

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.

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## Vandal Resistant LED Indicators

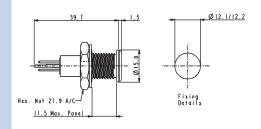


Proud of Panel Profile



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

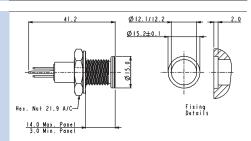


Flush Panel Profile



DX0506

- Solder Tag/2.8mm Tag Termination
- Sealed to IP67
- Red, Green, Yellow or Blue **LED Options**
- Wide Viewing Angle Shock and Vibration Resistant 0
- Stainless Steel body



| Specifications   | DX0505/Col/Voltage  | DX0506/Col/Voltage  |
|--|---|---|
| Terminations:<br>Forward Voltage:<br>Cont. Forward Current:<br>(max) | Solder Tab/2.8mm Tab<br>Red 1.85V, Green 2.2V, Yellow 2.0V,<br>Blue 3.8V<br>Red 30mA, Green 25mA,<br>Yellow 30mA, Blue 25mA | Solder Tab/2.8mm Tab Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA |
| Power Dissipation:   | Red 100mW, Green 105mW,<br>Yellow 125mW, Blue 120mW   | Red 100mW, Green 105mW,<br>Yellow 125mW, Blue 120mW   |
| Reverse Current:<br>(@Vr = 5V)                                       | Red 10μA max., Green 10μA max., Yellow 10μA max., Blue 50μA max.  | Red 10μA max., Green 10μA max.,<br>Yellow 10μA max., Blue 50μA max.   |
| LED Luminous Intensity:  | Red 2000mcd, Green 100mcd,<br>Yellow 400mcd, Blue 1600mcd (typ)   | Red 2000mcd, Green 100mcd,<br>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<br>Body:<br>Lens:<br>O Ring (external):<br>(internal):     | Stainless Steel<br>Polycarbonate UL94V-0<br>Nitrile<br>Silicone   | Stainless Steel<br>Polycarbonate UL94V-0<br>Nitrile<br>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)   |

Compliant

Compliant

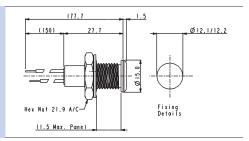
## Vandal Resistant LED Indicators



Proud of Panel Profile



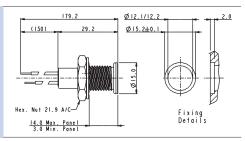
- O Flying Lead Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body



Flush Panel Profile



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



DX0508

DX0507

| Specifications                                       | DX0507/Col/Voltage   | DX0508/Col/Voltage   |
|--|--|--|
| Terminations:<br>Forward Voltage:                    | Flying Leads<br>Red 1.85V, Green 2.2V, Yellow 2.0V,<br>Blue 3.8V             | Flying Leads<br>Red 1.85V, Green 2.2V, Yellow 2.0V,<br>Blue 3.8V                   |
| Cont. Forward Current: (max)                         | Red 30mA, Green 25mA,<br>Yellow 30mA, Blue 25mA                              | Red 30mA, Green 25mA,<br>Yellow 30mA, Blue 25mA                                    |
| Power Dissipation:                                   | Red 100mW, Green 105mW,<br>Yellow 125mW, Blue 120mW                          | Red 100mW, Green 105mW,<br>Yellow 125mW, Blue 120mW                                |
| Reverse Current:<br>(@Vr = 5V)                       | Red 10μA max., Green 10μA max., Yellow 10μA max., Blue 50μA max.             | Red 10μA max., Green 10μA max.,<br>Yellow 10μA max., Blue 50μA max.                |
| LED Luminous Intensity:                              | Red 2000mcd, Green 100mcd,<br>Yellow 400mcd, Blue 1600mcd (typ)              | Red 2000mcd, Green 100mcd,<br>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: Lens: O Ring (external): (internal): | Stainless Steel<br>Polycarbonate UL94V-0<br>Nitrile<br>Silicone              | Stainless Steel Polycarbonate UL94V-0 Nitrile 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)<br>/BL (Blue), with colour coded<br>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  |

## 5mm LED Indicators

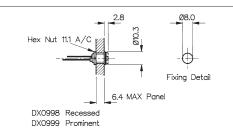






DX0998

- O Chrome Plated Brass Bezel
- Prominent or Recessed StyleChoice of LED Types and Colours



