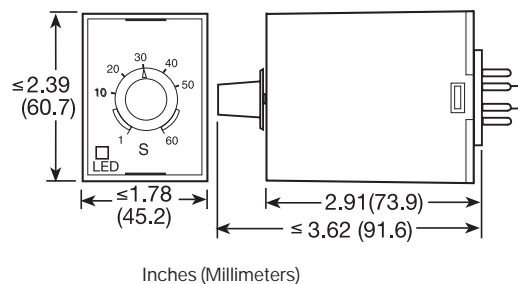
Time Delay Relay

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% ≤ 50 ms After timing: ≤ 20 ms During timing: 0.1% of max. time delay or 75 ms, whichever is greater ≤ +/-10%
Input Voltage Tolerance 12 V DC & 24 V DC/AC 110 ... 240 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 DPDT 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 During Timing--Flashing Output Energized--ON steady
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)

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Mechanical View



PRLM2B01 07.01.04