


# Indicator Lights Neon, LED and Incandescent Lamp

## Colors and voltages:

-  **Neon** Available with Red, Amber, Green or Clear lenses  
100/130V (marked 110V), 200/250V (marked 230V)
-  **LED - DC** Red, Yellow, Green, Blue, White  
2.0/2.2V Resistors for other voltages available.
-  **LED - AC** Red, Yellow, Green, Blue, White  
110-230V ac operation.
-  **Incandescent lamp** Available with Red, Amber, Green, Clear or Blue lenses  
6V, 12/14V, 24/28V.

- ▶ Neon, DC LED, AC LED or incandescent lamp
- ▶ Bezel sizes from 6.7 to 16.3mm dia
- ▶ Red, amber, green and clear lenses
- ▶ Red, yellow, green, blue and white LEDs
- ▶ Wide choice of styles




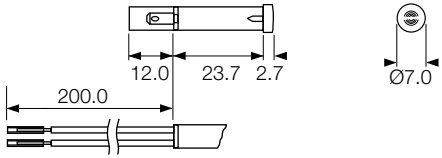






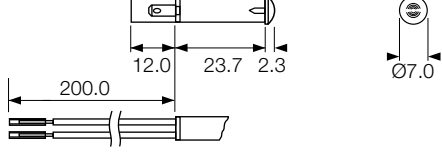






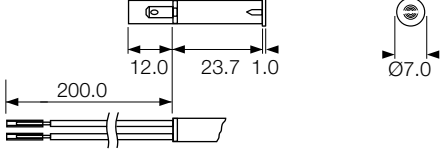






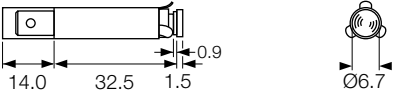





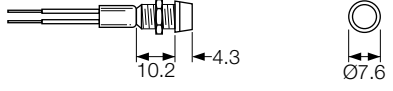






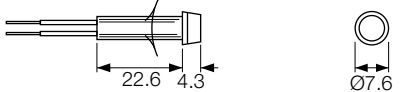





UL file E63363

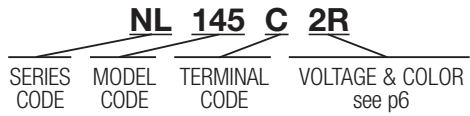
Approvals shown for neon versions only



RoHS compliant

SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)
NL Neon	<b>566A</b> 	B 2.8 	6.0 	
LE LED (DC)		WL 	2.0max 	
LE LED (AC)		 page 6		
NL Neon	<b>566B</b> 	B 2.8 	6.0 	
LE LED (DC)		WL 	2.0max 	
LE LED (AC)		 page 6		
NL Neon	<b>566C</b> 	B 2.8 	6.0 	
LE LED (DC)		WL 	2.0max 	
LE LED (AC)		 page 6		
FL Filament	<b>145</b> 	C 6.3 	5.8 	
NL Neon			3.0max 	
LE LED (DC)			 page 6	
FL Filament	<b>1041</b> Chrome bezel 	WL 	6.3 	
NL Neon		L 	6.3max 	
LE LED (DC)			 page 6	
FL Filament	<b>1045</b> Chrome bezel available 	WL 	6.3 	
NL Neon		L 	10.0max 	
LE LED (DC)				
LE LED (AC)			 page 6	

▶ **ORDER FORMAT** example







SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)
<b>FL</b> Filament	<b>245</b> Chrome bezel available 	<b>WL</b>	7.1	
<b>NL</b> Neon		<b>L</b>	6.3max	
<b>LE</b> LED (DC)			page 6	
<b>LE</b> LED (AC)				
<b>FL</b> Filament	<b>2950</b> Chrome bezel available 	<b>WL</b>	8.0	
<b>NL</b> Neon			0.8-1.6	
<b>LE</b> LED (DC)			page 6	
<b>LE</b> LED (AC)				
<b>FL</b> Filament	<b>195 BB</b> 	<b>WL</b>	8.0	
<b>NL</b> Neon		<b>C 6.3</b>	0.8-3.0	
			page 6	
<b>FL</b> Filament	<b>2951</b> Chrome bezel 	<b>WL</b>	8.0	
<b>NL</b> Neon			0.8-1.6	
<b>LE</b> LED (DC)			page 6	
<b>LE</b> LED (AC)				
<b>FL</b> Filament	<b>568 A(*)</b> Deep lens profile 	<b>WL</b>	8.0	
<b>NL</b> Neon		<b>H 4.8</b>	0.8-3.5	
<b>LE</b> LED (DC)			page 6	
	(VDE at T100)			
<b>FL</b> Filament	<b>568 B(*)</b> Shallow lens profile 	<b>WL</b>	8.0	
<b>NL</b> Neon		<b>H 4.8</b>	0.8-3.5	
<b>LE</b> LED (DC)			page 6	

