

The Non-Volatile Fault Indicator Series

Solid State

FaultLite™

LED

Fault Indicator



communications
Electrodynamics, Inc.

Remembers what happened last!



Model PML 90 Series

FEATURES

- Non-Volatile Memory—remembers status even when the power goes out.
- Environmentally sealed construction
- Panel Mount seal provided
- Compact case design
- Non-diffused LED lens standard. Diffused LED lens optional.
- Colors: Red, Yellow, Green.
- Digital logic compatible
- 5V operating voltage. 12V optional.
- 4 wire leads

PML 90 solid state non-volatile memory LED Indicators provide a reliable and repeatable method of displaying a fault or status signal, even when the power is interrupted. The solid state memory reactivates the LED display when the power is returned. This feature is useful when equipment is removed from service for maintenance. The fault display is retained when the power is restored at the service area. The standard lens is non-diffused with diffused type optional. Connections are made via four wire leads.

Operation

Mode 1: With power applied, a short pulse of proper polarity will activate or deactivate the LED output. At this point, the solid state memory retains the last pulse input even with loss of power. Reapplication of power will activate the LED output in accordance with the retained memory.

Mode 2: With no constant power applied, a short pulse of power of proper polarity will set the solid state memory for the designated output. The LED display will be activated or deactivated when power is applied allowing proper detection of system being monitored.

Environmental Specifications

Vibration: .06 D.A. or 20 G peak, whichever is less, 10 Hz to 2 kHz, MIL-STD 202, Method 204, Test Condition D.
Shock: 100 G's MIL-STD 202, Method 213, Test Condition I.
Moisture Resistance (Humidity): MIL-STD 202, Method 106
Altitude: 100,000 ft., MIL-STD 202, Method 105, Test Condition D.
Reliability: Operational 6×10^8 hours min. MTBF @ 25°C.
Salt Spray: MIL-STD 202, Method 101, Test Condition B.

Electro-Optical Specifications

Absolute maximum rating @ $T_{ambient} = 25^\circ\text{C}$.

Color	Red	Yellow	Green
Operating Voltage Range:	5 VDC	5 VDC	5 VDC
DC Forward Current:	20mA	20mA	20mA
Pulse Power: (3 millisecon. minimum duration)	650 mW	650 mW	650 mW
Power Dissipation:	100 mW	100 mW	100 mW
Luminous Intensity @ V = 5 VDC:	5 mcd	5 mcd	5 mcd
Peak Wavelength, Typ.:	635 nm	585 nm	565 nm
Temperature:			
—Operating °C:	-40 to +100	-40 to +100	-20 to +100
—Storage °C:	-55 to +100	-55 to +100	-55 to +100

Dimensions are shown on the reverse side.



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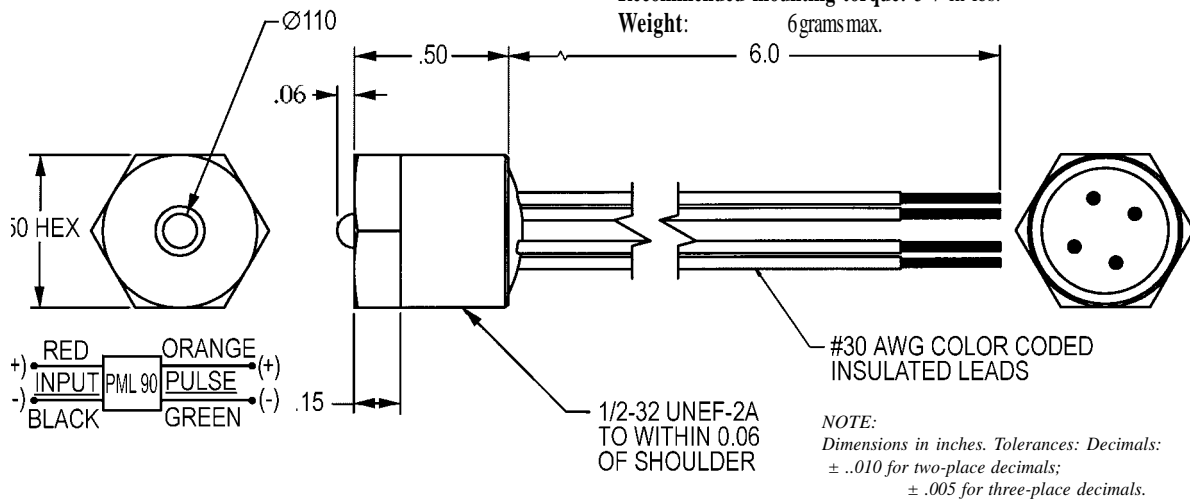
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Mechanical Specifications

Case Materials: Aluminum with black anodized finish
Dimensions: 1.1" long x .450" wide x .275" high.

Mounting: Front Panel threaded, standard.
 Optional mounting hardware available

Panel Thickness: .118", max.
Recommended mounting torque: 5-7 in.-lbs.
Weight: 6 grams max.



ORDERING INFORMATION

When ordering, show model number first, then the LED color, lens type, and operating voltage. Order chart includes only standard features. Other ratings, mounts, and cases are also available.
 Example: PML90-R-ND-5

PML90 - R - ND - 5

MODEL NUMBER	LED COLOR	LENS TYPE	OPERATING VOLTAGE
PML90	R—Red Y—Yellow G—Green	D—Diffused ND—Non-Diffused	5—5 Volts 12—12 Volts



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