

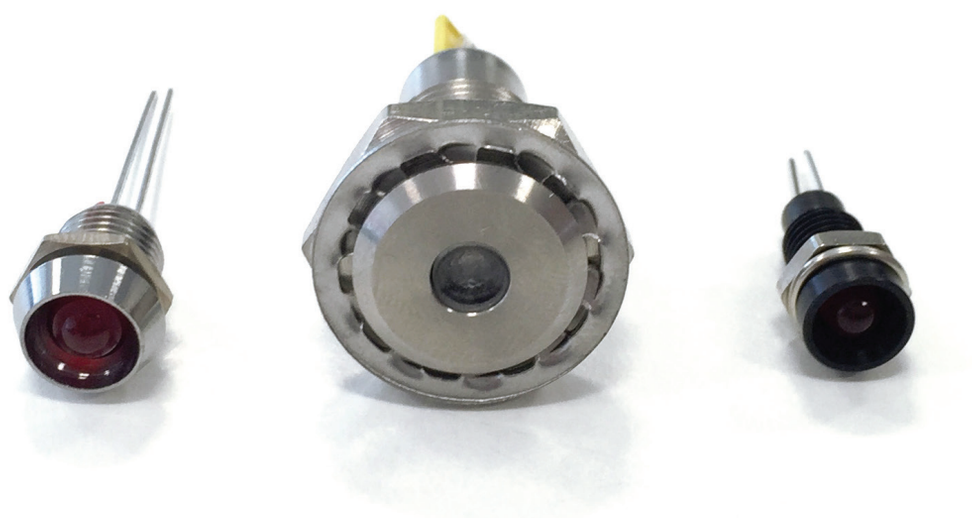
Indicators

Product Catalogue

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

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

Vandal Resistant LED Indicators	3
5mm LED Indicators	466
Indicator Lights	11
Low Voltage Lampholders	18
LED Lamps and LED Lampholders	20
Indicator Lights - Sealed to IP67	21



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

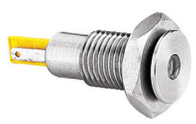
Panel hole size

Panel thickness

Temperature rating

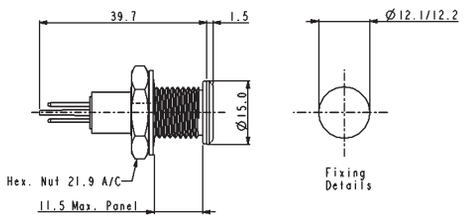
Vandal Resistant LED Indicators

Proud of Panel Profile

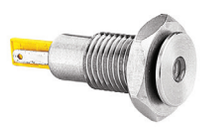


DX0505

- 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

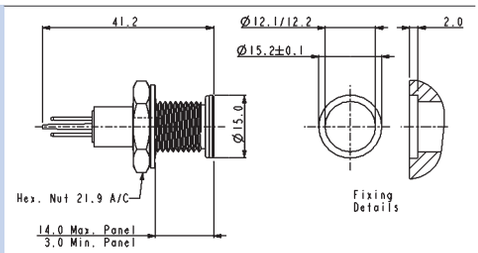


Flush Panel Profile



DX0506

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

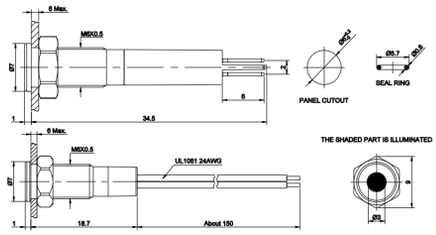
6mm Vandal Resistant Indicators

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



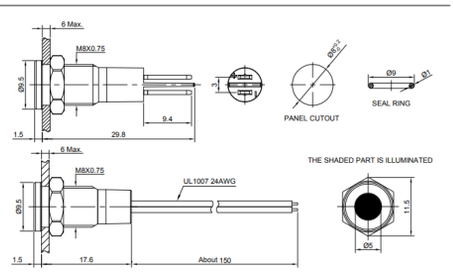
6mm Vandal Resistant Indicator					
Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	06 - 6mm	W - Wire Leads 200mm	R - Red	006 - 6V	N - Nickel Plated Brass
		L - Solder Lug	G - Green	012 - 12V	B - Black Plated Brass
			Y - Yellow	024 - 24V	S - Stainless Steel
			B - Blue	110 - 110V	
			W - White	220 - 220V	