Indicators


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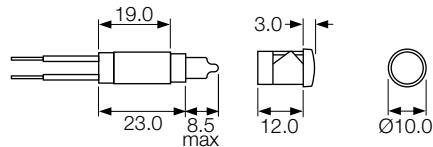




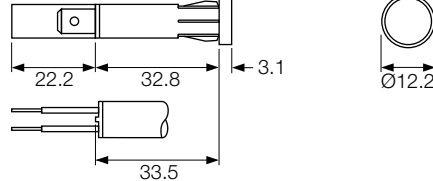




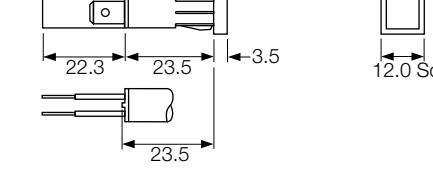




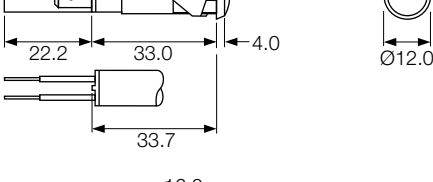




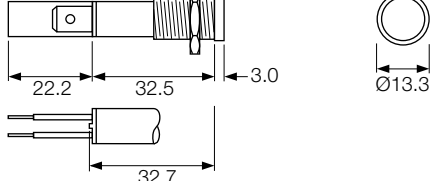




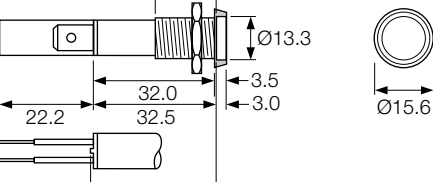


- ▶ Neon, LED, mains LED or filament lamp
- ▶ Bezel sizes from 6.7 to 16.3mm diameter
- ▶ Red, amber, green, blue and clear lenses
- ▶ Red, yellow, green, blue and white LEDs
- ▶ Wide choice of styles

**KEMA**  
**EUR**

 **UL file E63363**

Approvals shown for neon versions only

**RoHS** **RoHS compliant**

SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)
NL Neon	<b>569</b> 	WL	 9.0	
LE LED (DC)			 0.8-2.5	
LE LED (DC)			 Call sales	
LE LED (AC)				
NL Neon	<b>273</b> 	WL	 9.0	
LE LED (DC)		K 2.8	 2.0 max	
LE LED (DC)		H 4.8		
LE LED (AC)		C 6.3	 page 6	
NL Neon	<b>278</b> 	WL	 9.0	
LE LED (DC)		K 2.8	 2.0 max	
LE LED (DC)		H 4.8		
LE LED (AC)		C 6.3	 page 6	
FL Filament	<b>276</b> 	WL	 9.5	
NL Neon		K 2.8	 0.8-2.8	
LE LED (DC)		H 4.8		
LE LED (AC)		C 6.3	 page 6	
FL Filament	<b>275</b> 	WL	 10.0	
NL Neon		K 2.8	 12.0 max	
LE LED (DC)		H 4.8		
LE LED (AC)		C 6.3	 page 6	
FL Filament	<b>275</b> Chrome bezel 	WL	 10.0	
NL Neon		K 2.8	 11.5 max	
LE LED (DC)		H 4.8		
LE LED (AC)		C 6.3	 page 6	

▶ **ORDER FORMAT** example



SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)
<b>FL</b> Filament	<b>276</b> 	<b>WL</b>	10.0	
<b>NL</b> Neon		<b>K 2.8</b>	2.8 max	
<b>LE</b> LED (DC)		<b>H 4.8</b>		
<b>LE</b> LED (AC)		<b>C 6.3</b>	page 6	
<b>FL</b> Filament	<b>277</b> Chrome bezel 	<b>WL</b>	10.0	
<b>NL</b> Neon		<b>K 2.8</b>	12.0 max	
<b>LE</b> LED (DC)		<b>H 4.8</b>		
<b>LE</b> LED (AC)		<b>C 6.3</b>	page 6	
<b>FL</b> Filament	<b>273 LL</b> 	<b>WL</b>	10.0	 For sub-panel mounting, behind a facia.
<b>NL</b> Neon		<b>K 2.8</b>	0.6-2.0	
<b>LE</b> LED (DC)		<b>H 4.8</b>		
<b>LE</b> LED (AC)		<b>C 6.3</b>	page 6	
<b>FL</b> Filament	<b>2820</b> 	<b>WL</b>	12.0	
<b>NL</b> Neon		<b>K 2.8</b>	0.75-2.0	
<b>LE</b> LED (DC)		<b>H 4.8</b>		
<b>LE</b> LED (AC)		<b>C 6.3</b>	page 6	
<b>FL</b> Filament	<b>2821</b> 	<b>WL</b>	12.0 or 12.7	
<b>NL</b> Neon		<b>K 2.8</b>	$\varnothing 12.0 = 0.8-2.5$	
<b>LE</b> LED (DC)		<b>H 4.8</b>	$\varnothing 12.7 = 1.1-2.5$	
<b>LE</b> LED (AC)		<b>C 6.3</b>	page 6	
<b>FL</b> Filament	<b>586</b> 	<b>WL</b>	12.5	
<b>NL</b> Neon		<b>K 2.8</b>		
<b>LE</b> LED (DC)		<b>H 4.8</b>	0.8-1.5	
<b>LE</b> LED (AC)		<b>C 6.3</b>	page 6	

