

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	345-346
LED Bezel	347-351
Indicator Lights	352-358
Low Voltage Lampholders	359-360
LED Lampholders	361
Indicator Lights IP67	362-364

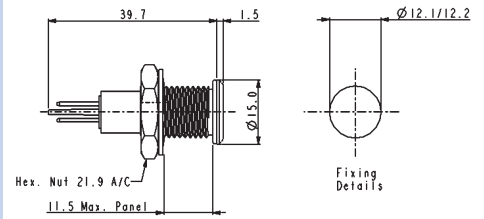


Proud of Panel Profile



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

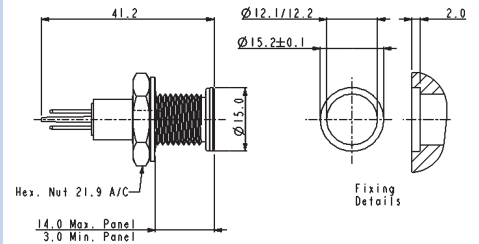


Flush Panel Profile



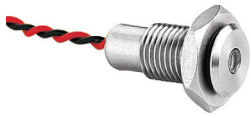
DX0506

- 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



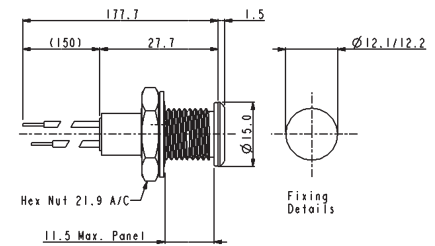
Specifications	DX0505/Col/Voltage	DX0506/Col/Voltage
Terminations:	Solder Tab/2.8mm Tab	Solder Tab/2.8mm Tab
Forward Voltage:	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V	Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V
Cont. Forward Current: (max)	Red 30mA, Green 25mA, Yellow 30mA, Blue 25mA	Red 30mA, 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

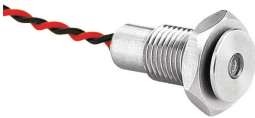


DX0507

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

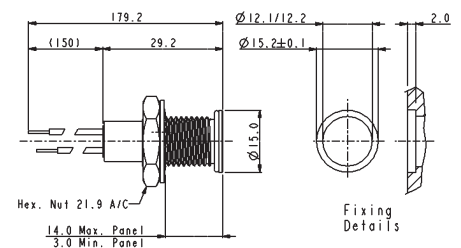


Flush Panel Profile



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

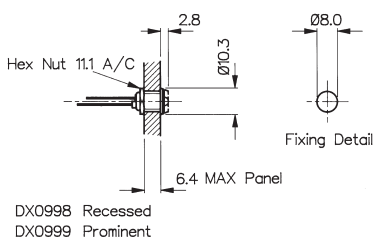
Chrome Plated Brass Bezel



DX0998

DX0999

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



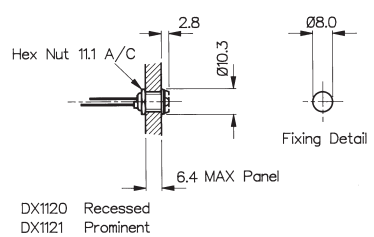
Nylon Bezel



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*

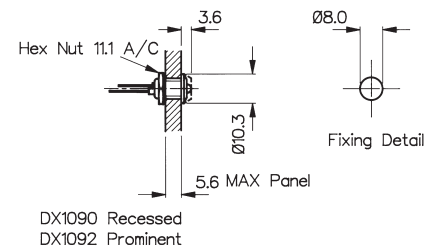
Aluminium Bezel - IP66 Sealed



DX1090

DX1092

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



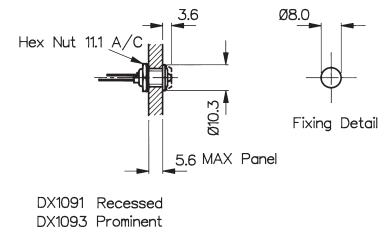
Aluminium Bezel - IP66 Sealed



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)
Thread Size:	0.312" x 32TPI	0.312" x 32TPI
RoHS	Compliant	Compliant

