

LED INDICATOR

WATERTIGHT PANEL SEAL TRI-COLOR



LED INDICATORS

Model ML2031

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
- Performs in severe environments
- Low power use
- Rugged construction
- Colors: red, green and blue
- Multiple status indication within a single package
- Wide viewing angle

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

ML2031



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 | Green | Blue |
| Forward Voltage (VDC) typical @ 20 mA | 1.9 | 3.3 | 3.3 |
| DC Forward Current (mA DC) ① | 30 | 25 | 30 |
| Reverse Voltage (VDC) @ I _R = 100 μA | 5 | 5 | 5 |
| Power Dissipation (mW) | 75 | 102 | 120 |
| Luminous Intensity (mcd) typical @ I _F = 20 mA DC | 60 | 125 | 85 |
| Dominant Wave Length (nm) typical | 630 | 525 | 465 |
| Viewing Angle (2 Ø ^{1/2}) typical | 130° | | |
| Operating Temperature (°C) | -40 to +85 | | |
| Storage Temperature (°C) | -55 to +100 | | |
| Lead Soldering Temperature | 260°C for 5 seconds | | |

Notes: ① Derate linearly from 25°C @ -0.4 mA/°C.

This page consists of basic marketing information that is not defined as technical data under FAR Part 772.

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ORDERING INFORMATION

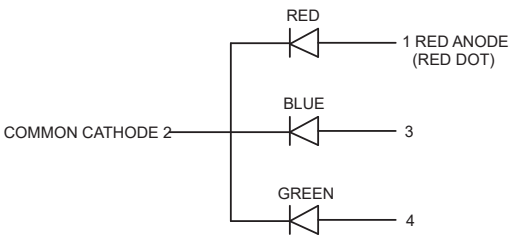
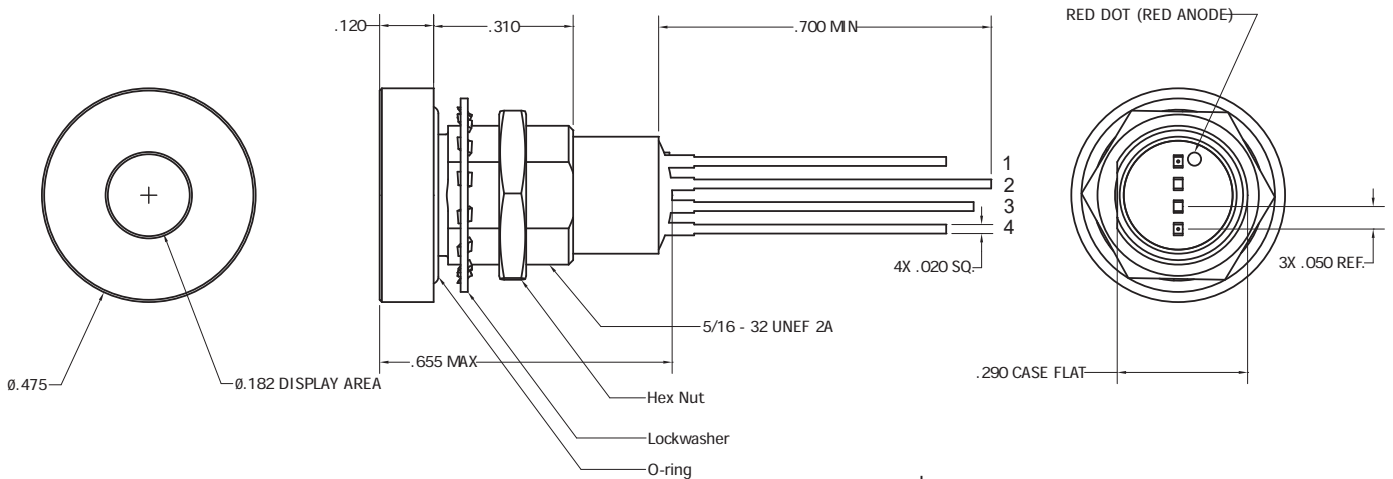
When ordering, show model number first, followed by EMI screen, then LED colors, lens style, and terminal style. If this part requires customization, a special factory assigned modification number will be added at the end of the ordering number. Consult the factory for special configurations.

Example: Basic model with an EMI screen, red/green/blue LED, a diffused lens and straight leads would be ML2031E-RGB-D-ST.

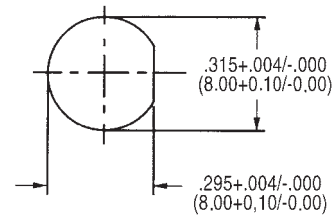
ML2031E - RGB - D - ST - ()

Standard factory options are designated by "-Sxxx"

| Basic Model Number | EMI Screen | LED Color | Lens Type | Terminal Style |
|--------------------|----------------------|----------------------|------------|-------------------|
| ML2031 | () None E Screen | RGB Red, Green, Blue | D Diffused | ST Straight Leads |



Schematic



Recommended Mounting Hole

ML2031

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

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