Indicators

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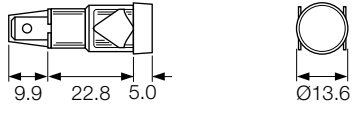









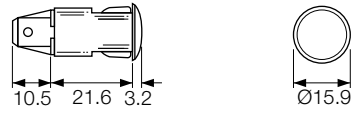









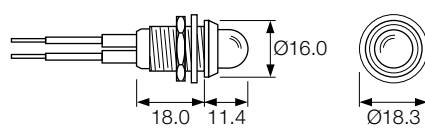






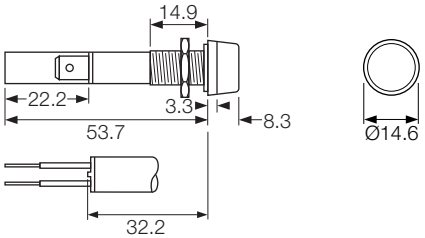









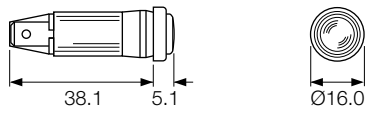









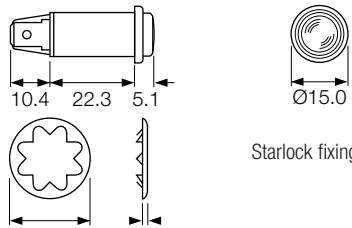






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Approvals shown for neon versions only









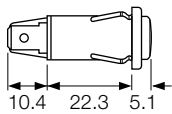









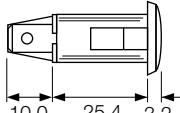
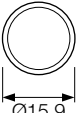





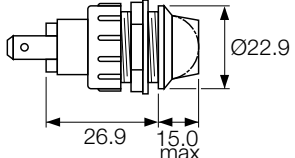

RoHS compliant

SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)
NL Neon	<b>2870</b> 	WL 	 12.7	
LE LED (DC)		K 2.8 	 0.75-2.0	
LE LED (DC)		H 4.8 		
LE LED (AC)		C 6.3 	 page 6	
NL Neon	<b>589</b> 	WL 	 12.7	
LE LED (DC)		K 2.8 	 0.8-1.5	
LE LED (DC)		H 4.8 		
		C 6.3 	 page 6	
NL Neon	<b>81</b> Chrome bezel 	WL 	 12.7	
LE LED (DC)			 9.5	
LE LED (DC)				
LE LED (AC)			 page 6	
FL Filament	<b>177</b> Chrome bezel 	WL 	 12.7	
NL Neon		K 2.8 	 12.0max	
LE LED (DC)		H 4.8 		
LE LED (AC)		C 6.3 	 page 6	
FL Filament	<b>67</b> Chrome bezel 	WL 	 12.7	
NL Neon		K 2.8 	 1.14max	
LE LED (DC)		H 4.8 		
LE LED (AC)		C 6.3 	 page 6	
FL Filament	<b>180AA</b> 	WL 	 12.7	
NL Neon		C 6.3 	 19.0max	
LE LED (DC)				
			 page 6	

# NL 2820 C 2R





SERIES CODE    MODEL CODE    TERMINAL CODE    VOLTAGE & COLOR  
see p6

▶ ORDER FORMAT example

SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)
<b>FL</b> Filament <b>NL</b> Neon <b>LE</b> LED (DC)	<b>180BB</b> Chrome bezel 	<b>WL</b>  <b>C 6.3</b> 	 13.5  0.9-1.14  page 6	 
<b>FL</b> Filament <b>NL</b> Neon <b>LE</b> LED (DC) <b>LE</b> LED (AC)	<b>579</b> 	<b>WL</b>  <b>K 2.8</b>  <b>H 4.8</b>  <b>C 6.3</b> 	 14.0  2.5max  page 6	 
<b>FL</b> Filament <b>NL</b> Neon <b>LE</b> LED (DC) <b>LE</b> LED (AC)	<b>392</b> 	<b>C 6.3</b> 	 19.0  4.0max  page 6	 

