imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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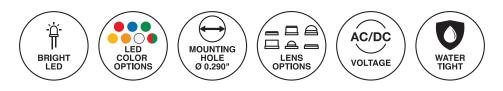




90 Series 0.290" (7.37mm) LED Panel Mount Indicator



90 Series with built-in long life LED offer superior construction and longer life Cartridge, bi-pin and wire leads termination styles

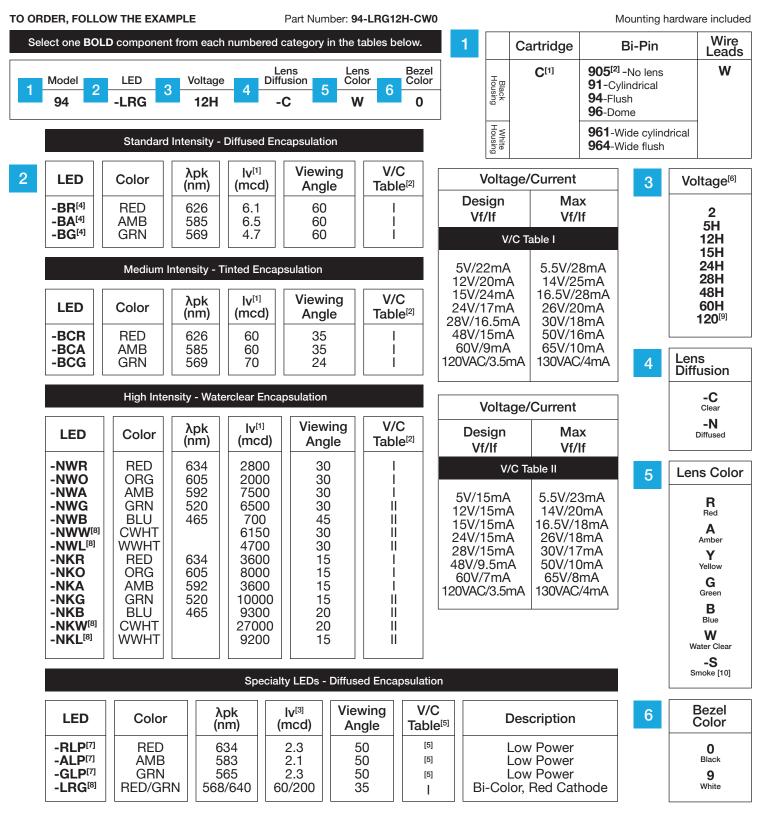


Key features

- Built-in LED can be used with DC circuits (5 to 60 VDC) or 120VAC circuits
- Terminal Styles: cartridge, bi-pin and wire leads (6" 24 AWG wire leads)
- Available with a variety of LEDs including AlInGaP and InGaN technology for high brightness applications, bi-color and with integrated resistors
- Available in six LED solid colors: red, green, white, blue, amber, orange and in one bi-color: red/green with or without lens
- · Seven lens colors available: red, amber, yellow, green, blue, water clear and smoke
- Offered with a variety of lens options: cylindrical, flush, dome, wide cylindrical or wide flush, all featured with fresnel pattern lens which provide excellent light focus and assure maximum light output
- Spring retainer clip and washer (included) secures uniform placement of the indicator to the panel and is ideal for high vibration environments
- · Offered with white or black bezel, where the black bezel enhances LED contrast
- Resistant to shock and vibration
- Mounting hardware provided (spring retainer clip and washer)
- Watertight socket options for splashdown environments
- For use with spring retainer clip (included), socket holder (PS90 or PS90T sold separately) or wiring plug (SH90 or CSH90 sold separately)
- Compliant with RoHS and REACH



Ordering Data



[1] For panel lights mounted in the PS90 or PS90T socket (pg. 5). Mounting hardware is

included with the socket. Do not select the W option. C and standard pins are not solderable.

[2] Model 905 has no lens. Omit Lens Diffusion and Color (e.g. 905 ·BG5H·O).

[3] Iv = typical luminous intensity @ If = 20mA [Ta = 25°C). Iv is measured without lenses. For Low Power LEDs, If = 2mA. [7] Omit H when selecting a voltage (e.g. 91-RLP12-CWO). [4] Use with Model 905 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 not available in AC voltages.

[8] Select -CW or -NW Lens only.

[9] Select high intensity LEDs only

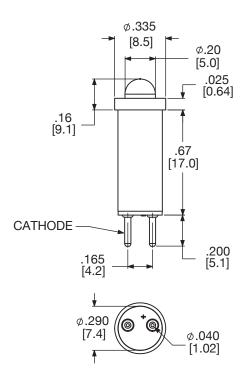
[10] Omit Lens Diffusion when selecting smoked lens (e.g. 91-NWG24H-S0).



