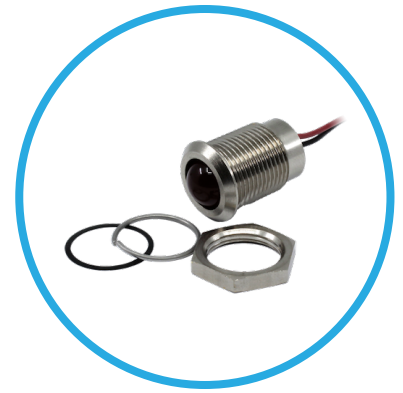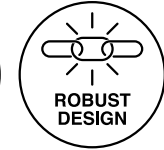# CL Series
Ø 0.555" (14mm) Watertight LED Indicator, IP67 and Vandal Resistant

Robust LED indicator with prominent bezel, especially suitable for high vibration environments and is ideal for heavy-duty applications.
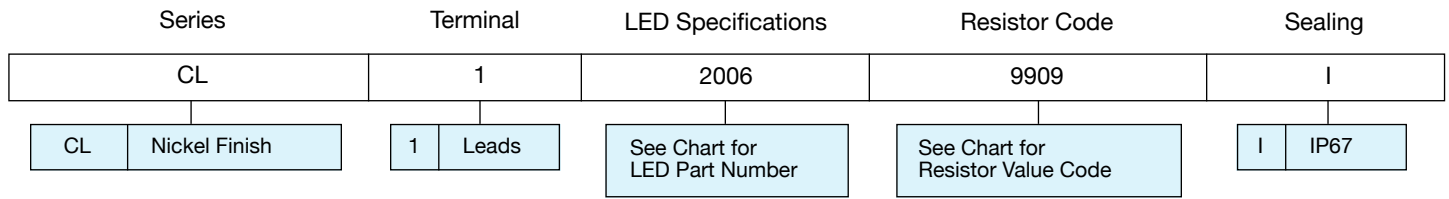
LED COLOR OPTIONS · **MOUNTING HOLE Ø0.555"** · **20˚- 50˚ VIEWING ANGLE** · **IP67** · **ROBUST DESIGN**

Application

- Status Indication
- Signaling
- Remote Power Indication
- Maritime, Oil and Gas Industry
- Automation and Control
- Maintenance and Warning Indication
- Safety and Emergency
- Main Power Indication
- Aircraft/Military Instrumentation

Key Features

- For panel hole diameter: 0.555" (14mm)
- Panel thickness up to .354" (9mm)
- Prominent LED indicator for increased visibility
- Internally potted-suitable for high vibration applications
- Designed for extreme, harsh and outdoor environments
- Available in operating voltage of 2V to 60V, 120VAC, and 240VAC
- Offered with 6" 24 AWG wire leads, red (anode) and black(cathode)
- Mil Spec MIL-W22759/33 wire
- Robust nickel-plated brass housing
- Available in four single colors: red, yellow, green, and blue
- Available in red/green bi-color
- Viewing angle: 20˚-50˚ (dependent on model)
- Mounting hardware provided: hex nut, spacer, and gasket
- Thread size: M14*1.0mm
- Mounting torque: 20 ± 2 in-lb (2.26 ± 0.23 N-mm)
- Resistant to vandal, shock, and vibration
- For custom cable length, connectors or colors contact VCC
- RoHS and REACH Compliant

Ordering Data

Series	Terminal	LED Specifications	Resistor Code	Sealing
CL	1	2006	9909	I

| CL | Nickel Finish | | 1 | Leads | | See Chart for LED Part Number | | See Chart for Resistor Value Code | | I | IP67 |

Example:
CL-1-2006-9909-I
CL Nickel Finish, Wire Leads, Red LED 12 Volt, IP67

LED Specification Chart Electrical and Optical Characteristics (TA = 25°C)

LED Part Numbers	Color	Luminous Intensity (mcd) Typ. @ IF (mA)		VF Typ. @ IF (mA)		Viewing Angle (2θ$^{1/2}$)	Peak Wavelength (nm)

SINGLE COLOR

LED Part Numbers	Color	Luminous Intensity (mcd) Typ. @ IF (mA)		VF Typ. @ IF (mA)		Viewing Angle (2θ$^{1/2}$)	Peak Wavelength (nm)
2006	Red	100	20	2.0	20	30°	627
2007	Yellow	500.0	20	2.0	20	30°	590
2008	Green	100.0	20	2.1	20	30°	574
2004	Blue	400.0	20	3.3	20	20°	460