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



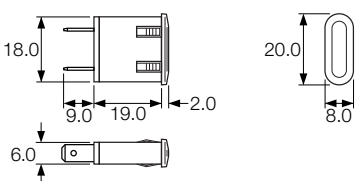





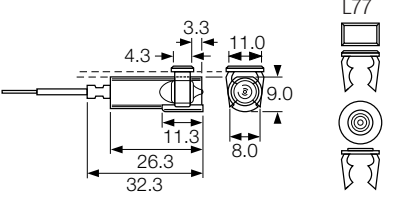




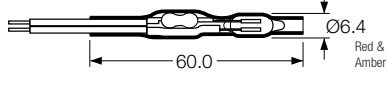


UL file E63363

Approvals shown for neon versions only



RoHS compliant

SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)
FL Filament			 18.2/18.3 x 6.2/6.3*  2.0-3.5  page 6	
NL Neon				
NL Neon				
NL Neon			 9.27/9.50 x 4.75*  0.71-1.62  page 6	
NL Neon				
NL Neon				
NL Neon			  page 6	
NL Neon				
NL Neon				

Neon tube, resistor and flexible lead assembly, protected by "heat shrink" transparent sleeving.



# Indicator Lights

To match 8500, 8600, R13, 1500, 1550, 5500, 6000, 8300 and 7000 switches

## Colours and voltages:

- Neon** Available with Red, Amber, Green or Clear lenses  
100/130V (marked 110V), 200/250V (marked 230V)
- Filament lamp** Available with Red, Amber or Green lenses  
6V, 12/14V, 24/28V
- Mains LED** 6030 only

- ▶ Indicator lights
- ▶ Neon or filament lamp
- ▶ Bezel sizes from 6.7 to 16.3mm diameter
- ▶ Red, amber green and clear neons
- ▶ Red, amber and green filament lamps
- ▶ Styles to match rocker and push switches



UL file E63363

Approvals shown for neon versions only



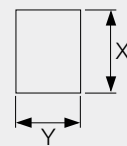
RoHS compliant

TERM	MODEL
H 4.8	<b>H8580 AB</b>  
H 4.8	<b>H8630 FB</b>  
T	<b>R9 92B</b>  Approvals details - contact sales
X	
H 4.8	<b>R9 92B</b>  Approvals details - contact sales
C 6.3	<b>C430</b> <b>C6030 AL</b>  
H 4.8	<b>C480</b>  
K 2.8	
T	
U	
C 6.3	<b>C7030 AH</b>  

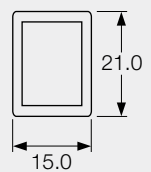
Full product details on pages 12-13

Body Code	Panel thickness	Cut-out	
		X	Y
B	0.75-1.25	19.1/19.2	12.9/13.0
	1.25-2.0	19.3/19.4	12.9/13.0
	2.0-3.0	19.7/19.8	12.9/13.0

Cut-out



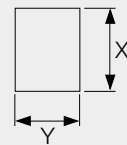
Flange



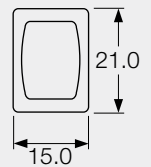
Full product details on pages 14-15

Body Code	Panel thickness	Cut-out	
		X	Y
B	0.75-1.25	19.1/19.2	12.9/13.0
	1.25-2.0	19.3/19.4	12.9/13.0
	2.0-3.0	19.7/19.8	12.9/13.0

Cut-out



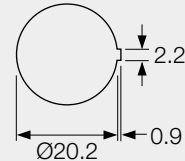
Flange



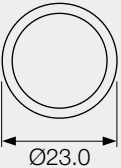
Full product details on pages 33

Snap fixing in panels thickness up to 3.0

Cut-out



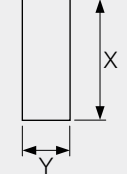
Flange



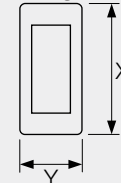
Full product details on pages 18-19 & 22-23

Body Code	Cut-out		Flange	
	Y	X	Y	X
A	12.2/12.3	27.2/27.3	14.0	30.2
B	11.0/11.1	30.0/30.1	14.0	33.4
L	11.0/11.1	30.0/30.1	14.0	31.9
R	14.0/14.1	28.5/28.6	17.0	31.5
T	11.5/11.6	28.2/28.3	14.0	30.2

Cut-out



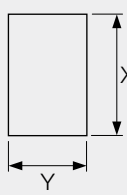
Flange



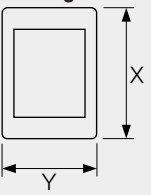
Full product details on pages 28-29

Body Code	Cut-out		Flange	
	Y	X	Y	X
A	22.3/22.4	27.2/27.3	25.0	30.2
B	22.1/22.2	30.0/30.1	25.0	33.4
L	22.1/22.2	30.0/30.1	25.0	32.0
R	23.0/25.4	28.4/28.5	28.9	33.2
T	22.3/22.4	28.2/28.3	25.0	30.2

