

LED INDICATOR SOLID FRONT WATERTIGHT PANEL SEAL



Model ML2030

Designed for use where a watertight panel seal is required for system performance. Can be used as a function indicator on aircraft avionics systems, test equipment, medical equipment, machine tools, and wherever severe environmental conditions are present.

FEATURES

- O-ring panel seal
- Dual finish case
- Low power use
- Performs in severe environments
- Rugged construction

MECHANICAL SPECIFICATIONS

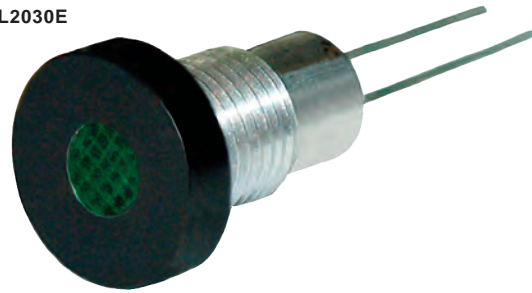
Case: Aluminum, black anodized front bezel with conductive clear chromate body.

Mounting: Front panel mount with 5/16"-32 nut and lock washer.

Seal: Environmentally sealed case. MIL-DTL-3661, Para. 4.6.11.1

O-ring: Fluorosilicone rubber

ML2030E



ENVIRONMENTAL SPECIFICATIONS

Vibration: .06" D.A. or 20 Gs Peak, whichever is less, 10Hz to 2kHz, MIL STD 202, Method 204, Test Condition D

Shock: 100 Gs MIL STD 202, Method 213, Test Condition I

Moisture Resistance (Humidity): MIL STD 202, Method 106

Barometric Pressure (Reduced): 100,000 ft., MIL STD 202, Method 105, Test Condition D

Reliability: 3 x 10⁶ hours min. MTBF @ 25°C

Salt Atmosphere (Corrosion): MIL STD 202, Method 101, Test Condition B

ELECTRO-OPTICAL CHARACTERISTIC SPECIFICATIONS

Absolute Maximum Ratings @Temp = 25°C			
Color	Red	Yellow	Green
Forward Voltage (VDC)	1.9	2.0	2.1
DC Forward Current (mA DC) ①	30	20	30
Reverse Voltage (VDC) @ I _R = 100 µA	5	5	5
Power Dissipation (mW)	135	85	135
Luminous Intensity (mcd) typical @ I _F = 10 mA	Non-diffused	60	50
	Diffused	11	12
Dominant Wave Length (nm) typical	626	585	569
Viewing Angle (2 Ø ^{1/2}) typical	Non-diffused	35°	24°
	Diffused	60°	60°
Operating Temperature (°C)	-55 to +100	-55 to +100	-20 to +100
Storage Temperature (°C)	-55 to +100	-55 to +100	-55 to +100
Lead Soldering Temperature	260°C for 5 seconds		

Notes: ① For red and green, derate linearly from 50°C @ 0.5 mA/°C. For yellow derate linearly from 50°C @ 0.2 mA/°C

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LED INDICATOR SOLID FRONT WATERTIGHT PANEL SEAL



ORDERING INFORMATION

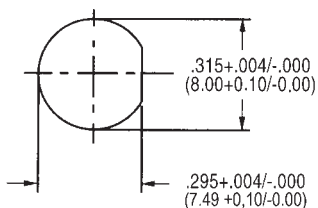
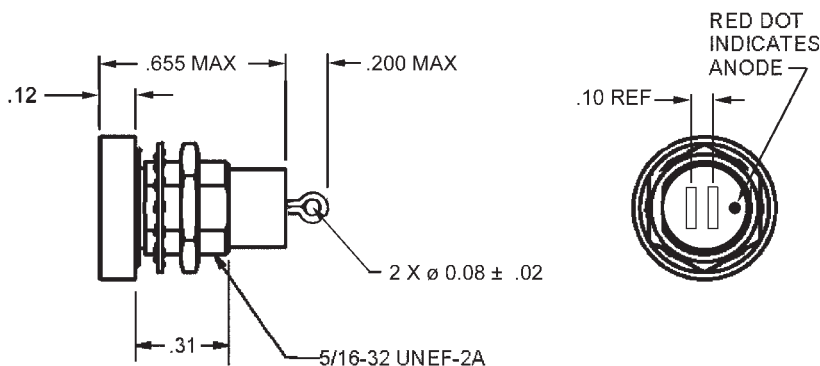
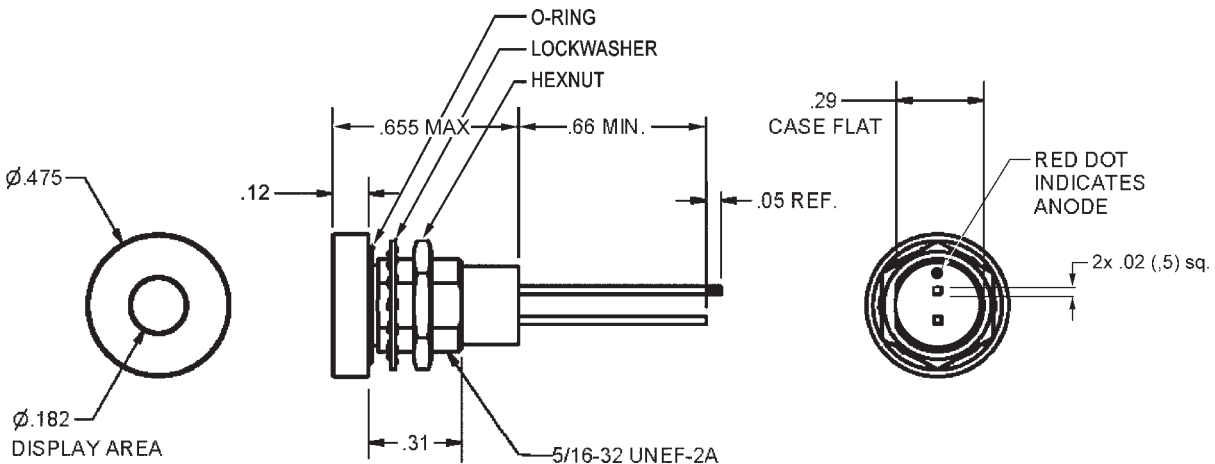
When ordering, show basic part number first, LED color, lens type, and terminal style. If this part requires customization, a special factory assigned modification number will be assigned to the end of the ordering number. Consult the factory for special configurations.

Example: Basic model with EMI screen, a red LED, a diffused lens, and looped terminals would be ML2030E-R-D-LT.

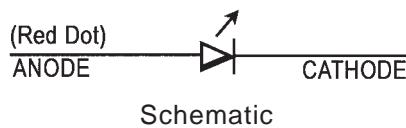
ML2030E - R - D - LT - ()

Standard factory options are designated by "-Sxxx"

Basic Model Number	EMI Screen	LED Color	Lens Type	Terminal Style
ML2030		R Red	ND Non-diffused	ST Straight Leads
	E Screen	Y Yellow	D Diffused	LT Loop Terminals
		G Green		



**Recommended
Mounting Hole**



NOTE:
Ø .475 AND FRONT SURFACE OF FLANGE IS BLACK ANODIZED.
ALL OTHER SURFACES ARE CLEAR CHROMATE.

ML2030

NOTE: Dimensions in () are mm. Tolerances: Decimals: ± .010 (0.25)
Fractions: ± 1/64 Mounting Torque: 10-12 in. lbs.

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LED INDICATORS