

Time Delay Relays

DELAY-ON-MAKE

PRLM Series



Description

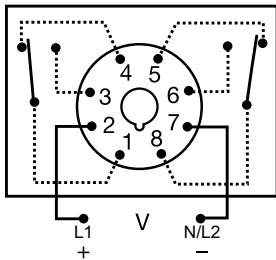
The PRLM series is designed for use in non-critical timing applications. It offers low cost, fixed or knob adjustable timing control, full 8 A relay output, and onboard LED indication. The onboard LED indicates whether or not the unit is timing (flashing LED) as well as the status of the output.

Operation (Delay-on-Make)

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.

Wiring Diagram



8-pin octal DPDT

Features & Benefits

FEATURES	BENEFITS
Electronic circuitry with electromechanical relay	Repeat Accuracy +/- 2 %
Knob adjustable time delay	Guaranteed time range of up to 60 sec.
Isolated 8 A, DPDT output contacts	Allows control of loads with independent voltage sources
LED indication	Provides relay status both during and after timing
Industry standard octal plug connection	Eliminates need for special connectors

Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY
PRLM41180	120 V ac	Fixed	180 s
PRLM423	120 V ac	Adjustable	1–60 s

Accessories



OT08PC 8-pin Octal Socket for UL listing*
8-pin 35 mm DIN-rail or surface mount. Rated at 10 A @ 600 V ac. Surface mounted with two #6 screws or snaps onto a 35 mm DIN rail.



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



C103PM (AL) DIN Rail
35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

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Specifications

Time Delay

Type	Digital circuitry
Range	See "Ordering Information" table
Repeat Accuracy	±2 %
Fixed Time Tolerance & Setting Accuracy	+/- 5 %
Reset Time	≤ 50 ms
Recycle Time	After timing: ≤ 20 ms During timing: 0.1% of max. time delay or 75 ms, whichever is greater

Time Delay vs Temp. & Voltage

≤ ± 5 %

Input

Voltage 120 V ac

Tolerance

120 V ac -20 %–10 %

AC Line Frequency 50/60 Hz

Power Consumption ≤ 3.25W

Output

Type Electromechanical relay

Form Isolated, DPDT

Rating 8 A resistive @ 120/240 V ac;

1/3 hp @ 120/240 V ac

Life Mechanical - 1x10⁷;

Electrical - 1x10⁶

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

Dimensions **H** 44.45 mm (1.75"); **W** 60.33 mm (2.38");

D (with socket) 104.78 mm (4.13")

Termination Octal 8-pin plug-in

Environmental

Operating/Storage

Temperature -20° to 65°C / -30° to 85°C

Weight ≅ 4 oz (113 g)

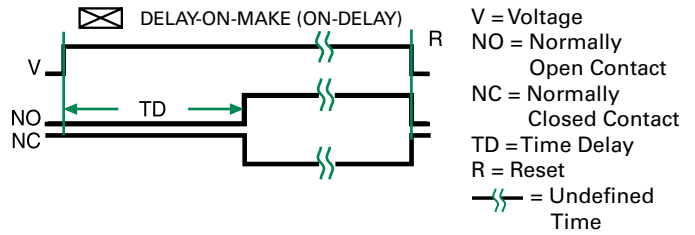
Safety Marks

UL (socket required)* UL 508 (E57310)

*UL Listed when used with Part Number OT08-PC or RB08-PC manufactured by Custom Connector Corp.

Note: Manufacturer's recommended screw terminal torque for the OT series sockets is 12 in-lbs.

Function Diagram



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