Cut-out



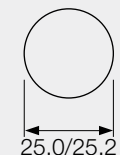
Flange



Full product details on pages 44-45

Body Code	Cut-out	Flange
H	Ø25.0/25.2	Ø28.0

Cut-out



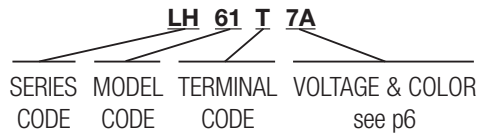
Flange





# Low Voltage Lampholders



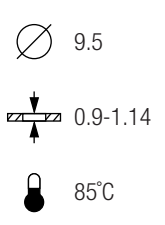
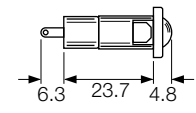



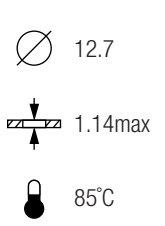
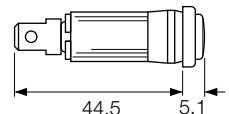



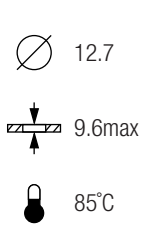
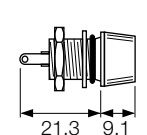



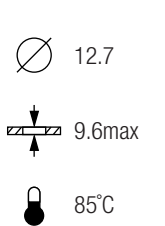
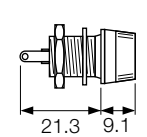



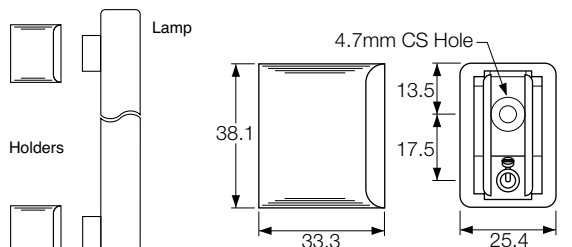

## ORDER FORMAT



approvals not applicable to LH series

- ▶ Up to 50V
- ▶ Red, Amber, Green, Blue and Clear
- ▶ Linestra/Philinea lamp holder

**RoHS** RoHS compliant

SERIES	MODEL	TERM	VOLTAGE & COLOR see p6
<b>LH Lampholder</b> Midget screw 6, 12, 24V bulbs, up to 50 volts only	<b>61</b> 	<b>T</b> 	   <p>Rear of panel bulb replacement</p>
<b>LH Lampholder</b> T2 Bayonet 6, 12, 24V bulbs, up to 50 volts only	<b>67</b> Chrome or matt black bezel 	<b>C 6.3</b> 	   <p>Rear of panel bulb replacement</p>
<b>LH Lampholder</b> Midget screw or T1 3/4 Midget Flange 6, 12, 24V bulbs, up to 50 volts only	<b>A62</b> is Midget Flange Chrome bezel  <b>A63</b> is Midget Screw Chrome bezel	<b>T</b> 	   <p>Front of panel bulb replacement</p>
<b>LH Lampholder</b> Midget screw or T1 3/4 Midget Flange 6, 12, 24V bulbs, up to 50 volts only	<b>M62</b> is Midget Flange  <b>M63</b> is Midget Screw	<b>T</b> 	   <p>Front of panel bulb replacement</p>
<b>LH Lampholder</b> For use in pairs with philinea lamp	<b>95</b> 	<b>S</b> 	 <p>Paired Architectural lampholders for Linestra or Philinea lamp.</p> 

indicators

# Low Voltage Lampholders



LH392



LH692

- ▶ Up to 50V
- ▶ MES or MBC bulb
- ▶ Flat and domed lens
- ▶ Brass or nylon bodies
- ▶ Red, Amber, Green, Blue and Clear lenses

**RoHS**

**RoHS compliant**

Bulbs will be supplied (dependant on order quantity) if a voltage is specified. These lampholders are suitable for up to 50V max.

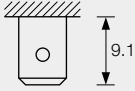



Colors - Red, Amber, Green, (Clear & Blue, check availability). Brass bodies have polished chrome finish.

For Neon & Mains versions see page 75  
For Sealed version see page 84

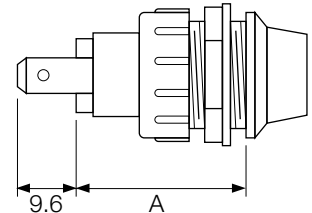
## LH 692 7R

SERIES MODEL VOLTAGE & COLOR  
CODE CODE see p 6

### ORDER FORMAT

SERIES	MODEL					
<b>LH</b> Lampholder For T3 1/4 bayonet cap 50V max   6.3 x 0.8	<b>Code</b>	<b>Panel Hole Dia</b>	<b>Body Material</b>	<b>Dimension A</b>	<b>Max Panel Thickness</b>	<b>Terminal</b>
	<b>382</b>	19.0mm	Nylon	35.0mm	6.3mm	6.3 x 0.8
	 Black nylon bezel with polycarbonate lens (Lens is L90 & Color)					
	<b>392</b>	19.0mm	Nylon	35.0mm	6.3mm	6.3 x 0.8
 Chrome bezel with polycarbonate lens (Lens is L90 & Color)						
	<b>692</b>	25.4mm	Brass	41.8mm	8.7mm	6.3 x 0.8
 Chrome bezel with polycarbonate lens (Lens is L117 & Color)						

