






# Indicator Lights (Neon, LED and Filament Lamp)

## Colours 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.
-  **Filament lamp** Available with Red, Amber, Green, Clear or Blue lenses  
6V, 12/14V, 24/28V.

- ▶ Neon, LED, mains LED or filament 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













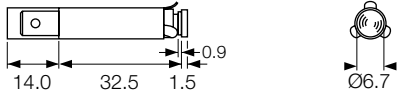










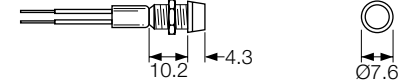











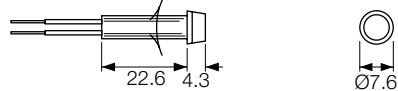











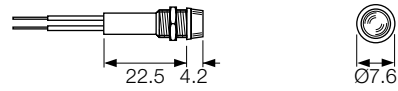










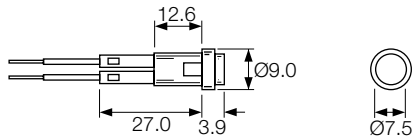









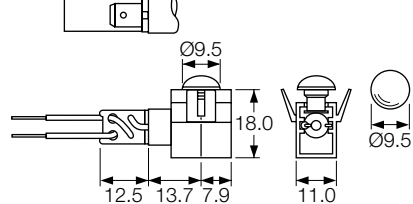
**UL file E63363**  
**CSA file 1279633 / LR29381** <sup>®</sup>

Approvals shown for neon versions only

**RoHS** **RoHS compliant**





## To create a catalogue number:

Refer to the 2 columns below (terminal and type), then state: Lens colour, voltage and whether neon, LED or filament lamp

TERM	TYPE	PANEL & °C	ILLUMINATION OPTIONS	DIMENSIONS (mm)
<b>C 6.3</b> 	<b>(C) 0145 AA</b>  S D N FI S 	 5.8  3.0max  page 66	   	 14.0 32.5 1.5 Ø6.7
<b>L</b>  <b>W</b> 	<b>(L) 1041 00</b> Chrome bezel  S D N FI S 	 6.3  6.3max  page 66	  	 10.2 4.3 Ø7.6
<b>L</b>  <b>W</b> 	<b>(L) 1045 00</b> Chrome bezel available  S D N FI S 	 6.3  10.0max  page 66	   	 22.6 4.3 Ø7.6
<b>L</b>  <b>W</b> 	<b>(L) 0245 00</b> Chrome bezel available  S D N FI S 	 7.1  6.3max  page 66	   	 22.5 4.2 Ø7.6
<b>L</b> 	<b>L 2950 00</b> Chrome bezel available  S D N FI S 	 8.0  0.8-1.6  page 66	   	 12.6 27.0 3.9 Ø9.0 Ø7.5
<b>L</b>  <b>C 6.3</b> 	<b>(L) 0195 BB</b>  S D N FI S 	 8.0  0.8-3.0  page 66	 	 Ø9.5 18.0 11.0 12.5 13.7 7.9 Ø9.5

# Indicator Lights (Neon, LED and Filament Lamp)

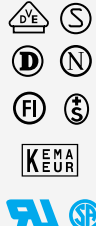
## Colours and voltages:

-  **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.
-  **Filament lamp** Available with Red, Amber, Green, Clear or Blue lenses  
6V, 12/14V, 24/28V.

- ▶ Neon, LED, mains LED or filament 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