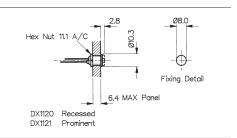
Nylon Bezel



DX1120

DX1121

- O Glass Filled Nylon Bezel
- O 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  |
| RoHS                   | Compliant   | Compliant   |

See Page 212 for LED options and specifications\*

## 5mm LED Indicators



Aluminium Bezel - IP66 Sealed

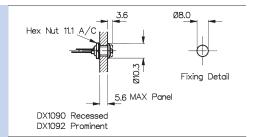


DX1090

DX1092

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

Colours



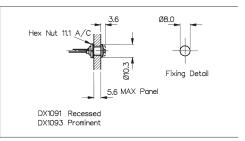
Aluminium Bezel - IP66 Sealed



DX1091

DX1093

- Aluminium Bezel, Clear
- $\Diamond$ Anodised Finish
- IP66 Front Panel Sealed
- O 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  |
| RoHS                      | Compliant   | Compliant   |

See Page 212 for LED options and specifications

## 4mm LED Indicators

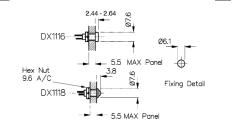


Chrome Plated Brass Bezel



DX1116 DX1118

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



Black Nickel Pated Brass Bezel



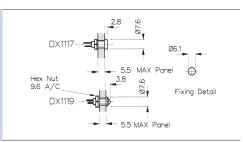
DX1117

DX1119

Aluminium, Black Anodised

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), /BL (Blue) | /RD (Red), /GN (Green), /YL (Yellow),<br>/BL (Blue) |
| RoHS                   | Compliant  | Compliant   |

See Page 213 for LED specifications\*

# 5mm LED options



#### 5mm LEDs STANDARD

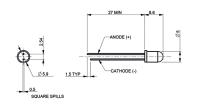
| Specification   | Red                   | Green            | Yellow           | Blue                  |  |
|---|-----------------------|------------------|------------------|-----------------------|--|
| Luminous Intensity @20mA:<br>Forward voltage:<br>Cont. Forward Current (max): | 25mcd<br>2.0V<br>30mA | 2.0V 2.0V 2.1V   |                  | 21mcd<br>3.5V<br>30mA |  |
| Power Dissipation:  | 105mW (               | max) @20°C A     | mbient           | 120mW                 |  |
| Reverse Current:<br>Reverse Voltage:  | 10μA<br>5V (max)      | 10μA<br>5V (max) | 10μA<br>5V (max) | 50μA<br>5V (max)      |  |
| Operating Temp:   | -4                    | -40°C to +85°C   |                  |                       |  |

/GN

/YL

/BL

/RD



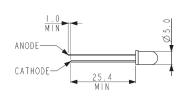
#### 5mm LEDs FLASHING

Part No:

| 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

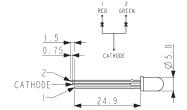


#### 5mm LEDs TRI COLOUR

| 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



#### 5mm LEDs DUAL COLOUR

| Specifications         | Red/Green   | Red/Amber      | Green/Amber   |                    |
|------------------------|-------------|----------------|---------------|--------------------|
| Luminous Intensity:    | 4.5/5mcd    | 4.5/4mcd       | 4/5mcd        | I N 0              |
| Forward voltage:       | 2.2V        | 2.2V           | 2.2V          | MIN S              |
| Cont. Forward Current: | 30mA/30mA   | 30mA/20mA      | 30mA/20mA     |                    |
| Power Dissipation:     | 100mW/100mW | 100mW/60mW     | 100mW/60mW    |                    |
| Reverse Current:       | 100mA       | 100mA          | 100mA         | 25.0               |
| Reverse Voltage:       | 5V (max)    | 5V (max)       | 5V (max)      | MIN                |
| Operating Temp:        | 0 1 (1100)  | -40°C to +85°C | 0.1 (1.131.1) | RED RED YELLOW     |
| Part No:               | /D1         | /D2            | /D3           | GREEN YELLOW GREEN |