See Page 212 for LED options and specifications

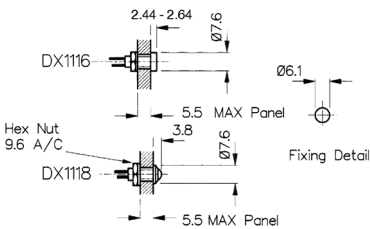
Chrome Plated Brass Bezel



DX1116

DX1118

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



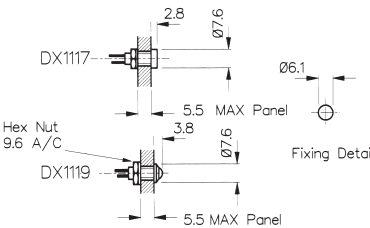
Black Nickel Pated Brass Bezel



DX1117

DX1119

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

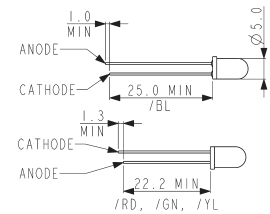


Specifications	DX1116, DX1118/Colour	DX1117, DX1119/Colour
Bezel Materials:	Brass, Chrome Plated	Aluminium, Black Anodised
Style:	Recessed (DX1116) Prominent (DX1118)	Recessed (DX1117) Prominent (DX1119)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent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

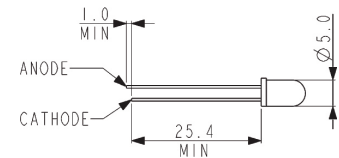
5mm LEDs STANDARD

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



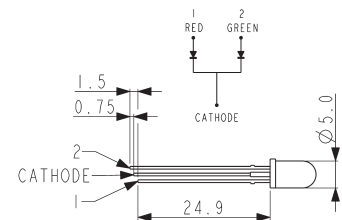
5mm LEDs FLASHING

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



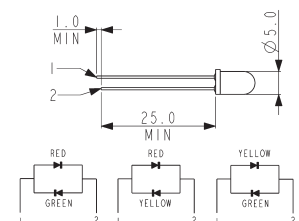
5mm LEDs TRI COLOUR

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

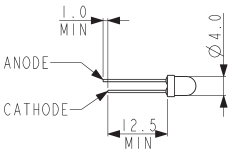
Specifications	Red/Green	Red/Amber	Green/Amber
Luminous Intensity:	4.5/5mcd	4.5/4mcd	4/5mcd
Forward voltage:	2.2V	2.2V	2.2V
Cont. Forward Current:	30mA/30mA	30mA/20mA	30mA/20mA
Power Dissipation:	100mW/100mW	100mW/60mW	100mW/60mW
Reverse Current:	100mA	100mA	100mA
Reverse Voltage:	5V (max)	5V (max)	5V (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

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

Indicator Lights

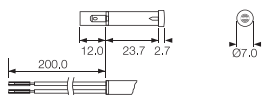
Neon, LED and Filament Lamp



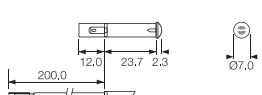
Terminal	Type	Sealed	Illumination	Colour	Voltage	Options
L W	(L) 0245 00 	7.1 6.3 max p. 340	N L M F	Neon & Filament R Red A Amber G Green B Blue (Special Order) C Clear	1 LED No Resistor 2 125V Neon 3 250V Neon 4 6Vdc LED 5 12Vdc LED 6 24Vdc LED 7 12/14V Filament 8 24/ 28V Filament 9 125/250Vac LED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