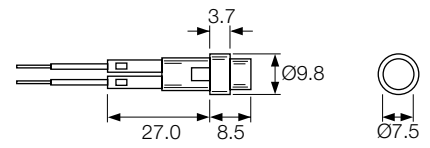





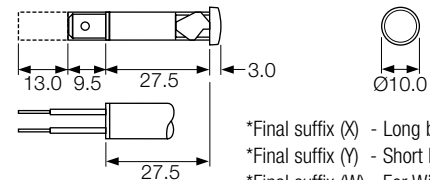





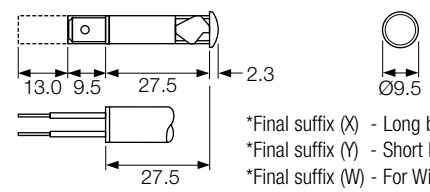






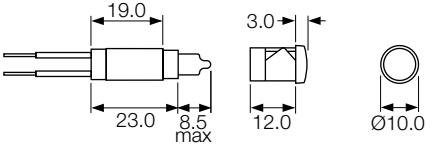






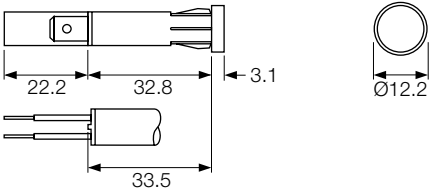






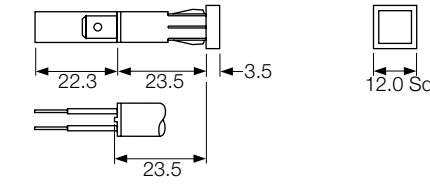
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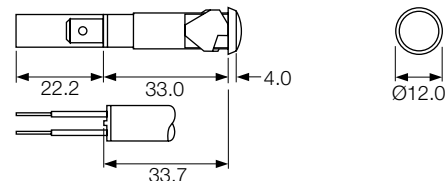

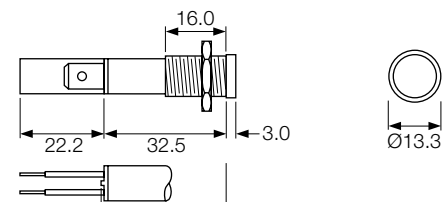

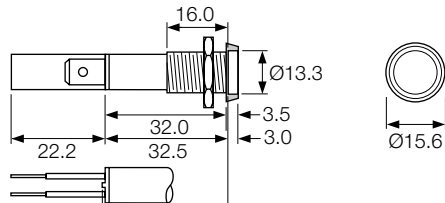

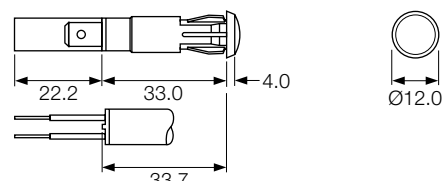

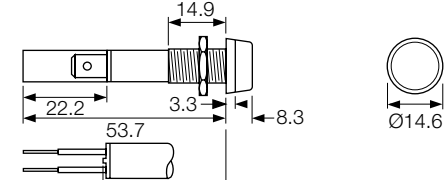

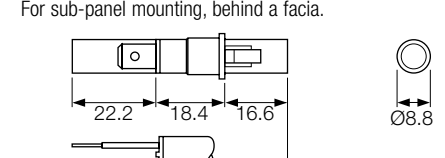
Refer to the 2 columns below (terminal and type), then state: Lens colour, voltage and whether neon, LED or filament lamp



UL file E63363  
CSA file 1279633 / LR29381<sup>®</sup>  
Approvals shown for neon versions only


**RoHS** RoHS compliant

TERM	TYPE	PANEL & °C	ILLUMINATION OPTIONS	DIMENSIONS (mm)
L	<b>L 2951 00</b> Chrome bezel available 	8.0 0.8-1.6  page 66	   	
L K 2.8 H 4.8	<b>(H) 0568 A(*)</b> Deep lens profile 	8.0 0.8-3.5  page 66	  	 *Final suffix (X) - Long barrier *Final suffix (Y) - Short barrier *Final suffix (W) - For Wires
L K 2.8 H 4.8	<b>(H) 0568 B(*)</b> Shallow lens profile 	8.0 0.8-3.5  page 66	  	 *Final suffix (X) - Long barrier *Final suffix (Y) - Short barrier *Final suffix (W) - For Wires
L	<b>(L) 0569 AW</b> 	9.0 0.8-2.5  Call factory	   	
L K 2.8 H 4.8 C 6.3	<b>(C) 0273 00</b> 	9.0 2.0 max  page 66	   	
L K 2.8 H 4.8 C 6.3	<b>(C) 0278 00</b> 	9.0 2.0 max  page 66	   	

TERM	TYPE	PANEL & °C	ILLUMINATION OPTIONS	DIMENSIONS (mm)
L K 2.8 H 4.8 C 6.3	(C) <b>0276 AA</b> 	9.5 0.8-2.8 page 66	DC AC	
L K 2.8 H 4.8 C 6.3	(C) <b>0275 00</b> 	10.0 12.0 max page 66	DC AC	
L K 2.8 H 4.8 C 6.3	(C) <b>0275 00</b> Chrome bezel 	10.0 11.5 max page 66	DC AC	
L K 2.8 H 4.8 C 6.3	(C) <b>0276 00</b> 	10.0 2.8 max page 66	DC AC	
L K 2.8 H 4.8 C 6.3	(C) <b>0277 00</b> Chrome bezel 	10.0 12.0 max page 66	DC AC	
L K 2.8 H 4.8 C 6.3	(C) <b>0273 LL</b> 	10.0 0.6-2.0 page 66	DC AC	For sub-panel mounting, behind a fascia. 

