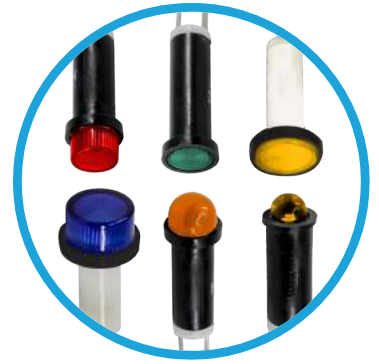# 40 Series
0.250" (6.35mm)
LED Panel Mount Indicator

40 Series with built-in long life LED offer superior construction and longer life
Flush or Raised LED indicator with fresnel lens, single, bi-color, or tri-color LED
Voltage: 2VDC - 120VAC

Key features

- Mounting hole size: .250" (6.35mm)
- Prominent and flush lens options
- Voltage: 2-60 VDC or 120VAC
- Terminals: Cartridge, Bi-pin and 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 and with integrated resistors
- T-1 3/4 (5mm) LED
- Available in six LED single colors: red, amber, green, orange, blue and white with or without lens
- Available in one bi-color: red/green with or without lens
- Available in two tri-color: red/amber/green or green/amber/red with or without lens
- Seven lens colors available: red, amber, yellow, green, blue, water clear and smoke
- Offered with a variety of lens options: hi-hat, wide hi-hat, flush, wide flush or hi-dome, all
  featured with fresnel pattern lens which provides excellent light focus and assures 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 black bezel that enhances the LED contrast
- Suitable for high vibration applications
- LEDs operate significantly cooler than traditional lamps
- Compliant with RoHS and REACH

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**

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

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

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

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

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

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

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 PS40 or PS44 socket (pg. 44). 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] Use with Model 405 only.

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

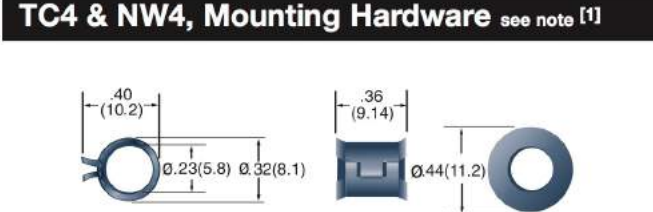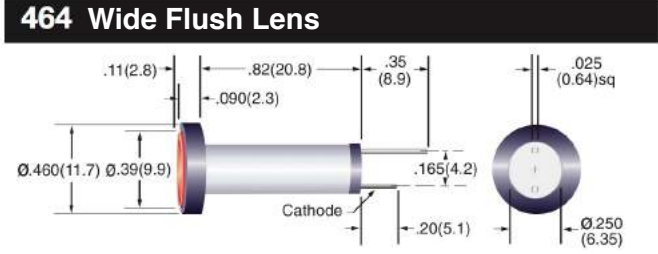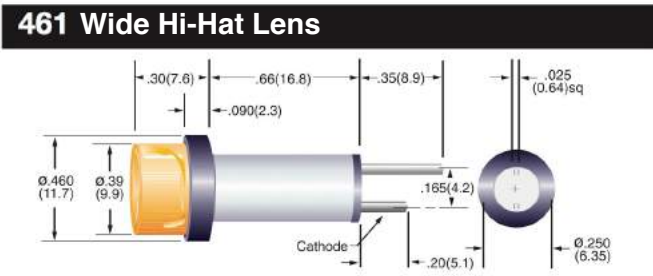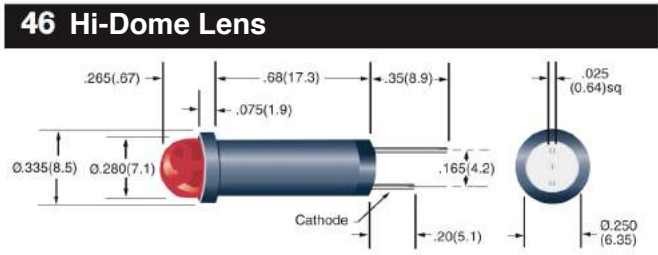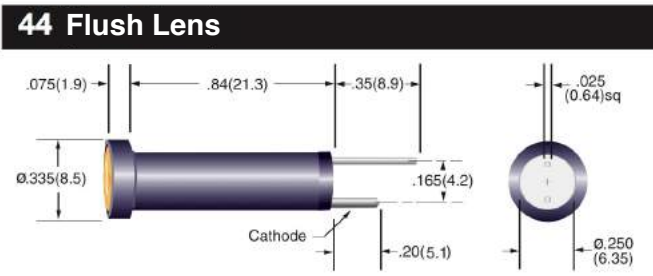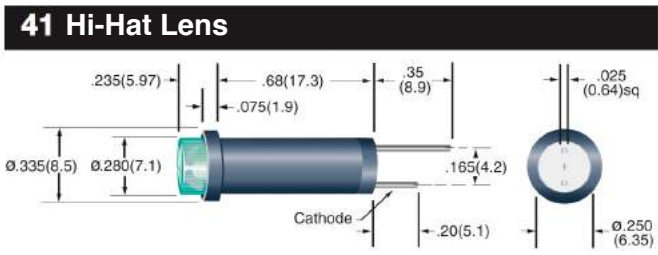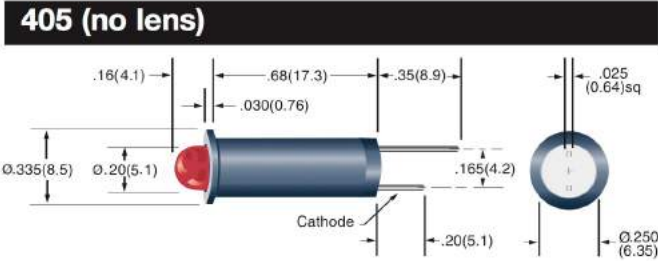[6] Ta = 25°C. Voltage "2" indicates external resistor required. Voltages 5H through 60H are VDC. For AC operation, insert D after Voltage (e.g. 24HD), D indicates built-in rectifier; not required for 5H or 120VAC. DC operation not available for 120V. Bi-Color and Tri-Color not available in AC voltages.