Dimensions

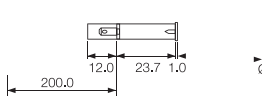
(B) 0566 A



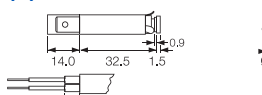
(B) 0566 B



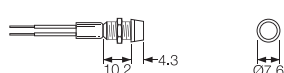
(B) 0566 C



(C) 0145 AA



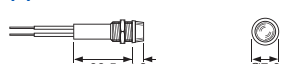
(L) 1041 00



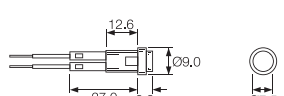
(L) 1045 00



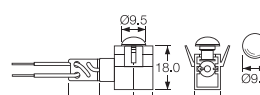
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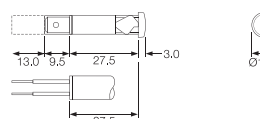
L 2950 00



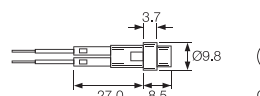
(L) 0195 BB



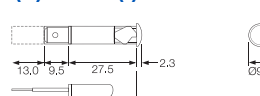
(H) 0568 A(*)



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

Indicator Lights

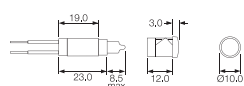
Neon, LED and Filament Lamp



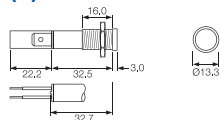
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L K 2.8 H 4.8 C 6.3	(C) 0276 00 	N L M F	Neon & Filament R Red A Amber G Green B Blue (Special Order) C Clear	1 LED No Resistor 2 125V Neon 3 250V Neon 4 6Vdc LED 5 12Vdc LED 6 24Vdc LED 7 12/14V Filament 8 24/ 28V Filament 9 125/250Vac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

Dimensions

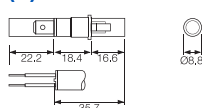
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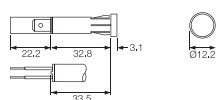
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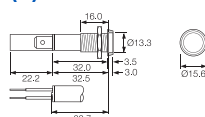
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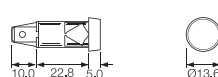
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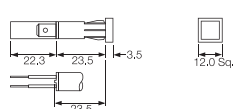
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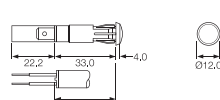
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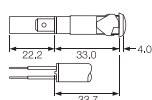
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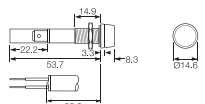
(C) 2821 00



(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

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

Indicator Lights

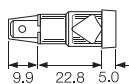
Neon, LED and Filament Lamp



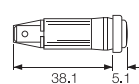
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L C 6.3	(C) 0180BB 	N L F	Neon & Filament R Red A Amber G Green B Blue (Special Order) C Clear LED R Red Y Yellow G Green B Blue	1 LED No Resistor 2 125V Neon 3 250V Neon 4 6Vdc LED 5 12Vdc LED 6 24Vdc LED 7 12/14V Filament 8 24/ 28V Filament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

Dimensions

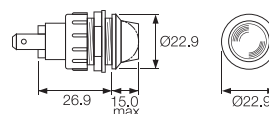
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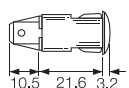
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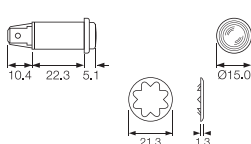
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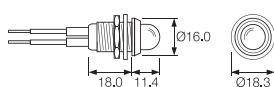
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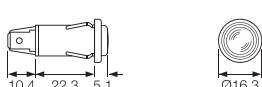
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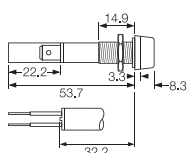
L 0081 00



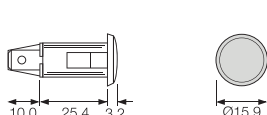
(C) 0180BB



(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

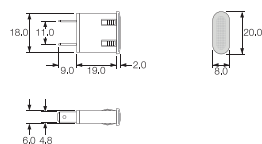
Colours and voltages:

NEON	DC LED	AC MAINS LED	FILAMENT
Available with Red, Amber, Green or Clear lenses 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.