8mm Panel Cutout Diameter



DX08XXXXXX

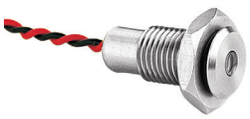
- Available with 200mm Flying Leads or Solder Lugs
- Colour Options: Red, Green, Yellow, Blue, White
- Material Options: Nickel Plated brass, Black Plated brass, or Stainless Steel
- IP67
- IK06



8mm Vandal Resistant Indicator					
Series	Diameter	Termination	LED Colour	LED Voltage	Material
DX	08 - 8mm	W - Wire Leads 200mm	R - Red	006 - 6V	N - Nickel Plated Brass
		L - Solder Lug	G - Green	012 - 12V	B - Black Plated Brass
			Y - Yellow	024 - 24V	S - Stainless Steel
			B - Blue	110 - 110V	
			W - White	220 - 220V	

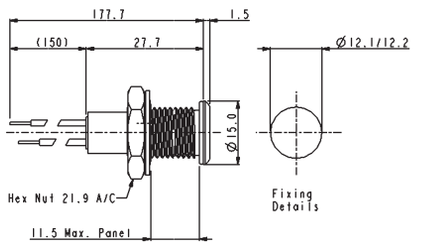
Vandal Resistant LED Indicators

Proud of Panel Profile

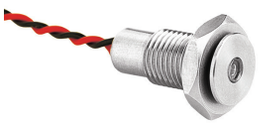


DX0507

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

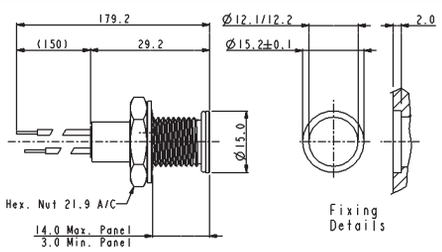


Flush Panel Profile



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

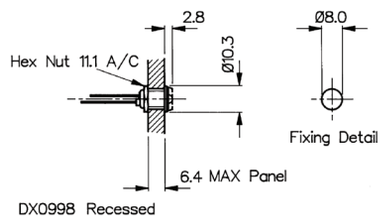
5mm LED Indicators

Chrome Plated Brass Bezel



DX0998

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

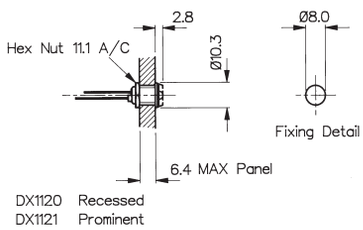


Nylon Bezel



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*

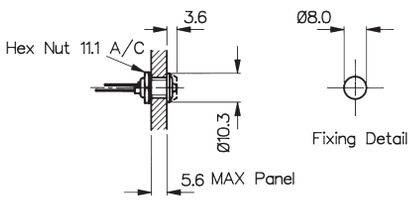
5mm LED Indicators

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

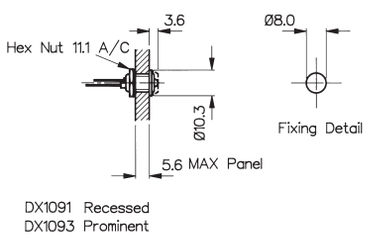


Aluminium Bezel - IP66 Sealed



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

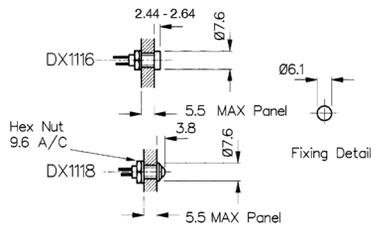
4mm LED Indicators

Chrome Plated Brass Bezel



DX1116 DX1118

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

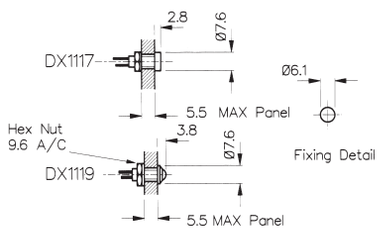


Black Nickel Pated Brass Bezel



DX1117 DX1119

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



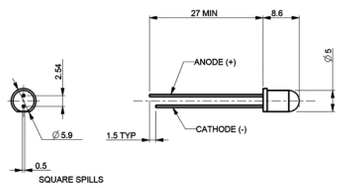
Specifications	DX1116, DX1118/Colour	DX1117, DX1119/Colour
Bezel Materials:	Brass, Chrome Plated	Aluminium, Black Anodised
Style:	Recessed (DX1116) Prominent (DX1118)	Recessed (DX1117) Prominent (DX1119)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent 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 10 for LED specifications*

