



# 40 Series 0.250" (6.35mm) LED Panel Mount Indicator



**40 Series with built-in long life LED offer superior construction and longer life**  
**Flush or Raised LED indicator with fresnel lens, single, bi-color, or tri-color LED**  
**Voltage: 2VDC - 120VAC**

## Key features

- Mounting hole size: .250" (6.35mm)
- Prominent and flush lens options
- Voltage: 2-60 VDC or 120VAC
- Terminals: Cartridge, Bi-pin and wire leads (6" wire leads, 24 AWG)
- Available with a variety of LEDs including AlInGaP and InGaN technology for high brightness applications, single color, bi-color and with integrated resistors
- T-1 3/4 (5mm) LED
- Available in six LED single colors: red, amber, green, orange, blue and white with or without lens
- Available in one bi-color: red/green with or without lens
- Available in two tri-color: red/amber/green or green/amber/red with or without lens
- Seven lens colors available: red, amber, yellow, green, blue, water clear and smoke
- Offered with a variety of lens options: hi-hat, wide hi-hat, flush, wide flush or hi-dome, all featured with fresnel pattern lens which provides excellent light focus and assures maximum light output
- Low power consumption - uses up to 90% less energy than an incandescent indicator
- Mounts with spring retainer and washer (included)
- Offered with black bezel that enhances the LED contrast
- Suitable for high vibration applications
- LEDs operate significantly cooler than traditional lamps
- Compliant with RoHS and REACH



1	Model	Wires
	<b>C</b> <sup>[1]</sup>	<b>405</b> <sup>[2]</sup>
	(optional)	(optional)
	41	
	44	
	46	
	461	
	464	

**TO ORDER, FOLLOW THE EXAMPLE:**

Select one <b>BOLD</b> component from each numbered category in the tables below.											
1	Model	2	LED	3	Voltage	4	Lens Diffusion	5	Lens Color	6	Bezel Color
	41		-BCG		5H		-C		G		0

→ Part Number **41-BCG5H-CG0**

STANDARD INTENSITY - DIFFUSED ENCAPSULATION						
2	LED	Color	$\lambda_{pk}$ (nm)	$I_v^{[3]}$ (mcd)	Viewing Angle	V/C Table <sup>[5]</sup>
	-BR <sup>[4]</sup>	RED	635	14	60	I
	-BA <sup>[4]</sup>	AMB	583	16	60	I
	-BG <sup>[4]</sup>	GRN	565	10	60	I

MEDIUM INTENSITY - TINTED ENCAPSULATION					
LED	Color	λ <sub>pk</sub> (nm)	I <sub>v</sub> <sup>[3]</sup> (mcd)	Viewing Angle	V/C Table <sup>[5]</sup>
-BCR	RED	635	120	35	I
-BCA	AMB	583	100	35	I
-BCG	GRN	565	80	24	I

HIGH INTENSITY - WATERCLEAR ENCAPSULATION					
LED	Color	λpk (nm)	Iv <sup>[3]</sup> (mcd)	Viewing Angle	V/C Table <sup>[5]</sup>
-NWR	RED	634	2800	30	I
-NWO	ORG	605	2000	30	I
-NWA	AMB	592	2800	30	I
-NWG	GRN	520	2400	45	II
-NWB	BLU	465	700	45	II
-NWW <sup>[8]</sup>	CWHT		2500	50	II
-NWL <sup>[8]</sup>	WWHT		1800	50	II
-NKR	RED	634	3600	15	I
-NKO	ORG	605	8000	15	I
-NKA	AMB	592	3600	15	I
-NKG	GRN	520	10000	15	II
-NKB	BLU	465	3000	15	II
-NKW <sup>[8]</sup>	CWHT		9200	20	II
-NKL <sup>[8]</sup>	WWHT		9200	15	II

Voltage/Current	
Design V <sub>f</sub> /I <sub>f</sub>	Max V <sub>f</sub> /I <sub>f</sub>
V/C Table I	
5V/22mA	5.5V/28mA
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 <sub>f</sub> /I <sub>f</sub>	Max V <sub>f</sub> /I <sub>f</sub>
V/C Table II	
5V/15mA	5.5V/23mA
12V/15mA	14V/20mA
15V/15mA	16.5V/18mA
24V/15mA	26V/18mA
28V/15mA	30V/17mA
48V/9.5mA	50V/10mA
60V/7mA	65V/8mA
120VAC/3.5mA	130VAC/4mA

