

P8 Series 0.500" (12.7mm) LED Panel Mount Indicator



Designed to enhance the LED contrast Available in tab terminals or wire leads











Application

- Industrial
- Transportation
- Food Service

- People Mover
- Monitoring Equipment
- Commercial Kitchen
- Oil and Gas Industry
- Manufacturing
- Automation & Control

Key features

- Snap-fit into 0.500" (12.7mm) panel hole
- Offered with wire leads or tab terminals, 2 different lens styles, 5 different lens colors and operating voltage range from 2 to 60 VDC and 120VAC
- Designed to enhance the LED contrast and features a front panel snap-in mounting that eases installation, and requires no additional hardware
- Available in two different lens styles: hi-hat or flat all offered in five different lens colors with fresnel pattern lens that provides an excellent light focus and assures maximum light output
- Available with a variety of LEDs and provides low energy consumption, fast on/off cycling, low heat generation, and long operating life
- · Available in six LED single colors: red, green, amber, orange, blue, and white
- Black housing offering which enhances the LED contrast
- "D" mounting hole prevents any rotation of the indicator when installed and connected during the assembly process
- Designed for quick installation in display panels and reduces overall cost due to less-frequent replacements
- Designed, manufactured and tested in accordance with the relevant UL standards
- Compliant with RoHS and REACH
- For customized options, please contact us



Ordering Data

TO ORDER, FOLLOW THE EXAMPLE

Part Number: P81-G24-CG

Select one BOLD component from each numbered category in the tables below.								
4	Model	0	LED	2	Voltage	4	Lens	
	P81	2	-G	3	24	4	-CG	

1	Model	Characteristics
	P81	Hi-Hat Lens/ Tab Terminals
	P81W	Hi-Hat Lens/ Wire Leads
	P84	Flat Lens/ Tab Terminals
	P84W	Flat Lens/ Wire Leads

High Intensity - Waterclear Encapsulation

LED	Color	λpk (nm)	I _V [1] (mcd)	Viewing Angle	V/C Table ^[2]
-R	RED	623	900	75	1
-0	ORG	605	360	75	1
-A	AMB	589	540	75	1
-G	GRN	525	1500	75	l II
-В	BLU	460	1350	75	l II
-W	CWHT		810	75	l II

3	Voltage[3]
	2
	5H
	6H
	12H
	15H
	24H
	28H
	48H
	60H
	120

Voltage/Current						
Design V _f /I _f	Max V _f /I _f					
V/C Ta	ble I					
5V/22mA	5.5V/28mA					
6V/21mA	7V/27mA					
12V/20mA	14V/25mA					
15V/24mA	16.5V/28mA					
24V/17mA	26V/20mA					
28V/16.5mA	30V/18mA					
48V/15mA	50V/16mA					
60V/9mA	65V/10mA					
120VAC/3.5mA	130VAC/4mA					

Voltage/Current						
Design V _f /I _f	Max V _f /I _f					
V/C Tal	ble II					
5V/15mA 6V/15mA 12V/15mA 15V/15mA 24V/15mA 28V/15mA 48V/9.5mA 60V/7mA	5.5V/23mA 7V/25mA 14V/20mA 16.5V/18mA 26V/18mA 30V/17mA 50V/10mA 65V/8mA					
120VAC/3.5mA	130VAC/4mA					

4	Lens					
	-CR	Red				
	-CA Amber					
	-CG	Green				
	-CB Blue					
	-CW	Water Clear				

Standard Wire Leads

All dimensions are in inches (mm)

6.0" total length (nominal)/.50" stripped (nominal), red anode/black cathode, 18 AWG stranded UL1015 insulation. Contact factory for other lengths, gauges and colors.

Tolerances: .xx"(.x) ±.025"(.63) / .xxx"(.xx)±.010"(.25). Specifications are subject to change without notice.

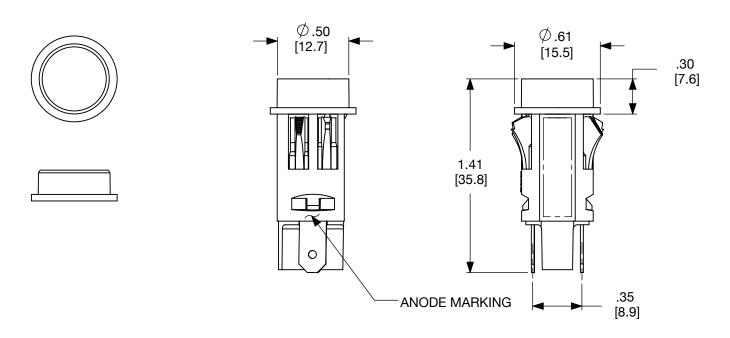
[1] I_V = typical luminous intensity@ I_f = 20mA (Ta=25°C). I_V is measured without lenses.