5mm LED options

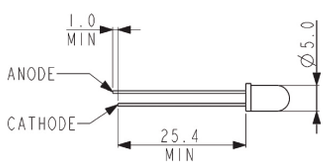
5mm LEDs STANDARD

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



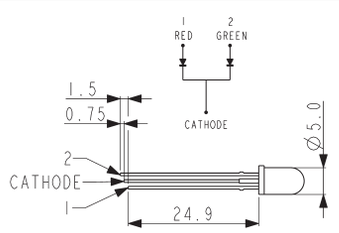
5mm LEDs FLASHING

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



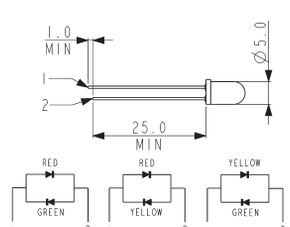
5mm LEDs TRI COLOUR

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

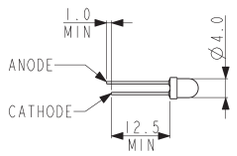
Specifications	Red/Green	Red/Amber	Green/Amber
Luminous Intensity:	4.5/5mcd	4.5/4mcd	4/5mcd
Forward voltage:	2.2V	2.2V	2.2V
Cont. Forward Current:	30mA/30mA	30mA/20mA	30mA/20mA
Power Dissipation:	100mW/100mW	100mW/60mW	100mW/60mW
Reverse Current:	100mA	100mA	100mA
Reverse Voltage:	5V (max)	5V (max)	5V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



4mm 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
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

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



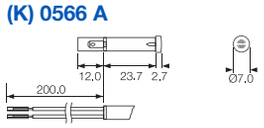
Available with Red, Amber, Green, Clear or Blue lenses
6V, 12/14V, 24/28V.

Terminal	Type	Sealed	Illumination	Colour	Voltage	Options
K 2.8 **L**	**(K) 0566 A** 	∅ 6.0 2.0 max p. 340	**N** **L** **M**	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
K 2.8 **L**	**(K) 0566 B** 	∅ 6.0 2.0 max p. 340	**N** **L** **M**			
K 2.8 **L**	**(K) 0566 C** 	∅ 6.0 2.0max	**N** **L** **M**			
C 6.3	**(C) 0145 AA** 	∅ 5.8 3.0max p. 340	**N** **L** **M** **F**			
L **W**	**(L) 1041 00** 	∅ 6.3 6.3max p. 340	**N** **L** **F**			
L **W**	**(L) 1045 00** 	∅ 6.3 10.0max p. 340	**N** **L** **M** **F**			

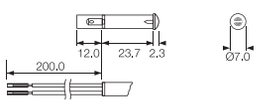
Terminal	Type	Sealed	Illumination	Colour	Voltage	Options
L **W**	**(L) 0245 00** 	∅ 7.1 6.3 max p. 340	**N** **L** **M** **F**	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear LED **R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **2** 125V Neon **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
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**			
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

