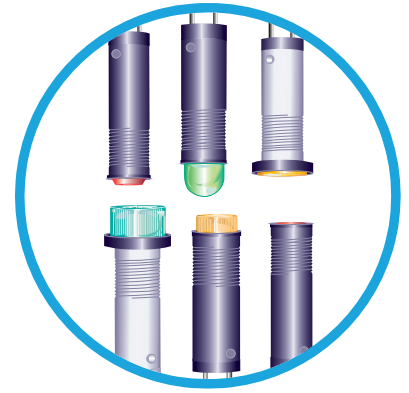




# 50 Series 0.312" (7.92mm) LED Panel Mount Indicator



Prominent and flush LED indicator with fresnel lens  
Single, Bi-color or Tri-Color LED  
Voltage: 2VDC - 120VAC

## Key features

- Mounting hole size: 0.312" (7.92mm)
- Prominent and flush lens options
- Voltage: 2-60 VDC or 120VAC
- Terminas: Bi-pin or wire leads (6" wire leads, 24 AWG)
- Available with a variety of LEDs including AlInGaP and InGaN technology for high brightness applications, single color, bi-color, tri-color and with integrated resistors
- T-1 3/4 (5mm) LED
- Available in six LED single colors: red, amber, green, orange, blue and white
- Available in one bi-color: red/green
- Available in two tri-colors: red/amber/green or green/amber/red
- 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
- Low power consumption - uses up to 90% less energy than an incandescent indicator
- Mounts with spring retainer and washer (included)
- Offered with white or black bezel, where the black bezel enhances LED contrast
- Suitable for high vibration applications
- LEDs operate significantly cooler than traditional lamps
- Compliant with RoHS and REACH

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

1 Model	Wires
51	W
53 <sup>[1]</sup>	(optional)
54	
56	
561	
564	

### TO ORDER, FOLLOW THE EXAMPLE:

Select one <b>BOLD</b> component from each numbered category in the tables below.					
1 Model	2 LED	3 Voltage	4 Lens Diffusion	5 Lens Color	6 Bezel Color
54	<b>-ALP</b>	2	<b>-C</b>	A	9

→Part Number **54-ALP2-CA9**

MEDIUM INTENSITY - TINTED ENCAPSULATION					
2 LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</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 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>[4]</sup>
<b>2</b>
5H
12H
15H
24H
28H
48H
60H
120 <sup>[5]</sup>

HIGH INTENSITY - WATERCLEAR ENCAPSULATION					
LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</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>[7]</sup></b>	CWHT		2500	50	II
<b>-NWL<sup>[7]</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>[7]</sup></b>	CWHT		9200	20	II
<b>-NKL<sup>[7]</sup></b>	WWHT		9200	15	II

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

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>[8]</sup>

SPECIALTY LEDs						
LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</sup>	Description
<b>-RLP<sup>[6]</sup></b>	RED	635	2.3	50	[3]	Low Power
<b>-ALP<sup>[6]</sup></b>	AMB	583	2.1	50	[3]	Low Power
<b>-GLP<sup>[6]</sup></b>	GRN	565	2.3	50	[3]	Low Power
<b>-LRG<sup>[7]</sup></b>	RED/GRN	660/565	90/40	60	I	Bi-Color. Red Cathode
<b>-RAG<sup>[7]</sup></b>	RED/AMB/GRN	630/565	6/6/6	60	I	Tri-Color, Common Cathode
<b>-GAR<sup>[7]</sup></b>	GRN/AMB/RED	635/565	5/5/5	50	I	Tri-Color, Common Anode

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

[1] Model 53 is available with Clear (-C) Lens only.

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

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

[4] Ta = 25°C. Voltage 2 indicates external resistor required. Voltages 5H through 60H are VDC.

