

# Time Delay Relays

## DELAY-ON-MAKE

### PRLM Series



### Description

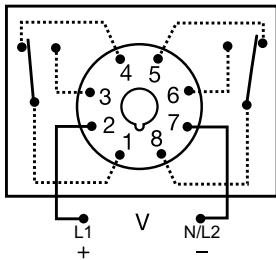
The PRLM series is designed for use in non-critical timing applications. It offers low cost, fixed or knob adjustable timing control, full 8 A relay output, and onboard LED indication. The onboard LED indicates whether or not the unit is timing (flashing LED) as well as the status of the output.

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

<b>Type</b>	Digital circuitry
<b>Range</b>	See "Ordering Information" table
<b>Repeat Accuracy</b>	±2 %
<b>Fixed Time Tolerance &amp; Setting Accuracy</b>	+/- 5 %
<b>Reset Time</b>	≤ 50 ms
<b>Recycle Time</b>	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 - 1x10<sup>7</sup>;

Electrical - 1x10<sup>6</sup>

#### 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)

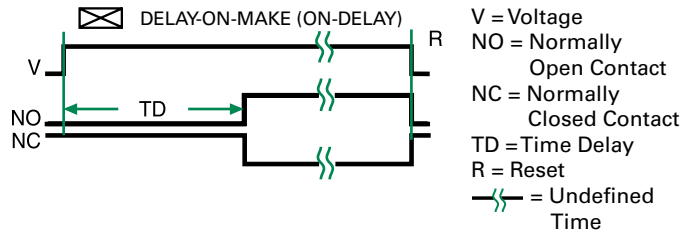
##### Safety Marks

**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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