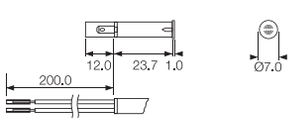
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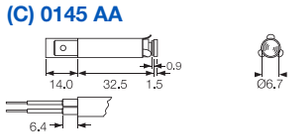
(K) 0566 B



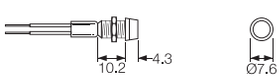
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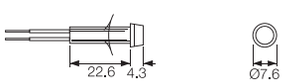
(C) 0145 AA



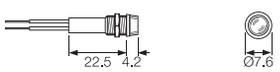
(L) 1041 00



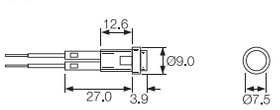
(L) 1045 00



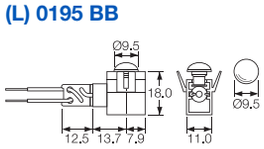
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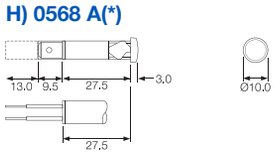
L 2950 00



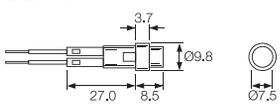
(L) 0195 BB



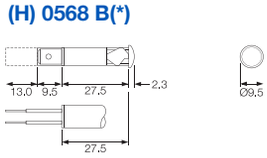
H) 0568 A(*)



L 2951 00



(H) 0568 B(*)



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

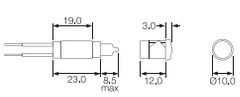


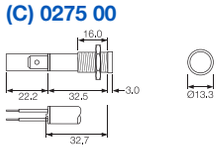
Available with Red, Amber, Green, Clear or Blue lenses
6V, 12/14V, 24/28V.

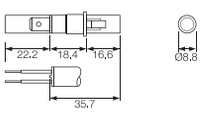
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L K 2.8 H 4.8 C 6.3	(C) 0273 00 	N L M F	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED **7** 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				∅ 9.0 2.0 max p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0276 AA 	N L M F				∅ 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	LED **R** Red **Y** Yellow **G** Green **B** Blue			∅ 10.0 12.0 p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0275 00 	N L M F				∅ 10.0 11.5 max p. 340	

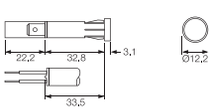
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L K 2.8 H 4.8 C 6.3	(C) 0276 00 	N L M F	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED **7** 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				∅ 10.0 12 max p. 340	
L K 2.8 H 4.8 C 6.3	(C) 0273 LL 	N L M F				∅ 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				∅ 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				∅ 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				∅ 12.5 0.8-1.5 p. 340	

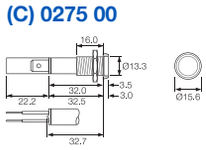
Dimensions

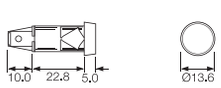
(L) 0569 AW


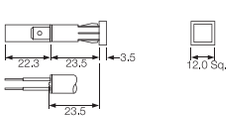
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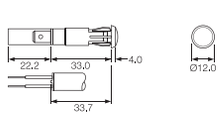
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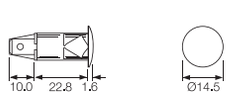
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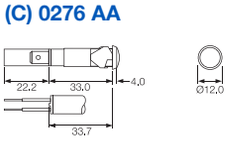
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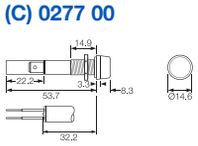
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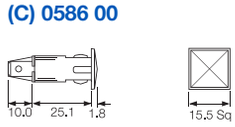
(C) 0278 00


(C) 0276 00


(C) 2821 00


(C) 0276 AA


(C) 0277 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:

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



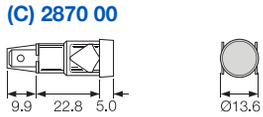
Available with Red, Amber, Green, Clear or Blue lenses
6V, 12/14V, 24/28V.

