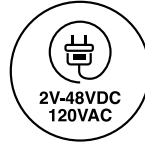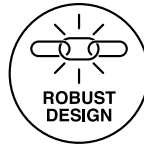# CCLB Series
0.319" (8.10mm) Prominent LED Indicator, Long Body and IP67 sealed

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

Application

- 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)
- Thread size: M8*0.75mm
- Mounting torque: 20 ± 2 in-lb (2.26 ± 0.23 N-mm)
- 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

C	Nickle Finish
*B	Black Matte

1	Leads
2	Tab

| | See Chart for LED Part Number |

| | See Chart for Resistor Value Code |

S	Standard
W	Gasket Seal
I	IP67 (leads only)

*Contact VCC for black matte finish

Example:
CCLB-1-3036-9908-I
CCLB Nickle 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

LED Part Numbers	Color	Luminous Intensity	IF	VF	IF	Viewing Angle	Peak Wavelength
3056	Red	400.0	20	1.9	20	30°	660
3055	Yellow	400.0	20	2.0	20	30°	590
3054	Green	300.0	20	3.2	20	30°	520
3060	Orange	600.0	20	2.1	20	30°	610

SUPER ULTRA BRIGHT

LED Part Numbers	Color	Luminous Intensity	IF	VF	IF	Viewing Angle	Peak Wavelength
3036	Red	2800.0	20	1.85	20	20°	660
3046	Red	900.0	20	1.9	20	30°	626
3047	Green	5490.0	20	3.2	20	20°	520
3048	Amber	1300.0	20	2.02	20	30°	592

BLUE

LED Part Numbers	Color	Luminous Intensity	IF	VF	IF	Viewing Angle	Peak Wavelength
3057	Blue	640.0	20	3.3	20	20°	468

WHITE

| LED Part Numbers	Color	Luminous Intensity	IF	VF	IF	Viewing Angle	Peak Wavelength
3061	White	27000.0	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	10 or 20	None	Not Available
9900	5	10	332	
9928	5	10		121
9901	12	10	1000	
9902	12	10		715
9903	24	10	2210	
9904	24	10		1910
9905	28	10	2610	
9906	28	10		2320
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

Product Dimensions

CCLB Series Wire Leads
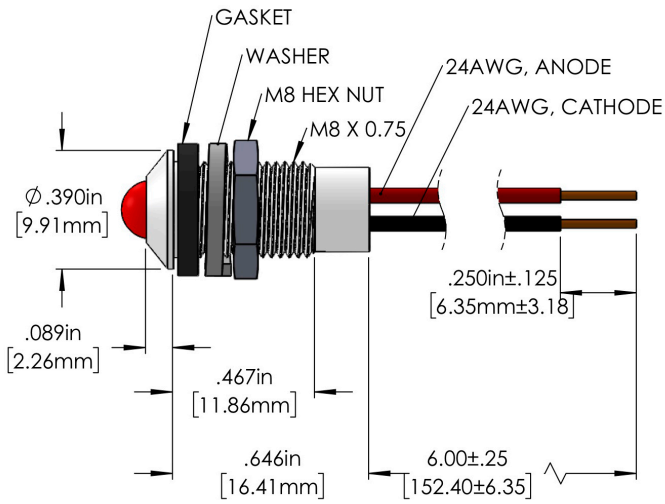
Recommended Mounting Hole