3	Voltage <sup>[6]</sup>
	2
	5H
	12H
	15H
	24H
	28H
	48H
	60H
	120 <sup>[9]</sup>

4	Lens Diffusion
	-C Clear
	-N Diffused

5	Lens Color
	R Red      B Blue
	A Amber    W Water Clear
	Y Yellow
	G Green      -S Smoke <sup>[10]</sup>

6	Bezel Color
	0 Black
	9 White

SPECIALTY LEDs						Description
	LED	Color	λ <sub>pk</sub> (nm)	I <sub>v</sub> <sup>[3]</sup> (mcd)	Viewing Angle	
	-RLP <sup>[7]</sup>	RED	635	2.3	50	[5] Low Power
	-ALP <sup>[7]</sup>	AMB	583	2.1	50	[5] Low Power
	-GLP <sup>[7]</sup>	GRN	565	2.3	50	[5] Low Power
	-LRG <sup>[8]</sup>	RED/GRN	660/565	90/40	60	I Bi-Color, Red Cathode
	-RAG <sup>[8]</sup>	RED/AMB/GRN	630/565	6/6/6	60	I Tri-Color, Common Cathode
	-GAR <sup>[8]</sup>	GRN/AMB/RED	635/565	5/5/5	50	I Tri-Color, Common Anode

[1] The C option specifies a pin length = .20" for panel lights mounted in the PS40 or PS44 socket (pg. 44). Mounting hardware is included with the socket. Do not select the W option.

[2] Model 405 has no lens. Omit the Lens Diffusion and Color (e.g. 405-BG5H-0).

[3] I<sub>v</sub> = typical luminous intensity @ I<sub>f</sub> = 20mA (Ta = 25°C). I<sub>v</sub> is measured without lenses. For Low Power LEDs, I<sub>f</sub> = 2mA.

[4] Use with Model 405 only.

[5] See Voltage/Current table for design specifications. Design current for low power LEDs = 2mA.

[6] Ta = 25°C. Voltage "2" indicates external resistor required. Voltages 5H through 60H are VDC.

For AC operation, insert D after Voltage (e.g. 24HD). D indicates built-in rectifier; not required for 5H or 120VAC. DC operation not available for 120V. Bi-Color and Tri-Color not available in AC voltages.

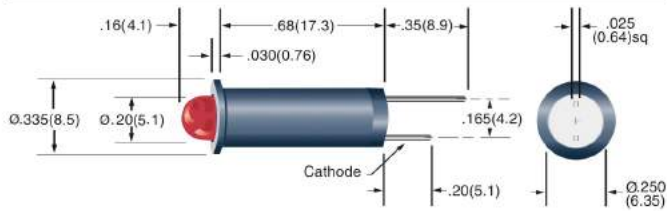
[7] Omit H when selecting a voltage (e.g. 41-RLP12-CW0).

[8] Select -CW or -NW lens only. -RAG Wire Leads: green anode/black cathode/red anode. -GAR Wire Leads: green cathode/black anode/red cathode. Common lead is the first lead clockwise from reference mark on header.

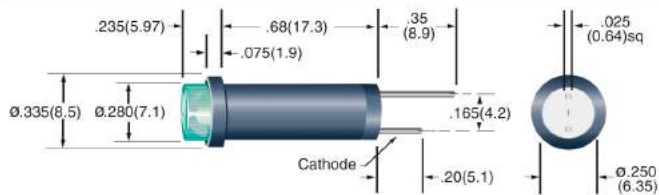
[9] Select high intensity LEDs only.

[10] Omit lens diffusion when selecting smoked lens. (e.g. 46-NWR-S0).

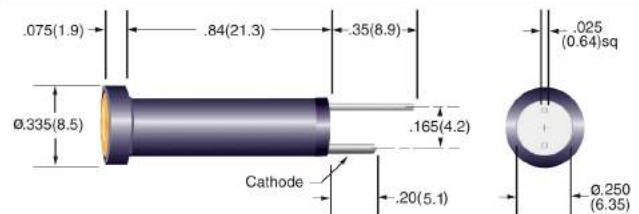
### 405 (no lens)



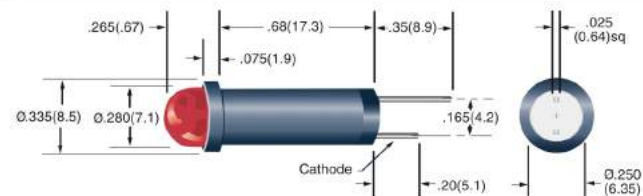
### 41 Hi-Hat Lens



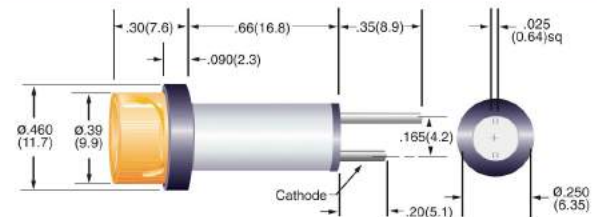
### 44 Flush Lens



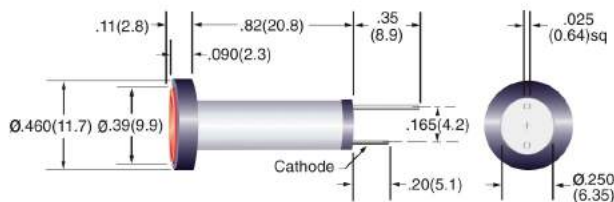
### 46 Hi-Dome Lens



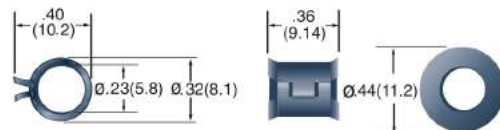
### 461 Wide Hi-Hat Lens



### 464 Wide Flush Lens



### TC4 & NW4, Mounting Hardware see note [1]



### Standard Wire Leads:

6.0" total length(nominal)/.50" stripped (nominal), red anode/black cathode, 24 AWG TPB UL1061 insulation. Contact factory for other lengths, gauges and colors.