# Indicator Lights (Neon, LED and Filament Lamp)


## Colours 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.
-  **Filament lamp** Available with Red, Amber, Green, Clear or Blue lenses  
6V, 12/14V, 24/28V.

- ▶ Neon, LED, mains LED or filament 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

## To create a catalogue number:



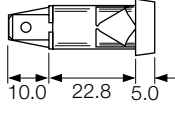




















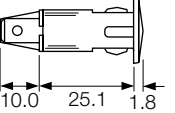
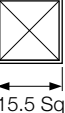









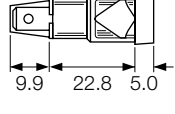
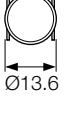









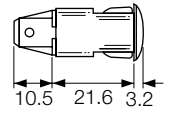
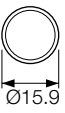








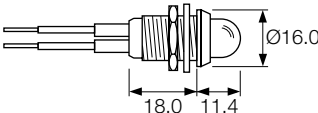






Refer to the 2 columns below (terminal and type), then state: Lens colour, voltage and whether neon, LED or filament lamp


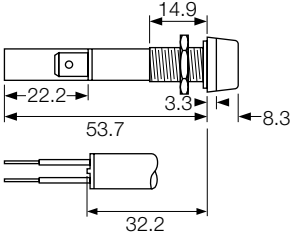

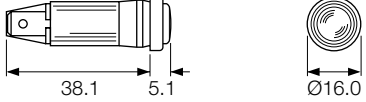

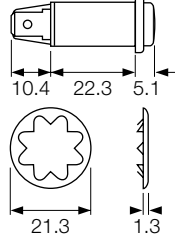

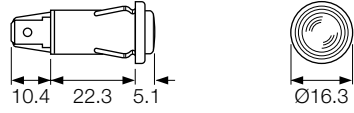

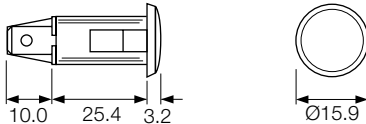


UL file E63363  
CSA file 1279633 / LR29381 ©

Approvals shown for neon versions only

**RoHS** RoHS compliant

TERM	TYPE	PANEL & °C	ILLUMINATION OPTIONS	DIMENSIONS (mm)	
L	<b>(C) 2820 00</b> 	 12.0		 10.0 22.8 5.0	 Ø13.6
K 2.8		 0.75-2.0			
H 4.8		 page 66			
C 6.3					
L	<b>(C) 2821 00</b> 	 12.0 or 12.7		 10.0 22.8 1.6	 Ø14.5
K 2.8		 $\begin{matrix} \phi 12.0 \\ = 0.8-2.5 \end{matrix}$			
H 4.8		 page 66	 $\begin{matrix} \phi 12.7 \\ = 1.1-2.5 \end{matrix}$		
C 6.3					
L	<b>(C) 0586 00</b> 	 12.5		 10.0 25.1 1.8	 15.5 Sq
K 2.8		 0.8-1.5			
H 4.8		 page 66			
C 6.3					
L	<b>(C) 2870 00</b> 	 12.7		 9.9 22.8 5.0	 Ø13.6
K 2.8		 0.75-2.0			
H 4.8		 page 66			
C 6.3					
L	<b>(C) 0589 00</b> 	 12.7		 10.5 21.6 3.2	 Ø15.9
K 2.8		 0.8-1.5			
H 4.8		 page 66			
C 6.3					
L	<b>L 0081 00</b> Chrome bezel 	 12.7		 Ø16.0 18.0 11.4	 Ø18.3
		 9.5			
		 page 66			
					

TERM	TYPE	PANEL & °C	ILLUMINATION OPTIONS	DIMENSIONS (mm)
L K 2.8 H 4.8 C 6.3	(C) <b>0177 00</b> Chrome bezel  UL, S, D, N, P, KEUR, S, RU, SF	12.7 12.0max page 66	DC AC	 Ø14.6
L K 2.8 H 4.8 C 6.3	(C) <b>0067 00</b> Chrome bezel  RU, SF	12.7 1.14max page 66	DC AC	 Ø16.0
L K 2.8 H 4.8 C 6.3	(C) <b>0180AA</b>  UL, SF	12.7 19.0max page 66	DC AC	 Ø15.0 Starlock fixing
L K 2.8 H 4.8 C 6.3	(C) <b>0180BB</b> Chrome bezel  UL, SF	13.5 0.9-1.14 page 66	DC	 Ø16.3
L K 2.8 H 4.8 C 6.3	(C) <b>0579 00</b>  UL, S, D, N, P, KEUR, S, RU, SF	14.0 2.5max page 66	DC AC	 Ø15.9

# Indicator Lights (Neon, LED and Filament Lamp)

## Colours 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.
-  **Filament lamp** Available with Red, Amber, Green, Clear or Blue lenses  
6V, 12/14V, 24/28V.

