

This range of panel mounting [LED indicators](#) consists of many different [bezel styles](#), types of LED's and colours. The range has developed to meet the different needs of panel design including [IP66 and IP67 environmentally sealed versions](#) for use where a front panel seal is needed.

The vandal resistant LED indicators are designed to complement the vandal resistant switches (see the Switch Section), they have similar profiles with stainless steel bodies, sealing to IP66 & 68 and are built to withstand harsh environments.

|                                   |     |
|-----------------------------------|-----|
| Vandal Resistant LED Indicators   | 368 |
| 5mm LED Indicators                | 370 |
| Indicator Lights                  | 375 |
| Low Voltage Lampholders           | 382 |
| LED Lamps and LED Lampholders     | 384 |
| Indicator Lights - Sealed to IP67 | 386 |

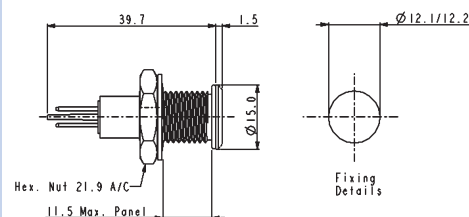


## Proud of Panel Profile



DX0505

- Solder Tag/2.8mm Tag Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body

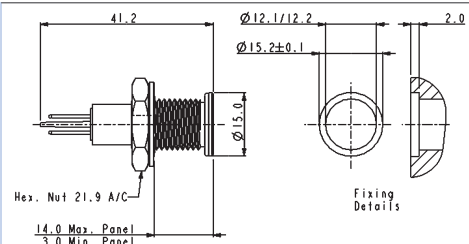


## Flush Panel Profile



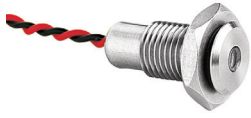
DX0506

- Solder Tag/2.8mm Tag Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body



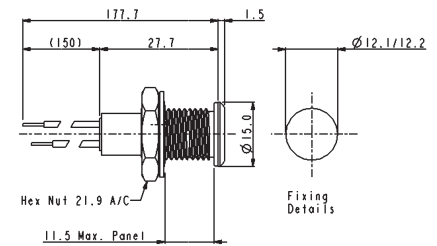
| Specifications               | DX0505/Col/Voltage                                                           | DX0506/Col/Voltage                                                           |
|------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Terminations:                | Solder Tab/2.8mm Tab                                                         | Solder Tab/2.8mm Tab                                                         |
| Forward Voltage:             | Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V                                | Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V                                |
| Cont. Forward Current: (max) | Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA                                 | Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA                                 |
| Power Dissipation:           | Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW                             | Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW                             |
| Reverse Current: (@Vr = 5V)  | Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.             | Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.             |
| LED Luminous Intensity:      | Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)                 | Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)                 |
| Operating Temp. Range:       | -40°C to +80°C                                                               | -40°C to +80°C                                                               |
| Storage Temperature:         | -40°C to +85°C                                                               | -40°C to +85°C                                                               |
| Sealing (Front of panel):    | Protection Classification IP67 to EN60529:1992+A2:2013                       | Protection Classification IP67 to EN60529:1992+A2:2013                       |
| Materials                    |                                                                              |                                                                              |
| Body:                        | Stainless Steel                                                              | Stainless Steel                                                              |
| Lens:                        | Polycarbonate UL94V-0                                                        | Polycarbonate UL94V-0                                                        |
| O Ring (external):           | Nitrile                                                                      | Nitrile                                                                      |
| (internal):                  | Silicone                                                                     | Silicone                                                                     |
| Tightening Torque            | 0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)                                      | 0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)                                      |
| Thread Size:                 | M12 x 1.25-6g                                                                | M12 x 1.25-6g                                                                |
| LED Colours:                 | /RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator | /RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator |
| LED Voltage:                 | /12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)                  | /12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)                  |
| RoHS                         | Compliant                                                                    | Compliant                                                                    |

## Proud of Panel Profile

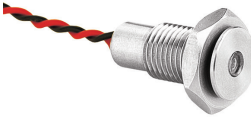


DX0507

- Flying Lead Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body

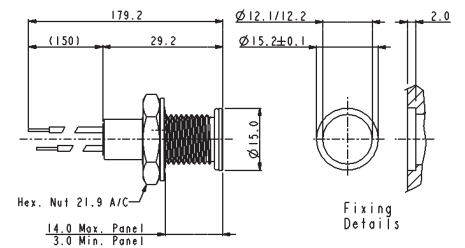


## Flush Panel Profile



DX0508

- Flying Lead Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body



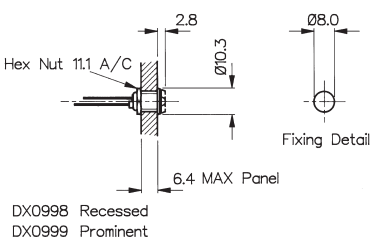
| Specifications               | DX0507/Col/Voltage                                                           | DX0508/Col/Voltage                                                           |
|------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Terminations:                | Flying Leads                                                                 | Flying Leads                                                                 |
| Forward Voltage:             | Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V                                | Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V                                |
| Cont. Forward Current: (max) | Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA                                 | Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA                                 |
| Power Dissipation:           | Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW                             | Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW                             |
| Reverse Current: (@Vr = 5V)  | Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.             | Red 10µA max., Green 10µA max., Yellow 10µA max., Blue 50µA max.             |
| LED Luminous Intensity:      | Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)                 | Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ)                 |
| Operating Temp. Range:       | -40°C to +80°C                                                               | -40°C to +80°C                                                               |
| Storage Temperature:         | -40°C to +85°C                                                               | -40°C to +85°C                                                               |
| Sealing (Front of panel):    | Protection Classification IP67 to EN60529:1992+A2:2013                       | Protection Classification IP67 to EN60529:1992+A2:2013                       |
| Materials                    |                                                                              |                                                                              |
| Body:                        | Stainless Steel                                                              | Stainless Steel                                                              |
| Lens:                        | Polycarbonate UL94V-0                                                        | Polycarbonate UL94V-0                                                        |
| O Ring (external):           | Nitrile                                                                      | Nitrile                                                                      |
| (internal):                  | Silicone                                                                     | Silicone                                                                     |
| Tightening Torque            | 0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)                                      | 0.5Nm - 0.9Nm (4.4lbf.in. - 8.0lbf.in.)                                      |
| Thread Size:                 | M12 x 1.25-6g                                                                | M12 x 1.25-6g                                                                |
| LED Colours:                 | /RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator | /RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded insulator |
| LED Voltage:                 | /12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)                  | /12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)                  |
| RoHS                         | Compliant                                                                    | Compliant                                                                    |