# Indicators 4mm LED Options



#### 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     | <u>₩, №</u> |
| Cont. Forward Current (max):            | 30mA     | 30mA     | 20mA     | 30mA     | ANODE       |
| Power Dissipation (max) @ 20°C Ambient: | 100mW    | 100mW    | 85mW     | 120mW    | ANODE       |
| Reverse Current:                        | 10μΑ     | 10μΑ     | 10μΑ     | 50μΑ     | CATHODE     |
| Reverse Voltage:                        | 5V (max) | 5V (max) | 5V (max) | 5V (max) | 12.5        |
| Part No:                                | /RD      | /GN      | /YL      | /BL      | MINT        |

#### Part No Breakdown

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

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

## **Indicator Lights**

Neon, LED and Filament Lamp



#### **Key Features**

## Colours and voltages:

- O 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



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



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



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



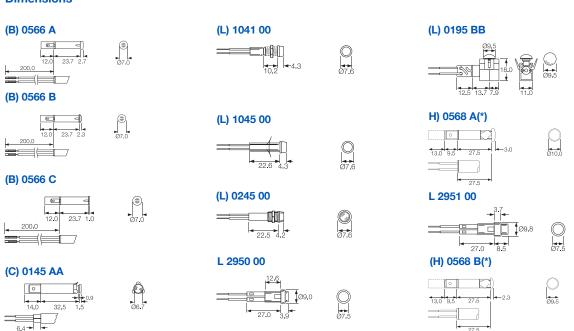
Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

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



| Terminal        | Туре          | Sealed                   | Illumination  | Colour                       | Voltage                                | Options                     |
|-----------------|---------------|--------------------------|---|------------------------------|--|-----------------------------|
| L H             | (L) 0245 00   | 7.1<br>6.3 max<br>p. 340 | N -{}-<br>L + <del>  </del><br>M +  -<br>F -⊗-          | Neon & Filament R Red        | 1<br>LED No Resistor                   | C<br>Chrome<br>Bezel Finish |
| L B             | L 2950 00     | 8.0<br>0.8-1.6<br>p. 340 | N -{}-<br>L <del>  </del><br>M <del>  </del> -<br>F -⊗- | A Amber G Green              | 3<br>250V Neon                         |                             |
| L               | (L) 0195 BB   | 8.0<br>0.8-3.0<br>p. 340 | N -⊕-<br>F -⊗-  | B<br>Blue<br>(Special Order) | 6Vdc LED  5 12Vdc LED                  |                             |
| L E             | L 2951 00     | 8.0<br>0.8-1.6<br>p. 340 | N -⊕-<br>L <del>ᢤ</del><br>M <del>ᢤ</del><br>F -⊗-      | LED                          | 6<br>24Vdc LED<br>7<br>12/14V Filament |                             |
| L ::<br>H 4.8 : | H) 0568 A(*)  | 8.0<br>0.8-3.5<br>p. 340 | N -⊕-<br>L <del>∛</del><br>F -⊗-                        | Red Y                        | 8<br>24/ 28V Filament                  |                             |
| L E-H 4.8       | (H) 0568 B(*) | 8.0<br>0.8-3.5<br>p. 340 | N -⊕-<br>L <del>∯</del><br>F -⊗-                        | G<br>Green<br>B<br>Blue      | 125/250Vac LED                         |                             |

#### **Dimensions**





#### **Key Features**

- Neon, LED, mains LED or filament lamp
- O 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:**



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



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

#### **AC MAINS LED FILAMENT**



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



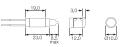
Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

