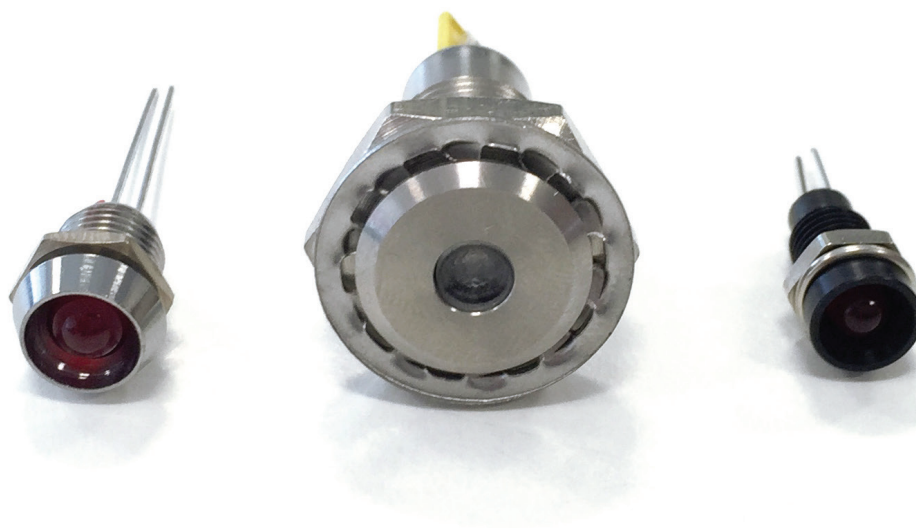


This range of panel mounting LED indicators consists of many different [bezel styles](#), types of LED's and colours. The range has developed to meet the different needs of panel design including [IP66 and IP67 environmentally sealed versions](#) for use where a front panel seal is needed.

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.



SYMBOLS

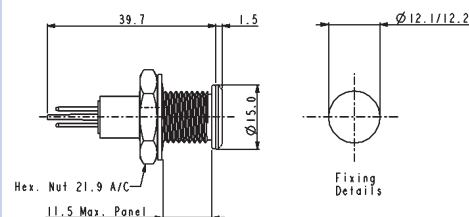
 Terminals K 2.8, H 4.8 & C 6.3	 L Wire Leads 200mm long Standard	 Solid wires W LED fitted A LED not fitted	 $\varnothing$  Panel hole size	 Panel thickness	 Temperature rating
--	---	---	---	---	--

Proud of Panel Profile

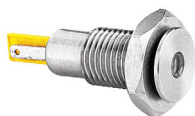


DX0505

- ⬢ 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

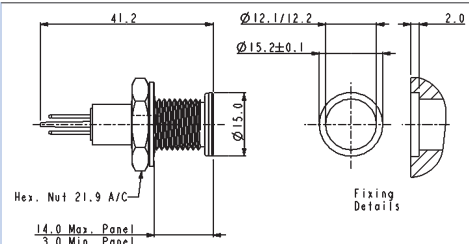


Flush Panel Profile



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 DC), /24 (24V DC) or /00 (no ballast resistor)	/12 (12V DC), /24 (24V DC) or /00 (no ballast resistor)
RoHS	Compliant	Compliant

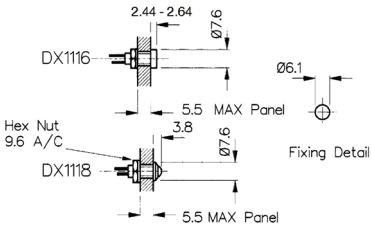
Chrome Plated Brass Bezel



DX1116

DX1118

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



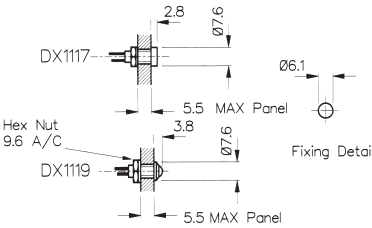
Black Nickel Pated Brass Bezel



DX1117

DX1119

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

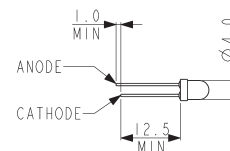


Specifications	DX1116, DX1118/Colour	DX1117, DX1119/Colour
Bezel Materials:	Brass, Chrome Plated	Aluminium, Black Anodised
Style:	Recessed (DX1116) Prominent (DX1118)	Recessed (DX1117) Prominent (DX1119)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent 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 6 for LED specifications*

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:

