

# 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

# 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












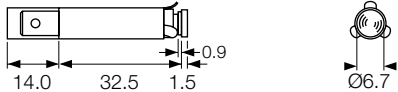









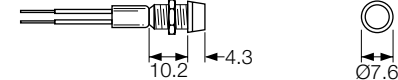


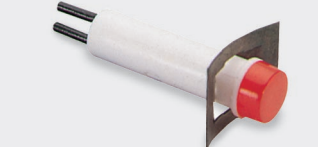







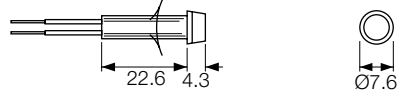










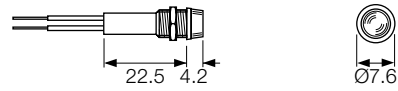









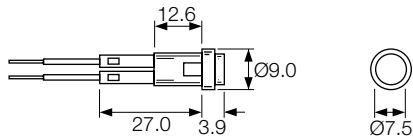








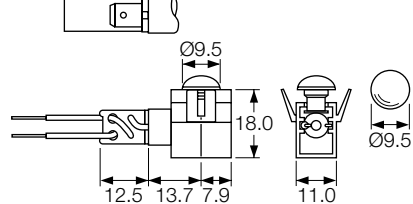
**UL file E63363**  
**CSA file 1279633 / LR29381** <sup>®</sup>

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> 	 5.8  3.0max  page 66	   	
<b>L</b>  <b>W</b> 	<b>(L) 1041 00</b> Chrome bezel 	 6.3  6.3max  page 66	  	
<b>L</b>  <b>W</b> 	<b>(L) 1045 00</b> Chrome bezel available 	 6.3  10.0max  page 66	   	
<b>L</b>  <b>W</b> 	<b>(L) 0245 00</b> Chrome bezel available 	 7.1  6.3max  page 66	   	
<b>L</b> 	<b>L 2950 00</b> Chrome bezel available 	 8.0  0.8-1.6  page 66	   	
<b>L</b>  <b>C 6.3</b> 	<b>(L) 0195 BB</b> 	 8.0  0.8-3.0  page 66	 	

# 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.

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- ▶ Red, yellow, green, blue and white LEDs
- ▶ Wide choice of styles

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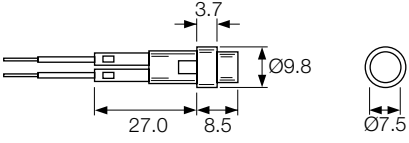



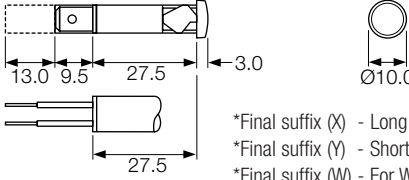



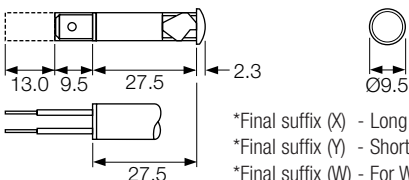




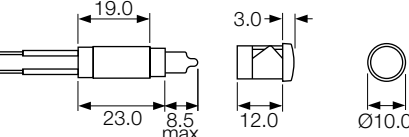




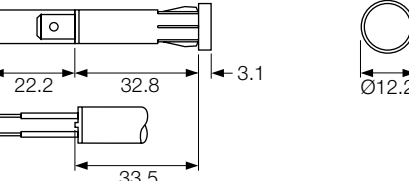




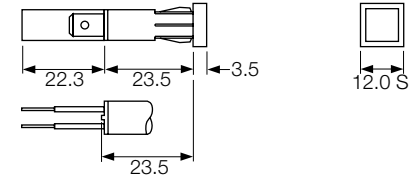
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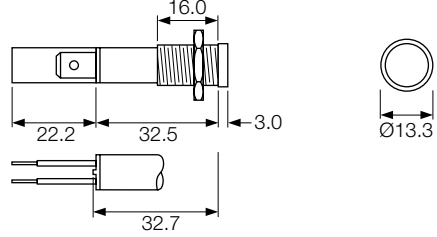