BI-COLOR

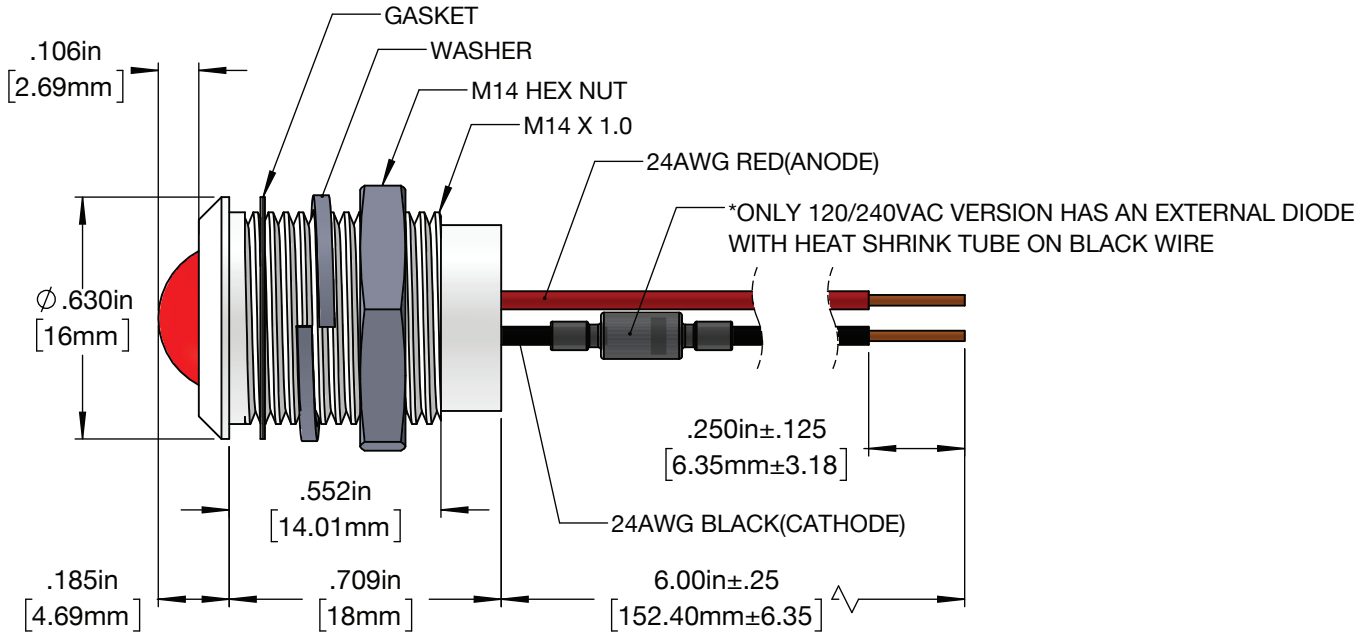| LED Part Numbers	Color	Luminous Intensity (mcd) Typ. @ IF (mA)		VF Typ. @ IF (mA)		Viewing Angle (2θ$^{1/2}$)	Peak Wavelength (nm)
2005	Red	750.0	20	1.95	20	50°	645
	Green	130.0	20	2.1	20		574

Resistor Chart Operating Specification

Resistor Value Code	Voltage	Current (mA)	Resistor Value (Ohms) Green,Yellow Red, Bicolor LED	Resistor Value (Ohms) Blue LED
0000	2	20	None	Not Available
9907	5	20	150	
9922	5	20		65
9908	12	20	511	
9909	12	20		357
9910	24	20	1100	
9911	24	20		953
9912	48	9	4870	
9913	48	9		4530
9914	60	7	8250	
9915	60	7		7500
0120	120VAC	7	16500	Contact VCC
0240	240VAC	3.5	66400	Contact VCC

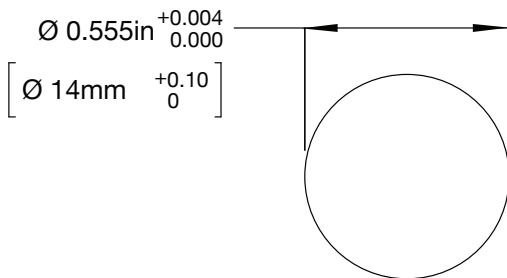**Note:** Bi-Color not available in AC voltages

Product Dimensions

CL Series Wire Leads

- GASKET
- WASHER
- M14 HEX NUT
- M14 X 1.0
- 24AWG RED(ANODE)

*ONLY 120/240VAC VERSION HAS AN EXTERNAL DIODE
WITH HEAT SHRINK TUBE ON BLACK WIRE

.106in
[2.69mm]

∅ .630in
[16mm]

24AWG BLACK(CATHODE)

.250in±.125
[6.35mm±3.18]

.552in
[14.01mm]

.185in
[4.69mm]

.709in
[18mm]

6.00in±.25
[152.40mm±6.35]

CL Series Bi-Color

VERSIONS OF 120/240VAC ARE NOT
AVAILABLE FOR BI-COLOR
CONFIGURATIONS

.250in±.125
[6.35mm±3.18]

6.00in±.25
[152.40mm±6.35]
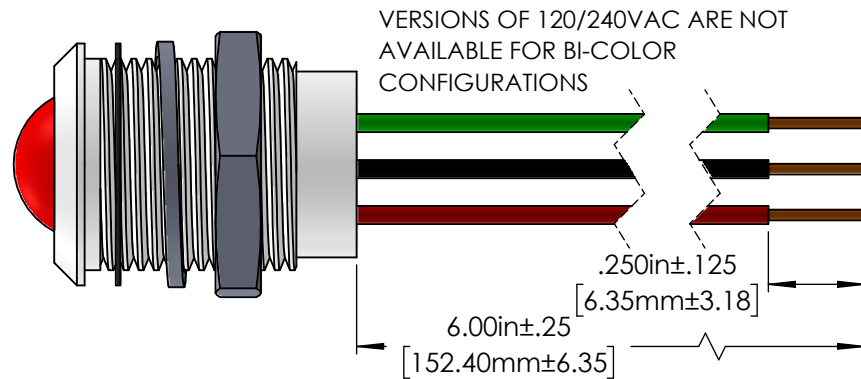
Recommended Mounting Hole

∅ 0.555in $^{+0.004}_{0.000}$

[∅ 14mm $^{+0.10}_{0}$]

Notes:

1. All dimensions are in inches [millimeters]
2. Tolerance is ±[0.25] 0.01 unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.