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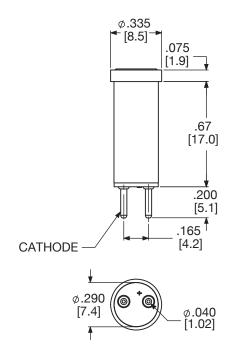
905^[1]

No Lens - Black Housing



94^[1]

Flush Fresnel Lens - Black Housing

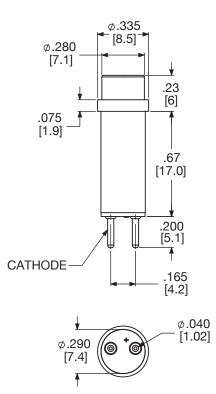


[1] Dimensions for cartridge and bi-pin



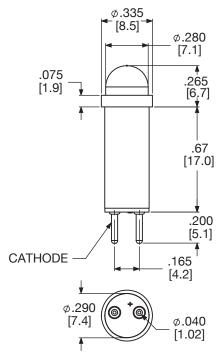
91^[1]

Cylindrical Fresnel Lens - Black Housing



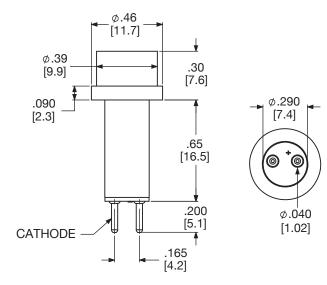
96^[1]

Dome Lens - Black Housing



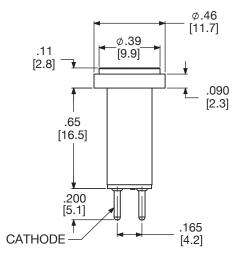
961^[1]

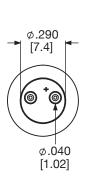
Wide Cylindrical Fresnel Lens - White Housing



964^[1]

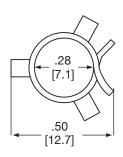
Wide Flush Fresnel Lens - White Housing



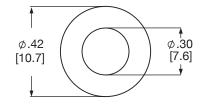


Mounting Hardware (included)

TC9-R-Spring Retainer Clip



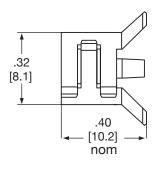
NW5 Mounting Washer

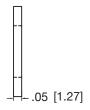


Hardness: 60 Shore A

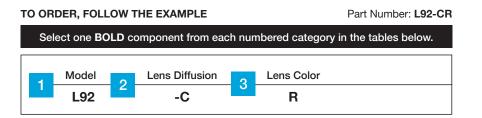
[1] Dimensions for cartridge and bi-pin







Lens, Retaining Collar, Wiring Plug for 90 Series

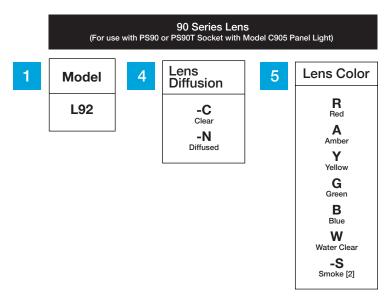


- Mounting Hole Diameter: Ø.375" - Ø.385"

- Panel Thickness: Max: 0.80"

1	Model	Description	Mating Components
	L92	90 Series Lens	C905
	PS90 ^[1]	90 Series Socket, Solder Terminals	C905, C91, C94, C96, C961, C964
	PS90T ^[1]	90 Series Socket, Turret Terminals	C905, C91, C94, C96, C961, C964
	RC90-R-	Retaining Collar	PS90, PS90T
	RC90-B-R-	Retaining Collar (Black)	PS90, PS90T
	SH90	Wiring Plug	Wiring Plug
	CSH90	Wiring Plug with collar	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964
	TC9-R-	90 Series Spring Retainer Clip ^[3]	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964
	NW5	Mounting Washer (neoprene) ^[3]	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964

