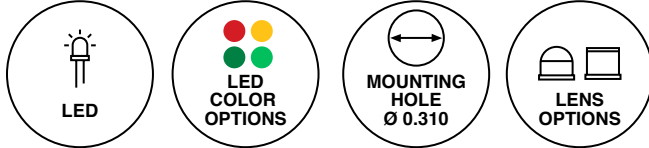


# 2191 Series Ø.310" (7.87mm) with Built-In Resistor LED Panel Mount Indicator



LED panel mount indicator available in wire or tab terminal.  
Choose from different colors, lens types and operating voltages.



## Applications

- Main Power Indication
- Machine Tools
- Manufacturing
- Food Service
- Automation and Control
- Status indication
- Electrical Appliance
- Instrumentation
- Maritime, Oil and Gas Industry

## Key Features

- For panel hole diameter: 0.310" (7.87mm)
- Available in colors: red, yellow, green, and light green
- Offered with a variety of lens options: hi-hat and hi-dome
- Supplied with push-on speednut 8700091652
- Offered with wire leads (22 AWG 4.40/4.80") or quick connect tab terminal (0.187" x .020")
- Available in operating voltage: 6V, 12V and 24V
- Lens: Polycarbonate
- Anode (+): Marked above terminal
- Bezel: Stainless steel
- Housing: White nylon
- Solid-state indicator lights complete with built-in current-limiting resistor and rectifier diode
- For custom cable length, voltage, connectors, finish or colors, contact VCC
- RoHS and REACH Compliant

## Ordering Data

### 2191L (Hi-Hat Lens - Wire)



Example:

**2191L5-12V**

2191 Series Hi-Hat Lens, Green Color,  
12V with Wire Leads

### 2191QL (Hi-Hat Lens - Tab)



Example:

**2191QL7-24V**

2191 Series Hi-Hat Lens, Yellow Color,  
24V with Tab Terminal

Part Number	Color	Lens Type	Terminals	Voltage	Internal Resistor
2191L5-6V	Green	Hi-Hat	Wire Leads	6V	150 Ω
2191L1-6V	Red	Hi-Hat	Wire Leads	6V	150 Ω
2191L5-12V	Green	Hi-Hat	Wire Leads	12V	390 Ω
2191L1-12V	Red	Hi-Hat	Wire Leads	12V	390 Ω
2191L7-24V	Yellow	Hi-Hat	Wire Leads	24V	1000 Ω
2191L5-24V	Green	Hi-Hat	Wire Leads	24V	1000 Ω
2191L1-24V	Red	Hi-Hat	Wire Leads	24V	1000 Ω

Part Number	Color	Lens Type	Terminals	Voltage	Internal Resistor
2191QL5-12V	Green	Hi-Hat	Tab	12V	390 Ω
2191QL7-24V	Yellow	Hi-Hat	Tab	24V	1000 Ω
2191QL5-24V	Green	Hi-Hat	Tab	24V	1000 Ω
2191QL1-24V	Red	Hi-Hat	Tab	24V	1000 Ω

## Ordering Data

### 2191U (Hi-Dome Lens - Wire)



Example:

#### 2191U1-12V

2191 Series Hi-Dome Lens, Red Color,  
12V with Wire Leads

### 2191QU (Hi-Dome Lens - Tab)



Example:

#### 2191QU5-24V

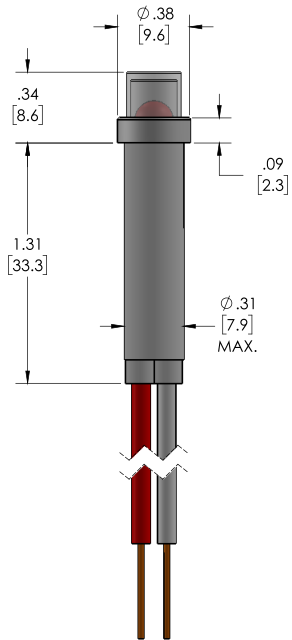
2191 Series Hi-Dome Lens, Green Color,  
24V with Tab Terminal

Part Number	Color	Lens Type	Terminals	Voltage	Internal Resistor
2191U5-6V	Green	Hi-Dome	Wire Leads	6V	150 Ω
2191U7-12V	Yellow	Hi-Dome	Wire Leads	12V	390 Ω
2191U5-12V	Green	Hi-Dome	Wire Leads	12V	390 Ω
2191U1-12V	Red	Hi-Dome	Wire Leads	12V	390 Ω
2191U7-24V	Yellow	Hi-Dome	Wire Leads	24V	1000 Ω
2191U5-24V	Green	Hi-Dome	Wire Leads	24V	1000 Ω
2191U1-24V	Red	Hi-Dome	Wire Leads	24V	1000 Ω