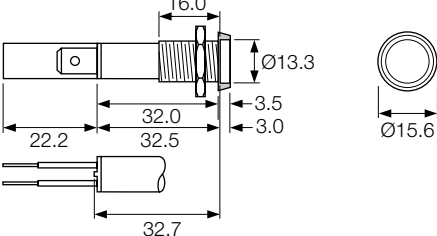

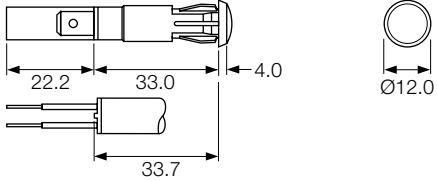
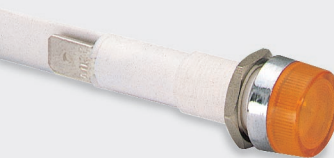
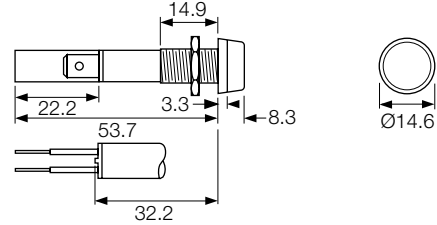

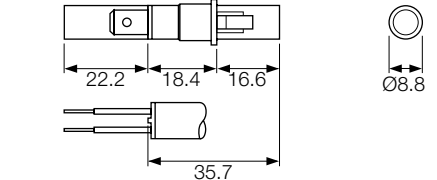










UL file E63363  
CSA file 1279633 / LR29381<sup>®</sup>

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	  	 <p>*Final suffix (X) - Long barrier *Final suffix (Y) - Short barrier *Final suffix (W) - For Wires</p>
L K 2.8 H 4.8	<b>(H) 0568 B(*)</b> Shallow lens profile	8.0 0.8-3.5 page 66	  	 <p>*Final suffix (X) - Long barrier *Final suffix (Y) - Short barrier *Final suffix (W) - For Wires</p>
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)

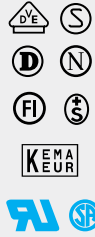

## Colours and voltages:

-  **Neon** Available with Red, Amber, Green or Clear lenses  
100/130V (marked 110V), 200/250V (marked 230V)
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110-230V ac operation.
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












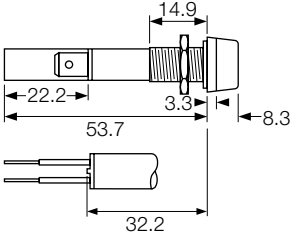













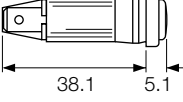













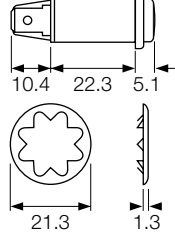












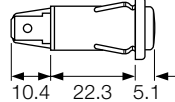
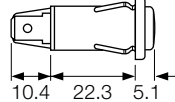












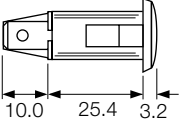
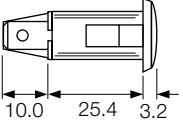
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Refer to the 2 columns below (terminal and type), then state: Lens colour, voltage and whether neon, LED or filament lamp