- ▶ Neon, LED, mains LED or filament 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

## To create a catalogue number:

Refer to the 2 columns below (terminal and type), then state: Lens colour, voltage and whether neon, LED or filament lamp



UL file E63363  
CSA file 1317844 / 1279633 ®

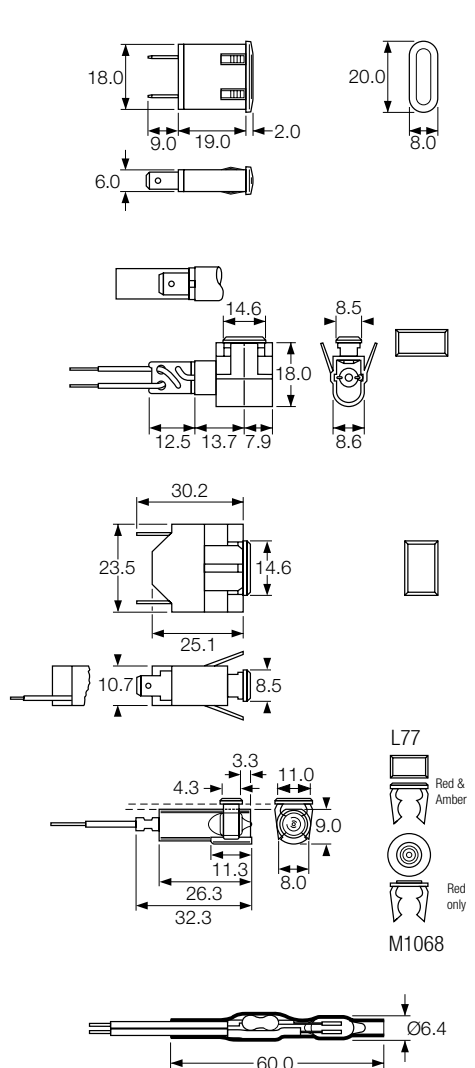
Approvals shown for neon versions only



RoHS compliant

TERM	TYPE	PANEL & °C	ILLUMINATION OPTIONS
H 4.8 	<b>H 0581 AY</b>  	 18.2/18.3 6.2/6.3*  2.0-3.5  page 66	 
L 	<b>L 0195 00</b>  	 13.0x6.5  0.8-3.0  page 66	 
L  C 6.3 	<b>(C) 0196 AA</b>  	 13.0x6.5  0.8-3.0  page 66	 
L 	<b>L 0234 00</b>  	 9.27/9.50 4.75*  0.71-1.62  page 66	
L 	<b>L 0233 00</b>   page 66		

## DIMENSIONS (mm)



Neon tube, resistor and flexible lead assembly, protected by "shrunk on" 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

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



UL file E63363  
CSA file LR29381

Approvals shown for neon versions only



RoHS compliant

## To create a catalogue number:

Refer to the 2 columns below (terminal and type), then state: Lens colour, voltage and whether neon or filament lamp.

TERM	TYPE
H 4.8	<b>H8580 AB</b>  Approvals: S, D, N, FI, KEUR, UL, CE
H 4.8	<b>H8630 FB</b>  Approvals: S, D, N, FI, KEUR, UL, CE
T	
X	
H 4.8	<b>R9 92B</b>  Approvals details - contact the factory
C 6.3	<b>C0430 A(*)</b> <b>C6030 AL</b>  Approvals: S, D, N, FI, KEUR, UL, CE 6030 - L body & C terminals only
H 4.8	
K 2.8	
T	
U	
C 6.3	<b>C0480 A(*)</b>  Approvals: S, D, N, FI, KEUR, UL, CE
H 4.8	
K 2.8	
T	
U	
C 6.3	<b>C7030 AH</b>  Approvals: S, D, N, FI, KEUR, UL, CE
H 4.8	

