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.

1 Model	2 LED	3 Voltage	4 Lens
P81	**-G**	**24**	**-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

2

High Intensity - Waterclear Encapsulation

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

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

3

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

4

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

Standard Wire Leads

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.

All dimensions are in inches (mm)

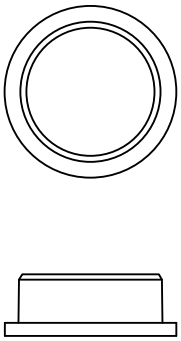
Tolerances: .xx"(.x) ±.025"(.63) / .xxx"(.xx)±.010"(.25). Specifications are subject to change without notice.

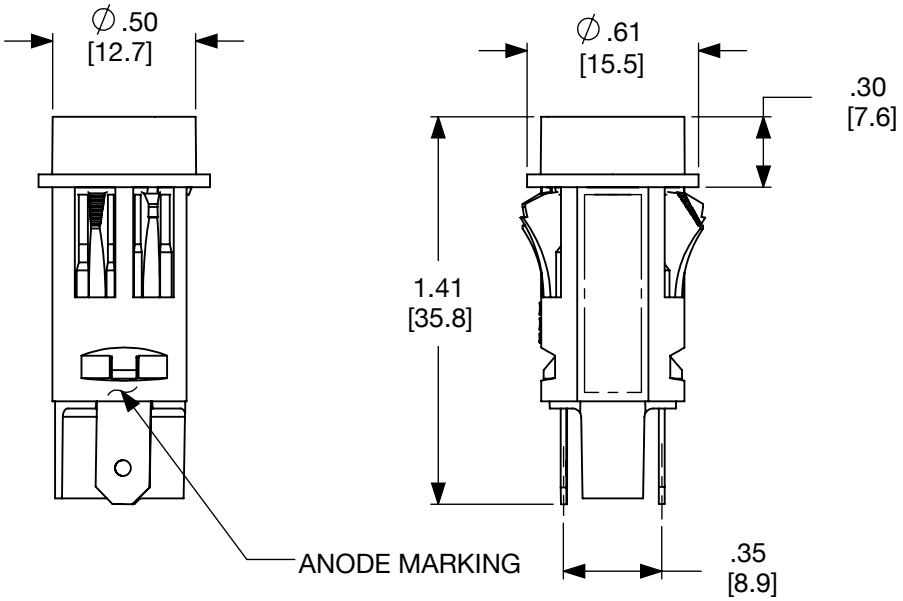
[1] I_V = typical luminous intensity@ I_f = 20mA (Ta=25°C). I_V is measured without lenses.

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

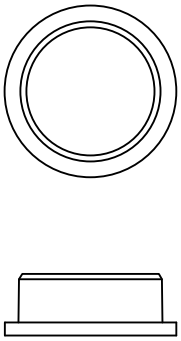
[3] Ta = 25°C. Voltages 5 through 60 are VDC. For AC operation, insert D after Voltage (e.g 24D), D indicates built-in rectifier; not required for 5VDC or 120VAC. DC operation not available for 120V.

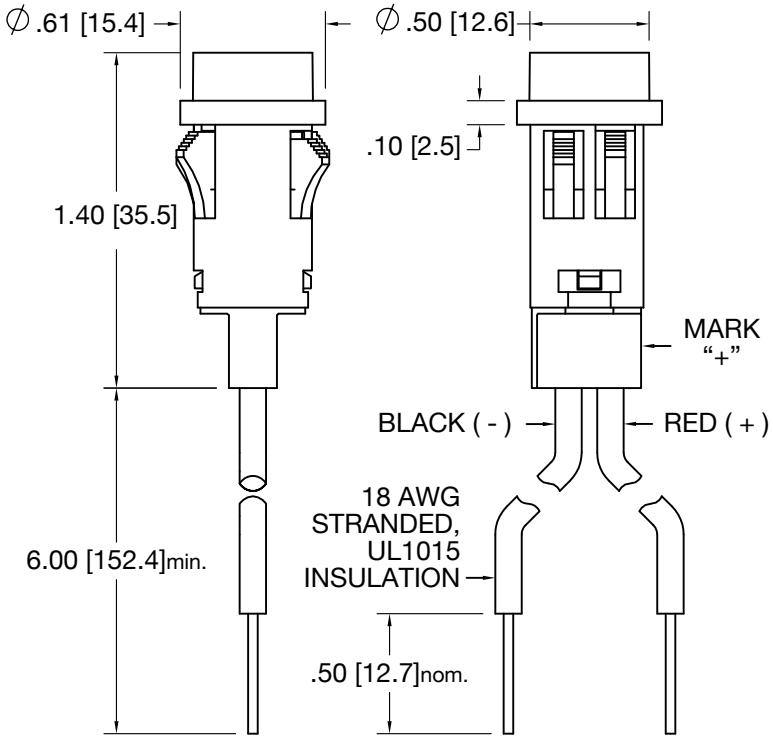
P81 Hi-Hat Lens (Tab Terminals)





