

LIGHTING INDICATOR

MIL-SPEC NVIS COMPATIBLE



Model ML1662

The ML1662 status indicator was developed to meet the requirements of MIL-L-85762A and MIL-STD-3009. This solid-state lamp with infrared blocking lens is compatible with NVIS environments. It is a panel mount device with solderable leads and includes hardware.

FEATURES

- Designed to meet MIL-L-85762A and MIL-STD-3009 lighting, aircraft, interior night vision imaging system (NVIS) compatible
- Environmentally sealed
- Optional EMI protection screen
- Colors: yellow, green & red
- Front panel mount seal

MECHANICAL SPECIFICATIONS

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

Mounting: Front panel by 5/16"-32 nut and lockwasher.

Seal: Environmentally sealed with front panel PTFE ring seal.

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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	NVIS Red	NVIS Yellow	NVIS Green B
Forward Voltage (VDC) typical @ 20 mA	2.0	2.0	2.1
DC Forward Current (mA) ①	50	20	50
Reverse Voltage @ I _R = 100 μA	4	5	4
Power Dissipation (mW)	120	85	120
Luminous Intensity (mcd) typical @ 20 mA diffused	100	1.8	10
Chromaticity per MIL-L-85762A & MIL-STD-3009	NVIS Red	NVIS Yellow	NVIS Green B
NVIS Radiance per MIL-L-85762A & MIL-STD-3009	NR _B 1.4 x 10 ⁻⁷ @15 fL	NR _A 1.5 x 10 ⁻⁷ @15 fL NR _B 1.4 x 10 ⁻⁷ @15 fL	NR _A 1.7 x 10 ⁻¹⁰ @0.1 fL NR _B 1.7 x 10 ⁻¹⁰ @0.1 fL
Dominant Wave Length (nm) typical	605	585	558
Viewing Angle (2 Ø ^{1/2}) diffused	50°	50°	50°
Operating Temperature (°C)	-40 to +100	-55 to +100	-40 to +100
Storage Temperature (°C)	-55 to +100	-55 to +100	-55 to +100

Notes: ① DC Forward Current Derating. Yellow indicators, derate linearly from 50°C at 0.2 mA per °C. Green & Red indicators, derate linearly from 50°C at 0.5 mA per °C

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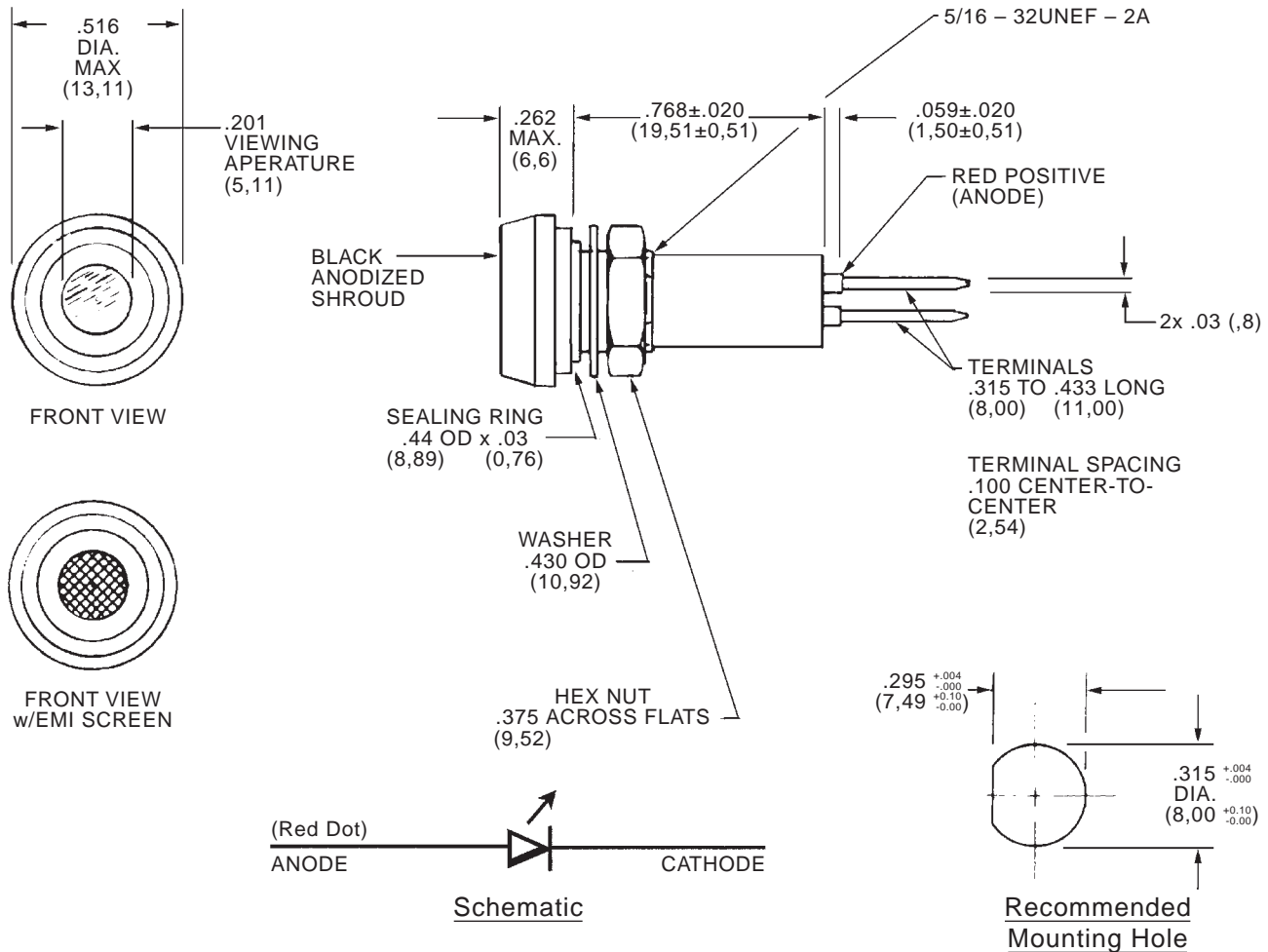
ORDERING INFORMATION

When ordering, show model number first, then LED color, EMI screen, body finish, and the terminal style desired. If this is a special part, a factory assigned modification number will be added at the end of the ordering number. Consult the factory for special configurations.

Example: Basic model with green LED, EMI screen, a clear chromate body finish, and a tin lead terminal finish would be model ML1662-G121.

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Basic Model Number	LED Color	EMI Screen	Body Finish Color	Terminal Style
ML1662	R Red	0 None	2 Clear Chromate	1 Straight Tin Lead
	Y Yellow	1 Screen		2 Loop Terminals
	G Green			



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NOTE: Dimensions in () are mm. Tolerances: Decimals: ± .010 (0.25)
 Fractions: ± 1/64 Mounting Torque: 5-7 in. lbs.

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