## DIMENSIONS (mm)

Full product details on pages 10-11				Cut-out	Flange
<b>Body Code</b>	<b>Panel thickness</b>	<b>Cut-out X</b>	<b>Cut-out Y</b>		
<b>B</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		
Full product details on pages 12-13				Cut-out	Flange
<b>Body Code</b>	<b>Panel thickness</b>	<b>Cut-out X</b>	<b>Cut-out Y</b>		
<b>B</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		
Full product details on pages 29				Cut-out	Flange
Snap fixing in panels thickness up to 3.0					
Full product details on pages 16-17 & 20-21				Cut-out	Flange
<b>Body *Code</b>	<b>Cut-out</b>		<b>Flange</b>		
	<b>Y</b>	<b>X</b>	<b>Y</b>	<b>X</b>	
<b>A</b>	12.2/12.3	27.2/27.3	14.0	30.2	
<b>B</b>	11.0/11.1	30.0/30.1	14.0	33.4	
<b>L</b>	11.0/11.1	30.0/30.1	14.0	31.9	
<b>R</b>	14.0/14.1	28.5/28.6	17.0	31.5	
<b>T</b>	11.5/11.6	28.2/28.3	14.0	30.2	
Full product details on pages 26-27				Cut-out	Flange
<b>Body *Code</b>	<b>Cut-out</b>		<b>Flange</b>		
	<b>Y</b>	<b>X</b>	<b>Y</b>	<b>X</b>	
<b>A</b>	22.3/22.4	27.2/27.3	25.0	30.2	
<b>B</b>	22.1/22.2	30.0/30.1	25.0	33.4	
<b>L</b>	22.1/22.2	30.0/30.1	25.0	32.0	
<b>R</b>	23.0/25.4	28.4/28.5	28.9	33.2	
<b>T</b>	22.3/22.4	28.2/28.3	25.0	30.2	
Full product details on pages 40-41				Cut-out	Flange
<b>Body Code</b>	<b>Cut-out</b>	<b>Flange</b>			
<b>H</b>	Ø25.0/25.2	Ø28.0		25.0/25.2	Ø28.0

# Neon & LED Indicator Lights Sealed to IP52 and IP54

## Colours and voltages:

**Neon** Red, Amber, Green  
120 or 230Vac 0.5W - please specify (Red base)

**LED** Red, Amber, Green  
28Vac/dc 1W (Green base)

Neon versions feature integral current limiting & ghost lighting resistors.  
LED versions have rectifier diodes & resistors for direct connection to 28Vac/dc.

## To order

Select a number from the "type" column, then state:  
Lens colour, voltage and whether neon or LED. All versions have recessed screw terminals. IP52 is standard. A panel sealing washer is available for IP54.




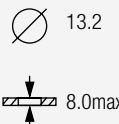
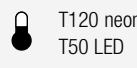



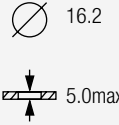
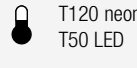



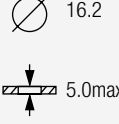
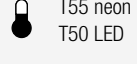



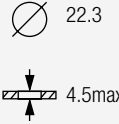
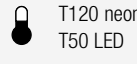
- ▶ IP52 and IP54 sealing
- ▶ Three bezel sizes: 18.0, 20.5 and 30.0 dia.
- ▶ Neon or LED indicator
- ▶ Black and satin chrome bezel or without bezel
- ▶ Recessed screw terminals



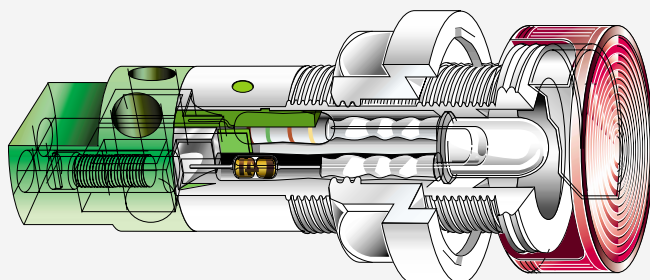
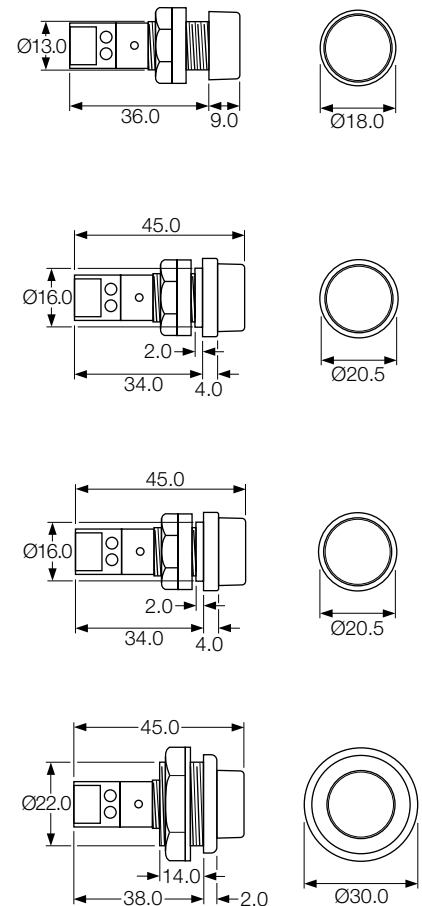
Approval shown for neon versions only