| Terminal | Туре        | Illumination                                       | Colour                       | Voltage                                      | Options                     | Panel                      | Approval                     |
|----------|-------------|--|------------------------------|--|-----------------------------|----------------------------|------------------------------|
| L        | (C) 0273 00 | N -⊕-<br>L <del>∯</del><br>M <del>∯</del><br>F -⊗- | Neon & Filament  R  Red      | 1<br>LED No Resistor<br>2<br>125V Neon       | C<br>Chrome<br>Bezel Finish | 9.0<br>2.0 max<br>p. 340   | FL KEEL<br>KEEL<br>KEEL      |
| L        | (C) 0278 00 | N -⊕-<br>L <del>∜</del><br>M <del>∜</del><br>F -⊗- | A<br>Amber<br>G<br>Green     | 3<br>250V Neon                               |                             | 9.0<br>2.0 max<br>p. 340   | FLA CETA  KETA  KETA         |
| L        | (C) 0276 AA | N -{}-<br>L <del>†</del><br>M †}<br>F -⊗-          | Blue<br>(Special Order)<br>C | 6Vdc LED  5 12Vdc LED                        |                             | 9.5<br>0.8-2.8<br>p. 340   | <b>71</b> Kil<br>Kil<br>Kil  |
| L        | (C) 0275 00 | N -{}-<br>L +}-<br>M +}-<br>F -⊗-                  | LED R                        | 6<br>24Vdc LED<br>7<br>12/14V Filament       |                             | 10.0<br>12.0<br>p. 340     | FL KEEL & KEEL & KEEL & KEEL |
| L        | (C) 0275 00 | N -⊕-<br>L <del>†</del><br>M <del>†</del><br>F -⊗- | Y Yellow                     | 8<br>24/ 28V Filament<br>9<br>125/250Vac LED |                             | 10.0<br>11.5 max<br>p. 340 | FL REED S                    |
|          |             |  | Green  B  Blue               |  |                             |                            |                              |



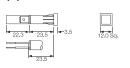
| Terminal     | Туре        | Illumination            | Colour                  | Voltage              | Options                | Panel                       | Approval                |
|--------------|-------------|-------------------------|-------------------------|----------------------|------------------------|-----------------------------|-------------------------|
| L E          | (C) 0276 00 | N -()-                  | Neon & Filament         | 1                    | С                      | 10.0                        | AT KEDY 🐠               |
| K 2.8        |             | L 💨                     | R                       | LED No Resistor      | Chrome<br>Bezel Finish | 2.8 max                     | KEDA                    |
| H 4.8        |             | M <del>∲</del><br>F -⊗- | Red                     | 2                    |                        | Ò                           | <b>71</b> K## <b>3</b>  |
| C 6.3        |             | . 0                     | Α                       | 125V Neon            |                        | <b>p</b> . 340              | KENA                    |
| L E          | (C) 0277 00 | N <del>-</del> ⊕-       | Amber                   |                      |                        | $\sim$                      |                         |
| K 2.8        |             | L <del>*</del>          | G                       | 3                    |                        | 10.0                        | AN KENA ®               |
| <b>H</b> 4.8 |             | M <del>≱</del>          | Green                   | 250V Neon            |                        | 12 max                      | KEDA                    |
| <b>C</b> 6.3 |             | <b>F</b> -⊗-            |                         | 4                    |                        | p. 340                      | KEDA                    |
|              |             |                         | В                       | 6Vdc LED             |                        |                             |                         |
| L            | (C) 0273 LL | N                       | Blue<br>(Special Order) |                      |                        | Ø 10.0                      | <b>71</b> Keta <b>®</b> |
| K 2.8        |             | L 🐞                     | C                       | 5                    |                        | 0.6-2.0                     | KENA                    |
| H 4.8 C 6.3  |             | M <del>∳</del><br>F -⊗- | Clear                   | 12Vdc LED            |                        | $\cap$                      | KEDA 🏵                  |
| 0.5          |             |                         |                         | •                    |                        | p. 340                      | KEDA                    |
| L E          | (C) 2820 00 | N -€.}-                 |                         | 6                    |                        | $\sim$                      |                         |
| K 2.8        |             | L #                     |                         | 24Vdc LED            |                        | Ø 12.0                      | REDA (KEDA              |
| <b>H</b> 4.8 |             | M <del>Š</del>          | LED                     | 7                    |                        | 0.75-2.0                    | KEDA                    |
| <b>C</b> 6.3 |             | F -⊗-                   | R                       | 12/14V Filament      |                        | p. 340                      | KEDA                    |
|              | (0) 0004 00 |                         | Red                     | 0                    |                        |                             |                         |
| L E          | (C) 2821 00 | N -⊕-<br>L <del>-</del> |                         | 8<br>04/00//Filement |                        | Ø 12.0or12.                 |                         |
| K 2.8        |             | L <del>*</del>          | Y                       | 24/ 28V Filament     |                        | Ø12.0<br>= 0.8-2.5<br>Ø12.7 | KEDA                    |
| C 6.3        |             | F -⊗-                   | Yellow                  | 9                    |                        | = 1.1-2.5<br>p. 340         | KENA 🐠                  |
| %            | 40          |                         | G                       | 125/250Vac LED       |                        | р. 0-10                     | KETA                    |
| L E          | (C) 0586 00 | N()                     | Green                   |                      |                        | 2 12.5                      | <b>71</b> K## <b>3</b>  |
| K 2.8        |             | L 🙀                     | В                       |                      |                        | , _                         | KEDA                    |
| <b>H</b> 4.8 | D-m-C       | M 🐳                     | Blue                    |                      |                        | 0.8-1.5                     | KENA 🐠                  |
| <b>C</b> 6.3 |             | F -⊗-                   |                         |                      |                        | p. 340                      | KEDA                    |
| Dimensions   |             |                         |                         |                      |                        |                             |                         |