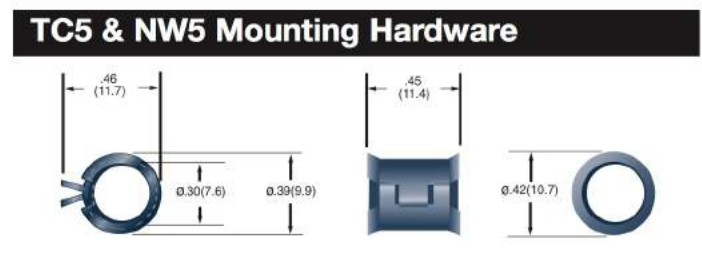
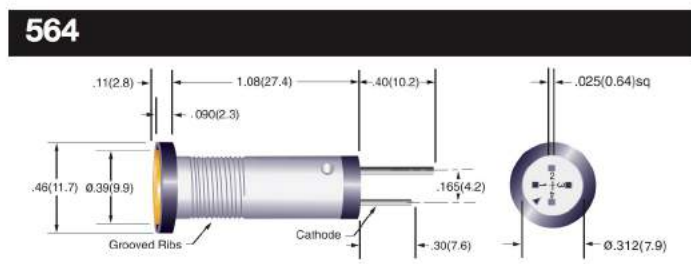
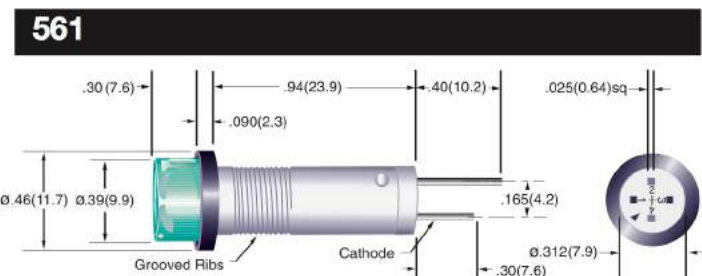
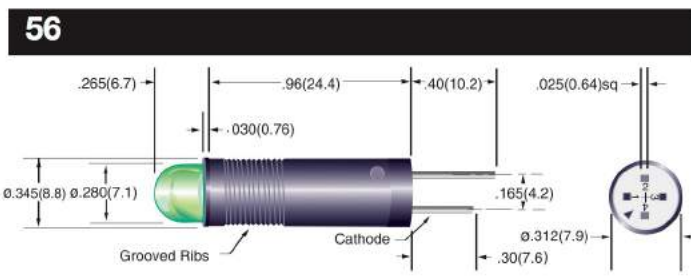
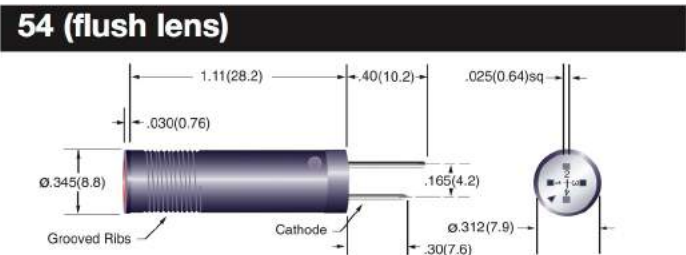
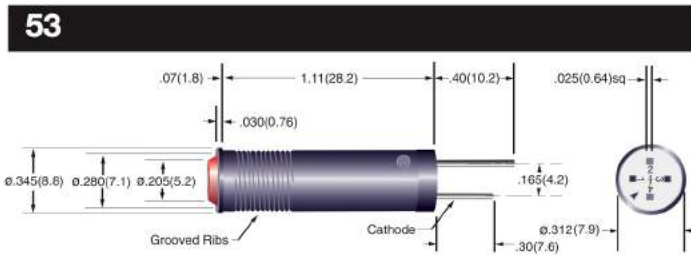
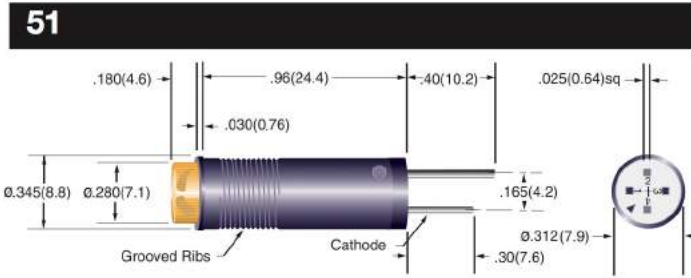
[5] For AC operation, insert D after Voltage (e.g. 24HD), D indicates built-in rectifier; not required for 5H or 120VAC. DC operation not available for 120V Bi-Color and Tri-Color not available in AC voltages.

[6] Select high intensity LEDs only.

[7] Omit H when selecting a voltage (e.g. 51-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] Omit Lens Diffusion when selecting smoked lens (e.g. 51-NWA12H-S0).



**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.