### DIMENSIONS mm



### OPTIONS

#### Light sources

LEDs (6, 12, 24V)  
or  
Incandescent lamps are available

#### M445

P.V.C. Insulating terminal cover



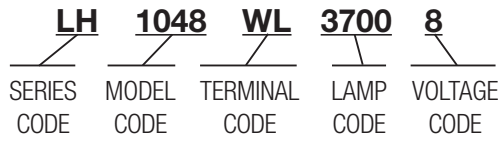
#### Sealing

Neoprene washers to seal between bezel and panel (W23) and lens and bezel (W24) to give a seal equivalent to IP66 are available on most versions

# LED Lamps and LED Lampholders

LED Lampholders can be supplied with or without LEDs

## ORDER FORMAT



- ▶ LED lampholders
- ▶ Supplied with or without LEDs
- ▶ Black or Chrome finish

**RoHS** RoHS compliant

▶ SERIES	▶ MODEL	▶ LAMP		▶ COLOR CODE		▶ VOLTAGE CODE		See also technical info on page 6
		No lamp - Blank	For WL versions:	Red	Yellow	Green	Blank	
LH T1 (3mm) Lampholder	1047 chrome 1047WL chrome	1047B black 1047BWL black	No lamp - <b>Blank</b>	For WL versions:	Red <b>4700</b>	Yellow <b>4701</b>	Green <b>4702</b>	
					w/o resistor <b>Blank</b>	6Vdc <b>6</b>	12Vdc <b>7</b>	
LH T1 3/4 (5mm) Lampholder	1048 chrome 1048WL chrome	1048B black 1048BWL black	No lamp - <b>Blank</b>	For WL versions:	Red <b>3700</b>	Yellow <b>3701</b>	Green <b>3702</b>	
					w/o resistor <b>Blank</b>	6Vdc <b>6</b>	12Vdc <b>7</b>	
LH T1 3/4 (5mm) Lampholder with Light Focusing Reflector	1050 chrome 1050WL chrome	1050B black 1050BWL black	No lamp - <b>Blank</b>	For WL versions:	Red <b>3700</b>	Yellow <b>3701</b>	Green <b>3702</b>	
					w/o resistor <b>Blank</b>	6Vdc <b>6</b>	12Vdc <b>7</b>	
LH	10350A 10350AWL		LED COLOR	VOLTAGE CODE	Red <b>3700</b>	Yellow <b>3701</b>	Green <b>3702</b>	
			White <b>3703</b>	Blue <b>3704</b>	2V <b>Blank</b>	6Vdc <b>6</b>	14Vdc <b>7</b>	
LH	10360A 10360AWL		LED COLOR	VOLTAGE CODE	Red <b>3700</b>	Yellow <b>3701</b>	Green <b>3702</b>	
			White <b>3703</b>	Blue <b>3704</b>	2V <b>Blank</b>	6Vdc <b>6</b>	14Vdc <b>7</b>	
LH	10370A 10370AWL		LED COLOR	VOLTAGE CODE	Red <b>3700</b>	Yellow <b>3701</b>	Green <b>3702</b>	
			White <b>3703</b>	Blue <b>3704</b>	2V <b>Blank</b>	6Vdc <b>6</b>	14Vdc <b>7</b>	

indicators

# Neon & LED Indicator Lights Sealed to IP52 and IP54

▶ **ORDER FORMAT** example

**NL 3130 S 2R**

SERIES CODE    MODEL CODE    TERMINAL CODE    VOLTAGE & COLOR  
see p 6

- ▶ IP52 and IP54 sealing
- ▶ Three bezel sizes: 18.0, 20.5 and 30.0 dia.
- ▶ Neon or LED indicator
- ▶ Black and satin chrome bezel or without bezel
- ▶ Recessed screw terminals



Approval shown for neon versions only

**RoHS** RoHS compliant

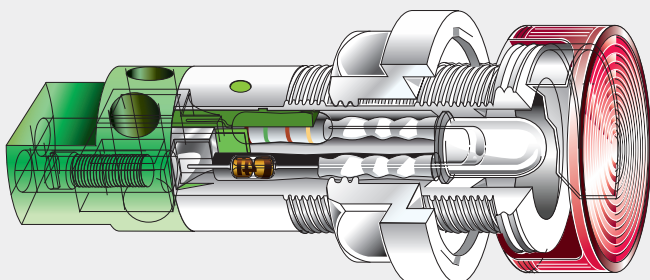
Neon versions feature integral current limiting & ghost lighting resistors.

