

.250" MOUNT PANEL LIGHTS



Data Display Products®

40 Series

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

1 Model	Wires
C ^[1] (optional)	W (optional)
405 ^[2]	
41	
44	
46	
461	
464	

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
41	-BCG	5H	-C	G	0

→ Part Number **41-BCG5H-CG0**

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

Voltage/Current	
Design Vf/If	Max Vf/If
V/C Table I	
5V/27mA	5.5V/40mA
12V/27mA	14V/35mA
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	6V/26mA
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	5300	30	I
-NWO	ORG	605	2000	30	I
-NWA	AMB	592	5300	30	I
-NWG	GRN	520	2400	45	II
-NWB	BLU	465	700	45	II
-NWW ^[8]	WHT	[4]	1560	50	II
-NKR	RED	634	6900	15	I
-NKO	ORG	605	8000	15	I
-NKA	AMB	592	6900	15	I
-NKG	GRN	520	10000	15	II
-NKB	BLU	465	3000	15	II
-NKW ^[8]	WHT	[4]	5600	20	II

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

SPECIALTY LEDs						
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
-RAG ^[8]	RED/AMB/GRN	630/565	6/6/6	60	I	Tri-Color, Common Cathode
-GAR ^[8]	GRN/AMB/RED	635/565	5/5/5	50	I	Tri-Color, Common Anode

6 Bezel Color
0 Black
9 White

[1] The C option specifies a pin length = .20" for panel lights mounted in the PS40 or PS44 socket (pg. 50). 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] Iv = typical luminous intensity @ If = 20mA (Ta = 25°C). Iv is measured without lenses. For Low Power LEDs, If = 2mA.

[4] White is identified by one of four CIE coordinates x:0.290/y:0.260, x:0.290/y:0.305, x:0.330/y:0.365, x:0.330/y:0.320

[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 15H or less, or 120VAC. DC operation not available for 120V. Bi-Color and Tri-Color not available in AC voltages.

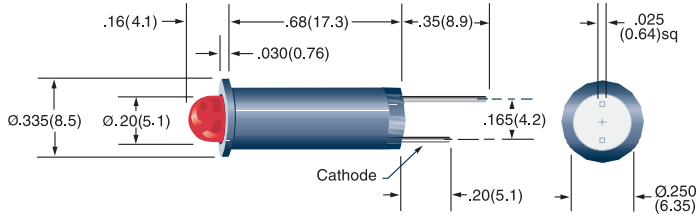
[7] Omit H when selecting a voltage (e.g. 41-RLP12-CW0).

[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. Tri-Color 5 or 12 volt, omit H in part number.

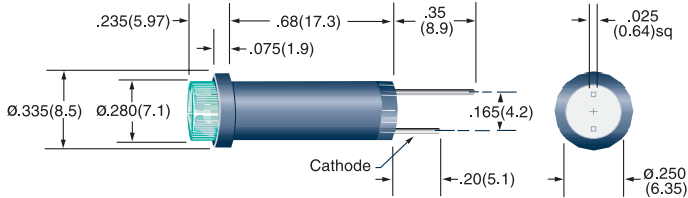
[9] Select high intensity LEDs only.

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

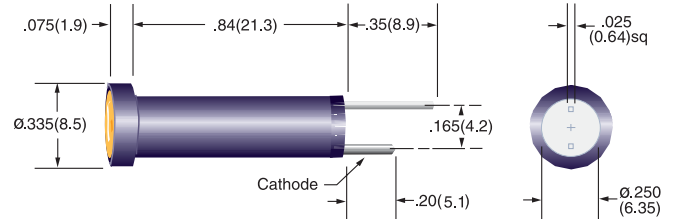
405 (no lens)



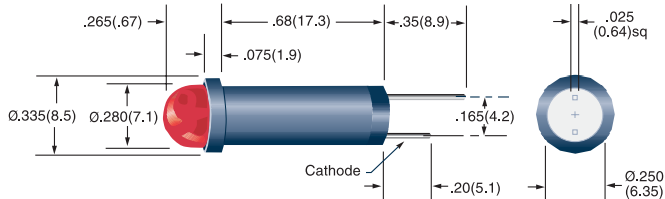
41



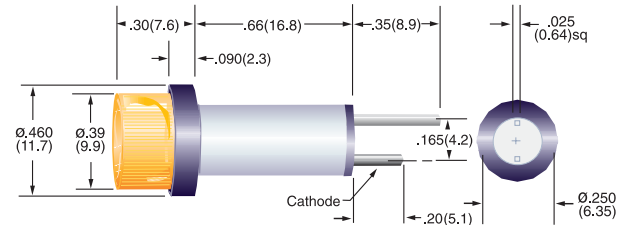
44 (flush lens)



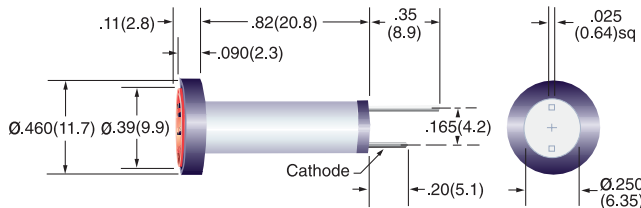
46



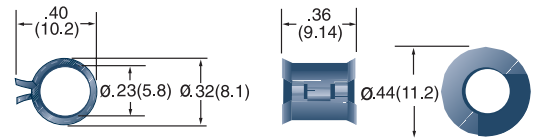
461



464



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