DATA SHEET



CCLB Series
0.319” (8.10mm) Prominent LED

Long-body LED metal indicator which fit thick panels, especially designed for extreme, harsh and outdoor environments.

LED COLOR OPTIONS | LONG BODY | MOUNTING HOLE Ø0.319" | 20˚- 30˚ VIEWING ANGLE | DAYLIGHT VISIBILITY | IP67 | ROBUST DESIGN | 2V-48VDC 120VAC

Applications

- Industrial
- Transportation
- People Movers
- Maritime, Oil and Gas Industry
- Automation and Control
- Slot, Gaming and Vending Machines
- Safety and Emergency
- Pilot Instrumentation
- Aircraft/Military Instrumentation

Key Features

- For panel hole diameter: 0.319” (8.10mm)
- Long-body indicator (longer threads) which fit thicker panels up to 0.354 (9mm)
- Available in nickel-plated brass housing
- Available with ultra bright and super ultra bright (daylight viewing) LEDs
- Designed for extreme, harsh and outdoor environments
- Offered with front and backside sealing for moisture (water) and dust resistance
- Available in operating voltage of 2V to 48V; 120VAC
- Optional resistor for 5V-48VDC
- Offered with 6” 24 AWG wire leads
- Solder tab terminal for fast, easy installation
- Available in seven single colors: red, yellow, green, orange, amber, blue and white
- Viewing angle: 20-30 (dependent on model)
- Mounting hardware provided: lock washer and hex nut and weather gasket (for W and I option)
- Maximum mounting torque: 0.6 ~ 0.7 N·m (5.3 ~ 6.2 in-lb)
- Resistant to vandal, shock and vibration
- For black matte finish, custom cable length, connectors or colors, contact VCC
- RoHS and REACH Compliant

Ordering Data

Finish	Series	Terminal	LED Specifications	Resistor Code	Options
C	CLB	1	3036	9908	I

Finish	
C	Nickel Finish

Terminal	
1	Leads
2	Tab

LED Specifications
See chart for LED Part Number

Resistor Code
See chart for Resistor Value Code

Options	
W	Gasket Seal (tab terminals only)
I	IP67 (leads only)



Example:
CCLB-1-3036-9908-I
CCLB Nickel Finish, Wire Leads, Super Ultra Bright 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 ($2\theta^{1/2}$)	Peak Wavelength (nm)
ULTRA BRIGHT-DAYLIGHT READABLE (Wire leads option only)							
3056	Red	400	20	1.9	20	30°	660
3055	Yellow	400	20	2.0	20	30°	590
3054	Green	300	20	3.2	20	30°	520
3060	Orange	600	20	2.1	20	30°	610
SUPER ULTRA BRIGHT							
3036	Red	2800	20	1.85	20	20°	660
3046	Red	900	20	1.9	20	30°	626
3047	Green	5490	20	3.2	20	20°	520
3048	Amber	1300	20	2.02	20	30°	592
BLUE							
3057	Blue	640	20	3.3	20	20°	468
WHITE							
3061	White	27000	20	3.2	20	15°	N/A

Resistor Chart

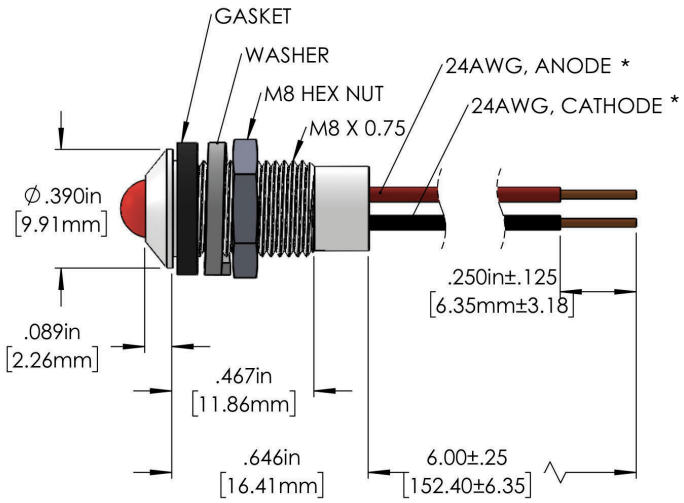
Operating Specification

Resistor Value Code	Voltage	Current (mA)	Resistor Value (Ohms) Green,Yellow Red, Bicolor LED	Resistor Value (Ohms) Blue, White 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
9923	28	20	1500	
9933	28	20		1300
9912	48	9	4870	
9913	48	9		4530
9920	120VAC	8	6490	Contact VCC

*120VAC - Wire leads option only
AC wire leads: Black (hot), White (neutral) with external diode on black wire. See p.4.