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

[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.

[9] Select high intensity LEDs only.

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

40 Series

405 (no lens)

41 Hi-Hat Lens

44 Flush Lens

46 Hi-Dome Lens

461 Wide Hi-Hat Lens

464 Wide Flush Lens

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.

TO ORDER, FOLLOW THE EXAMPLE:

Select one **BOLD** component from each SHADED column in the tables below.
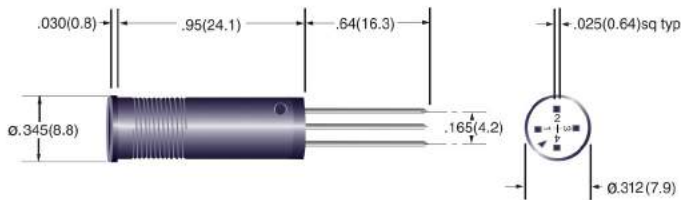
① Model/Part #	② # of Pins
PS40	-2

➜ Part Number **PS40-2**

40 SERIES SOCKETS & WIRING PLUGS

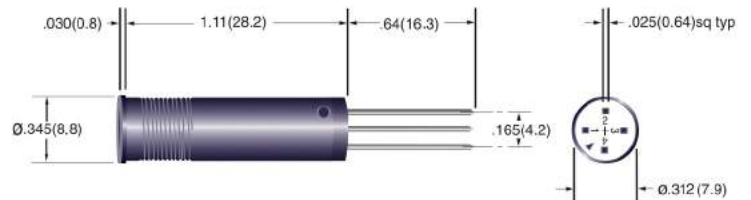| ① Model	Description
PS40	Sockets for use with Models C405, C41, C46, C461
PS44	Sockets for use with Models C44, C464
SH40	Wiring Plug for use with 40 or C40 series
CSH40	Wiring Plug for use with C40 series

② Number of Pins

Number of Pins	Configuration
-2	2, 4
-3	1, 2, 4
-4	1, 2, 3, 4

40 SERIES HARDWARE

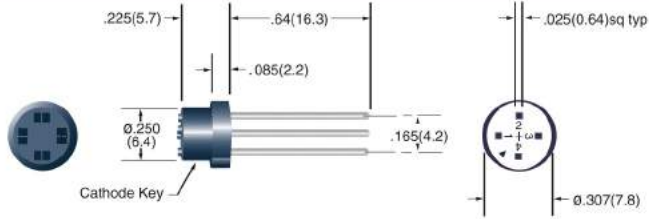| Part Number	Description
CS24	Gold Plated Crimp Terminals
CS24T	Tin Plated Crimp Terminals
TC4	40 Series Mounting Clip
NW4	40 Series Mounting Washer

PS40 TC5 & NW5 mounting hardware provided

.030(0.8) | .95(24.1) | .64(16.3) | .025(0.64)sq typ
Ø.345(8.8) | .165(4.2) | Ø.312(7.9)

PS44 TC5 & NW5 mounting hardware provided

.030(0.8) | 1.11(28.2) | .64(16.3) | .025(0.64)sq typ
Ø.345(8.8) | .165(4.2) | Ø.312(7.9)

SH40

.225(5.7) .64(16.3) .025(0.64)sq typ

.085(2.2)

Ø.250 (6.4) .165(4.2)

Cathode Key Ø.307(7.8)

CSH40

.46(11.7) .64(16.3) .025(0.64)sq typ

0.85(2.2)

Ø.25(6.4) .165(4.2)

Cathode Key Ø.307(7.8)
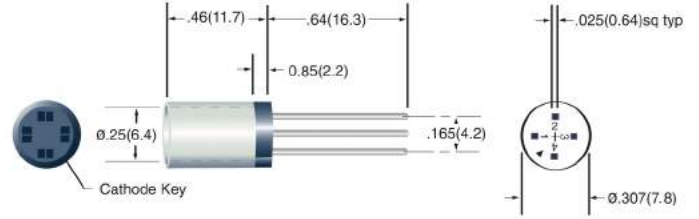
CS24 & CS24T 22AWG to 28AWG
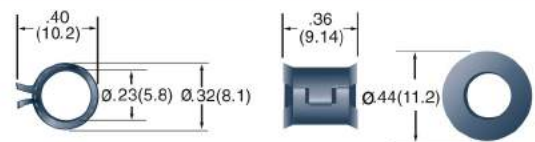
.46(11.7)

TC4 & NW4, Mounting Hardware

.40 (10.2) .36 (9.14)

Ø.23(5.8) Ø.32(8.1) Ø.44(11.2)

All dimensions are in inches (mm)
Tolerances: .xx"(.x) ±.025"(.63) / .xxx"(.xx)±.010"(.25)
Specifications are subject to change without notice.

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