

.290" MOUNT PANEL LIGHTS

90 Series

- Mounting Hardware Provided - For Detailed LED Data, See Discrete Section, MODEL 200

1 Model		Wires
C ^[1] (optional)	905 ^[2]	W (optional)
	91	
	94	
	96	
	961	
	964	

TO ORDER, FOLLOW THE EXAMPLE:

Select one **BOLD** component from each numbered category in the tables below.

1 Model	2 LED	3 Voltage	4 Lens Diffusion	5 Lens Color	6 Bezel Color
94	-LRG	12H	-C	W	0

→ Part Number **94-LRG12H-CW0**

2 STANDARD INTENSITY - DIFFUSED ENCAPSULATION					
LED	Color	λpk (nm)	Iv ^[3] (mcd)	Viewing Angle	V/C Table ^[5]
-BR ^[4]	RED	635	14	60	I
-BA ^[4]	AMB	583	16	60	I
-BG ^[4]	GRN	565	10	60	I

Voltage/Current	
Design Vf/If	Max Vf/If
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

3 Voltage ^[6]
2
5H
12H
15H
24H
28H
48H
60H
120 ^[9]

MEDIUM INTENSITY - TINTED ENCAPSULATION					
LED	Color	λpk (nm)	Iv ^[3] (mcd)	Viewing Angle	V/C Table ^[5]
-BCR	RED	635	120	35	I
-BCA	AMB	583	100	35	I
-BCG	GRN	565	80	24	I

Voltage/Current	
Design Vf/If	Max Vf/If
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

4 Lens Diffusion
-C Clear
-N Diffused

HIGH INTENSITY - WATERCLEAR ENCAPSULATION					
LED	Color	λpk (nm)	Iv ^[3] (mcd)	Viewing Angle	V/C Table ^[5]
-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 ^[8]	CWHT		2500	50	II
-NWL ^[8]	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 ^[8]	CWHT		9200	20	II
-NKL ^[8]	WWHT		9200	15	II

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

SPECIALTY LEDs - DIFFUSED ENCAPSULATION						
LED	Color	λpk (nm)	Iv ^[3] (mcd)	Viewing Angle	V/C Table ^[5]	Description
-RLP ^[7]	RED	635	2.3	50	[5]	Low Power
-ALP ^[7]	AMB	583	2.1	50	[5]	Low Power
-GLP ^[7]	GRN	565	2.3	50	[5]	Low Power
-LRG ^[8]	RED/GRN	660/565	90/40	60	I	Bi-Color, Red Cathode

6 Bezel Color
0 Black
9 White

[1] The C option specifies a pin length = .20" for panel lights mounted in the PS90 or PS90T socket (pg. 48). 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-0).

[3] Iv = typical luminous intensity @ If = 20mA (Ta = 25°C). Iv is measured without lenses. For Low Power LEDs, If = 2mA.

[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.

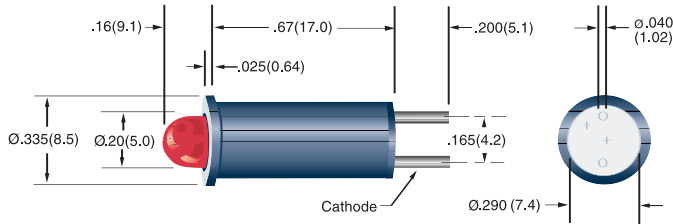
[7] Omit H when selecting a voltage (e.g. 91-RLP12-CW0).

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

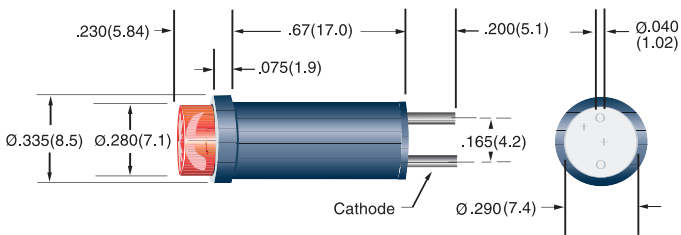
[9] Select high intensity LEDs only.

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

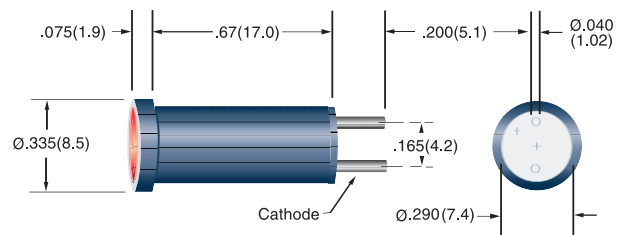
905 (no lens)



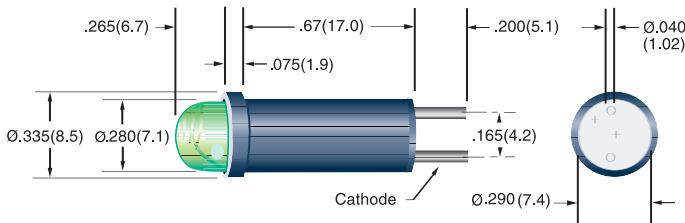
91



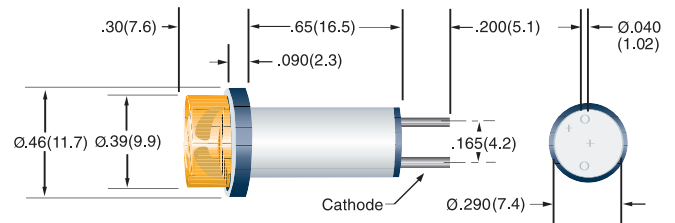
94 (flush lens)