### All dimensions are in inches (mm)

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

TO ORDER, FOLLOW THE EXAMPLE:

Select one <b>BOLD</b> component from each SHADED column in the tables below.	
1 Model/ Part #	2 # of Pins
<b>PS40</b>	-2

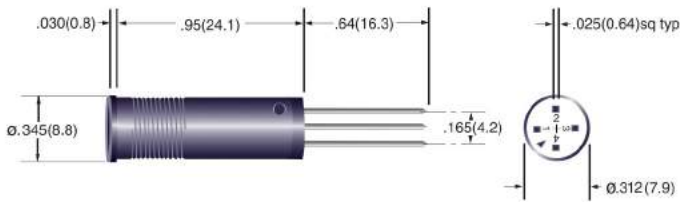
→Part Number **PS40-2**

40 SERIES SOCKETS & WIRING PLUGS	
1 Model	Description
<b>PS40</b>	Sockets for use with Models C405, C41, C46, C461
<b>PS44</b>	Sockets for use with Models C44, C464
<b>SH40</b>	Wiring Plug for use with 40 or C40 series
<b>CSH40</b>	Wiring Plug for use with C40 series

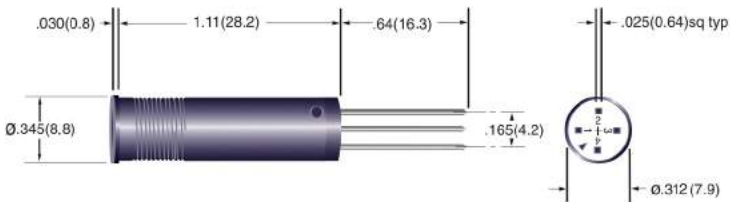
2 Number of Pins	Configuration
-2	<b>2, 4</b>
-3	<b>1, 2, 4</b>
-4	<b>1, 2, 3, 4</b>

40 SERIES HARDWARE	
Part Number	Description
<b>CS24</b>	Gold Plated Crimp Terminals
<b>CS24T</b>	Tin Plated Crimp Terminals
<b>TC4</b>	40 Series Mounting Clip
<b>NW4</b>	40 Series Mounting Washer

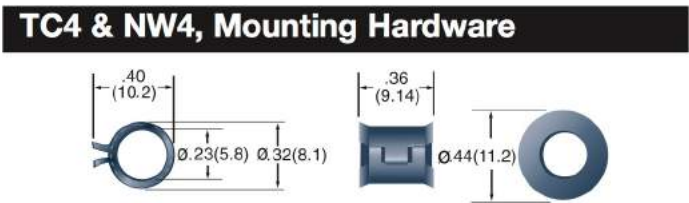
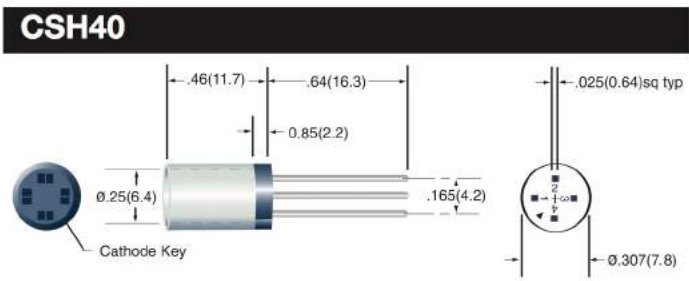
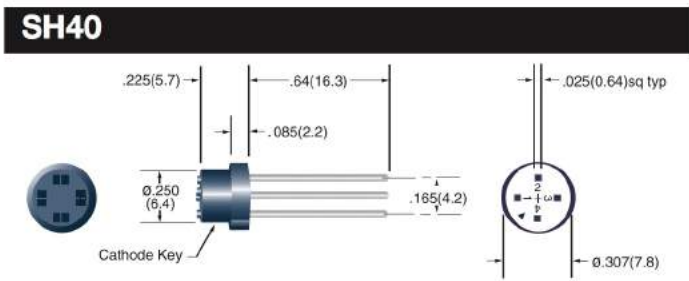
PS40 TC5 & NW5 mounting hardware provided



PS44 TC5 & NW5 mounting hardware provided







**All dimensions are in inches (mm)**  
Tolerances: .xx"(.x) ±.025"(.63) / .xxx"(.xx)±.010"(.25)  
Specifications are subject to change without notice.