

# P8 Series Ø .500" (12.7mm) LED Panel Mount Indicator



P8 Series offered in multiple colors and lens style, designed to enhance the LED contrast, available in tab terminals or wire leads.



## **Key Features**

- Mounting hole size: .500" (12.7mm)
- Panel Thickness: 0.020" (0.51mm) to 0.100" (2.54 mm)
- Lens type options: hi-hat and flush all offered in four different lens colors with fresnel pattern lens that provides an excellent light focus and assures maximum light output
- · Lens color options: red, amber, blue, and green
- Voltage options: 12-24VDC and 120VAC
- Terminals: tab terminals or wire leads (6" wire leads, 24 AWG)
- Wire leads: 6.0" total length (nominal) /.50" stripped (nominal), red anode/black cathode, 18 AWG stranded UL1015 insulation
- · LED single color options: red, amber, blue, and green
- "D" mounting hole prevents any rotation of the indicator when installed and connected during the assembly
  process
- · Black housing offering which enhances the LED contrast
- Designed to enhance the LED contrast and features a front panel snap-in mounting that eases installation, and requires no additional hardware
- Available with a variety of LEDs and provides low energy consumption, fast on/off cycling, low heat generation, and long operating life
- · 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
- For custom cable length, connectors or colors contact VCC
- · Compliant with RoHS and REACH



### **Ordering Data**

#### P81 (Hi-Hat Lens)

#### P81W (Hi-Hat Lens)



## Example: **P81-R24HD-CR**

P8 Series Hi-Hat Lens, Red LED, Red Lens, 24V with Tab Terminals



## Example:

P81W-A12H-CA P8 Series Hi-Hat Lens, Amber LED, Amber Lens, 12V with Wire Leads

		Jok	lv	Viewing	Lens		Voltage/Current		
Part Number	Color	λpk (nm)	(mcd)	Angle	Color	Terminals	Design Vf/lf	Max Vf/lf	
	-					1		1	
P81-R24HD-CR	Red	634	780	75	Red	Tab Terminals	24V/17mA 26V/20m		
				\ <b>C</b>	• • • •		Voltage/Curre		
Part Number	imber Color λpk Iv Viewing Lens (nm) (mcd) Angle Color Terminals	Terminals	Design Vf/If	Max Vf/lf					
P81W-A12H-CA	Amber	592	600	75	Amber	Wire Leads	12V/20mA	14V/25mA	
P81W-B12H-CB	Blue	465	168	75	Blue	Wire Leads	12V/15mA 14V/20m/		
P81W-G12H-CG	Green	520	780	75	Green	Wire Leads	12V/15mA	14V/20mA	
P81W-R12H-CR	Red	634	780	75	Red	Wire Leads	12V/20mA	14V/25mA	

#### P84 (Flush Lens)

#### P84W (Flush Lens)



## Example: P84-A120-CA



#### Example: P84W-G12H-CG-R-

P8 Series Flush Lens, Green LED, Green Lens, 12V with Wire Leads

120VAC/3.5mA

	2.01	λpk	lv	Viewing	Lens		Voltage/Current		
Part Number	Color	(nm)	(mcd)	Angle	Color	Terminals	Design Vf/lf	Max Vf/lf	
							I		
P84-A120-CA	Amber	592	600	75	Amber	Tab Terminals	120VAC/3.5mA	130VAC/4mA	
P84-B120-CB	Blue	465	168	75	Blue	Tab Terminals	120VAC/3.5mA	130VAC/4mA	
P84-G120-CG	Green	520	780	75	Green	Tab Terminals	120VAC/3.5mA 130VAC/4m		
		λpk	lv	Viewing	Lens		Voltage/Current		
Part Number	Color	(nm)	(mcd)	Angle	Color	Terminals	Design Vf/If	Max Vf/lf	
								1	
P84W-A12H-CA-R-	Amber	592	600	75	Amber	Wire Leads	12V/20mA	14V/25mA	
P84W-G12H-CG-R-	Green	520	780	75	Green	Wire Leads	12V/15mA	14V/20mA	
P84W-R12H-CR-R-	Red	634	780	75	Red	Wire Leads	12V/20mA 14V/25mA		

Red

Wire Leads



P84W-R120-CR

634

780

75

Red

130VAC/4mA

## **Product Dimensions**

#### P81 (Hi-Hat Lens)



P81W (Hi-Hat Lens)



#### P84 (Flush Lens)



## P84W (Flush Lens)



#### **Recommended Mounting Hole**





#### 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	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℃ to +60℃				
Temperature	-22℉ to +185℉				
Storage	-40°C to +100°C				
Temperature	-40°F to +212°F				

Doromotor	LED color							
Parameter	Red	Orange	Amber	Green	Blue	White	Warm-white	Unit
TYP. Luminous intensity @ I <sub>f</sub> =20mA	780	360	600	780	168	700	600	mcd
Reverse breakdown @ Ir=100uA @ Ir=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**