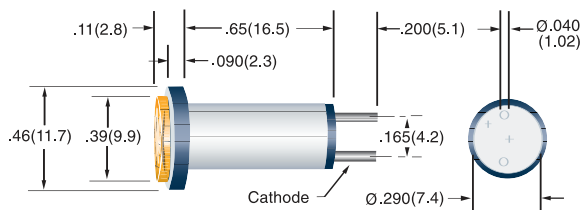
96



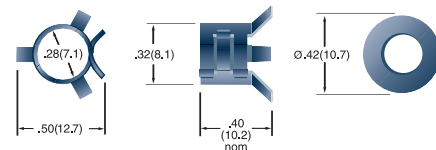
961



964



TC9 & NW9 Mounting Hardware



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

.290" MOUNT PANEL LIGHT SOCKETS

90 Series Mounting Hardware

- Sockets for 90 Series Panel Lights
- Mounting Hole Diameter: $\varnothing.375"$ - $\varnothing.385"$.
- Panel Thickness: Max: 0.80"

TO ORDER, FOLLOW THE EXAMPLE:

Select one **BOLD** component from each SHADED column in the tables below.

1 Model	2 Lens Diffusion	3 Lens Color
L92	-C	R

→ Part Number **L92-CR**

90 SERIES SOCKETS & HARDWARE

1 Model	Description	Mating Components
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	Retaining Collar	PS90, PS90T
SH90	Wiring Plug	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964
CSH90	Wiring Plug with collar	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964
TC9	90 Series Mounting Clip	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964
NW9	90 Series Mounting Washer (neoprene)	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964

90 SERIES LENS (For use with PS90 or PS90T Socket with Model C905 Panel Light)

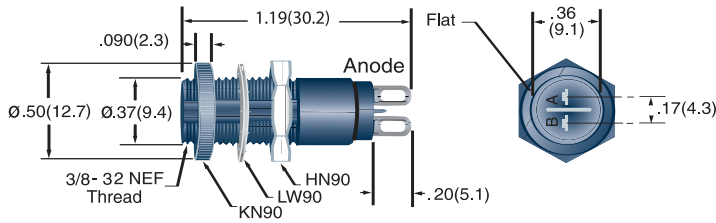
1 Model	2 Lens Diffusion	3 Lens Color
L92	-C Clear	R Red
	-N Diffused	A Amber
		Y Yellow
		G Green
		B Blue
		W Water Clear
		-S Smoke ^[2]



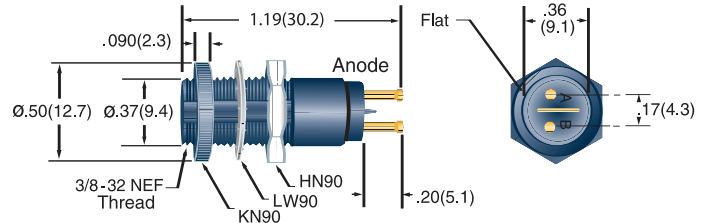
[1] Hardware Assembled.

[2] Omit Lens Diffusion Code (e.g. L92-S).

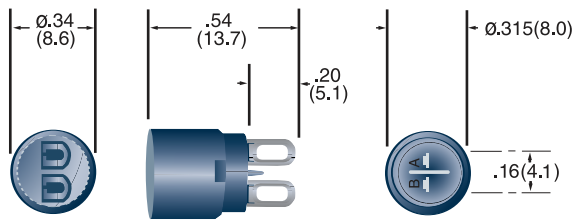
PS90



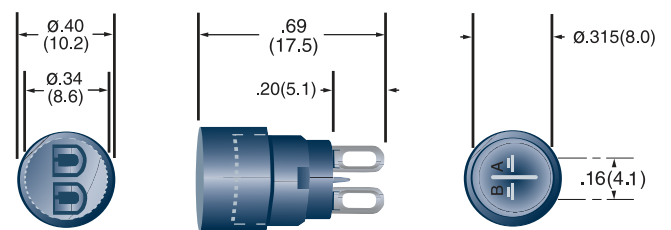
PS90T



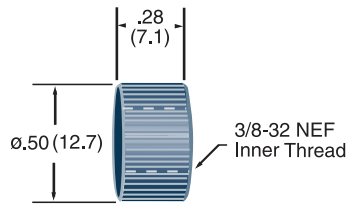
SH90



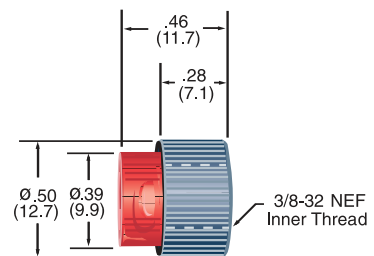
CSH90



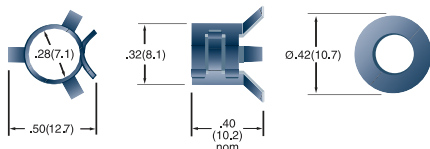
RC90-B



L92



TC9 & NW9 Mounting Hardware



All dimensions are in inches (mm)

Tolerances: $.xx(.x) \pm .025"(.63)$ / $.xxx(.xx) \pm .010"(.25)$

Specifications are subject to change without notice.