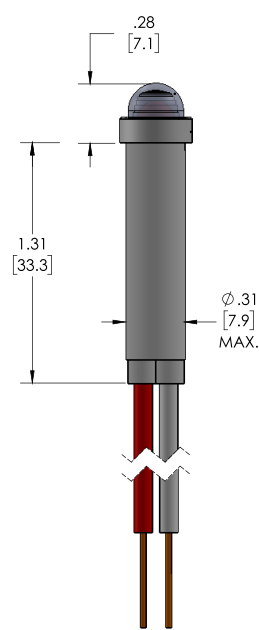
Part Number	Color	Lens Type	Terminals	Voltage	Internal Resistor
2191QU5-12V	Green	Hi-Dome	Tab	12V	390 Ω
2191QU51-24V	Light Green	Hi-Dome	Tab	24V	1000 Ω
2191QU7-24V	Yellow	Hi-Dome	Tab	24V	1000 Ω
2191QU5-24V	Green	Hi-Dome	Tab	24V	1000 Ω
2191QU1-24V	Red	Hi-Dome	Tab	24V	1000 Ω

# Product Dimensions

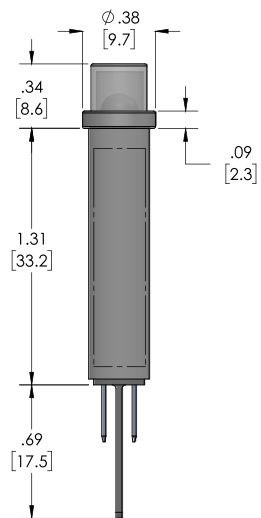
**2191L (Hi-Hat Lens- Wire)**



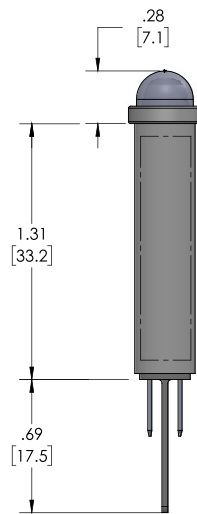
**2191U (Hi-Dome Lens - Wire)**



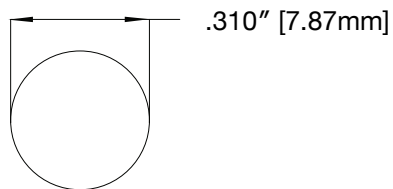
**2191QL (Hi-Hat Lens- Tab)**



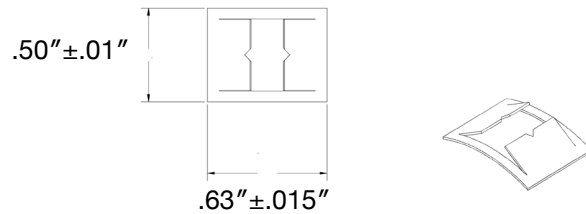
**2191QU (Hi-Dome Lens - Tab)**



**Recommended Mounting Hole**



**Speed Nut: 8700091652**



**Notes:**

1. All dimensions are in inches [millimeters]
2. Tolerance is  $\pm 0.25''$  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	White Nylon
Wire Leads	22 AWG, 4.40"/4.80" length, red anode, black cathode
Tab Terminal	Tinned Brass
Lens	Polycarbonate
Bezel	Stainless Steel

Voltage Table		
Nominal	VAC	VDC
6V	5 to 11	3.5 to 6.5
12V	10 to 20	6 to 13.5
24V	22 to 32*	12 to 24+

\* BEYOND 32 VAC ADD 30 OHMS PER VOLT

+BEYOND 24 VDC ADD 50 OHMS PER VOLT USE 1/2W RESISTOR UP TO 50V  
1W RESISTOR FOR 50V TO 70V  
2 W RESISTOR FOR 75V TO 125V DO NOT USE BEYOND 125V

Installation Specifications	
Mounting Hole	0.310" (7.87mm)
Wire Leads	22 AWG 4.40/4.80" (111.8mm/121.9mm) red (anode) and black (cathode), leads stripped .43/.57" (10.9mm/14.5mm)
Tab Terminal	Quick-connect, Tinned brass .187" x .020"

LED	Incorporates LED*
Red	4304H1
Green	4304H5
Yellow	4304H7

\* ALSO INCORPORATES 1N4004 (400 P.I.V.) RECTIFIER DIODE.

## Compliances and Approvals