LED versions have rectifier diodes & resistors for direct connection to 28Vac/dc.

IP52 is standard.

A panel sealing washer is available for IP54

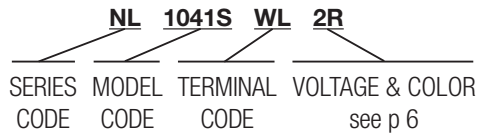
SERIES	MODEL	TERM	VOLTAGE & COLOR see p6	SEALING OPTION State IP52 or IP54
LE LED NL Neon	<b>3130</b> No bezel 	<b>S</b>  Recessed Screw	Ø 13.2 8.0max 120°C neon 50°C LED	
LE LED NL Neon	<b>3160</b> Black bezel 	<b>S</b>  Recessed Screw	Ø 16.2 5.0max 120°C neon 50°C LED	
LE LED NL Neon	<b>3161</b> Satin chrome style bezel 	<b>S</b>  Recessed Screw	Ø 16.2 5.0max 55°C neon 50°C LED	
LE LED NL Neon	<b>3221</b> Large black bezel 	<b>S</b>  Recessed Screw	Ø 22.3 4.5max 120°C neon 50°C LED	





Select the version most suitable for your application from the 4 types shown.  
Or call sales for availability to your special requirements.






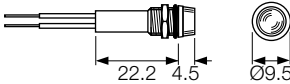


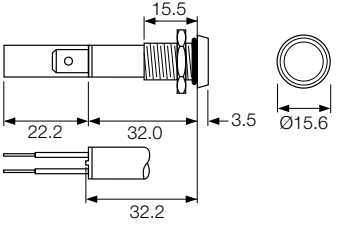





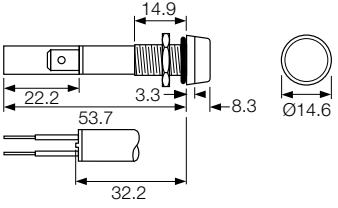





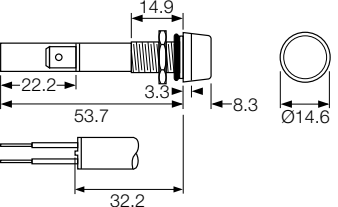





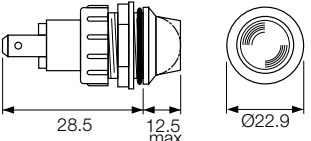
# Indicator Lights - Sealed to IP67

## ORDER FORMAT



- ▶ IP67 Panel Sealing
- ▶ Supplied complete with gaskets/'O' rings
- ▶ Neon, LED, mains LED or incandescent lamp
- ▶ Bezel sizes from 7.6 to 22.9mm diameter
- ▶ Red, amber, green, blue and clear lenses
- ▶ Red, yellow, green, blue and white LEDs
- ▶ Wide choice of styles


  
 RoHS compliant

SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)	
NL Neon	1041S Chrome bezel 	WL 	6.3		
LE LED (DC)			5.3 max		
LE LED (DC)					
NL Neon	245S Chrome bezel 	WL 	7.1		
LE LED (DC)			4.6 max		
LE LED (DC)					
LE LED (AC)					
NL Neon	275S Chrome bezel 	WL 	10.0		
LE LED (DC)		C 6.3 	11.5 max		
LE LED (DC)		K 2.8 			
LE LED (AC)		H 4.8 			
NL Neon	277S Chrome bezel 	WL 	10.0		
LE LED (DC)		C 6.3 	11.5 max		
LE LED (DC)		K 2.8 			
LE LED (AC)		H 4.8 			
NL Neon	177S Chrome bezel 	WL 	12.7		
LE LED (DC)		C 6.3 	11.5 max		
LE LED (DC)		K 2.8 			
LE LED (AC)		H 4.8 			
NL Neon	392FFS 	C 6.3 	19.0		
LE LED (DC)			4.0 max		
LE LED (DC)					
LE LED (AC)					

indicators

# LED Lamps and LED Lampholders - Sealed to IP67

LED Lampholders can be supplied with or without LEDs

**RoHS**

RoHS compliant

- ▶ IP67 front bezel sealing
- ▶ LED lampholders
- ▶ Supplied with or without LEDs
- ▶ Black or Chrome finish