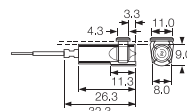
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L	L 0234 00	N	Neon & Filament	1 LED No Resistor	C Chrome Bezel Finish	18.2/18.3 x 6.2/6.3 2.0-3.5 P. 340	UL KEMA
L	L 0233 00	N	Amber	2 125V Neon		9.27/9.50 x 4.75 0.71-1.62 p. 340	UL KEMA
			Green	3 250V Neon		p. 340	
			Blue (Special Order)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

Dimensions

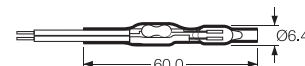
H 0581 AY



L 0234 00



L 0233 00



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

Key Features

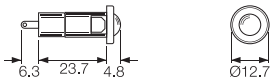
- Up to 50V
- Red, Amber, Green, Blue and Clear
- Linestra/Philinea lamp holder

Colours and voltages:

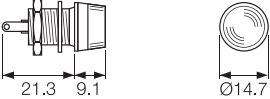
These lampholders are suitable for up to 50V max.
Colours - Red, Amber, Green, (Clear & Blue, check availability).

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

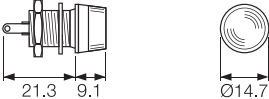
T0061 00 (LES)



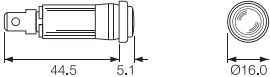
(C) 0062 M0



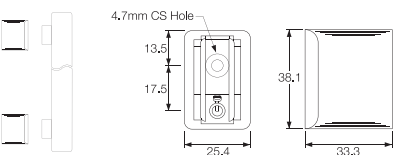
(T) 0062 A0



(C) 0067 00



(S) 0095 00





C1090FE ---



P1090FL ---

Key Features

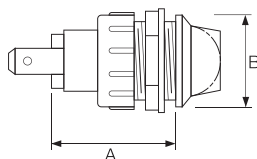
- Up to 50V
- MES or MBC bulb
- Flat and domed lens
- Brass or nylon bodies
- Red, Amber, Green, Blue and Clear lenses

Approvals and specifications

These lampholders are suitable for up to 50V max.

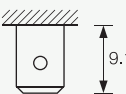
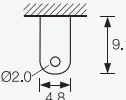
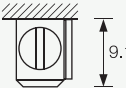
Colours - Red, Amber, Green, (Clear & Blue, check availability).
Brass bodies have polished chrome finish.

Dimensions and Options



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



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

LED Lamps and LED Lampholders

LED Lampholders can be supplied with or without LEDs



Key Features

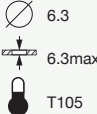
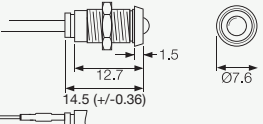
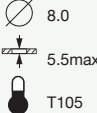
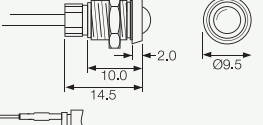
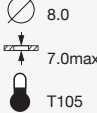
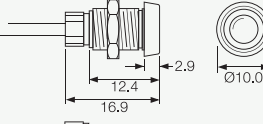
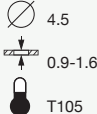
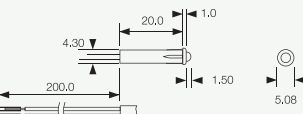
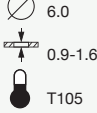
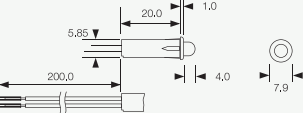
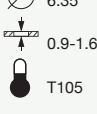
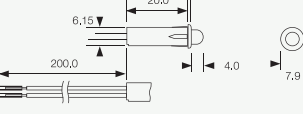
- LED lampholders
- Supplied with or without LEDs
- Black or Chrome finish