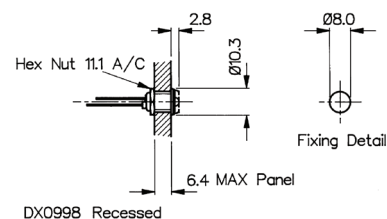
DX1092/RD/02 = Black Aluminum IP66 Prominent Bezel, with Red flashing LED

Chrome Plated Brass Bezel



DX0998

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



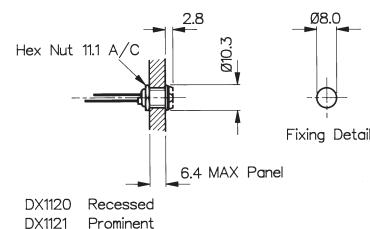
Nylon Bezel



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) 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 9 for LED options and specifications*

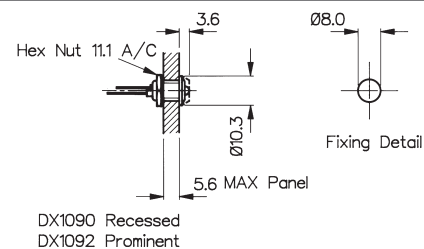
Aluminium Bezel - IP66 Sealed



DX1090

DX1092

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



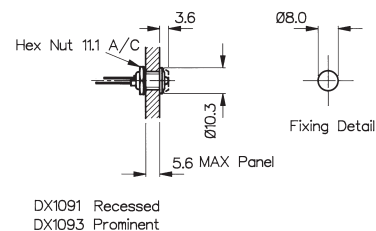
Aluminium Bezel - IP66 Sealed



DX1091

DX1093

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

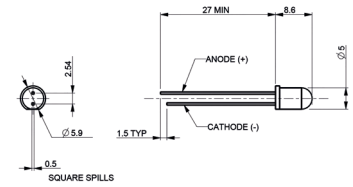


Specifications	DX1090, DX1092/Colour/Options	DX1091, DX1093/Colour/Options
Materials:	Aluminium - Black	Aluminium - Clear
Style:	Recessed (DX1090) Prominent (DX1092)	Recessed (DX1091) Prominent (DX1093)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent 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:	0.056 - 0.064Nm (8 - 9ozf.in.)	0.056 - 0.064Nm (8 - 9ozf.in.)
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)
Thread Size:	0.312" x 32TPI	0.312" x 32TPI
RoHS	Compliant	Compliant

See Page 9 for LED options and specifications

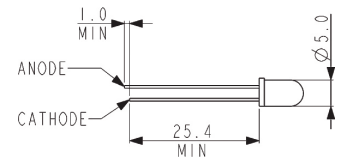
5mm LEDs STANDARD

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



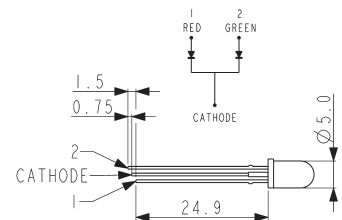
5mm LEDs FLASHING

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



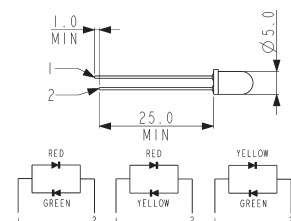
5mm LEDs TRI COLOUR

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

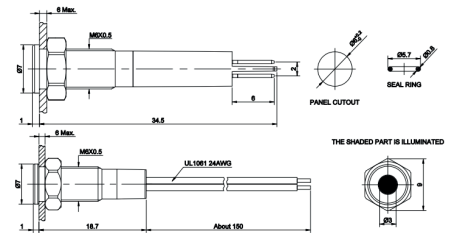


6mm Panel Cutout Diameter



DX06XXXXXX

- ⬡ Available with 200mm Flying Leads or Solder Lugs
- ⬡ Colour Options: Red, Green, Yellow, Blue, White
- ⬡ Material Options: Nickel Plated brass, Black Plated brass, or Stainless Steel
- ⬡ IP67
- ⬡ IK06



6mm Vandal Resistant Indicator					
Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	06 - 6mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	N - Nickel Plated Brass
		L - Solder Lug	G - Green	006 - 6V	B - Black Plated Brass
			Y - Yellow	012 - 12V	S - Stainless Steel
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX06WR006N

