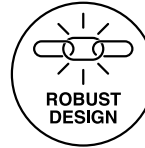


CD Series .236" (6.0mm) LED Indicator, IP67 sealed and Vandal Resistant



LED Indicator with high degree of protection, Prominent bezel style for increased visibility



Applications

- Main Power Indication
- Machine Tools
- Civil Engineering Vehicles
- Maritime, Oil and Gas Industry
- Automation and Control
- Status indication
- Professional Electrical Appliance
- Instrumentation
- Aircraft/Military Instrumentation

Key Features

- For panel hole diameter: 0.236" (6.0mm)
- Prominent bezel style LED indicator for increased visibility (3mm LED T-1)
- LED Indicator with high degree of protection, shock and vibration proof
- Maximum panel thickness: .09" (2.29mm)
- Available in nickel-plated brass housing
- Available with ultra bright daylight viewing LEDs.
- Designed for the extreme, harsh and outdoor environment
- Sealed against moisture and dust (IP67)
- Optional resistor for 5V-28VDC and 120VAC
- Offered with 6" 24 AWG wire leads or bi-pins
- Available in five single illumination colors: red, green, yellow, blue, and white
- Viewing angle: 25°-60° (depending on model)
- Mounting hardware provided: lock washer, hex nut and gasket seal
- Thread size: M6*0.75mm
- Mounting torque: 20 ± 2 in-lb (2.26 ± 0.23 N-mm)
- Resistant to vandal, shock and vibration
- Life Expectancy: 50,000 hours average
- For custom cable length, voltage, connectors, finish or colors, contact VCC
- RoHS and REACH Compliant

Ordering Data

| Series | | Terminal | | LED Specifications | Resistor Code | Sealing | |
|--------|---------------|----------|---------|-------------------------------|-----------------------------------|---------|------|
| CD | | 0 | | 2700 | 9908 | I | |
| CD | Nickel finish | 0 | Bi-Pins | See Chart for LED Part Number | See Chart for Resistor Value Code | I | IP67 |
| *BD | Black finish | 1 | Leads | | | | |

*Contact VCC for black matte finish



Example:

CD-0-2700-9908-I

CD Nickel Finish, Bi-pins, Ultra Bright Green 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) |
|------------------|-------|---|-------------------|------------------------------------|----------------------|
|------------------|-------|---|-------------------|------------------------------------|----------------------|

ULTRA BRIGHT - DAYLIGHT READABLE

| | | | | | | | |
|------|--------|--------|----|------|----|-----|-----|
| 2702 | Red | 299.0 | 20 | 1.85 | 20 | 60° | 660 |
| 2700 | Green | 199.0 | 20 | 2.1 | 20 | 60° | 574 |
| 2701 | Yellow | 219.0 | 20 | 2.0 | 20 | 60° | 590 |
| 8711 | Blue | 2300.0 | 20 | 3.5 | 20 | 25° | 470 |
| 8712 | White | 250.0 | 20 | 3.6 | 20 | 30° | N/A |

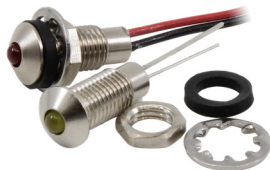
Resistor Chart Operating Specification

| Resistor Value Code | Voltage | Current (mA) | Resistor Value (Ohms) Green, Yellow Red, Bicolor LED | Resistor Value (Ohms) Blue, White LED |
|---------------------|---------|--------------|--|---------------------------------------|
|---------------------|---------|--------------|--|---------------------------------------|

| | | | | |
|------|--------|----|------|-------------|
| 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 |
| 9920 | 120VAC | 8 | 6490 | Contact VCC |