Chrome Plated Brass Bezel



DX0998

- Chrome Plated Brass Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours



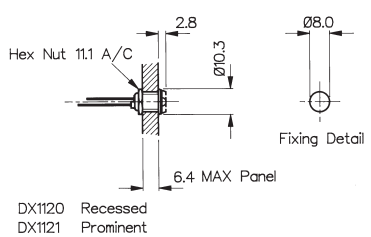
Nylon Bezel



DX1120

DX1121

- Glass Filled Nylon Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours



| Specifications         | DX0998 Colour/Options                                                                                                                                                         | DX1120, DX1121/Colour/Options                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bezel Material:        | Brass, Chrome Plated                                                                                                                                                          | Glass Filled Nylon                                                                                                                                                            |
| Style:                 | Recessed (DX0998)                                                                                                                                                             | Recessed (DX1120)<br>Prominent (DX1121)                                                                                                                                       |
| Operating Temp. Range: | Dependent on LED used                                                                                                                                                         | Dependent on LED used                                                                                                                                                         |
| Storage Temperature:   | Dependent on LED used                                                                                                                                                         | Dependent on LED used                                                                                                                                                         |
| LED Colours:           | /RD (Red), /GN (Green), /YL (Yellow),<br>/BL (Blue), /TR (Tri Colour),<br>/D1 (Dual Colour - Red/Green),<br>/D2 (Dual Colour - Red/Amber),<br>/D3 (Dual Colour - Green/Amber) | /RD (Red), /GN (Green), /YL (Yellow),<br>/BL (Blue), /TR (Tri Colour),<br>/D1 (Dual Colour - Red/Green),<br>/D2 (Dual Colour - Red/Amber),<br>/D3 (Dual Colour - Green/Amber) |
| LED Options:           | /02 (Flashing, Green or Red only)                                                                                                                                             | /02 (Flashing, Green or Red only)                                                                                                                                             |
| Thread Size:           | 0.312" x 32TPI                                                                                                                                                                | 0.312" x 32TPI                                                                                                                                                                |
| <b>RoHS</b>            | Compliant                                                                                                                                                                     | Compliant                                                                                                                                                                     |

See Page 212 for LED options and specifications\*

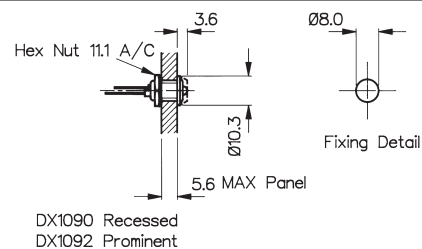
Aluminium Bezel - IP66 Sealed



DX1090

DX1092

- Aluminium Bezel, Black
- Anodised Finish
- IP66 Front Panel Sealed
- Prominent or Recessed Style
- Choice of LED Types and Colours



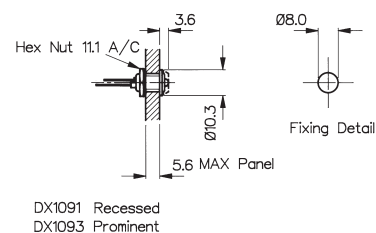
Aluminium Bezel - IP66 Sealed



DX1091

DX1093

- Aluminium Bezel, Clear
- Anodised Finish
- IP66 Front Panel Sealed
- Prominent or Recessed Style
- Choice of LED Types and Colours



| Specifications            | DX1090, DX1092/Colour/Options                                                                                                                                                 | DX1091, DX1093/Colour/Options                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials:                | Aluminium - Black                                                                                                                                                             | Aluminium - Clear                                                                                                                                                             |
| Style:                    | Recessed (DX1090)<br>Prominent (DX1092)                                                                                                                                       | Recessed (DX1091)<br>Prominent (DX1093)                                                                                                                                       |
| Operating Temp. Range:    | Dependent on LED used                                                                                                                                                         | Dependent on LED used                                                                                                                                                         |
| Storage Temperature:      | Dependent on LED used                                                                                                                                                         | Dependent on LED used                                                                                                                                                         |
| Sealing (Front of panel): | Protection Classification IP66 to EN60529:1992+A2:2013                                                                                                                        | Protection Classification IP66 to EN60529:1992+A2:2013                                                                                                                        |
| Tightening Torque:        | 0.056Nm (8ozf.in.) min                                                                                                                                                        | 0.056Nm (8ozf.in.) min                                                                                                                                                        |
| Lead Solder Time:         | 260°C for 5 seconds max.                                                                                                                                                      | 260°C for 5 seconds max.                                                                                                                                                      |
| LED Colours:              | /RD (Red), /GN (Green), /YL (Yellow),<br>/BL (Blue), /TR (Tri Colour),<br>/D1 (Dual Colour - Red/Green),<br>/D2 (Dual Colour - Red/Amber),<br>/D3 (Dual Colour - Green/Amber) | /RD (Red), /GN (Green), /YL (Yellow),<br>/BL (Blue), /TR (Tri Colour),<br>/D1 (Dual Colour - Red/Green),<br>/D2 (Dual Colour - Red/Amber),<br>/D3 (Dual Colour - Green/Amber) |
| Thread Size:              | 0.312" x 32TPI                                                                                                                                                                | 0.312" x 32TPI                                                                                                                                                                |
| <b>RoHS</b>               | Compliant                                                                                                                                                                     | Compliant                                                                                                                                                                     |

See Page 212 for LED options and specifications

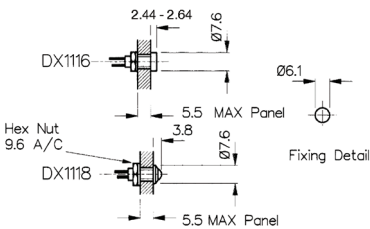
Chrome Plated Brass Bezel



DX1116

DX1118

- Chrome Plated Brass Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours



Black Nickel Pated Brass Bezel



DX1117

DX1119

- Aluminium, Black Anodised Bezel
- Prominent or Recessed Style
- Choice of LED Types and Colours



| Specifications         | DX1116, DX1118/Colour                               | DX1117, DX1119/Colour                               |
|------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Bezel Materials:       | Brass, Chrome Plated                                | Aluminium, Black Anodised                           |
| Style:                 | Recessed (DX1116)<br>Prominent (DX1118)             | Recessed (DX1117)<br>Prominent (DX1119)             |
| Operating Temp. Range: | Dependent on LED used                               | Dependent on LED used                               |
| Storage Temperature:   | Dependent on LED used                               | Dependent on LED used                               |
| Lead Solder Time:      | 260°C for 5 seconds max.                            | 260°C for 5 seconds max.                            |
| LED Colours:           | /RD (Red), /GN (Green), /YL (Yellow),<br>/BL (Blue) | /RD (Red), /GN (Green), /YL (Yellow),<br>/BL (Blue) |
| <b>RoHS</b>            | Compliant                                           | Compliant                                           |

See Page 213 for LED specifications\*

#### 5mm LEDs STANDARD

| Specification                | Red                       | Green    | Yellow   | Blue           |
|------------------------------|---------------------------|----------|----------|----------------|
| Luminous Intensity @20mA:    | 25mcd                     | 20mcd    | 20mcd    | 21mcd          |
| Forward voltage:             | 2.0V                      | 2.0V     | 2.1V     | 3.5V           |
| Cont. Forward Current (max): | 30mA                      | 25mA     | 30mA     | 30mA           |
| Power Dissipation:           | 105mW (max) @20°C Ambient |          |          | 120mW          |
| Reverse Current:             | 10µA                      | 10µA     | 10µA     | 50µA           |
| Reverse Voltage:             | 5V (max)                  | 5V (max) | 5V (max) | 5V (max)       |
| Operating Temp:              | -40°C to +85°C            |          |          | -20°C to +80°C |
| Part No:                     | /RD                       | /GN      | /YL      | /BL            |