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	
L **K** 2.8 **H** 4.8 **C** 6.3	**C) 0589 00** 	**N** **L** **M** **F**				12.7 0.8-1.5 p. 340	
L	**L 0081 00** 	**N**				12.7 9.5 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			12.7 12.0max p. 340	
L **K** 2.8 **H** 4.8 **C** 6.3	**(C) 0067 00** 	**N** **L** **M** **F**				12.7 1.14 max p. 340	
L **C** 6.3	**(C) 0180AA** 	**N** **L** **F**				12.7 19.0 max p. 340	

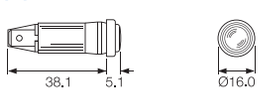
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L **C** 6.3	**(C) 0180BB** 	**N** **L** **F**	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED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

Dimensions

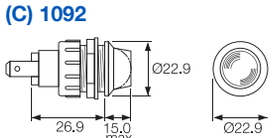
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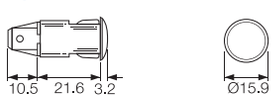
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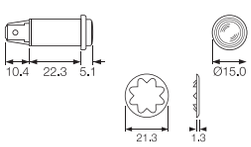
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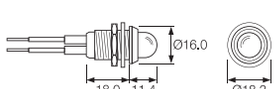
C) 0589 00



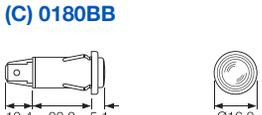
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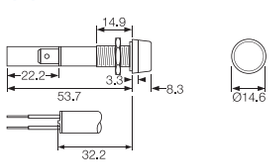
L 0081 00



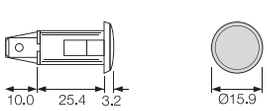
(C) 0180BB



(C) 0177 00



(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 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

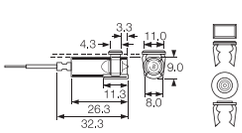


Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

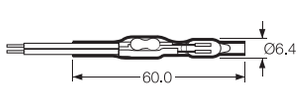
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L	L 0234 00 	N	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear LED **R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **2** 125V Neon **3** 250V Neon **4** 6Vdc LED **5** 12VDC LED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

Dimensions

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

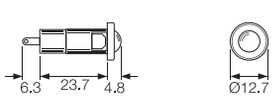
Colours and voltages:

These lampholders are suitable for up to 50V max.

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

Terminal	Type	Colour	Options	Panel
K 2.8	**K0061 00 (LES)** 	Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**C** Chrome Bezel Finish	∅ 9.5 0.9-1.14 T85
C 6.3	**(C) 0067 00** 			∅ 12.7 1.14max T85
K 2.8	**(K) 0062 A0** 			∅ 12.7 9.6max T85
K 2.8	**(K) 0062 M0** 	LED **R** Red **Y** Yellow **G** Green **B** Blue		∅ 12.7 9.6max T85
S	**(S) 0095 00** 			T85

K0061 00 (LES)



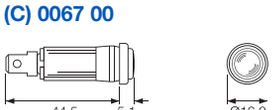
(K) 0062 M0



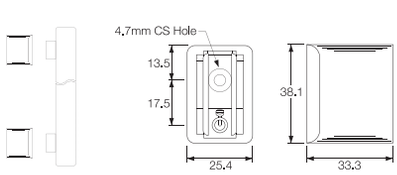
(K) 0062 A0



(C) 0067 00



(S) 0095 00



Large Low Voltage Lampholders



C1090FE - - -



P1090FL - - -

Key Features

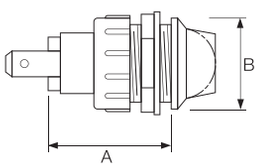
- Up to 50V
- MES or MBC bulb
- Flat and domed lens
- Brass or nylon bodies
- Red, Amber, Green, Blue and Clear lenses

Approvals and specifications

These lampholders are suitable for up to 50V max.