RoHS compliant

TERM	TYPE	PANEL & °C
<b>Recessed Screw</b> 	<b>3130</b> No bezel  	 
<b>Recessed Screw</b> 	<b>3160</b> Black bezel  	 
<b>Recessed Screw</b> 	<b>3161</b> Satin chrome style bezel  	 
<b>Recessed Screw</b> 	<b>3221</b> Large black bezel  	 

## DIMENSIONS (mm)



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



# Low Voltage Lampholders

## Colour and voltage:

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

Colours - Red, Amber, Green, (Clear & Blue, check availability).

## To create a catalogue number:

Refer to the 2 columns below (terminal and type), then state: Lens colour and voltage.

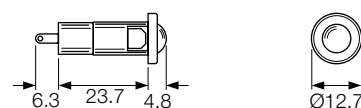
- ▶ Up to 50V
- ▶ Red, Amber, Green, Blue and Clear
- ▶ Linestra/Philinea lamp holder

**RoHS**

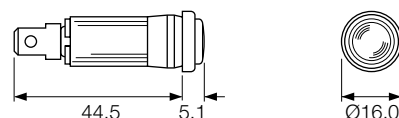
RoHS compliant

TERM	TYPE	PANEL & °C
T	<b>T0061 AO</b> (LES)	 T85
C 6.3	<b>C0067 00</b> (BA7s) Chrome bezel	 T85
T	<b>T0062 AO</b> (Midget flange) Chrome bezel	 T85
T	<b>T0063 AO</b> (LES) Chrome bezel	 T85
T	<b>T0062 MO</b> (Midget flange)	 T85
T	<b>T0063 MO</b> (LES)	 T85
S	<b>S0095 00</b>	 T85

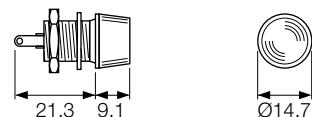
## DIMENSIONS (mm)



Rear of panel bulb replacement



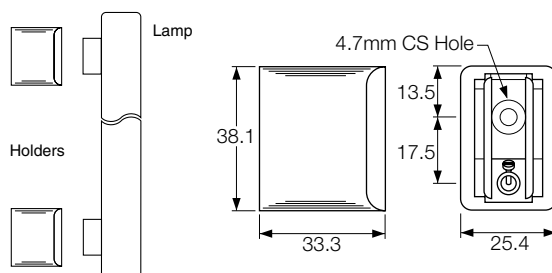
Rear of panel bulb replacement



Front of panel bulb replacement



Front of panel bulb replacement



Paired Architectural lampholders for Linestra or Philinea lamp.

# LED Lamps and LED Lampholders LED Lampholders can be supplied with or without LEDs

**Colours:** Red, Yellow, Green and Blue LEDs  
(High Intensity is standard. Option of extra super bright).

**Voltages:** LEDs are available for direct connection to 2.0/2.2V or 12Vdc  
For other voltages contact the factory.




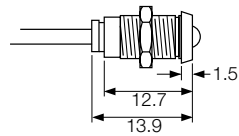






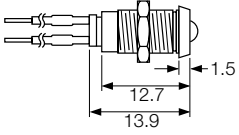
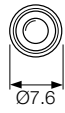





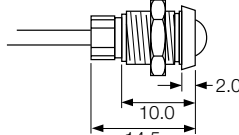
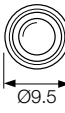





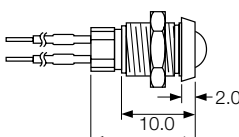






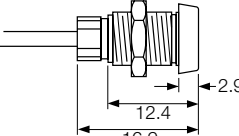





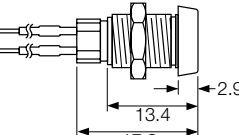
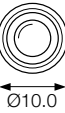
- ▶ LED lampholders
- ▶ Supplied with or without LEDs
- ▶ Black or Chrome finish

**RoHS**

**RoHS compliant**

**To create a catalogue number:**

Refer to the 2 columns below (terminal and type), then state: LED colour and voltage and body finish (Black or Chrome).