#### 5mm LEDs FLASHING

| Specification                | Red                        | Green  |
|------------------------------|----------------------------|--------|
| Luminous Intensity @20mA:    | 1.2mcd                     | 20mcd  |
| Forward voltage:             | 2.0-15.0V                  | 2.0V   |
| Cont. Forward Current (max): | 10-30mA                    | 25mA   |
| Power Dissipation:           | 200mW (max) @ 20°C ambient |        |
| Flash Frequency @ 3V supply: | 2.2Hz (typ)                |        |
| Operating Temp:              | 0°C to +70°C               |        |
| Part No:                     | /RD/02                     | /GN/02 |



#### 5mm LEDs TRI COLOUR

| Specification                | Red/Green/Amber            |
|------------------------------|----------------------------|
| Luminous Intensity @20mA:    | 2.5mcd                     |
| Forward voltage:             | 2.4V                       |
| Cont. Forward Current (max): | 30mA (max)                 |
| Power Dissipation:           | 150mW (max) @ 20°C Ambient |
| Reverse Current:             | 100µA                      |
| Reverse Voltage:             | 5V (max)                   |
| Operating Temp:              | -40°C to +70°C             |
| Part No:                     | /TR                        |



#### 5mm LEDs DUAL COLOUR

| Specifications         | Red/Green      | Red/Amber  | Green/Amber |
|------------------------|----------------|------------|-------------|
| Luminous Intensity:    | 4.5/5mcd       | 4.5/4mcd   | 4/5mcd      |
| Forward voltage:       | 2.2V           | 2.2V       | 2.2V        |
| Cont. Forward Current: | 30mA/30mA      | 30mA/20mA  | 30mA/20mA   |
| Power Dissipation:     | 100mW/100mW    | 100mW/60mW | 100mW/60mW  |
| Reverse Current:       | 100mA          | 100mA      | 100mA       |
| Reverse Voltage:       | 5V (max)       | 5V (max)   | 5V (max)    |
| Operating Temp:        | -40°C to +85°C |            |             |
| Part No:               | /D1            | /D2        | /D3         |



#### 4mm LEDs Standard

| Specifications                          | Red      | Green    | Yellow   | Blue     |
|-----------------------------------------|----------|----------|----------|----------|
| Luminous Intensity @10mA:               | 2.5mcd   | 2.5mcd   | 2.5mcd   | 50mcd    |
| Forward voltage:                        | 2.0V     | 2.1V     | 2.0V     | 3.8V     |
| Cont. Forward Current (max):            | 30mA     | 30mA     | 20mA     | 30mA     |
| Power Dissipation (max) @ 20°C Ambient: | 100mW    | 100mW    | 85mW     | 120mW    |
| Reverse Current:                        | 10µA     | 10µA     | 10µA     | 50µA     |
| Reverse Voltage:                        | 5V (max) | 5V (max) | 5V (max) | 5V (max) |
| Part No:                                | /RD      | /GN      | /YL      | /BL      |



#### Part No Breakdown

| DXxxxx            | / | XX                                                                                                                                                                                                                                                     | / | XX                                                                                   |
|-------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------|
| <b>Bezel Type</b> |   | <b>LED Colour</b><br>RD = Red<br>GN = Green<br>YL = Yellow<br>BL = Blue<br>D1 = Dual Colour - 5mm (Red/<br>Green)<br>D2 = Dual Colour - 5mm (Red/<br>Amber)<br>D3 = Dual Colour - 5mm (Green/<br>Amber)<br>TR = Tri Colour - 5mm (Red/<br>Green/Amber) |   | <b>LED Options</b><br>Blank = Standard<br>02 = Flashing - 5mm (Red or<br>Green only) |

#### Example:

DX1092/RD/02 = Black Aluminum IP66 Prominent Bezel, with Red flashing LED

# Indicator Lights

Neon, LED and Filament Lamp



## Key Features

- 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

## Colours and voltages:

### NEON



Available with Red, Amber, Green or Clear lenses  
100/130V (marked 110V),  
200/250V (marked 230V)

### DC LED



Red, Yellow, Green, Blue, White  
2.0/2.2V  
Resistors for other voltages available.

### AC MAINS LED



Red, Yellow, Green, Blue, White  
110-230V ac operation.

### FILAMENT



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

| Terminal     | Type               | Sealed                   | Illumination                                 | Colour                              | Voltage                      | Options                         |
|--------------|--------------------|--------------------------|----------------------------------------------|-------------------------------------|------------------------------|---------------------------------|
| <b>B</b> 2.8 | <b>(B) 0566 A</b>  | 6.0<br>2.0 max<br>p. 340 | <b>N</b><br><b>L</b><br><b>M</b>             | Neon & Filament<br><b>R</b><br>Red  | <b>1</b><br>LED No Resistor  | <b>C</b><br>Chrome Bezel Finish |
| <b>L</b>     |                    |                          |                                              | <b>A</b><br>Amber                   | <b>2</b><br>125V Neon        |                                 |
| <b>B</b> 2.8 | <b>(B) 0566 B</b>  | 6.0<br>2.0 max<br>p. 340 | <b>N</b><br><b>L</b><br><b>M</b>             | <b>G</b><br>Green                   | <b>3</b><br>250V Neon        |                                 |
| <b>L</b>     |                    |                          |                                              | <b>B</b><br>Blue<br>(Special Order) | <b>4</b><br>6Vdc LED         |                                 |
| <b>B</b> 2.8 | <b>(B) 0566 C</b>  | 6.0<br>2.0max<br>        | <b>N</b><br><b>L</b><br><b>M</b>             | <b>C</b><br>Clear                   | <b>5</b><br>12Vdc LED        |                                 |
| <b>L</b>     |                    |                          |                                              |                                     | <b>6</b><br>24Vdc LED        |                                 |
| <b>C</b> 6.3 | <b>(C) 0145 AA</b> | 5.8<br>3.0max<br>p. 340  | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | LED                                 | <b>7</b><br>12/14V Filament  |                                 |
| <b>L</b>     | <b>(L) 1041 00</b> | 6.3<br>6.3max<br>p. 340  | <b>N</b><br><b>L</b><br><b>F</b>             | <b>R</b><br>Red                     | <b>8</b><br>24/ 28V Filament |                                 |
| <b>W</b>     |                    |                          |                                              | <b>Y</b><br>Yellow                  | <b>9</b><br>125/250Vac LED   |                                 |
| <b>L</b>     | <b>(L) 1045 00</b> | 6.3<br>10.0max<br>p. 340 | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>G</b><br>Green                   |                              |                                 |
| <b>W</b>     |                    |                          |                                              | <b>B</b><br>Blue                    |                              |                                 |

