

Delay On Make (Operate) PRLM Series Time Delay Relay



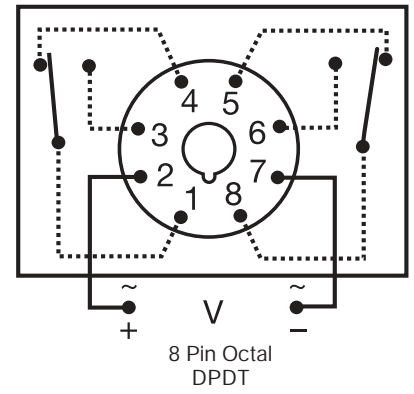
Description

The PRLM Series is designed for use in non-critical timing applications. It offers low cost control, full 10 A relay output, and onboard LED indication. The knob adjustment provides a guaranteed time range of up to 10 m 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.

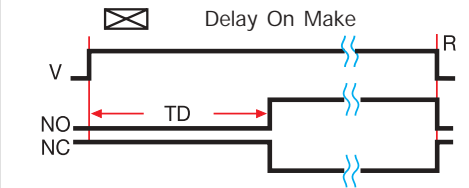
Reset: Reset is accomplished by removal of input voltage. There is no false output when reset during timing.



Relay contacts are isolated. Dashed lines are internal connections.

- Electronic Circuit with Electromechanical Relay
- Popular AC & DC Operating Voltages
- Industry Standard Octal Plug-in Connection
- LED Indication
- 10 A Rated Relay Output

Approvals:



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

Ordering Table

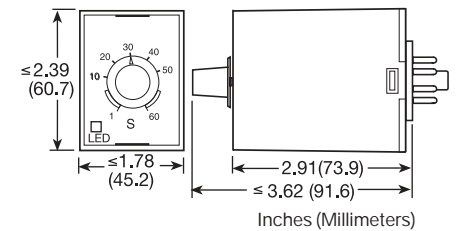
PRLM Series	X Input	X Adjustment	X Time Delay *
-1	12 V DC	1 - Factory Fixed	0.05 ... 3 s
-2	24 V AC	2 - Adjustable	0.1 ... 10 s
-3	24 V DC		1 ... 60 s
-4	120 V AC		2 ... 180 s
-5	110 V DC		7 ... 480 s
-6	230 V AC		7 ... 600 s

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

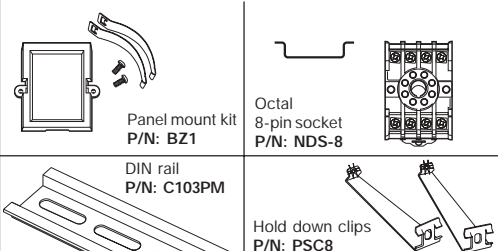
Example P/N: **PRLM422** Fixed – **PRLM6160**

Technical Data

Time Delay	
Type	Analog circuitry
Range	0.05 ... 600 s in 6 adjustable ranges or fixed
Repeat Accuracy	+/-2%
Tolerance	Knob Adjust: Guaranteed range Fixed: +/-10%
Reset Time	≤50 ms
Recycle Time	≤16 ms after timing, during timing--0.1% of max. time delay or 75 ms, whichever is greater
Time Delay vs. Temperature & Voltage	≤ +/-10%
Input	
Voltage	24, 120, or 230 V AC; 12, 24, or 110 V DC
Tolerance	12 V DC & 24 V DC/AC: -15% ... +20% 110 ... 240 V AC/DC: -20% ... +10%
Line Frequency	50 ... 60 Hz
Power Consumption	≤ 2.25 W
Output	
Type	Electromechanical relay
Form	Isolated DPDT
Rating	10 A resistive at 28 V DC; 10 A resistive at 240 V AC; 1/3 hp at 120 & 240 V AC
Life	Mechanical--1x10 ⁷ ; Full Load--1x10 ⁶
Protection	
Surge	IEEE C62.41-1991 Level A
Isolation Voltage	≥ 1500 V RMS input to output
Insulation Resistance	≥ 100 MΩ
Polarity	DC units are reverse polarity protected
Indication	
Type	LED
Operation	During Timing--Flashing Output Energized--ON steady
Mechanical	
Mounting	Plug-in socket
Package	3.62 x 2.39 x 1.78 in. (91.6 x 60.7 x 45.2 mm)
Termination	Octal plug-in (8 pin)
Environmental	
Operating Temperature	-20°C ... +65°C
Storage Temperature	-30°C ... +85°C
Weight	≅ 6 oz (170 g)



Accessories



See accessory pages at the end of this section.