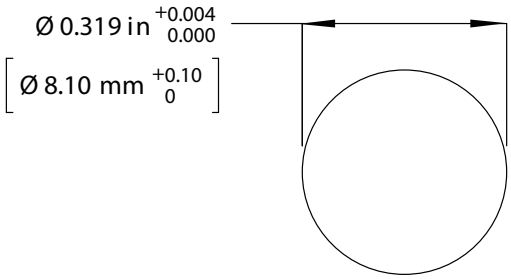
Product Dimensions

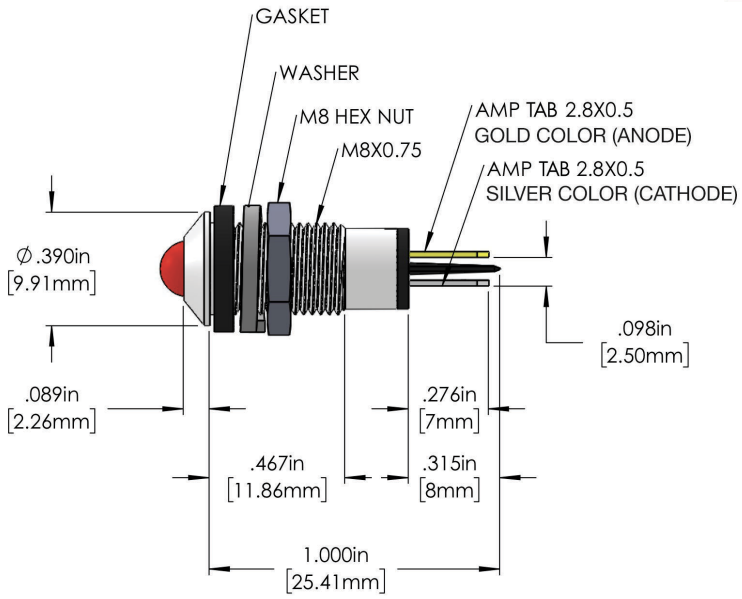
CCLB Series Wire Leads



* For AC version, refer to Installation Specifications table on page 4.

Recommended Mounting Hole





Note:

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.

Product Dimensions

Materials	
Housing	Nickel-plated brass housing
Materials Wire Leads:	24 awg, 6" length, red anode, black cathode AC version: black (hot), white (neutral)
Washer	Stainless steel
Gasket	70 BUNA
Hex Nut	Brass Alloy 360 - 1/2 Hard

Electrical Specifications	
Operating Voltage	Refer to table
Operating Current	Refer to table

Installation Specifications	
Mounting Hole	0.319" +.004/-.000" (8.10 mm +0.10/-0.00 mm)
Panel Thickness (max.)	0.354" (9.0mm)
Wire Leads	24AWG UL 1061 6.0" (152.4mm) red (anode) and black (cathode), leads stripped .250" (6.35mm)
Wire Leads AC Version	Black (hot), White (neutral), external diode on black wire
Tab Terminals	2.8 x 5.00mm "Gold color" tab = anode "Silver color" tab = cathode
Mounting Torque	0.6 ~ 0.7 N·m (5.3 ~ 6.2 in-lb)

Temperature Specifications	
Operating Temperature	-40°C to +85°C -40°F to +185°F
Storage Temperature	-40°C to +85°C -40°F to +185°F

Product Dimensions

VCC can add crimped connections to your panel mount indicators (PMIs) and combine two final steps into one seamless transaction. We offer a range of connector options, including:





2 Position Connector



Wire-to-Wire Crimp Housing



Crimp Housing Connector



Micro-Fit Connector - Dual Row



Micro Rectangular Power Connector

Compliances and Approvals

REACH COMPLIANCE

RoHS COMPLIANT

IP67