# Indicator Lights

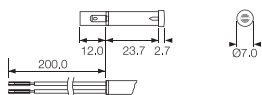
Neon, LED and Filament Lamp



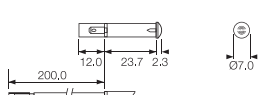
| Terminal                 | Type                     | Sealed                               | Illumination                                 | Colour                                                                                                                                   | Voltage                                                                                                                                                                                                                                              | Options                            |
|--------------------------|--------------------------|--------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>L</b><br><b>W</b>     | <b>(L) 0245 00</b><br>   | <br>7.1<br><br>6.3 max<br><br>p. 340 | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><b>R</b><br>Red<br><b>A</b><br>Amber<br><b>G</b><br>Green<br><b>B</b><br>Blue<br>(Special Order)<br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><b>2</b><br>125V Neon<br><b>3</b><br>250V Neon<br><b>4</b><br>6Vdc LED<br><b>5</b><br>12Vdc LED<br><b>6</b><br>24Vdc LED<br><b>7</b><br>12/14V Filament<br><b>8</b><br>24/ 28V Filament<br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish |
| <b>L</b>                 | <b>L 2950 00</b><br>     | <br>8.0<br><br>0.8-1.6<br><br>p. 340 | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> |                                                                                                                                          |                                                                                                                                                                                                                                                      |                                    |
| <b>L</b><br><b>C</b> 6.3 | <b>(L) 0195 BB</b><br>   | <br>8.0<br><br>0.8-3.0<br><br>p. 340 | <b>N</b><br><b>F</b>                         |                                                                                                                                          |                                                                                                                                                                                                                                                      |                                    |
| <b>L</b>                 | <b>L 2951 00</b><br>     | <br>8.0<br><br>0.8-1.6<br><br>p. 340 | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> |                                                                                                                                          |                                                                                                                                                                                                                                                      |                                    |
| <b>L</b><br><b>H</b> 4.8 | <b>(H) 0568 A(*)</b><br> | <br>8.0<br><br>0.8-3.5<br><br>p. 340 | <b>N</b><br><b>L</b><br><b>F</b>             | <b>R</b><br>Red<br><b>Y</b><br>Yellow                                                                                                    |                                                                                                                                                                                                                                                      |                                    |
| <b>L</b><br><b>H</b> 4.8 | <b>(H) 0568 B(*)</b><br> | <br>8.0<br><br>0.8-3.5<br><br>p. 340 | <b>N</b><br><b>L</b><br><b>F</b>             | <b>G</b><br>Green<br><b>B</b><br>Blue                                                                                                    |                                                                                                                                                                                                                                                      |                                    |

## Dimensions

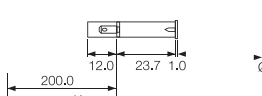
### (B) 0566 A



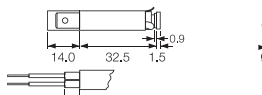
### (B) 0566 B



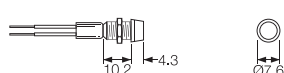
### (B) 0566 C



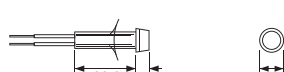
### (C) 0145 AA



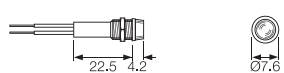
### (L) 1041 00



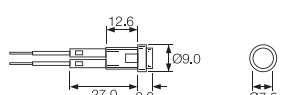
### (L) 1045 00



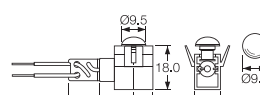
### (L) 0245 00



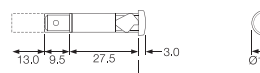
### L 2950 00



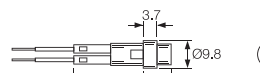
### (L) 0195 BB



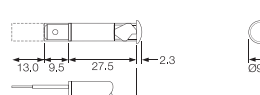
### (H) 0568 A(\*)



### L 2951 00



### (H) 0568 B(\*)



# Indicator Lights

Neon, LED and Filament Lamp



## Key Features

- 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

## Colours and voltages:

| NEON                                                                                                  | DC LED                                                                                 | AC MAINS LED                                              | FILAMENT                                                                      |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                                       |                                                                                        |                                                           |                                                                               |
| Available with Red, Amber, Green or Clear lenses<br>100/130V (marked 110V),<br>200/250V (marked 230V) | Red, Yellow, Green, Blue, White<br>2.0/2.2V<br>Resistors for other voltages available. | Red, Yellow, Green, Blue, White<br>110-230V ac operation. | Available with Red, Amber, Green, Clear or Blue lenses<br>6V, 12/14V, 24/28V. |

| Terminal                                                 | Type                   | Illumination                                 | Colour                                                                                                                                                       | Voltage                                                                                                                                                                                                                                                                              | Options                         | Panel                                  | Approval             |
|----------------------------------------------------------|------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|----------------------|
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0273 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><br><b>R</b><br>Red<br><br><b>A</b><br>Amber<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue<br>(Special Order)<br><br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome Bezel Finish | <br>9.0<br><br>2.0 max<br><br>p. 340   | <br><br><br><br><br> |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0278 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>G</b><br>Green<br><br><b>B</b><br>Blue<br>(Special Order)<br><br><b>C</b><br>Clear                                                                        | <b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED                                                                 |                                 | <br>9.0<br><br>2.0 max<br><br>p. 340   | <br><br><br><br><br> |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0276 AA</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>C</b><br>Clear                                                                                                                                            | <b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED                                                                                                                          |                                 | <br>9.5<br><br>0.8-2.8<br><br>p. 340   | <br><br><br><br><br> |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0275 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>R</b><br>Red<br><br><b>Y</b><br>Yellow<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue                                                                   | <b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED                                                                                                                                                       |                                 | <br>10.0<br><br>12.0<br><br>p. 340     | <br><br><br><br><br> |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0275 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>R</b><br>Red<br><br><b>Y</b><br>Yellow<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue                                                                   | <b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED                                                                                                                                                       |                                 | <br>10.0<br><br>11.5 max<br><br>p. 340 | <br><br><br><br><br> |

# Indicator Lights

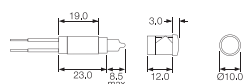
Neon, LED and Filament Lamp



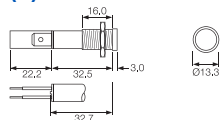
| Terminal                                                 | Type                   | Illumination                                 | Colour                                                                                                                                   | Voltage                                                                                                                                                                                                                                              | Options                            | Panel                                                                        | Approval |
|----------------------------------------------------------|------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------|----------|
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0276 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><b>R</b><br>Red<br><b>A</b><br>Amber<br><b>G</b><br>Green<br><b>B</b><br>Blue<br>(Special Order)<br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><b>2</b><br>125V Neon<br><b>3</b><br>250V Neon<br><b>4</b><br>6Vdc LED<br><b>5</b><br>12Vdc LED<br><b>6</b><br>24Vdc LED<br><b>7</b><br>12/14V Filament<br><b>8</b><br>24/ 28V Filament<br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>10.0<br><br>2.8 max<br><br>p. 340                                        |          |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0277 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><b>R</b><br>Red<br><b>A</b><br>Amber<br><b>G</b><br>Green<br><b>B</b><br>Blue<br>(Special Order)<br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><b>2</b><br>125V Neon<br><b>3</b><br>250V Neon<br><b>4</b><br>6Vdc LED<br><b>5</b><br>12Vdc LED<br><b>6</b><br>24Vdc LED<br><b>7</b><br>12/14V Filament<br><b>8</b><br>24/ 28V Filament<br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>10.0<br><br>12 max<br><br>p. 340                                         |          |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0273 LL</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><b>R</b><br>Red<br><b>A</b><br>Amber<br><b>G</b><br>Green<br><b>B</b><br>Blue<br>(Special Order)<br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><b>2</b><br>125V Neon<br><b>3</b><br>250V Neon<br><b>4</b><br>6Vdc LED<br><b>5</b><br>12Vdc LED<br><b>6</b><br>24Vdc LED<br><b>7</b><br>12/14V Filament<br><b>8</b><br>24/ 28V Filament<br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>10.0<br><br>0.6-2.0<br><br>p. 340                                        |          |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 2820 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><b>R</b><br>Red<br><b>A</b><br>Amber<br><b>G</b><br>Green<br><b>B</b><br>Blue<br>(Special Order)<br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><b>2</b><br>125V Neon<br><b>3</b><br>250V Neon<br><b>4</b><br>6Vdc LED<br><b>5</b><br>12Vdc LED<br><b>6</b><br>24Vdc LED<br><b>7</b><br>12/14V Filament<br><b>8</b><br>24/ 28V Filament<br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.0<br><br>0.75-2.0<br><br>p. 340                                       |          |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 2821 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><b>R</b><br>Red<br><b>A</b><br>Amber<br><b>G</b><br>Green<br><b>B</b><br>Blue<br>(Special Order)<br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><b>2</b><br>125V Neon<br><b>3</b><br>250V Neon<br><b>4</b><br>6Vdc LED<br><b>5</b><br>12Vdc LED<br><b>6</b><br>24Vdc LED<br><b>7</b><br>12/14V Filament<br><b>8</b><br>24/ 28V Filament<br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.0or12.7<br><br>ø12.0<br>= 0.8-2.5<br>ø12.7<br>= 1.1-2.5<br><br>p. 340 |          |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0586 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><b>R</b><br>Red<br><b>A</b><br>Amber<br><b>G</b><br>Green<br><b>B</b><br>Blue<br>(Special Order)<br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><b>2</b><br>125V Neon<br><b>3</b><br>250V Neon<br><b>4</b><br>6Vdc LED<br><b>5</b><br>12Vdc LED<br><b>6</b><br>24Vdc LED<br><b>7</b><br>12/14V Filament<br><b>8</b><br>24/ 28V Filament<br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.5<br><br>0.8-1.5<br><br>p. 340                                        |          |