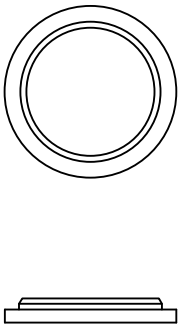
P81W Hi-Hat Lens (Wire Leads)

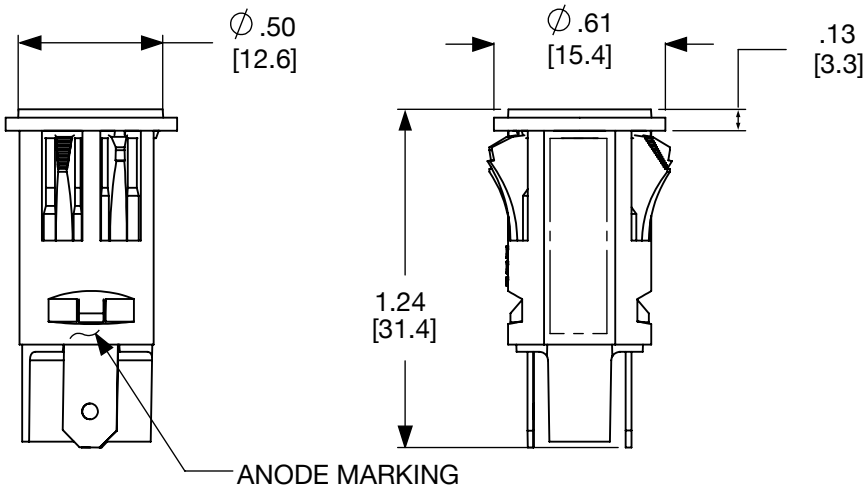




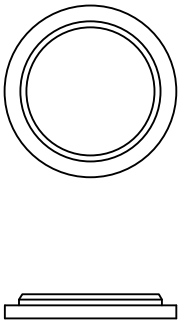
Dimensions in inches [mm]

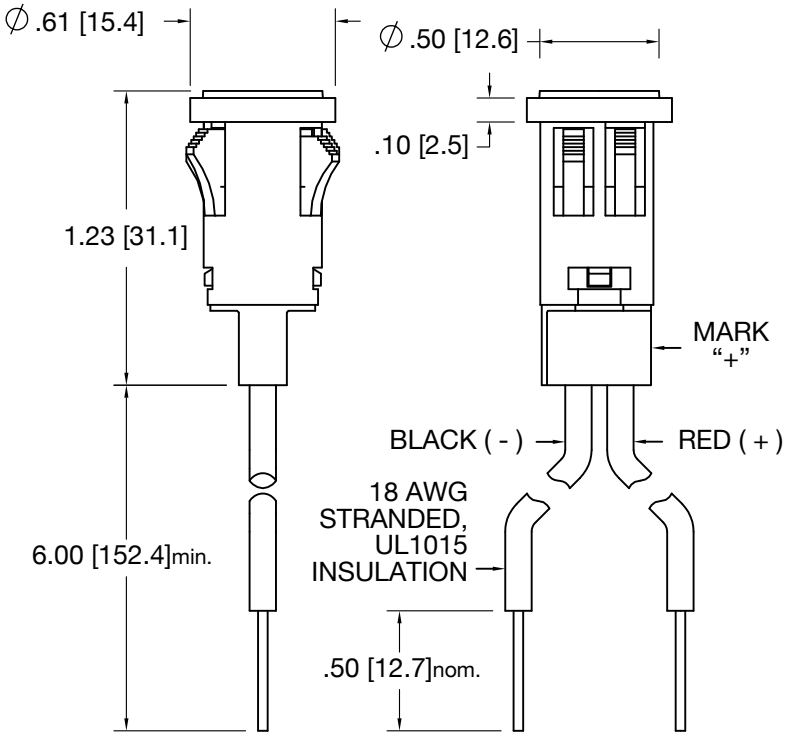
P84 Flat Lens (Tab Terminals)





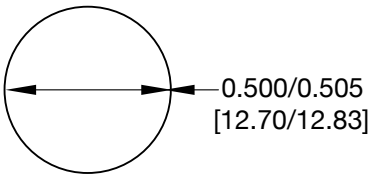
P84 Flat Lens (Wire Leads)



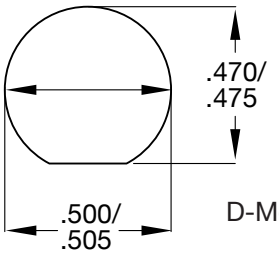


Dimensions in inches [mm]

Mounting Hole



Standard Mounting Hole



D-Mounting Hole

Dimensions in inches [mm]

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 Temperature	-30˚C to +60˚C -22˚F to +185˚F
Storage Temperature	-40˚C to +100˚C -40˚F to +212˚F

Parameter	LED color							Unit
	Red	Orange	Amber	Green	Blue	White	Warm-white	
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

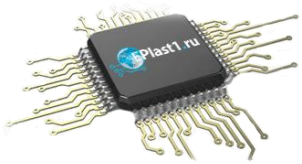
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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