TERM	TYPE	PANEL & °C	DIMENSIONS (mm)	
<b>W</b> LED fitted 	<b>(W) 1047 00</b>  3mm LED	 6.3  6.3max  T85		
<b>A</b> LED not fitted				
<b>L</b>  LED & Wires fitted	<b>L 1047 00</b>  3mm LED	 6.3  6.3max  T85		
<b>W</b> LED fitted 	<b>(W) 1048 00</b>  5mm LED	 8.0  5.5max  T85		
<b>A</b> LED not fitted				
<b>L</b>  LED & Wires fitted	<b>L 1048 00</b>  5mm LED	 8.0  5.5max  T85		
<b>W</b> LED fitted 	<b>(W) 1050 00</b>  5mm LED with focusing reflector	 8.0  7.0max  T85		
<b>A</b> LED not fitted				
<b>L</b>  LED & Wires fitted	<b>L 1050 00</b>  5mm LED with focusing reflector	 8.0  7.0max  T85		

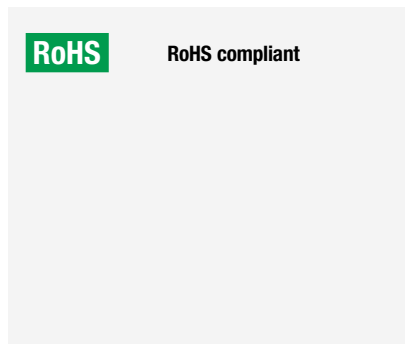
# LED Lamps and LED Lampholders - Designed to IP66

LED Lampholders can be supplied with or without LEDs

**Colours:** Red, Yellow Green and Blue LEDs.  
(High Intensity is standard. Option of extra super bright).

- ▶ IP66 front bezel sealing
- ▶ LED lampholders
- ▶ Supplied with or without LEDs
- ▶ Black or Chrome finish

**Voltages:** LEDs are available for direct connection to 2.0/2.2V or 12Vdc.  
For other voltages contact the factory.



**To create a catalogue number:**

Refer to the 2 columns below (terminal and type), then state: LED colour and voltage and body finish (Black or Chrome).

TERM	TYPE	PANEL & °C	DIMENSIONS (mm)	
<b>W</b> LED fitted	<b>(W) 1048 0A</b> Designed to IP66  5mm LED	8.0 5.5max T85		
<b>A</b> LED not fitted				
<b>L</b>  LED & Wires fitted	<b>L 1048 0A</b> Designed to IP66  5mm LED	8.0 5.5max T85		
<b>W</b> LED fitted	<b>(W) 1050 0A</b> Designed to IP66  5mm LED with focusing reflector	8.0 7.0max T85		
<b>A</b> LED not fitted				
<b>L</b>  LED & Wires fitted	<b>L 1050 0A</b> Designed to IP66  5mm LED with focusing reflector	8.0 7.0max T85		

**Properties**

**Sealing**

O-ring sealing equivalent to IP66, 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 *with sealing option*



C1090FP - - -

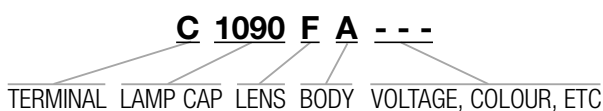
- ▶ Up to 50V
- ▶ MES or MBC bulb
- ▶ Flat and domed lens
- ▶ Brass or nylon bodies
- ▶ Red, Amber, Green, Blue and Clear lenses
- ▶ Front panel seal option

**RoHS**

RoHS compliant by 3rd qtr 2005

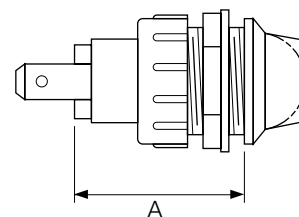
Bulbs will be supplied (dependant on order quantity) if a voltage is specified. These lampholders are suitable for up to 50V max.

