

# .290" MOUNT PANEL LIGHTS

## 90 Series

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

1	Model	Wires
C <sup>[1]</sup> (optional)	905 <sup>[2]</sup> 91 94 96 961 964	W (optional)

### 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		<b>-LRG</b>		12H		<b>-C</b>		W		0

→ Part Number **94-LRG12H-CW0**

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

Voltage/Current	
Design Vf/If	Max Vf/If
<b>V/C Table I</b>	
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 <sup>[6]</sup>
	<b>2</b>
	5H
	12H
	15H
	24H
	28H
	48H
	60H
	120 <sup>[9]</sup>

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

Voltage/Current	
Design Vf/If	Max Vf/If
<b>V/C Table II</b>	
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
	<b>-C</b>
	Clear
	<b>-N</b>
	Diffused

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

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

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

6	Bezel Color
	<b>0</b>
	Black
	<b>9</b>
	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.

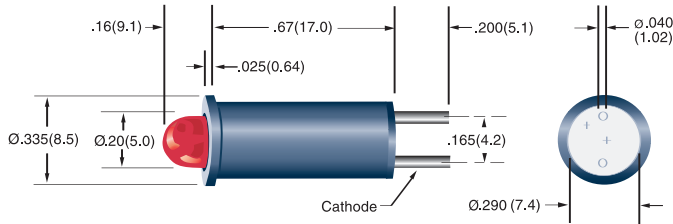
[7] Omit H when selecting a voltage (e.g. 91-RLP12-CW0).

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

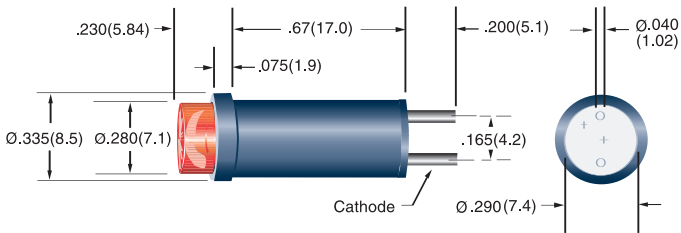
[9] Select high intensity LEDs only.

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

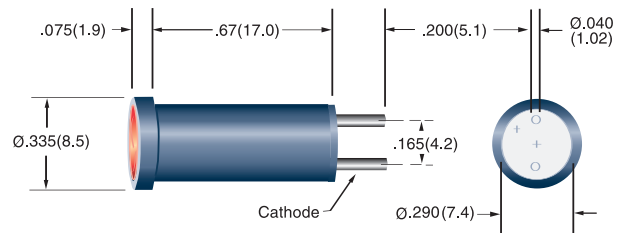
### 905 (no lens)



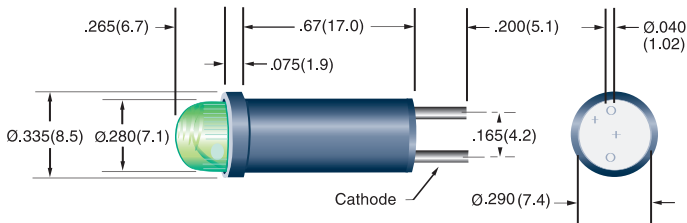
### 91



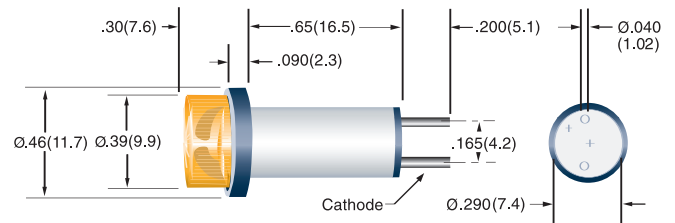
### 94 (flush lens)