## Dimensions

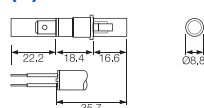
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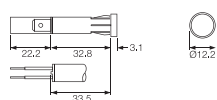
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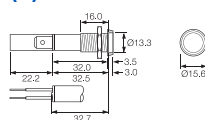
### (C) 0273 LL



### (C) 0273 00



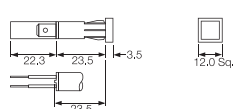
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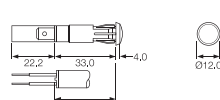
### (C) 2820 00



### (C) 0278 00



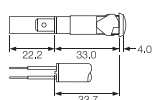
### (C) 0276 00



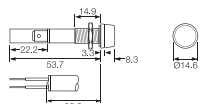
### (C) 2821 00



### (C) 0276 AA



### (C) 0277 00



### (C) 0586 00



# Indicator Lights

Neon, LED and Filament Lamp



## Key Features

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

## Colours and voltages:

| NEON                                                                                               | DC LED                                                                                 | AC MAINS LED                                              | FILAMENT                                                                      |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                                    |                                                                                        |                                                           |                                                                               |
| Available with Red, Amber, Green or Clear lenses<br>100/130V (marked 110V), 200/250V (marked 230V) | Red, Yellow, Green, Blue, White<br>2.0/2.2V<br>Resistors for other voltages available. | Red, Yellow, Green, Blue, White<br>110-230V ac operation. | Available with Red, Amber, Green, Clear or Blue lenses<br>6V, 12/14V, 24/28V. |

| Terminal                                                 | Type                   | Illumination                                 | Colour                                                                                                                                                       | Voltage                                                                                                                                                                                                                                                                              | Options                            | Panel                                                                                                                                                                                                                                                                 | Approval                                                                 |
|----------------------------------------------------------|------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 2870 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Neon & Filament<br><br><b>R</b><br>Red<br><br><b>A</b><br>Amber<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue<br>(Special Order)<br><br><b>C</b><br>Clear | <b>1</b><br>LED No Resistor<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.7<br><br>0.75-2.0<br><br>P. 340<br><br><br>12.7<br><br>0.8-1.5<br><br>p. 340<br><br><br>12.7<br><br>9.5<br><br>p. 340<br><br><br>12.7<br><br>12.0max<br><br>p. 340<br><br><br>12.7<br><br>1.14 max<br><br>p. 340<br><br><br>12.7<br><br>19.0 max<br><br>p. 340 | <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br> |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0589 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Amber<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue<br>(Special Order)<br><br><b>C</b><br>Clear                                                           | <b>1</b><br>LED No Resistor<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.7<br><br>0.75-2.0<br><br>P. 340<br><br><br>12.7<br><br>0.8-1.5<br><br>p. 340<br><br><br>12.7<br><br>9.5<br><br>p. 340<br><br><br>12.7<br><br>12.0max<br><br>p. 340<br><br><br>12.7<br><br>1.14 max<br><br>p. 340<br><br><br>12.7<br><br>19.0 max<br><br>p. 340 | <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br> |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>L 0081 00</b><br>   | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Blue<br>(Special Order)<br><br><b>C</b><br>Clear                                                                                                             | <b>1</b><br>LED No Resistor<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.7<br><br>0.75-2.0<br><br>P. 340<br><br><br>12.7<br><br>0.8-1.5<br><br>p. 340<br><br><br>12.7<br><br>9.5<br><br>p. 340<br><br><br>12.7<br><br>12.0max<br><br>p. 340<br><br><br>12.7<br><br>1.14 max<br><br>p. 340<br><br><br>12.7<br><br>19.0 max<br><br>p. 340 | <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br> |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0177 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | LED<br><br><b>R</b><br>Red<br><br><b>Y</b><br>Yellow<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue                                                        | <b>1</b><br>LED No Resistor<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.7<br><br>0.75-2.0<br><br>P. 340<br><br><br>12.7<br><br>0.8-1.5<br><br>p. 340<br><br><br>12.7<br><br>9.5<br><br>p. 340<br><br><br>12.7<br><br>12.0max<br><br>p. 340<br><br><br>12.7<br><br>1.14 max<br><br>p. 340<br><br><br>12.7<br><br>19.0 max<br><br>p. 340 | <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br> |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0067 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | Red<br><br><b>Y</b><br>Yellow<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue                                                                               | <b>1</b><br>LED No Resistor<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.7<br><br>0.75-2.0<br><br>P. 340<br><br><br>12.7<br><br>0.8-1.5<br><br>p. 340<br><br><br>12.7<br><br>9.5<br><br>p. 340<br><br><br>12.7<br><br>12.0max<br><br>p. 340<br><br><br>12.7<br><br>1.14 max<br><br>p. 340<br><br><br>12.7<br><br>19.0 max<br><br>p. 340 | <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br> |
| <b>L</b><br><b>C</b> 6.3                                 | <b>(C) 0180AA</b><br>  | <b>N</b><br><b>L</b><br><b>F</b>             | Green<br><br><b>B</b><br>Blue                                                                                                                                | <b>1</b><br>LED No Resistor<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>12.7<br><br>0.75-2.0<br><br>P. 340<br><br><br>12.7<br><br>0.8-1.5<br><br>p. 340<br><br><br>12.7<br><br>9.5<br><br>p. 340<br><br><br>12.7<br><br>12.0max<br><br>p. 340<br><br><br>12.7<br><br>1.14 max<br><br>p. 340<br><br><br>12.7<br><br>19.0 max<br><br>p. 340 | <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br> |