90 Series Sockets & Hardware





RC90-R-



SH90



L92

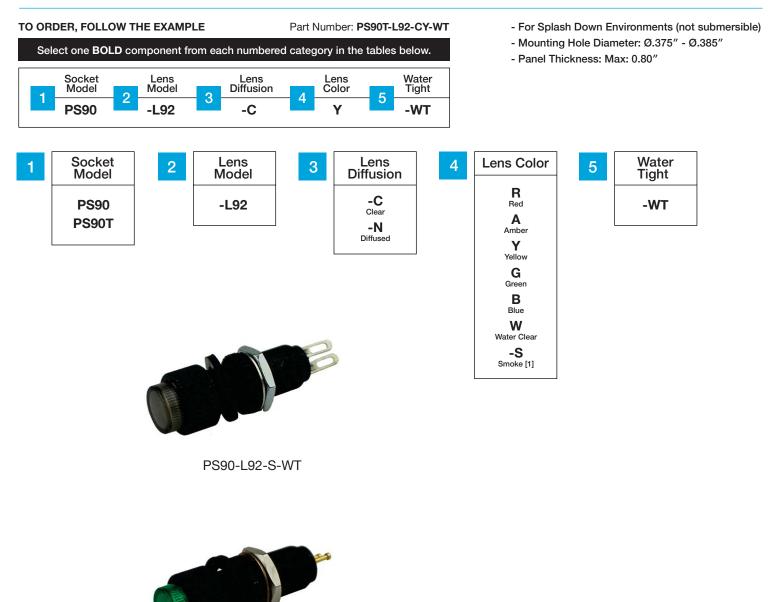
Hardware Assembled, for watertight option see page 6
Omit Lens Diffusion Code (e.g. L92-S).

[3] Mounting hardware included



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Watertight Sockets for model C905 or 905



PS90T-L92-NG-WT

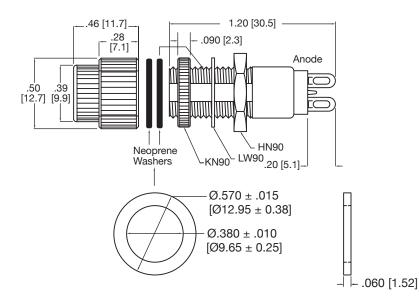
[1] Omit Lens Diffusion Code (e.g. PS90T-L92-S-WT).



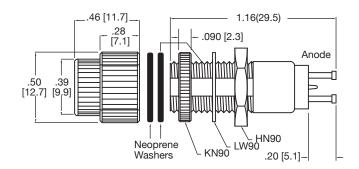
™ Your first call for illuminated components vcclite.com 1.800.522.5546 Dimensions in inches [mm]

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PS90, Watertight

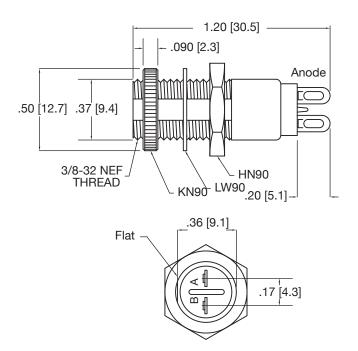


PS90T, Watertight



PS90

90 Series Socket, Solder Terminals

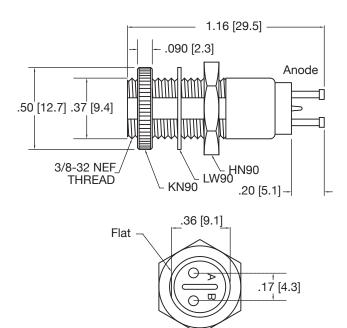


Mounting Hole Diameter

Ø 0.375"/0.385" [Ø 9.525/9.779]

PS90T





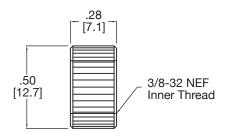
Maximum Panel Thickness

Max: 0.80" [20.32]



RC90-R- (aluminum) RC90-B-R- (black anodized aluminum)

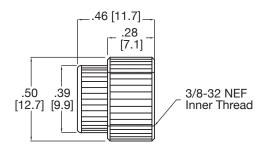
Retaining Collar for PS90 and PS90T



Only for use with PS90, PS90T

L92

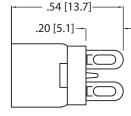
90 Series Lens for PS90, PS90T socket and C905, 905 $\,$

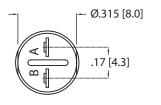


SH90

Wiring Plug



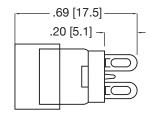


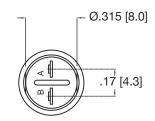


CSH90

Wiring Plug with Collar







Materials			
Housing	Black nylon, except 961 & 964 which are white nylon		
Lens	Lexan		
Pin	Brass		
Wire Leads	Tinned copper conductor TPB insulation		
TC9-R-	High carbon spring steel zinc plate finish		
NW5	Black neoprene		
RC90-R-	Aluminum		
RC90-B-R-	Black Anodized Aluminum		

Ins	Installation Specifications			
Mounting Hole	0.290" to 0.291" [7.37 to 7.39]			
Panel Thickness	0.25″ max			
Wire Leads	24 AWG - 300V lead color: red and black 6.0" long min stripped 0.5" nom red anode/black cathode, 24 AWG TPB UL1061 insulation. Contact sales for other lengths, gauges and colors.			

Temperature Specifications		
Operating Temperature	-30°C to 60°C	
Storage Temperature	-40°C to 100°C	

Dimensions in inches [mm]

Compliances and Approvals