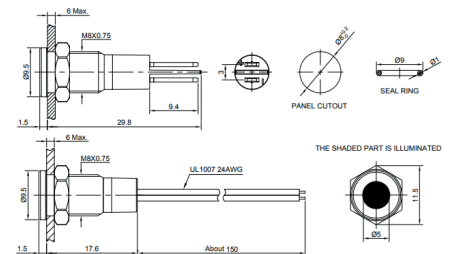
Example Part Number Description	Size: 6mm. Termination: Wire leads. LED colour: Red. LED voltage: 6V, finish: Nickel Plated Brass
---------------------------------	---

8mm Panel Cutout Diameter



DX08XXXXXX

- Available with 200mm Flying Leads or Solder Lugs
- Colour Options: Red, Green, Yellow, Blue, White
- Material Options: Nickel Plated brass, Black Plated brass, or Stainless Steel
- IP67
- IK06



8mm Vandal Resistant Indicator					
Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	08 - 8mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	N - Nickel Plated Brass
		L - Solder Lug	G - Green	006 - 6V	B - Black Plated Brass
			Y - Yellow	012 - 12V	S - Stainless Steel
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX08WR006N

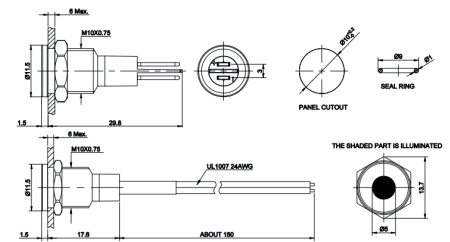
Example Part Number Description	Size: 8mm. Termination: Wire Leads. LED colour: Red, LED voltage: 6V. Finish: Nickel Plated Brass
---------------------------------	---

10mm Panel Cutout Diameter



DX10XXXXXX

- ⬡ Available with 200mm Flying Leads or Solder Lugs
- ⬡ Colour Options: Red, Green, Yellow, Blue, White
- ⬡ Material Options: Nickel Plated brass, Black Plated brass, or Stainless Steel
- ⬡ IP67
- ⬡ IK06



10mm Vandal Resistant Indicator

Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	10 - 10mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	N - Nickel Plated Brass
		L - Solder Lug	G - Green	006 - 6V	B - Black Plated Brass
			Y - Yellow	012 - 12V	S - Stainless Steel
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX10WB012B

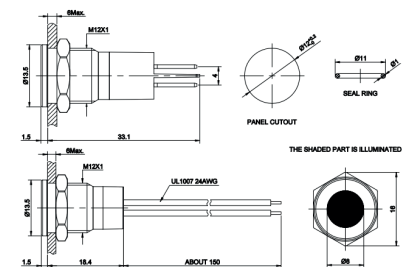
Example Part Number Description Size: 10mm. Termination: Wire leads. LED colour: Blue. LED voltage: 12V. Finish: Black Plated Brass

12mm Panel Cutout Diameter



DX12XXXXXX

- ⬡ Available with 200mm Flying Leads or Solder Lugs
- ⬡ Colour Options: Red, Green, Yellow, Blue, White
- ⬡ Material Options: Nickel Plated brass, Black Plated brass, or Stainless Steel
- ⬡ IP67
- ⬡ IK06



12mm Vandal Resistant Indicator

Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	12 - 12mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	N - Nickel Plated Brass
		L - Solder Lug	G - Green	006 - 6V	B - Black Plated Brass
			Y - Yellow	012 - 12V	S - Stainless Steel
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX12SG024S

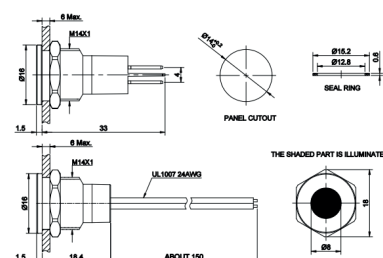
Example Part Number Description Size: 12mm. Termination: Solder Lug. LED colour: Green, LED voltage: 24V. Finish: Stainless Steel

14mm Panel Cutout Diameter



DX14XXXXXX

- ⬡ Available with 200mm Flying Leads or Solder Lugs
- ⬡ Colour Options: Red, Green, Yellow, Blue, White
- ⬡ Material Options: Nickel Plated brass, Black Plated brass, or Stainless Steel
- ⬡ IP67
- ⬡ IK06



14mm Vandal Resistant Indicator

Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	14 - 14mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	N - Nickel Plated Brass
		L - Solder Lug	G - Green	006 - 6V	B - Black Plated Brass
			Y - Yellow	012 - 12V	S - Stainless Steel
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX14WB024S