# Indicator Lights

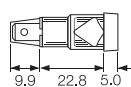
Neon, LED and Filament Lamp



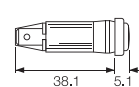
| Terminal                                                 | Type                   | Illumination                                 | Colour                                                                                                                                                                                                                                                                    | Voltage                                                                                                                                                                                                                                                                              | Options                            | Panel                                                                                                           | Approval |
|----------------------------------------------------------|------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| <b>L</b><br><b>C</b> 6.3                                 | <b>(C) 0180BB</b><br>  | <b>N</b><br><b>L</b><br><b>F</b>             | Neon & Filament<br><br><b>R</b><br>Red<br><br><b>A</b><br>Amber<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue<br>(Special Order)<br><br><b>C</b><br>Clear<br><br>LED<br><br><b>R</b><br>Red<br><br><b>Y</b><br>Yellow<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue | <b>1</b><br>LED No Resistor<br><br><b>2</b><br>125V Neon<br><br><b>3</b><br>250V Neon<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED<br><br><b>7</b><br>12/14V Filament<br><br><b>8</b><br>24/ 28V Filament<br><br><b>9</b><br>125/250Vac LED | <b>C</b><br>Chrome<br>Bezel Finish | <br>13.5<br><br><br>0.9-1.14<br>p. 340<br><br><br>14.0<br>2.5 max<br>p. 340<br><br><br>19.0<br>4.0max<br>p. 340 |          |
| <b>L</b><br><b>K</b> 2.8<br><b>H</b> 4.8<br><b>C</b> 6.3 | <b>(C) 0579 00</b><br> | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |                                    |                                                                                                                 |          |
| <b>C</b> 6.3                                             | <b>(C) 1092</b><br>    | <b>N</b>                                     |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |                                    |                                                                                                                 |          |

## Dimensions

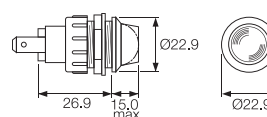
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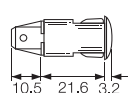
**(C) 0067 00**



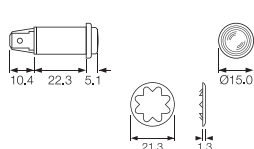
**(C) 1092**



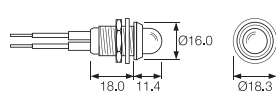
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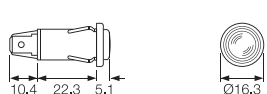
**(C) 0180AA**



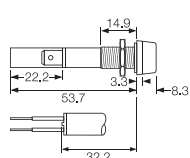
**L 0081 00**



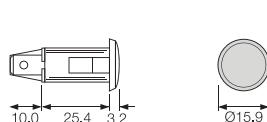
**(C) 0180BB**



**(C) 0177 00**



**(C) 0579 00**



# Indicator Lights

Neon, LED and Filament Lamp



## Key Features

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

## Colours and voltages:

| NEON                                                                                               | DC LED                                                                                 | AC MAINS LED                                              | FILAMENT                                                                      |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                                    |                                                                                        |                                                           |                                                                               |
| Available with Red, Amber, Green or Clear lenses<br>100/130V (marked 110V), 200/250V (marked 230V) | Red, Yellow, Green, Blue, White<br>2.0/2.2V<br>Resistors for other voltages available. | Red, Yellow, Green, Blue, White<br>110-230V ac operation. | Available with Red, Amber, Green, Clear or Blue lenses<br>6V, 12/14V, 24/28V. |

| Terminal | Type      | Illumination | Colour                  | Voltage               | Options                  | Panel                                    | Approval |
|----------|-----------|--------------|-------------------------|-----------------------|--------------------------|------------------------------------------|----------|
| L        | L 0234 00 | N            | Neon & Filament         | 1<br>LED No Resistor  | C<br>Chrome Bezel Finish | 18.2/18.3 x 6.2/6.3<br>2.0-3.5<br>P. 340 | UL KEMA  |
| L        | L 0233 00 | N            | Amber                   | 2<br>125V Neon        |                          | 9.27/9.50 x 4.75<br>0.71-1.62<br>p. 340  | UL KEMA  |
|          |           |              | Green                   | 3<br>250V Neon        |                          | p. 340                                   |          |
|          |           |              | Blue<br>(Special Order) | 4<br>6Vdc LED         |                          | p. 340                                   | KEMA     |
|          |           |              | Clear                   | 5<br>12Vdc LED        |                          |                                          |          |
|          |           |              | LED                     | 6<br>24Vdc LED        |                          |                                          |          |
|          |           |              | Red                     | 7<br>12/14V Filament  |                          |                                          |          |
|          |           |              | Yellow                  | 8<br>24/ 28V Filament |                          |                                          |          |
|          |           |              | Green                   | 9<br>125/250Vac LED   |                          |                                          |          |
|          |           |              | Blue                    |                       |                          |                                          |          |

## Dimensions

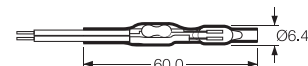
### H 0581 AY



### L 0234 00



### L 0233 00



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

Key Features

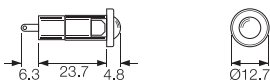
- Up to 50V
- Red, Amber, Green, Blue and Clear
- Linestra/Philinea lamp holder

Colours and voltages:

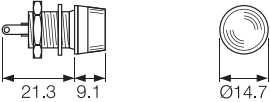
These lampholders are suitable for up to 50V max.  
Colours - Red, Amber, Green, (Clear & Blue, check availability).

| Terminal | Type           | Colour                             | Options                  | Panel                  |
|----------|----------------|------------------------------------|--------------------------|------------------------|
| T        | T0061 00 (LES) | Neon & Filament<br>R<br>Red        | C<br>Chrome Bezel Finish | 9.5<br>0.9-1.14<br>T85 |
| C        | (C) 0067 00    | Amber<br>G<br>Green                |                          | 12.7<br>1.14max<br>T85 |
| T 6.3    | (T) 0062 A0    | Blue (Special Order)<br>C<br>Clear |                          | 12.7<br>9.6max<br>T85  |
| T        | (C) 0062 M0    | LED<br>R<br>Red                    |                          | 12.7<br>9.6max<br>T85  |
| S        | (S) 0095 00    | Yellow<br>G<br>Green<br>B<br>Blue  |                          | T85                    |

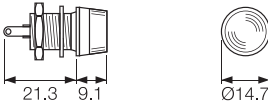
T0061 00 (LES)



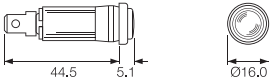
(C) 0062 M0



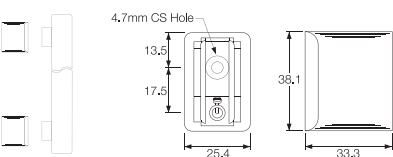
(T) 0062 A0



(C) 0067 00



(S) 0095 00





C1090FE ---



P1090FL ---

## Key Features

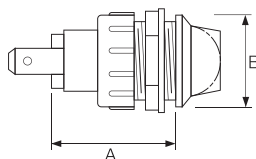
- Up to 50V
- MES or MBC bulb
- Flat and domed lens
- Brass or nylon bodies
- Red, Amber, Green, Blue and Clear lenses

## Approvals and specifications

These lampholders are suitable for up to 50V max.