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



▶ TERMINAL	▶ LAMP CAP	▶ LENS	▶ THREADED BODY																																																				
<p><b>C</b></p> <p>6.3 x 0.8</p>	<p><b>1090</b> E10</p>  <p><b>1091</b> BA9s</p>	<p><b>F</b> Flat</p>  <p><b>V</b> Domed</p>  <p><b>L</b> No lens</p>	<table border="1"> <thead> <tr> <th></th> <th>Panel Hole Dia.</th> <th>Body Material</th> <th>Dimension A</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">for E10 types</td> </tr> <tr> <td><b>A</b></td> <td>19.0</td> <td>Brass</td> <td>35.0</td> </tr> <tr> <td><b>D</b></td> <td>19.0</td> <td>Brass</td> <td>30.2</td> </tr> <tr> <td><b>E</b></td> <td>19.0</td> <td>Nylon</td> <td>30.2</td> </tr> <tr> <td><b>*P</b></td> <td>19.0</td> <td>Nylon (+ chrome trim)</td> <td>30.2</td> </tr> <tr> <td><b>G</b></td> <td>19.0</td> <td>Brass</td> <td>24.6</td> </tr> <tr> <td><b>H</b></td> <td>19.0</td> <td>Nylon</td> <td>24.6</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>Panel Hole Dia.</th> <th>Body Material</th> <th>Dimension A</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">for BA9s types</td> </tr> <tr> <td><b>B</b></td> <td>19.0</td> <td>Brass</td> <td>35.0</td> </tr> <tr> <td><b>C</b></td> <td>19.0</td> <td>Nylon</td> <td>35.0</td> </tr> <tr> <td><b>*Q</b></td> <td>19.0</td> <td>Nylon (+ chrome trim)</td> <td>35.0</td> </tr> </tbody> </table> <p>All E10 and BA9s types are suitable for panel thickness up to 6.2mm. Some versions will accept panels up to 11.2mm thick.</p>		Panel Hole Dia.	Body Material	Dimension A	for E10 types				<b>A</b>	19.0	Brass	35.0	<b>D</b>	19.0	Brass	30.2	<b>E</b>	19.0	Nylon	30.2	<b>*P</b>	19.0	Nylon (+ chrome trim)	30.2	<b>G</b>	19.0	Brass	24.6	<b>H</b>	19.0	Nylon	24.6		Panel Hole Dia.	Body Material	Dimension A	for BA9s types				<b>B</b>	19.0	Brass	35.0	<b>C</b>	19.0	Nylon	35.0	<b>*Q</b>	19.0	Nylon (+ chrome trim)	35.0
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## DIMENSIONS mm



## OPTIONS

### 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.

### F0445 M0

P.V.C. Insulating terminal cover.



\*Note P and Q body codes denote a nylon body fitted with a chrome bezel trim (previously **F0413PO**).

# Technical Information - Indicators

The majority of Arcoelectric indicator lights can be supplied with alternative light sources:

## Neon, Fluorescent, Filament lamp or LED.

### NEON and FLUORESCENT LAMPS

#### Colours

Available with Red, Amber, Green or Clear lenses.

#### Maximum striking voltages

Standard brightness types 65Vac 90Vdc.

High brightness types 85Vac 135Vdc.

High brightness types are usually fitted.

#### Life

Typically 25,000 hours (Green fluorescent lamps 20,000 hours). (Measured to a point when the light output of the lamp is half its original level.)

The end of life for a neon lamp is not usually a sudden failure.

#### False signals due to long wiring

It is possible for neon or fluorescent tubes to glow when they should be off. The false signal is caused by the capacitance effect of fairly long wiring to the indicator being adjacent to other live cables. This effect can be prevented in most cases by fitting a 100k resistor across the supply wires close to the indicator assembly.

### MATERIALS

Moulded bodies and bases	Nylon 6.6
Metal bodies and bezels	Chrome plated brass (except #)
Lenses	Polycarbonate
Terminals (most types)	Brass (electro-tin plated)
Terminals (exceptions)	Brass (flash silver* or nickel** plated)
Threaded metal nuts	Brass (nickel plated on 0275/7)
Other fixings	Call factory for details

\* R9, 0061, 0062, 0430, 0480, 1090, 1091, 6030, 7030, 8630, 8580

\*\* # 3130, 3160, 3161, 3221 have nickel plated terminals with steel screws and plated polyamide bezel trims

### FILAMENT LAMPS

#### Colours

Available with Red, Amber, Green, Clear or Blue lenses.

### LEDs - DC

#### Colours

Red, Yellow, Green, Blue and White.

#### Voltage

Basic voltage 2.0/2.2V. Some items are available with integral resistors for 12V use. For details of resistors required for higher voltages, please call the factory.

#### Current

Maximum continuous forward current 20mA.

#### Life

>100,000hrs

### LEDs - AC

#### Colours

Red, Yellow, Green, Blue and White.

#### Voltage

Rated up to 230V ac, suitable for use at 110V and 230V ac.

#### Current

<3mA

#### Life

>100,000hrs

### TEMPERATURE RATING

Authority	with Terminals	with Wire leads	
		PVC	SILICONE
European	T125°C	T105°C	T125°C
UL	T65/75°C	T65/75°C	

### SYMBOLS

 Terminals C 6.3, H 4.8, K 2.8	 Wire leads 200mm long Standard	 Solid wires LED only	 Panel hole size	 Panel thickness	 Temperature rating
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