

.290" MOUNT PANEL LIGHTS

90 Series



Data Display Products®

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

1	Model	Wires
	C ^[1] (optional)	W (optional)
	905 ^[2]	
	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**

STANDARD INTENSITY - DIFFUSED ENCAPSULATION					
2	LED	Color	λ _{pk} (nm)	I _v ^[3] (mcd)	Viewing Angle
	-BR ^[4]	RED	635	14	60
	-BA ^[4]	AMB	583	16	60
	-BG ^[4]	GRN	565	10	60

MEDIUM INTENSITY - TINTED ENCAPSULATION					
	LED	Color	λ _{pk} (nm)	I _v ^[3] (mcd)	Viewing Angle
	-BCR	RED	635	120	35
	-BCA	AMB	583	100	35
	-BCG	GRN	565	80	24

HIGH INTENSITY - WATERCLEAR ENCAPSULATION					
	LED	Color	λ _{pk} (nm)	I _v ^[3] (mcd)	Viewing Angle
	-NWR	RED	634	2800	30
	-NWO	ORG	605	2000	30
	-NWA	AMB	592	2800	30
	-NWG	GRN	520	2400	45
	-NWB	BLU	465	700	45
	-NWW ^[8]	CWHT		2500	50
	-NWL ^[8]	WWHT		1800	50
	-NKR	RED	634	3600	15
	-NKO	ORG	605	8000	15
	-NKA	AMB	592	3600	15
	-NKG	GRN	520	10000	15
	-NKB	BLU	465	3000	15
	-NKW ^[8]	CWHT		9200	20
	-NKL ^[8]	WWHT		9200	15

SPECIALTY LEDs - DIFFUSED ENCAPSULATION						
	LED	Color	λ _{pk} (nm)	I _v ^[3] (mcd)	Viewing Angle	V/C Table ^[5]
	-RLP ^[7]	RED	635	2.3	50	[5]
	-ALP ^[7]	AMB	583	2.1	50	[5]
	-GLP ^[7]	GRN	565	2.3	50	[5]
	-LRG ^[8]	RED/GRN	660/565	90/40	60	I

Voltage/Current	
Design Vf/I _f	Max Vf/I _f
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 Vf/I _f	Max Vf/I _f
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 ^[6]
	2
	5H
	12H
	15H
	24H
	28H
	48H
	60H
	120 ^[9]

4	Lens Diffusion
	-C Clear
	-N Diffused

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

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] I_v = typical luminous intensity @ I_f = 20mA (T_a = 25°C). I_v is measured without lenses. For Low Power LEDs, I_f = 2mA.

[4] Use with Model 905 only.

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

[6] T_a = 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.

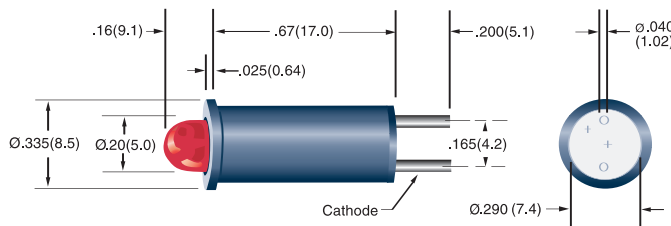
[7] Omit H when selecting a voltage (e.g. 91-RLP12-CW0).

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

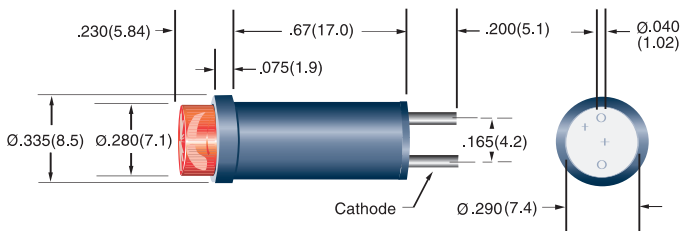
[9] Select high intensity LEDs only.

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

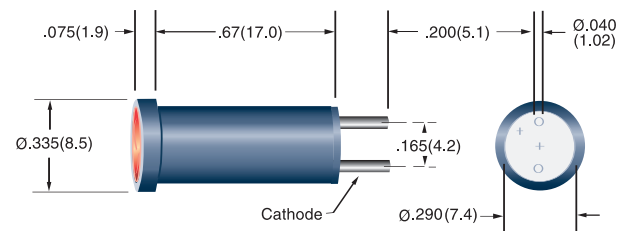
905 (no lens)



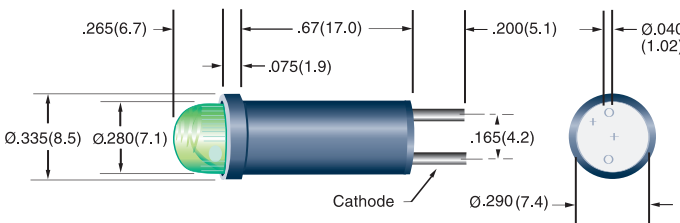
91



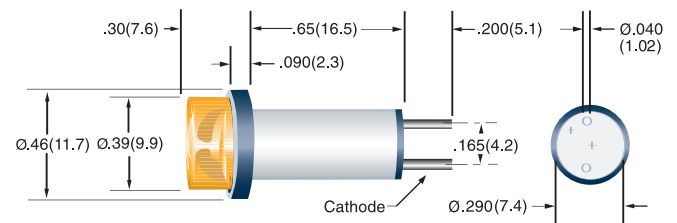
94 (flush lens)



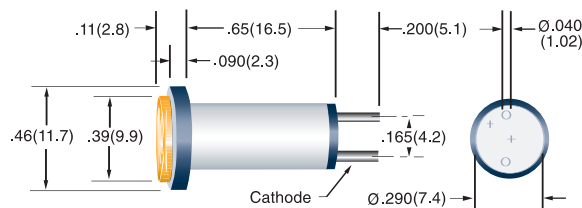
96



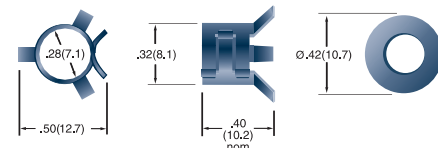
961



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.