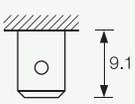
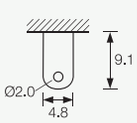
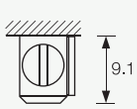
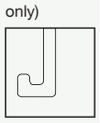
Colours - Red, Amber, Green,
(Clear & Blue, check availability).
Brass bodies have polished chrome finish.

Dimensions and Options



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



Terminal	Type	Colour	Options	Panel	Lens
C  6.3 x 0.8 **H**  Solder **S**  Screw and Clamp	**1090** MES (E10)  **1091** MBC (BA9s) (C and S Terminals only) 	**R** Red **Y** Yellow **G** Green **B** Blue **C** Clear	**C** Chrome Bezel Finish	**1090 (MES lamps)** 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 30.2 22.8 **G** 19.0 Brass 24.6 22.0 **H** 19.0 Nylon with chrome bezel 24.6 22.0 24.6 22.8 **L** 25.4 Brass 26.0 31.5 **1091 (MBC lamps)** 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	**F** Flat  **V** MES (E10)  **L** No lens

LED Lamps and LED Lampholders

LED Lampholders can be supplied with or without LEDs

Key Features

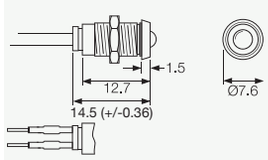
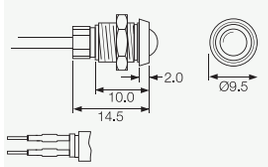
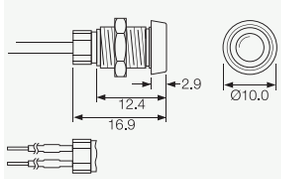
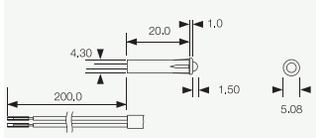
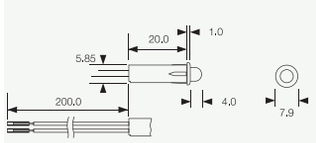
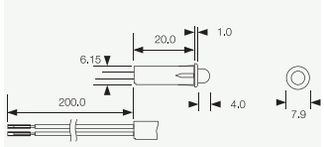
- LED lampholders
- Supplied with or without LEDs
- Black or Chrome finish

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) 1047 00**	**B** Black **C** Chrome	**R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED	∅ 6.3 6.3max T105		
W LED fitted **A** LED not fitted **L** LED & Wires fitted	**(L) 1048 00**				∅ 8.0 5.5max T105		
W LED fitted **A** LED not fitted **L** LED & Wires fitted	**(W)1050 00**				∅ 8.0 7.0max T105	KEMA KEUR	
W LED fitted **L** LED & Wires fitted	**(L) 1035 0A**				∅ 4.5 0.9-1.6 T105	KEMA KEUR	
W LED fitted **L** LED & Wires fitted	**(L) 1036 0A**				∅ 6.0 0.9-1.6 T105	KEMA KEUR	
W LED fitted **L** LED & Wires fitted	**(L) 1037 0A**				∅ 6.35 0.9-1.6 T105	KEMA KEUR	

LED Lamps and LED Lampholders - Sealed to IP67

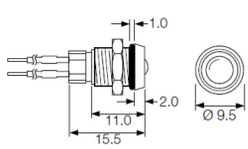
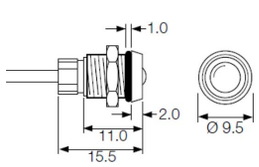
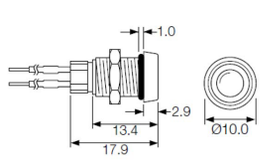
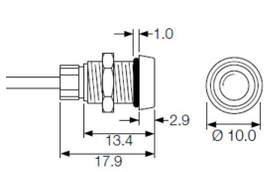
Key Features