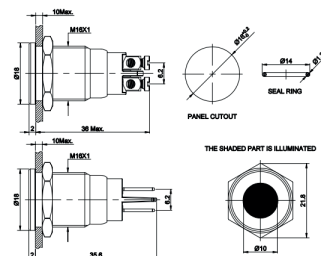
Example Part Number Description Size: 14mm. Termination: Wire leads. LED colour: Blue. LED voltage: 24V, Finish: Stainless Steel

16mm Panel Cutout Diameter



DX16XXXXXX

- ⬡ Available with 200mm Flying Leads, Solder Lugs, or Screw Terminals
- ⬡ Colour Options: Red, Green, Yellow, Blue, White
- ⬡ Material Options: Nickel Plated brass, Black Plated brass, or Stainless Steel
- ⬡ IP67
- ⬡ IK06



16mm Vandal Resistant Indicator

Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	16 - 16mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	N - Nickel Plated Brass
		L - Solder Lug	G - Green	006 - 6V	B - Black Plated Brass
		S - Screw Terminals	Y - Yellow	012 - 12V	S - Stainless Steel
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX16SR024B

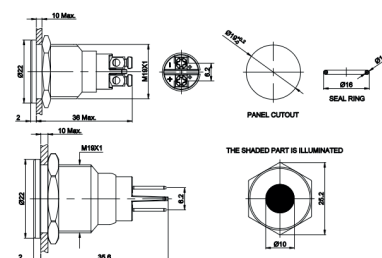
Example Part Number Description Size: 16mm. Termination: Solder Lug. LED colour: Red, LED voltage: 24V. Finish: Black Plated Brass

19mm Panel Cutout Diameter



DX19XXXXXX

- ⬡ Available with 200mm Flying Leads, Solder Lugs, or Screw Terminals
- ⬡ Colour Options: Red, Green, Yellow, Blue, White
- ⬡ Material Options: Black Plated brass, or Stainless Steel
- ⬡ IP67
- ⬡ IK06



19mm Vandal Resistant Indicator

Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	19 - 19mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	B - Black Plated Brass
		L - Solder Lug	G - Green	006 - 6V	S - Stainless Steel
		S - Screw Terminals	Y - Yellow	012 - 12V	
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX19LG006B

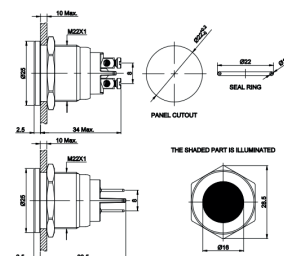
Example Part Number Description	Size: 19mm. Termination: Solder Lug. LED colour: Green. LED voltage: 6V, Finish: Black Plated Brass
---------------------------------	---

22mm Panel Cutout Diameter



DX22XXXXXX

- Available with 200mm Flying Leads, Solder Lugs, or Screw Terminals
- Colour Options: Red, Green, Yellow, Blue, White
- Material Options: Black Plated brass, or Stainless Steel
- IP67
- IK06



22mm Vandal Resistant Indicator

Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	22 - 22mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	B - Black Plated Brass
		L - Solder Lug	G - Green	006 - 6V	S - Stainless Steel
		S - Screw Terminals	Y - Yellow	012 - 12V	
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX22LB024B

Example Part Number Description	Size: 22mm. Termination: Solder Lug. LED colour: Blue, LED voltage: 24V. Finish: Black Plated Brass
---------------------------------	---

Indicators

25mm Vandal Resistant Indicators

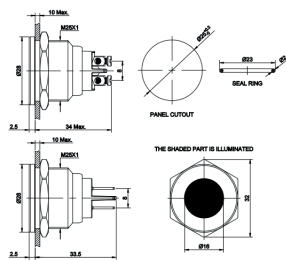


25mm Panel Cutout Diameter



DX25XXXXXX

- Available with 200mm Flying Leads, Solder Lugs, or Screw Terminals
- Colour Options: Red, Green, Yellow, Blue, White
- Material Options: Black Plated brass, or Stainless Steel
- IP67
- IK06



25mm Vandal Resistant Indicator					
Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	25 - 25mm	W - Wire Leads 200mm	R - Red	000 - No Resistor	B - Black Plated Brass
		L - Solder Lug	G - Green	006 - 6V	S - Stainless Steel
		S - Screw Terminals	Y - Yellow	012 - 12V	
			B - Blue	024 - 24V	
			W - White	110 - 110V	
				220 - 220V	

EXAMPLE of SKU | Part Number Builder: DX25LY024S

Example Part Number Description	Size: 25mm. Termination: Solder Lug. LED colour: Yellow, LED voltage: 24V. Finish: Stainless Steel
---------------------------------	--