[2] See Voltage/Current table for design specifications.

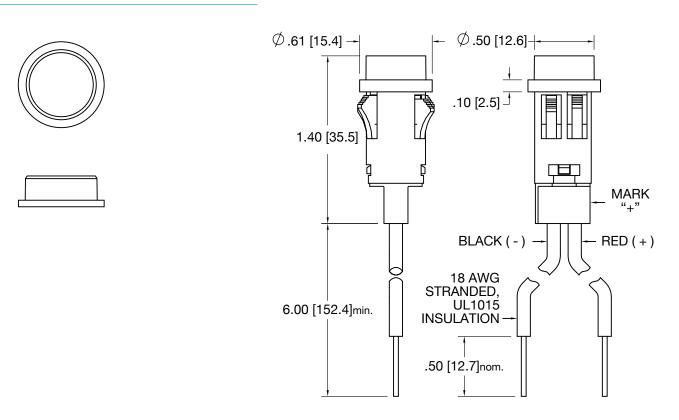
[3] Ta = 25°C. Voltages 5 through 60 are VDC. For AC operation, insert D after Voltage (e.g 24D), D indicates built-in rectifier; not required for 5VDC or 120VAC. DC operation not available for 120V.



P81 Hi-Hat Lens (Tab Terminals)

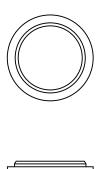


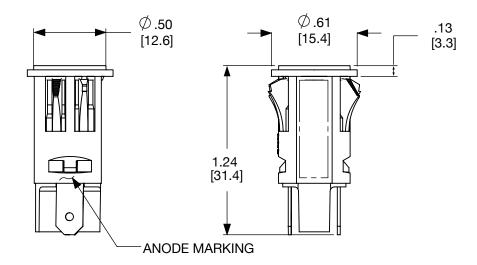
P81W Hi-Hat Lens (Wire Leads)



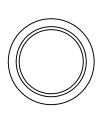
Dimensions in inches [mm]

P84 Flat Lens (Tab Terminals)

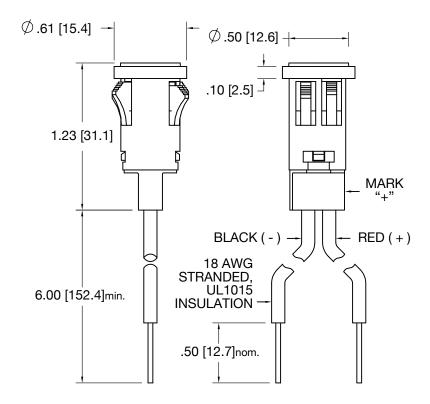




P84 Flat Lens (Wire Leads)

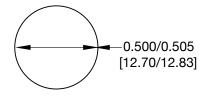




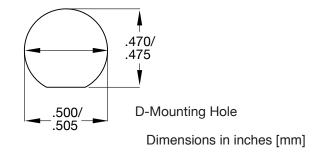


Dimensions in inches [mm]

Mounting Hole



Standard Mounting Hole



Product Specifications

Materials					
Housing	Black Nylon UL94 V-2				
Lens	Clear Polycarbonate Fresnel Lexan				
Bezel	Pattern Black Nylon				
Tab (P81 and P84)	Quick-connect tinned brass				
Wire (P81W & P84W)	18AWG Red anode/Black cathode Stranded UL1015 insulation				

Installation Specifications					
Mounting Hole	0.500" to 0.505" (12.70 to 12.83 mm)				
D-Mounting Hole	0.470" to 0.475" (11.94 to 12.07 mm)				
Panel Thickness	0.020" to 0.100" (0.51 to 2.54 mm)				
Tab Terminals	0.187" (4.75mm) terminals				
Wire Leads	18AWG 6" length/0.5" stripped				

Temperature Specifications					
Operating	-30°C to +60°C				
Temperature	-22°F to +185°F				
Storage	-40°C to +100°C				
Temperature	-40°F to +212°F				

Parameter		LED color						Unit
		Orange	Amber	Green	Blue	White	Warm-white	Offic
TYP. Luminous intensity @ I _f =20mA	780	360	600	780	168	700	600	mcd
Reverse breakdown @ I _r =100uA @ I _r =50uA	5	5	5	5	5	5	5	V
Peak wavelength	629	611	592	520	465	-	-	nm
Dominant wavelength	623	605	590	525	470	-	-	nm
TYP. Color temperature	-	-	-	-	-	6500	3000	K

Compliances and Approvals