  
**UL file E63363**  
**CSA file 1279633 / LR29381**
  
Approvals shown for neon versions only
  
 **RoHS compliant**

TERM	TYPE	PANEL & °C	ILLUMINATION OPTIONS	DIMENSIONS (mm)	
L	<b>(C) 2820 00</b> 	 12.0	  		
K 2.8		 0.75-2.0			
H 4.8					
C 6.3		 page 66			
L	<b>(C) 2821 00</b> 	 12.0 or 12.7	  		
K 2.8		 $\begin{matrix} \phi 12.0 \\ = 0.8-2.5 \\ \phi 12.7 \\ = 1.1-2.5 \end{matrix}$			
H 4.8					
C 6.3		 page 66			
L	<b>(C) 0586 00</b> 	 12.5	  		
K 2.8		 0.8-1.5			
H 4.8					
C 6.3		 page 66			
L	<b>(C) 2870 00</b> 	 12.7	  		
K 2.8		 0.75-2.0			
H 4.8					
C 6.3		 page 66			
L	<b>(C) 0589 00</b> 	 12.7	 		
K 2.8		 0.8-1.5			
H 4.8					
C 6.3		 page 66			
L	<b>L 0081 00</b> Chrome bezel 	 12.7	  		
		 9.5			
		 page 66			

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

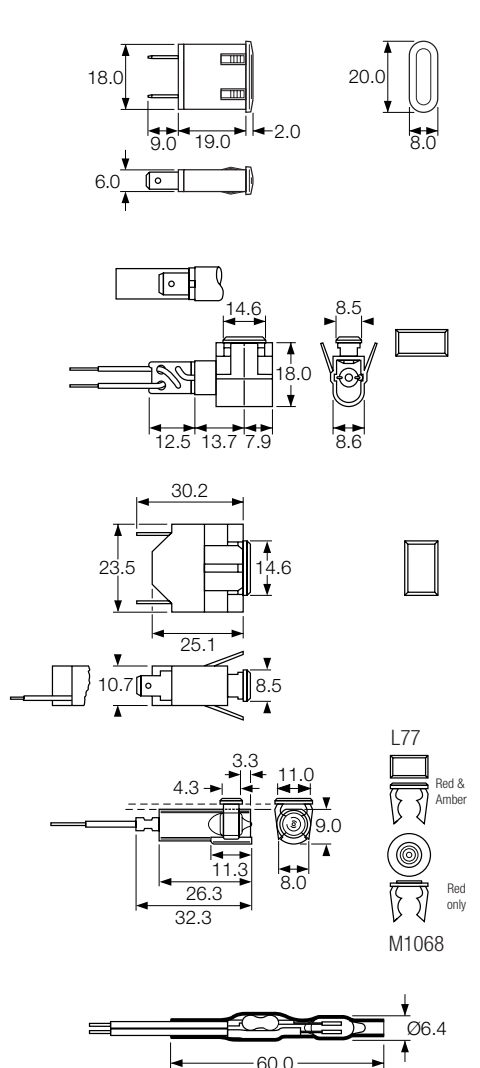
Approvals shown for neon versions only



RoHS compliant

TERM	TYPE	PANEL & °C	ILLUMINATION OPTIONS
H 4.8 	<b>H 0581 AY</b>  	 18.2/18.3 X 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 X 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



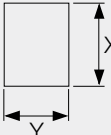
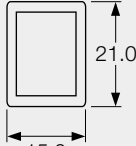
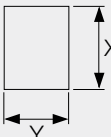
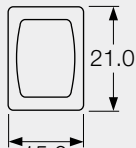
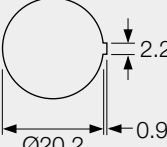
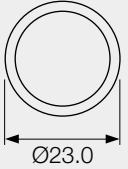
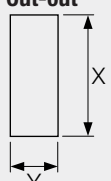
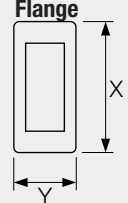
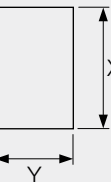
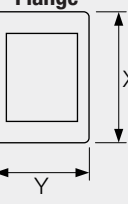
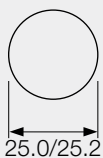
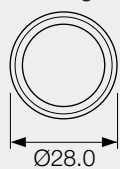
RoHS compliant

## 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>  
H 4.8	<b>H8630 FB</b>  
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>   6030 - L body & C-terminals only
H 4.8	
K 2.8	
T	
U	
C 6.3	<b>C0480 A(*)</b>  
H 4.8	
K 2.8	
T	
U	
C 6.3	<b>C7030 AH</b>  
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	



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