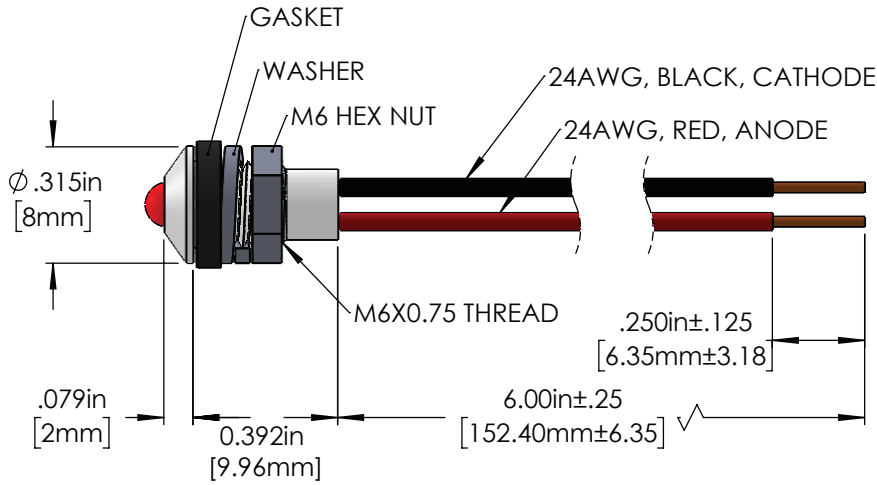
Notes

Indicator also available with a long-body (longer threads) which fit thicker panels up to .256" (6.5mm) - check out the CDLB series.

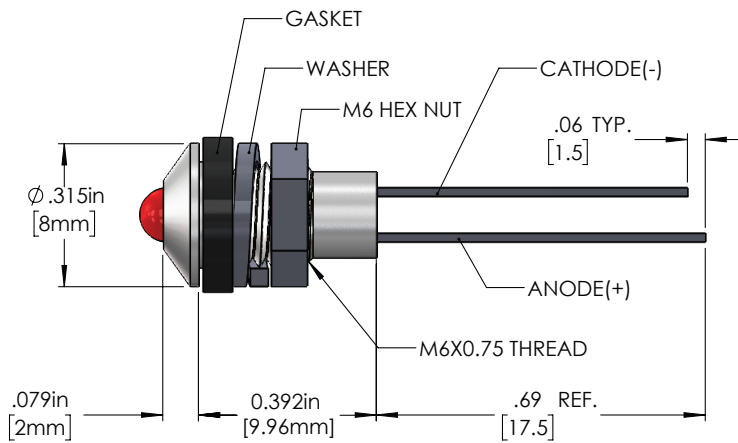


Product Dimensions

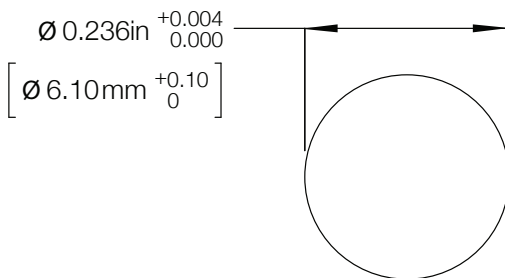
CD Series Wire Leads



CD Series Bi-Pins



Recommended Mounting Hole



Notes:

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

Product Specifications

| Materials | |
|-----------------------------|---|
| Housing | Nickel-plated brass housing |
| 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 | 0.236" +.004/-0.000" (6.0mm +0.10/-0.00mm) |
| Panel Thickness (max.) | 0.09" (2.29mm) |
| Wire Leads | 24AWG UL1061 6.0" (152.4mm) red (anode) and black (cathode), leads stripped .250" (6.35mm) |
| Wire Leads AC Version | Black (hot) White (neutral) with external diode on black wire |
| Mounting Torque | 20 ± 2in-lb (2.26 ± 0.23 N-m) |

| Temperature Specifications | |
|----------------------------|--|
| Operating Temperature | Red, Green and Yellow -40°C to +85°C Blue and White -40°C to +80°C |
| Storage Temperature | Red, Green and Yellow -40°C to +85°C Blue and White -40°C to +100°C |

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