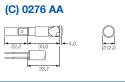
#### (L) 0569 AW



# (C) 0273 00



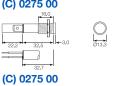






(C) 0276 00

(C) 0277 00





























(C) 0273 LL





## (C) 2821 00





### (C) 0586 00







#### **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:**



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



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 | Туре                      | Illumination  | Colour                                     | Voltage  | Options                     | Panel  | Approval      |
|----------|---------------------------|---|--|--|-----------------------------|--|---------------|
| L        | (C) 2870 00<br>C) 0589 00 | N - ⊕-<br>L + ⊕-<br>F - ⊗-<br>N - ⊕-<br>L + ⊕-<br>F - ⊗-    | Neon & Filament  R Red  A Amber  G Green   | 1<br>LED No Resistor<br>2<br>125V Neon<br>3<br>250V Neon | C<br>Chrome<br>Bezel Finish | 12.7  12.7  12.7  12.7  12.7  12.7  12.7  12.7  12.7  12.7  12.7  12.7  12.7 |               |
| L E      | L 0081 00                 | N -⊕-<br>L <del>∛</del><br>M <del>∜</del><br>F -⊗-          | B<br>Blue<br>(Special Order)<br>C<br>Clear | 4<br>6Vdc LED<br>5<br>12Vdc LED                          |                             | 12.7<br>9.5<br>p. 340  |               |
| L        | (C) 0177 00               | N -⊕-<br>L <del>∛</del><br>M <del>∛</del><br>F -⊗-          | LED R                                      | 6<br>24Vdc LED<br>7<br>12/14V Filament                   |                             | 12.7<br>12.0max<br>p. 340  | N RES S       |
| K 2.8    | (C) 0067 00               | N <del>⊕</del><br>L <del>∯</del><br>M <del>∯</del><br>F -⊗- | Y Yellow                                   | 8<br>24/ 28V Filament<br>9<br>125/250Vac LED             |                             | 12.7  1.14 max  p. 340   | KEEA KEEA     |
| C 6.3    | (C) 0180AA                | N -⊕-<br>L <del>∜</del><br>F -⊗-                            | Green  B  Blue                             |  |                             | 12.7  19.0 max  p. 340   | <b>71</b> (6) |



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

### **Dimensions**

#### (C) 2870 00





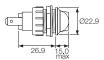








# (C) 1092



#### C) 0589 00







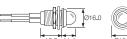


## (C) 0180AA





#### L 0081 00

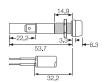








#### (C) 0177 00





## (C) 0180BB





#### (C) 0579 00







#### **Key Features**

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

### **Colours and voltages:**



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



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.

| Termir | nal   | Туре                       | Illumination | Colour  | Voltage  | Options                     | Panel              | Approval |
|--------|-------|----------------------------|--------------|---|--|-----------------------------|--------------------|----------|
| L      | nal E | Type  L 0234 00  L 0233 00 | N ⊕          | Neon & Filament  R Red  A Amber  G Green  B Blue (Special Order)  C Clear  LED  R Red  Y Yellow | 1 LED No Resistor 2 125V Neon 3 250V Neon 4 6Vdc LED 5 12Vdc LED 6 24Vdc LED 7 12/14V Filament 8 | C<br>Chrome<br>Bezel Finish | Panel    18.2/18.3 | 71 MM 65 |
|        |       |                            |              | G<br>Green<br>B<br>Blue   | 24/ 28V Filament<br>9<br>125/250Vac LED  |                             |                    |          |

#### **Dimensions**

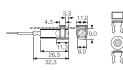
#### H 0581 AY



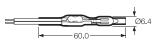




#### L 0234 00



### L 0233 00



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

# Low Voltage Lampholders



#### **Key Features**

#### **Colours and voltages:**

O Up to 50V

These lampholders are suitable for up to 50V max.