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
W LED fitted A LED not fitted L LED & Wires fitted	(W) 1048 00 	B Black — Blank	R Red Y Red G Green B Blue	1 LED No Resistor 4 6Vdc LED 5 12Vdc LED 6 24Vdc LED			
W LED fitted A LED not fitted L LED & Wires fitted	(L) 1048 0A 						
W LED fitted A LED not fitted L LED & Wires fitted	(W) 1050 0A 						
W LED fitted L LED & Wires fitted	(L) 1035 0A 						
W LED fitted L LED & Wires fitted	(L) 1036 0A 						
W LED fitted L LED & Wires fitted	(L) 1037 0A 						

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:

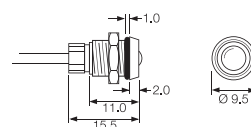
Colours:
Red, Yellow Green and Blue LEDs.
(High Intensity is standard. Option of extra super bright).

Voltages:
LEDs are available for direct connection to 2.0/2.2V or 12Vdc.
For other voltages contact sales.

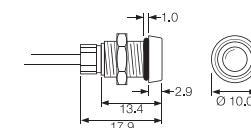
Terminal	Type	LED Colour	Voltage	Panel	Approval
L LED & Wires fitted 	(L) 1048 00 	B Blue	6 24Vdc LED	 8.0  5.5max  T105	
W LED fitted 	(W) 1050 00 			 8.0  7.0max  T105	
A LED not fitted 					
L LED & Wires fitted 	(W) 1050 00 			 8.0  7.0max  T105	

Dimensions

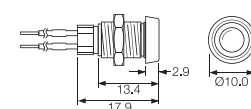
(L) 1048 00



(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

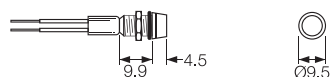
- IP67 Panel Sealing
- Supplied complete with gaskets/'O' rings
- Neon, LED, mains LED or filament lamp
- Bezel sizes from 7.6 to 22.9mm diameter
- Red, amber, green, blue and clear lenses
- Red, yellow, green, blue and white LEDs
- Wide choice of styles

Colours and voltages:

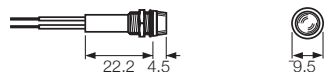
NEON	DC LED	AC MAINS LED	FILAMENT
			
Available with Red, Amber, Green or Clear lenses 100/130V (marked 110V), 200/250V (marked 230V)	Red, Yellow, Green, Blue, White 2.0/2.2V Resistors for other voltages available.	Red, Yellow, Green, Blue, White 110-230V ac operation.	Available with Red, Amber, Green,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

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

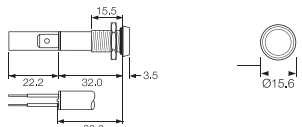
(L) 1041 OS



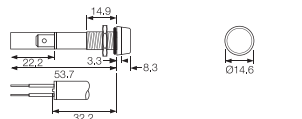
(L) 0245 OS



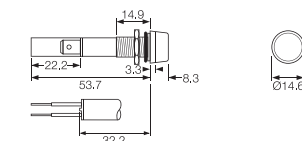
(C) 0275 OS



(C) 0277 OS



(C) 0177 OS



Key Features

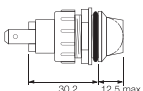
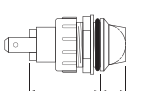
- IP67 Panel Sealing
- Supplied complete with gaskets/'O' rings
- Bezel sizes from 7.6 to 22.9mm diameter
- Red, amber, green, blue and clear lenses

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 Sealed	R Red A Amber	Chrome Bezel Finish	 19.0  4.0max  T85		
C 6.3 	C1091 FQS (MBC) 		G Green B Blue (Special)		 7.1  4.6max		
T 	T0062 AOS (Midget flange) Chrome bezel T0063 AOS (LES) Chrome bezel 		C Clear		 10.0  11.15max		 
T 	T0062 MOS (LES & Midget flange) T0063 MOS (LES) 				 10.0  11.15max		 

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



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