

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 many different needs of panel design including **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
LED Bezel

207-208
209-213

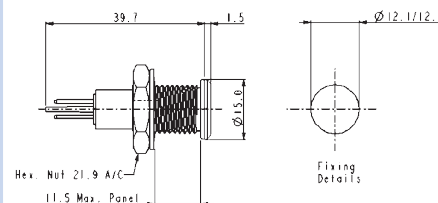


Proud of Panel Profile



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

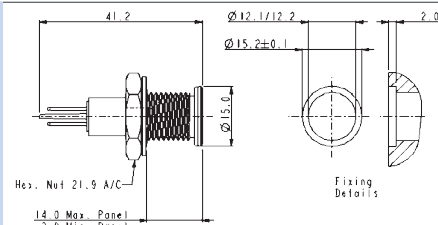


Flush Panel Profile



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



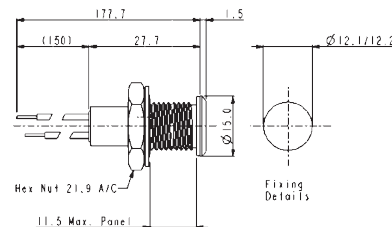
| Specifications | DX0505/Col/Voltage | DX0506/Col/Voltage |
|------------------------------|--|--|
| Terminations: | Solder Tab/2.8mm Tab | Solder Tab/2.8mm Tab |
| Forward Voltage: | Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V | Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V |
| Cont. Forward Current: (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

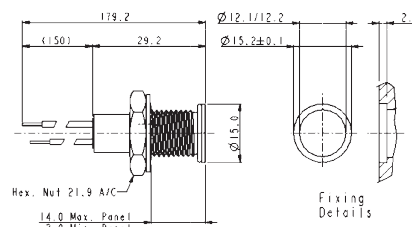


Flush Panel Profile



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 |

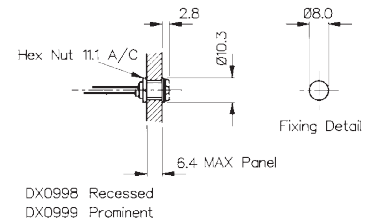
Chrome Plated Brass Bezel



DX0998

DX0999

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



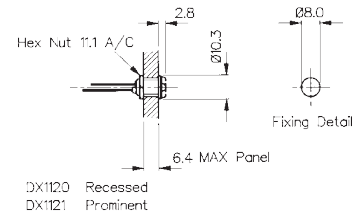
Nylon Bezel



DX1120

DX1121

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



| Specifications | DX0998, DX0999/Colour/Options | DX1120, DX1121/Colour/Options |
|------------------------|---|---|
| Bezel Material: | Brass, Chrome Plated | Glass Filled Nylon |
| Style: | Recessed (DX0998) Prominent (DX0999) | Recessed (DX1120) 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), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber) | /RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /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*

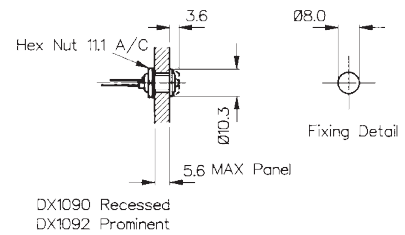
Aluminium Bezel - IP66 Sealed



DX1090

DX1092

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



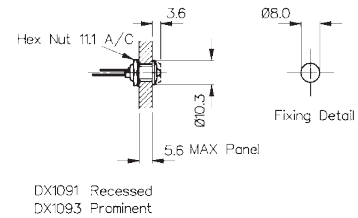
Aluminium Bezel - IP66 Sealed



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) Prominent (DX1092) | Recessed (DX1091) 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), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber) | /RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /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 |

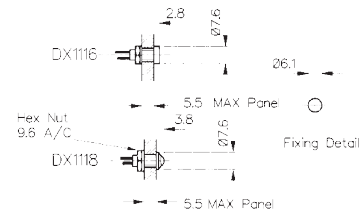
See Page 212 for LED options and specifications

Chrome Plated Brass Bezel



DX1116 DX1118

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

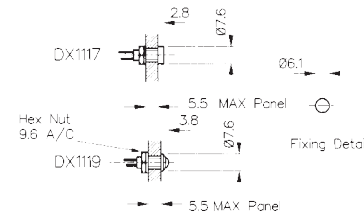


Black Nickel Pated Brass Bezel



DX1117 DX1119

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

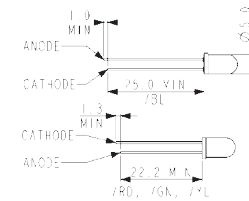


| Specifications | DX1116, DX1118/Colour | DX1117, DX1119/Colour |
|------------------------|--|--|
| Bezel Materials: | Brass, Chrome Plated | Aluminium, Black Anodised |
| Style: | Recessed (DX1116) Prominent (DX1118) | Recessed (DX1117) Prominent (DX1119) |
| Operating Temp. Range: | Dependent on 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), /BL (Blue) |
| RoHS | Compliant | Compliant |

See Page 213 for LED specifications*

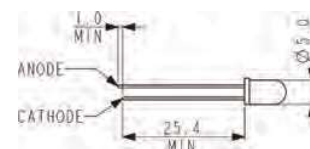
5mm LEDs STANDARD

| 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 |



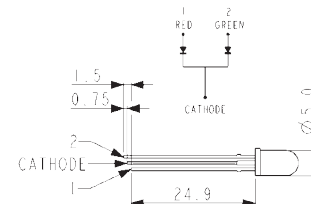
5mm LEDs FLASHING

| 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 |



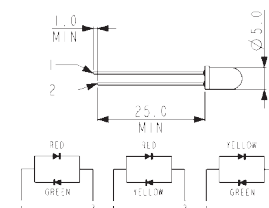
5mm LEDs TRI COLOUR

| 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 |



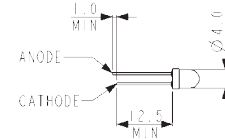
5mm LEDs DUAL COLOUR

| 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 |
|-------------------|---|--|---|--|
| 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) | | LED Options Blank = Standard 02 = Flashing - 5mm (Red or Green only) |

Example:

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