## ORDER FORMAT

<b>LH</b>	<b>1048S</b>	<b>WL</b>	<b>3700</b>	<b>8</b>
SERIES CODE	MODEL CODE	TERMINAL CODE	LAMP CODE	VOLTAGE CODE

### SERIES MODEL

**LH** **1048S Chrome** Designed to IP67  
**1048BS Black**

**LH** **1048SWL Chrome** Designed to IP67  
**1048BSWL Black**

**LH** **1050S Chrome** Designed to IP67  
**1050BS Black**

**LH** **1050SWL Chrome** Designed to IP67  
**1050BSWL Black**

### LAMP COLOR CODE VOLTAGE CODE

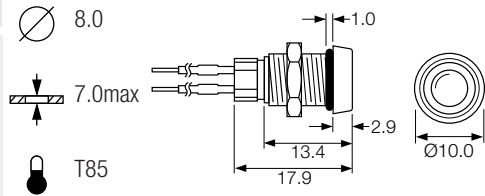
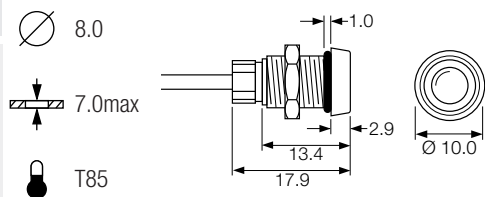
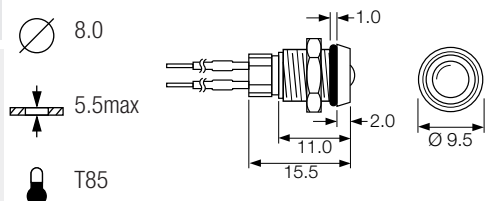
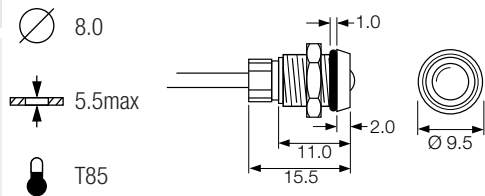
No lamp - <b>Blank</b>	For WL versions:
Red <b>4700</b>	w/o resistor <b>Blank</b>
Yellow <b>4701</b>	6Vdc <b>6</b>
Green <b>4702</b>	12Vdc <b>7</b>
	24Vdc <b>8</b>

No lamp - <b>Blank</b>	For WL versions:
Red <b>3700</b>	w/o resistor <b>Blank</b>
Yellow <b>3701</b>	6Vdc <b>6</b>
Green <b>3702</b>	12Vdc <b>7</b>
	24Vdc <b>8</b>

No lamp - <b>Blank</b>	For WL versions:
Red <b>3700</b>	w/o resistor <b>Blank</b>
Yellow <b>3701</b>	6Vdc <b>6</b>
Green <b>3702</b>	12Vdc <b>7</b>
	24Vdc <b>8</b>

No lamp - <b>Blank</b>	For WL versions:
Red <b>3700</b>	w/o resistor <b>Blank</b>
Yellow <b>3701</b>	6Vdc <b>6</b>
Green <b>3702</b>	12Vdc <b>7</b>
	24Vdc <b>8</b>

See also technical info on pages 6



## Properties

### Sealing

O-ring sealing equivalent to IP67, of both the LED to bezel, and bezel to panel is available where shown.

### Polarity

The nylon base mouldings are polarity marked.

### Body Material and Finish

Chromed brass or Black oxide coated brass.

### Lampholders only

Items prefixed 'A' are supplied without LEDs.

### LED wires or PVC covered wire leads

125mm min length wires, 6.3mm standard strip. Alternative colours, length and strip available.





# Low Voltage Lampholders - Sealed to IP67

## ORDER FORMAT







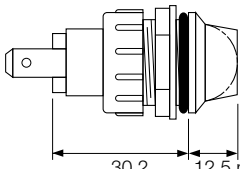






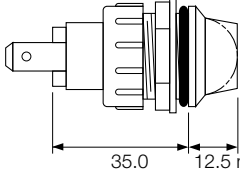






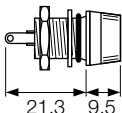







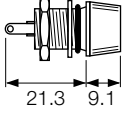

**LH 392FPS 7R**

SERIES MODEL VOLTAGE & COLOR  
 CODE CODE see p 6

- ▶ IP67 Panel seal
- ▶ Supplied complete with gaskets/'O' rings
- ▶ Up to 50V
- ▶ Red, Amber, Green, Blue and Clear
- ▶ LES, Midget Flange, MES & MBC bulb



**RoHS** RoHS compliant

SERIES	MODEL	TERM	PANEL & °C	DIMENSIONS (mm)
LH	LH1090 FPS (MES)  	C 6.3 	 19.0  4.0 max  T85	 30.2 12.5 max Front of panel bulb replacement
LH	LH1091 FQS (MBC)  	C 6.3 	 19.0  4.0 max  T85	 35.0 12.5 max Front of panel bulb replacement
LH	LH0062 AOS (Midget flange) Chrome bezel LH0063 AOS (LES) Chrome bezel  	T 	 12.7  8.5 max  T85	 21.3 9.5  Ø14.7
LH	LH0062 MOS (LES & Midget flange) LH0063 MOS (LES)  	T 	 12.7  8.5 max  T85	 21.3 9.1  Ø14.7

### F0445 MO

P.V.C. Insulating terminal cover.  
 For use with C1090 & C1091