Red, Amber, Green, Blue and Clear

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

Linestra/Philinea lamp holder

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

### T0061 00 (LES)







(C) 0062 M0







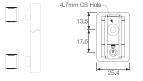


### (C) 0067 00





(S) 0095 00



## Large Low Voltage Lampholders









P1090FL - - -

#### **Key Features**

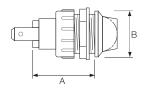
- O Up to 50V
- MES or MBC bulb
- Flat and domed lens
- Brass or nylon bodiesRed, Amber, Green, Blue and Clear lenses

#### **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                            | Туре   | Colour                                | Options                        | Panel  | Lens                           |
|-------------------------------------|--|---------------------------------------|--------------------------------|--|--------------------------------|
| C 9.1 6.3 x 0.8  T  O2.0 4.8 Solder | 1090 MES (E10)  1091 MBC (BA9s) (C and S Terminals only) | R Red Y Yellow G Green B Blue C Clear | C<br>Chrome<br>Bezel<br>Finish | Panel Hole   Body   Dim   Dim     Dia   Material   A   B     A   19.0   Brass   35.0   22.0     D   19.0   Brass   30.2   22.0     E   19.0   Nylon with   30.2   22.0     Chrome bezel   30.2   22.8     G   19.0   Brass   24.6   22.0     Chrome bezel   30.2   22.8     H   19.0   Nylon with   24.6   22.0     Chrome bezel   24.6   22.8     L   25.4   Brass   26.0   31.5      1091 (MBC lamps)     Panel Hole   Body   Dim   Dim     Dia   Material   A   B     B   19.0   Brass   36.0   22.0     C   19.0   Nylon   36.6   22.0     Q   19.0   Nylon (Chrome twin)   36.6   22.8     M   25.4   Brass   38.1   31.5 | F Flat  V MES (E10)  L No lens |
| Screw and Clamp                     |  |                                       |                                |  |                                |

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



#### **Key Features**

#### **Colours and voltages:**

○ LED lampholders

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

Supplied with or without LEDs Black or Chrome finish

Voltages: LEDs are available for direct connection to 2.0/2.2V or 12Vdc

For other voltages contact sales.

| Terminal  | Туре        | Body<br>Colour           | LED<br>Colour           | Voltage                               | Panel Cutout            | Approval          | Dimensions                                     |
|---|-------------|--------------------------|-------------------------|---------------------------------------|-------------------------|-------------------|--|
| W LED fitted  A LED not fitted  TT  L LED & Wires fitted  | (W) 1047 00 | B<br>Black<br>—<br>Blank | R Red Y Yellow          | 1<br>LED No Resistor<br>4<br>6Vdc LED | 6.3<br>6.3max<br>T105   |                   | 1.5 (+/-0.36) 07.6                             |
| W LED fitted  A LED not fitted  J J  L LED & Wires fitted | (L) 1048 00 |                          | G<br>Green<br>B<br>Blue | 5<br>12Vdc LED<br>6<br>24Vdc LED      | 8.0<br>5.5max<br>T105   |                   | 14.5   |
| W LED fitted  A LED not fitted  T J  L LED & Wires fitted | (W)1050 00  |                          |                         |                                       | 8.0<br>7.0max           | KEWA              | 12.4 2.9 010.0                                 |
| W LED fitted  TT  L LED & Wires fitted                    | (L) 1035 0A |                          |                         |                                       | 4.5<br>0.9-1.6<br>T105  | <b>EN</b>         | 4.30 ¥ 1.50                                    |
| W LED fitted  | (L) 1036 0A |                          |                         |                                       | 6.0<br>0.9-1.6<br>T105  | KEMA              | 5.85 V 1.0 0 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| W LED fitted  TT  L LED & Wires fitted                    | (L) 1037 0A |                          |                         |                                       | 6.35<br>0.9-1.6<br>T105 | KEMA<br><b>FL</b> | 6.15 ¥ 1.0                                     |

## LED Lamps and LED Lampholders - Sealed to IP67



#### **Key Features** Colours and voltages:

O IP67 front bezel sealing

Red, Yellow Green and Blue LEDs.