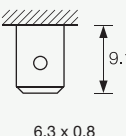
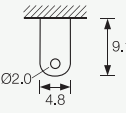
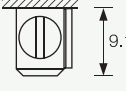
Colours - Red, Amber, Green, (Clear & Blue, check availability).  
Brass bodies have polished chrome finish.

## Dimensions and Options



F0445 MO  
P.V.C. Insulating terminal cover.



| Terminal                                                                                                           | Type                                                                                                                                         | Colour                  | Options                         | Panel                   |                      |                         |              |      | Lens                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|-------------------------|----------------------|-------------------------|--------------|------|----------------------------------------------------------------------------------------------------------------|
| <b>C</b><br><br>6.3 x 0.8       | <b>1090</b><br>MES (E10)<br>                              | <b>R</b><br>Red         | <b>C</b><br>Chrome Bezel Finish | <b>1090 (MES lamps)</b> |                      |                         |              |      | <b>F</b><br>Flat<br>      |
|                                                                                                                    |                                                                                                                                              | <b>Y</b><br>Yellow      |                                 | <b>Panel Hole Dia</b>   | <b>Body Material</b> | <b>Dim A</b>            | <b>Dim B</b> |      |                                                                                                                |
|                                                                                                                    |                                                                                                                                              | <b>G</b><br>Green       |                                 | <b>A</b>                | 19.0                 | Brass                   | 35.0         | 22.0 |                                                                                                                |
|                                                                                                                    |                                                                                                                                              | <b>B</b><br>Blue        |                                 | <b>D</b>                | 19.0                 | Brass                   | 30.2         | 22.0 |                                                                                                                |
|                                                                                                                    |                                                                                                                                              | <b>C</b><br>Clear       |                                 | <b>E</b>                | 19.0                 | Nylon with chrome bezel | 30.2         | 22.0 |                                                                                                                |
| <b>T</b><br><br>Solder          | <b>1091</b><br>MBC (BA9s)<br>(C and S Terminals only)<br> |                         |                                 | <b>G</b>                | 19.0                 | Brass                   | 24.6         | 22.0 | <b>V</b><br>MES (E10)<br> |
|                                                                                                                    |                                                                                                                                              |                         |                                 | <b>H</b>                | 19.0                 | Nylon with chrome bezel | 24.6         | 22.0 |                                                                                                                |
|                                                                                                                    |                                                                                                                                              |                         |                                 | <b>L</b>                | 25.4                 | Brass                   | 26.0         | 31.5 |                                                                                                                |
|                                                                                                                    |                                                                                                                                              | <b>1091 (MBC lamps)</b> |                                 |                         |                      |                         |              |      |                                                                                                                |
|                                                                                                                    |                                                                                                                                              |                         |                                 | <b>Panel Hole Dia</b>   | <b>Body Material</b> | <b>Dim A</b>            | <b>Dim B</b> |      |                                                                                                                |
| <b>S</b><br><br>Screw and Clamp |                                                                                                                                              |                         |                                 | <b>B</b>                | 19.0                 | Brass                   | 36.0         | 22.0 | <b>L</b><br>No lens                                                                                            |
|                                                                                                                    |                                                                                                                                              | <b>C</b>                |                                 | 19.0                    | Nylon                | 36.6                    | 22.0         |      |                                                                                                                |
|                                                                                                                    |                                                                                                                                              | <b>Q</b>                |                                 | 19.0                    | Nylon (Chrome twin)  | 36.6                    | 22.8         |      |                                                                                                                |
|                                                                                                                    |                                                                                                                                              | <b>M</b>                |                                 | 25.4                    | Brass                | 38.1                    | 31.5         |      |                                                                                                                |
|                                                                                                                    |                                                                                                                                              |                         |                                 |                         |                      |                         |              |      |                                                                                                                |

# LED Lamps and LED Lampholders

LED Lampholders can be supplied with or without LEDs



## Key Features

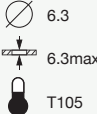
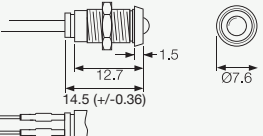
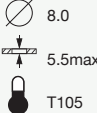
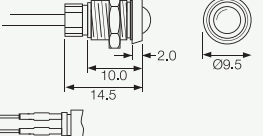
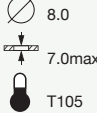
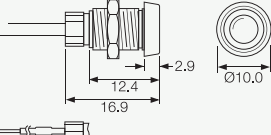
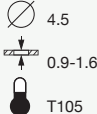
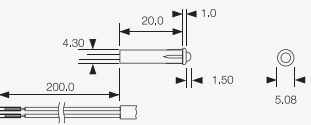
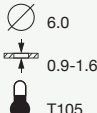
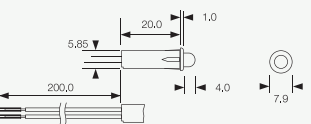
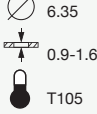
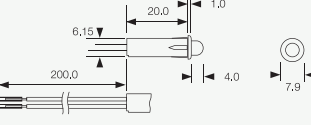
- LED lampholders
- Supplied with or without LEDs
- Black or Chrome finish

## Colours and voltages:

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 sales.

| Terminal                                                                      | Type                                                                                                      | Body Colour                    | LED Colour                                                                                 | Voltage                                                                                                           | Panel Cutout                                                                                                   | Approval                                                                                                                                                                     | Dimensions                                                                                                                            |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>W</b> LED fitted<br><b>A</b> LED not fitted<br><b>L</b> LED & Wires fitted | <b>(W) 1047 00</b><br>   | <b>B</b><br>Black<br><br>Blank | <b>R</b><br>Red<br><br><b>Y</b><br>Yellow<br><br><b>G</b><br>Green<br><br><b>B</b><br>Blue | <b>1</b><br>LED No Resistor<br><br><b>4</b><br>6Vdc LED<br><br><b>5</b><br>12Vdc LED<br><br><b>6</b><br>24Vdc LED | <br>6.3<br>6.3max<br>T105     |                                                                                                                                                                              | <br>12.7<br>1.5<br>14.5 (+/-0.36)<br>Ø7.6          |
| <b>W</b> LED fitted<br><b>A</b> LED not fitted<br><b>L</b> LED & Wires fitted | <b>(L) 1048 00</b><br> |                                |                                                                                            |                                                                                                                   | <br>8.0<br>5.5max<br>T105    |                                                                                                                                                                              | <br>10.0<br>2.0<br>14.5<br>Ø9.5                  |
| <b>W</b> LED fitted<br><b>A</b> LED not fitted<br><b>L</b> LED & Wires fitted | <b>(W)1050 00</b><br>  |                                |                                                                                            |                                                                                                                   | <br>8.0<br>7.0max<br>T105   |                                                                                          | <br>12.4<br>2.9<br>16.9<br>Ø10.0                 |
| <b>W</b> LED fitted<br><b>L</b> LED & Wires fitted                            | <b>(L) 1035 0A</b><br> |                                |                                                                                            |                                                                                                                   | <br>4.5<br>0.9-1.6<br>T105  | <br> | <br>4.30<br>20.0<br>1.0<br>1.50<br>200.0<br>5.08 |
| <b>W</b> LED fitted<br><b>L</b> LED & Wires fitted                            | <b>(L) 1036 0A</b><br> |                                |                                                                                            |                                                                                                                   | <br>6.0<br>0.9-1.6<br>T105  | <br> | <br>5.85<br>20.0<br>1.0<br>4.0<br>200.0<br>7.9   |
| <b>W</b> LED fitted<br><b>L</b> LED & Wires fitted                            | <b>(L) 1037 0A</b><br> |                                |                                                                                            |                                                                                                                   | <br>6.35<br>0.9-1.6<br>T105 | <br> | <br>6.15<br>20.0<br>1.0<br>4.0<br>200.0<br>7.9   |

# LED Lamps and LED Lampholders - Sealed to IP67



## Key Features

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

## Colours and voltages:

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 sales.