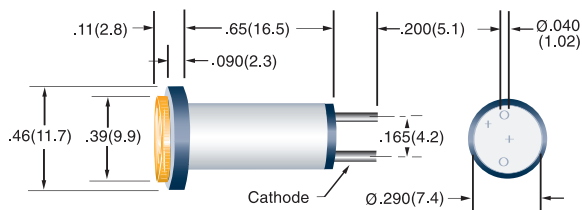
### 96



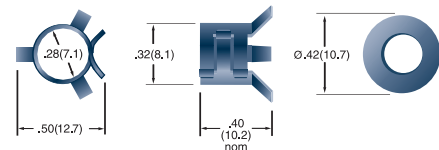
### 961



### 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.

## 90 Series Mounting Hardware

- Sockets for 90 Series Panel Lights
- Mounting Hole Diameter: Ø.375" - Ø.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
<b>PS90</b> <sup>[1]</sup>	90 Series Socket, Solder Terminals	C905, C91, C94, C96, C961, C964
<b>PS90T</b> <sup>[1]</sup>	90 Series Socket, Turret Terminals	C905, C91, C94, C96, C961, C964
<b>RC90</b>	Retaining Collar	PS90, PS90T
<b>SH90</b>	Wiring Plug	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964
<b>CSH90</b>	Wiring Plug with collar	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964
<b>TC9</b>	90 Series Mounting Clip	905, 91, 94, 96, 961, 964, C905, C91, C94, C96, C961, C964
<b>NW9</b>	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)

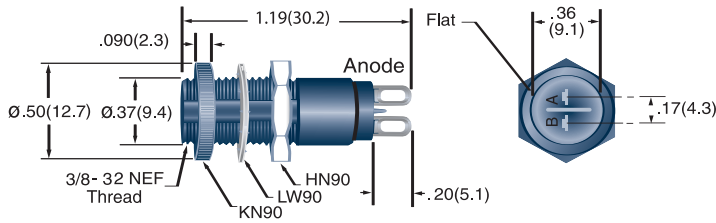
1 Model	2 Lens Diffusion	3 Lens Color
L92	-C Clear	R Red
	-N Diffused	A Amber
		Y Yellow
		G Green
		B Blue
		W Water Clear
		-S Smoke <sup>[2]</sup>



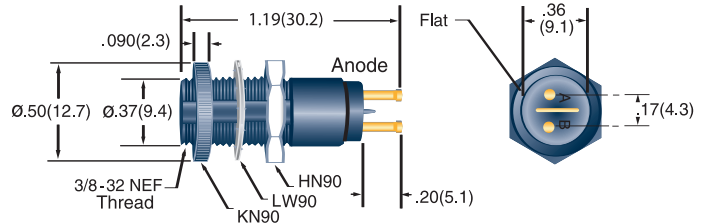
[1] Hardware Assembled.

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

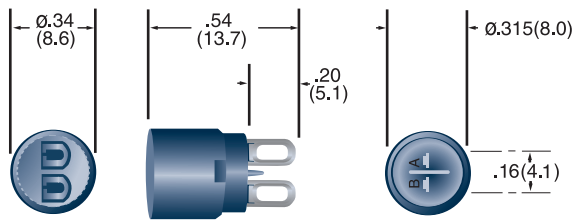
### PS90



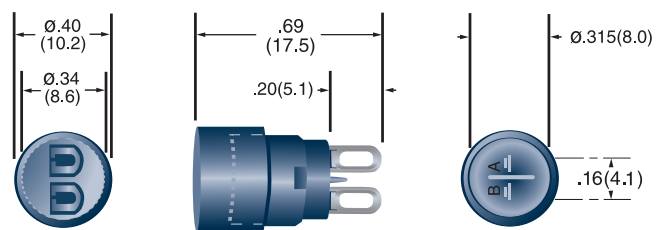
### PS90T



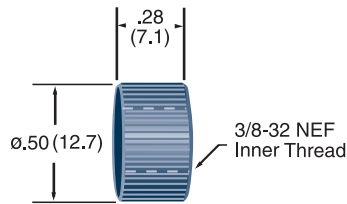
### SH90



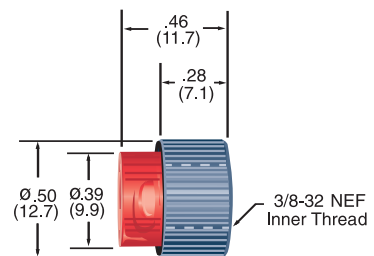
### CSH90



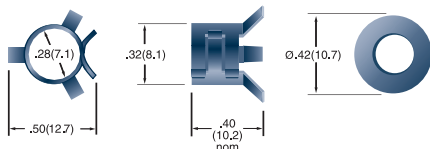
### RC90-B



### 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.