O LED lampholders (High Intensity is standard. Option of extra super

Supplied with or without

O Black or Chrome finish

LEDs

Voltages: LEDs are available for direct connection to

2.0/2.2V or 12Vdc.

For other voltages contact sales.

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

#### Properties

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

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.

## Indicator Lights - Sealed to IP67



#### **Key Features**

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

## **Colours and voltages:**



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

#### DC LED



Red, Yellow, Green, Blue, White 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              | Туре        | Sealed      | Illumination  | Colour                  | Voltage                                       | Option                         | Panel Cutout     | Approval |
|-----------------------|-------------|-------------|---|-------------------------|---|--------------------------------|------------------|----------|
| L E                   | (L) 1041 OS | S<br>Sealed | N -⊕-<br>L <del>†</del><br>M <del>†</del><br>F -⊗-        | R<br>Red<br>A<br>Amber  | 1<br>LED No Resistor<br>2<br>125V Neon        | C<br>Chrome<br>Bezel<br>Finish | 6.3<br>5.3max    | Keur     |
| LE                    | (L) 0245 OS |             | N -⊕-<br>L **<br>M *+<br>F -⊗-                            | G<br>Green<br>B<br>Blue | <b>3</b><br>250V Neon                         |                                | 7.1              | Kena     |
| L C 6.3 K 2.8 D H 4.8 | (C) 0275 OS |             | N -⊕-<br>L <del>*</del><br>M <del>*</del><br>F -⊗-        | (Special)  C Clear      | 4 6Vdc LED  5 12Vdc LED                       |                                | 10.0<br>11.15max | Kema     |
| L C 6.3 K 2.8 D H 4.8 | (C) 0277 OS |             | N -⊕-<br>L <del>∛</del><br>M <del>∛</del><br>F -⊗-        | R<br>Red                | 6<br>24Vdc LED                                |                                | 10.0<br>11.15max | KEMA     |
| L 6.3 C 4.8 P K 2.8 P | (C) 0177 OS |             | N -⊕-<br>L <del>-                                  </del> | Y Yellow G Green        | 7<br>12/14V Filament<br>8<br>24/ 28V Filament |                                | 12.7<br>11.15max | KEUR     |
|                       |             |             |   | B<br>Blue<br>W<br>White | <b>9</b><br>125/250Vac LED                    |                                |                  |          |
| (L) 1041 OS           |             |             | (C)   | 0275 OS                 |   | (C) 0177                       | OS               |          |

#### (L) 1041 OS







#### (L) 0245 OS





#### (C) 0275 OS





#### (C) 0277 OS









## Technical Information - Indicators



The majority of Arcolectric 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. Thefalse 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**

| IVI (I LI II) (LO  |
|--|
| Moulded bodies and bases Nylon 6.6   |
| Metal bodies and bezels  |
| Lenses   |
| Terminals (most types) Brass (electro-tin plated)                          |
| Terminals (exceptions)   |
| Threaded metal nuts Brass (nickel plated on 0275/7)                        |
| Other fixings  |
| * R9, 0061, 0062, 0430, 0480, 1090, 1091, 6030, 7030, 8630, 8580           |
| ** # 3130, 3160, 3161, 3221 have nickel plated terminals with steel screws |

#### 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

and plated polyamide bezel trims

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

#### **SYMBOLS**













## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Panel Mount Indicators category:

Click to view products by Arcolectric manufacturer:

Other Similar products are found below:

607-1312-310F 607-3232-140F 6091M1-24V 6091M5-24V 6091M7-24V 821-0331-503 FL2870C8R FL2950WL7B FL589WL8R

Q6P3BXXB12E H8630FBBA3 MPC5ADW6.0 DX1091GN NL177WL3G NL276C3G NL2950BWL3G NL2950CWL2R NL589WL2R

NL67C3G NL67C3R 2191L1-12V PB22SIOL0RG PB22SPPM41R PB22SPPM61R LE177C5B LH1048BSWL3702 LH1048BWL3702

LH382A LHM62B SSI-LXH387USBD-150 SSI-LXH9ZIC40587 SSP-LXS110818BA FL2950BWL7R FL2950WL7R FL2951WL8G

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