$\varnothing\ 0.319in\ ^{+0.004}_{0.000}$

$\left[\varnothing\ 8.10mm\ ^{+0.10}_{0}\right]$
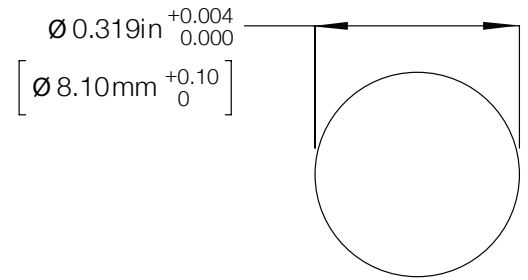
CCLB Series Tab Terminal
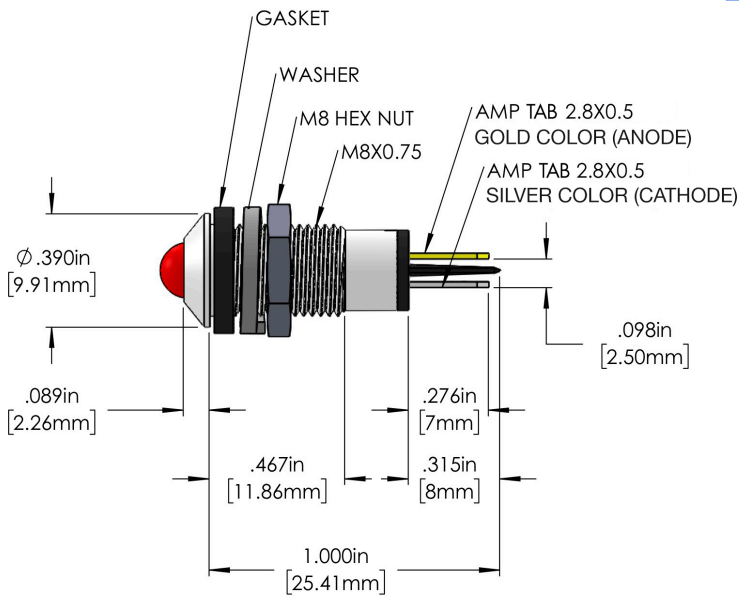
Notes:

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.

Product Dimensions

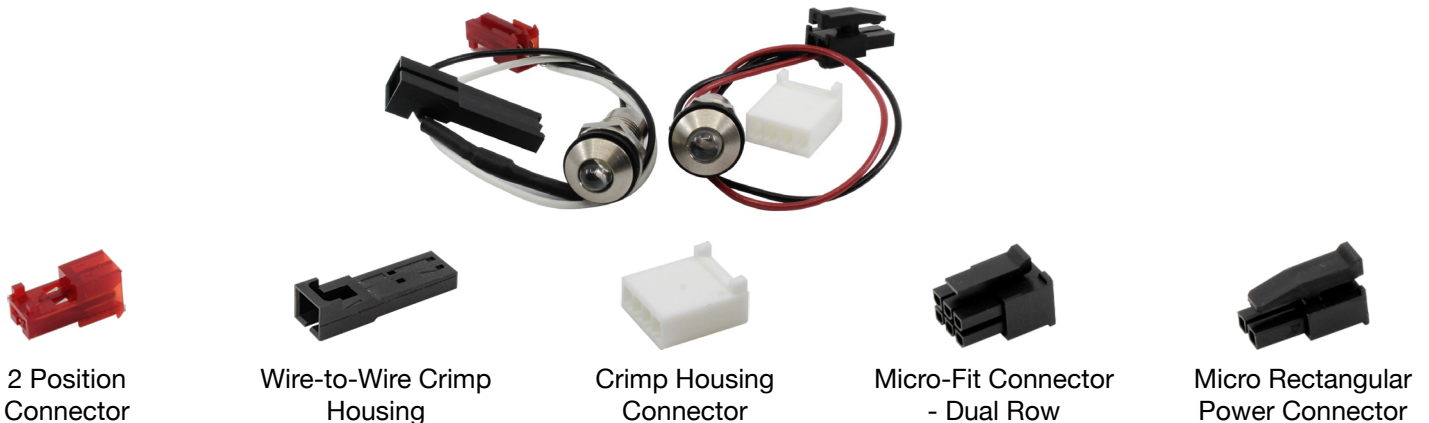| Materials	
Housing	Nickel-plated brass housing
	Black matte finish
Wire Leads	24 awg, 6" length, red anode, black cathode
Washer	Stainless steel
Gasket (for W and I option)	70 BUNA
Hex Nut	Brass Alloy 360 - 1/2 Hard

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 UL1061 6.0" (152.4mm) red (anode) and black (cathode), leads stripped .250" (6.35mm)
Tab Terminals	2.8 x 5.00mm "Gold color" tab = anode "Silver color" tab = cathode
Mounting Torque	20 ± 2in-lb (2.26 ± 0.23 N-mm)

Temperature Specifications	
Operating Temperature	-40ºC to +85ºC -40ºF to +185ºF
Storage Temperature	-40ºC to +85ºC -40ºF to +185ºF

Custom Connector

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

X-ON Electronics

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