- 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	Body Colour	LED Colour	Voltage	Panel	Approval	Dimensions
L LED & Wires fitted **W** LED fitted **A** LED not fitted	**(L) 1048 OA** 	**B** Black **C** Chrome	**R** Red **Y** Yellow **G** Green **B** Blue	**1** LED No Resistor **4** 6VDC LED **5** 12VDC LED **6** 24VDC LED	∅ 8.0 5.5max T105	KEMA KEUR	**(L) 1048 OA** 
	(W) 1048 OA 					KEMA KEUR	**(W) 1048 OA** 
	(L) 1050 OA 				∅ 8.0 7.0max T105	KEMA KEUR	**(L) 1050 OA** 
	(W) 1050 OA 				∅ 8.0 7.0max T105	KEMA KEUR	**(W) 1050 OA** 

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



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.

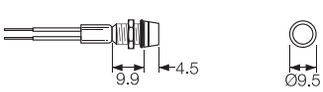
FILAMENT



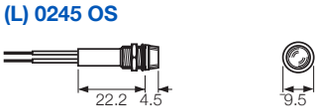
Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

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

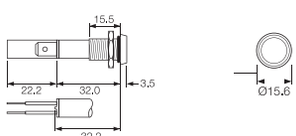
(L) 1041 OS



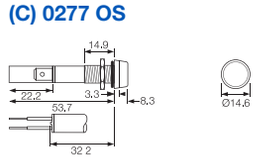
(L) 0245 OS



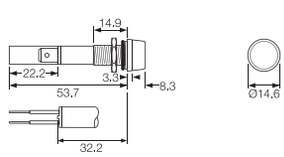
(C) 0275 OS



(C) 0277 OS



(C) 0177 OS



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
Moulded bodies and bases . . . . . .Nylon 6.6
Metal bodies and bezels . . . . . .Chrome plated brass (except #)
Lenses . . . . . .Polycarbonate
Terminals (most types) . . . . . .Brass (electro-tin plated)
Terminals (exceptions) . . . . . .Brass (flash silver* or nickel** plated)
Threaded metal nuts . . . . . .Brass (nickel plated on 0275/7)
Other fixings . . . . . .Call sales for details
* R9, 0061, 0062, 0430, 0480, 1090, 1091, 6030, 7030, 8630, 8580
** # 3130, 3160, 3161, 3221 have nickel plated terminals with steel screws and plated polyamide bezel trims

TEMPERATURE RATING

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

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.

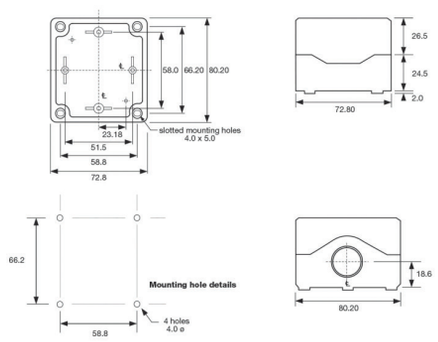
Current
<3mA

Life
>100,000hrs

BEA01S - ABS



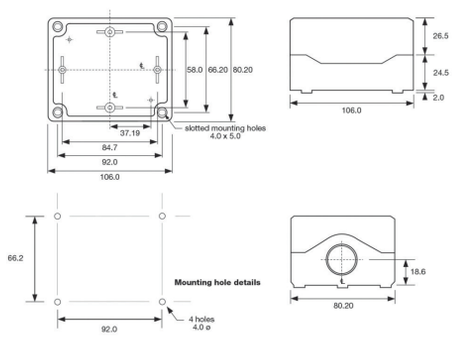
- Dimensions: 80 x 72 x 53mm
- Slotted mounting holes, 66.2 x 58.8mm
- 2 x M20 threaded knock-outs suitable for use with M20 glands
- Option for single pre-drilled 22mm Ø hole in lid
- PCB mounting posts suitable for M3 self tapping screws
- Grey or black base
- Transparent, black, grey or yellow lid