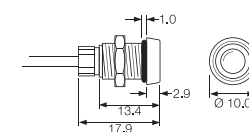
| Terminal                        | Type                   | LED Colour       | Voltage               | Panel                             | Approval |
|---------------------------------|------------------------|------------------|-----------------------|-----------------------------------|----------|
| <b>L</b> LED & Wires fitted<br> | <b>(L) 1048 00</b><br> | <b>B</b><br>Blue | <b>6</b><br>24Vdc LED | <br>8.0<br><br>5.5max<br><br>T105 |          |
| <b>W</b> LED fitted<br>         | <b>(W) 1050 00</b><br> |                  |                       | <br>8.0<br><br>7.0max<br><br>T105 |          |
| <b>A</b> LED not fitted<br>     |                        |                  |                       |                                   |          |
| <b>L</b> LED & Wires fitted<br> | <b>(W) 1050 00</b><br> |                  |                       | <br>8.0<br><br>7.0max<br><br>T105 |          |

## Dimensions

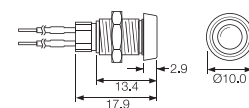
### (L) 1048 00



### (W) 1050 00



### (W) 1050 00



## 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.

## Key Features

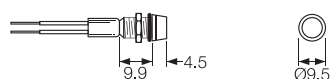
- IP67 Panel Sealing
- Supplied complete with gaskets/'O' rings
- Neon, LED, mains LED or filament lamp
- Bezel sizes from 7.6 to 22.9mm diameter
- Red, amber, green, blue and clear lenses
- Red, yellow, green, blue and white LEDs
- Wide choice of styles

## Colours and voltages:

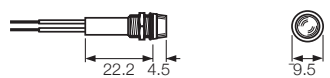
| NEON                                                                                                  | DC LED                                                                                 | AC MAINS LED                                              | FILAMENT                                                                      |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                                       |                                                                                        |                                                           |                                                                               |
| Available with Red, Amber, Green or Clear lenses<br>100/130V (marked 110V),<br>200/250V (marked 230V) | Red, Yellow, Green, Blue, White<br>2.0/2.2V<br>Resistors for other voltages available. | Red, Yellow, Green, Blue, White<br>110-230V ac operation. | Available with Red, Amber, Green, Clear or Blue lenses<br>6V, 12/14V, 24/28V. |

| Terminal                                                 | Type                   | Sealed             | Illumination                                 | Colour                                                                                              | Voltage                                                                                                            | Option                          | Panel Cutout     | Approval |
|----------------------------------------------------------|------------------------|--------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|----------|
| <b>L</b>                                                 | <b>(L) 1041 OS</b><br> | <b>S</b><br>Sealed | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>R</b><br>Red<br><b>A</b><br>Amber                                                                | <b>1</b><br>LED No Resistor<br><b>2</b><br>125V Neon                                                               | <b>C</b><br>Chrome Bezel Finish | 6.3<br>5.3max    |          |
| <b>L</b>                                                 | <b>(L) 0245 OS</b><br> |                    | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>G</b><br>Green<br><b>B</b><br>Blue (Special)                                                     | <b>3</b><br>250V Neon<br><b>4</b><br>6Vdc LED<br><b>5</b><br>12Vdc LED                                             |                                 | 7.1<br>4.6max    |          |
| <b>L</b><br><b>C</b> 6.3<br><b>K</b> 2.8<br><b>H</b> 4.8 | <b>(C) 0275 OS</b><br> |                    | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>C</b><br>Clear<br><br>LED                                                                        | <b>6</b><br>24Vdc LED<br><b>7</b><br>12/14V Filament<br><b>8</b><br>24/ 28V Filament<br><b>9</b><br>125/250Vac LED |                                 | 10.0<br>11.15max |          |
| <b>L</b><br><b>C</b> 6.3<br><b>K</b> 2.8<br><b>H</b> 4.8 | <b>(C) 0277 OS</b><br> |                    | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> | <b>R</b><br>Red<br><b>Y</b><br>Yellow<br><b>G</b><br>Green<br><b>B</b><br>Blue<br><b>W</b><br>White |                                                                                                                    |                                 | 10.0<br>11.15max |          |
| <b>L</b><br><b>C</b> 4.8<br><b>K</b> 2.8<br><b>H</b>     | <b>(C) 0177 OS</b><br> |                    | <b>N</b><br><b>L</b><br><b>M</b><br><b>F</b> |                                                                                                     |                                                                                                                    |                                 | 12.7<br>11.15max |          |

**(L) 1041 OS**



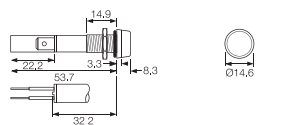
**(L) 0245 OS**



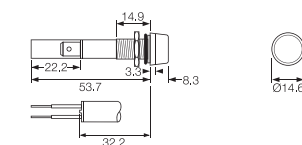
**(C) 0275 OS**



**(C) 0277 OS**



**(C) 0177 OS**



Key Features

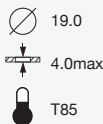
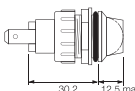
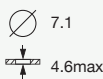
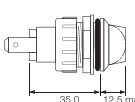
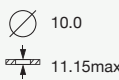
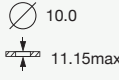
- IP67 Panel Sealing
- Supplied complete with gaskets/'O' rings
- Bezel sizes from 7.6 to 22.9mm diameter
- Red, amber, green, blue and clear lenses

Colours and voltages:

These lampholders are suitable for up to 50V max.

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

Field installable filament lamps. See each series for the appropriate type.

| Terminal                                                                                | Type                                                                      | Sealed      | Colour              | Options             | Panel                                                                               | Approvals                                                                             | Dimensions                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------|---------------------|---------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C 6.3  | C1090 FPS (MES)                                                           | S<br>Sealed | R<br>Red            | Chrome Bezel Finish |    |    |                                                                                          |
|                                                                                         | C1091 FQS (MBC)                                                           |             | A<br>Amber          |                     |                                                                                     |                                                                                       |                                                                                                                                                                             |
| C 6.3  | C1091 FQS (MBC)                                                           |             | G<br>Green          |                     |    |    |                                                                                         |
| T    | T0062 AOS (Midget flange)<br>Chrome bezel<br>T0063 AOS (LES) Chrome bezel |             | B<br>Blue (Special) |                     |  |  |   |
| T    | T0062 MOS (LES & Midget flange)<br>T0063 MOS (LES)                        |             | C<br>Clear          |                     |  |  |   |

**F0445 MO**  
P.V.C. Insulating terminal cover.  
For use with C1090 & C1091



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, Blue 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 sales 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 sales.

#### 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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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[www.lifeelectronics.ru](http://www.lifeelectronics.ru)