BEA02S - ABS



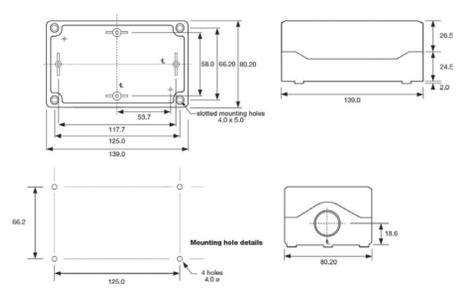
- Dimensions: 80 x 106 x 53mm
- Slotted mounting holes, 66.2 x 92.0mm
- 2 x M20 threaded knock-outs suitable for use with M20 glands
- Option for two pre-drilled 22mm Ø holes in lid
- PCB mounting posts suitable for M3 self tapping screws
- Grey or black base
- Transparent, black, grey or yellow lid



BEA03S - ABS

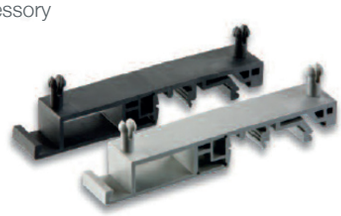


- Dimensions: 80 x 139 x 53mm
- Slotted mounting holes, 66.2 x 125mm
- 2 x M20 threaded knock-outs suitable for use with M20 glands
- Option for three pre-drilled 22mm Ø holes in lid
- PCB mounting posts suitable for M3 self tapping screws
- Grey or black base
- Transparent, black, grey or yellow lid



BE Enclosure Accessories

Combifoot rail mounting accessory



BE123456 BE123457

- Easy snap fixing to enclosure BEA01S, BEA02S & BEA03S
- Suitable for TS32 & TS35 rails
- Available in black or grey
- Part numbers:
  Grey - BE123456
  Black - BE123457

Wall mounting accessory



BE123458 BE123459

- Easy snap fixing to enclosure BEA01S, BEA02S & BEA03S
- For easy access wall mounting
- Available in black or grey
- Part numbers:
  Grey - BE123458
  Black - BE123459

Cable glands



BE123460 BE123461

- For use in pre-moulded knock-outs
- M20 thread
- Cable range 6-12mm
  Supplied with gasket
- Available in black or grey
- Part numbers:
  Grey - BE123460
  Black - BE123461

Specifications

	BEAxxx
Sealing:	IP67
Material:	ABS
Flammability rating:	UL94HB
Gasket:	TPE
Temperature rating:	–20ºC to +85ºC

Features

- **IP67 rated, dust and waterproof for short-term submersion to 1m depth**
- **ABS - UL94HB rated**
- **Threaded M20 knock-outs, premoulded areas that can be pushed out for use with M20 size cable glands**
- **Plastic lid fixing screws, corrosion resistant**
- **Captive lid screws, standard on all lids**
- **Additional pre-drilled 22mm holes in the lid may be specified, suitable for standard switches and indicators**
- **PCB mounting, mounting posts and slots for PCB as standard**
- **Self tapping screw fixing, standard feature**
- **Transparent top cover, available in clear and smoke grey**
- **Accessories:**
  - **Wall mounting brackets**
  - **Combifoot - TS32 & TS35 din rail mounting**
  - **M20 cable glands for use in knock-outs**
- **Registered design**

BE	/	**X**	**XXX**	/	**X**	/	**X**	**X**
Body Styles		**Materials**	**Size**		**Base Colour**		**Lid Colour**	**Pre-drilled Lid Holes**
		A = ABS - UL94HB	01S = 80 x 72 x 53 02S = 80 x 106 x 53 03S = 80 x 139 x 53		B = black G = grey		B = black G = grey Y = yellow T = transparent	0 = no holes 1 = with hole(s) (1 x 22mmØ Size 1, 2 x 22mmØ Size 2 & 3 x 22mmØ Size 3 Enclosures)

Examples:

BEA02SGT0 = Size 2, ABS material, grey base, transparent lid with no holes