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Terminal	Type	Sealed	Illumination	Colour	Voltage	Options
B 2.8 **L**	**(B) 0566 A** 	6.0 2.0 max page 6		Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED 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
B 2.8 **L**	**(B) 0566 B** 	6.0 2.0 max page 6				
B 2.8 **L**	**(B) 0566 C** 	6.0 2.0max				
C 6.3	**(C) 0145 AA** 	5.8 3.0max page 6		LED **R** Red **Y** Yellow **G** Green **B** Blue		
L **W**	**(L) 1041 OO** 	6.3 6.3max page 6				
L **W**	**(L) 1045 OO** 	6.3 10.0max page 6				

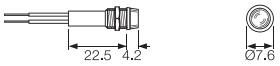
Indicator Lights

Neon, LED and Filament Lamp

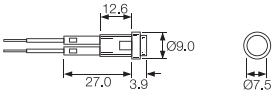
Terminal	Type	Sealed	Illumination	Colour	Voltage	Options
L W	(L) 0245 OO 	7.1 6.3 max page 6		Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED Resistor **2** 125V Neon **3** 250V Neon **4** 6Vdc LED **5** 12Vdc LED **6** 24Vdc LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250Vac LED	**C** Chrome Bezel Finish
L	L 2950 OO 	8.0 0.8-1.6 page 6				
L C 6.3	(L) 0195 BB 	8.0 0.8-3.0 page 6				
L	L 2951 OO 	8.0 0.8-1.6 page 6		LED **R** Red **Y** Yellow **G** Green **B** Blue		
L H 4.8	H) 0568 A(*) 	8.0 0.8-3.5 page 6				
L H 4.8	(H) 0568 B(*) 	8.0 0.8-3.5 page 6				

Dimensions

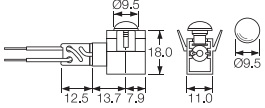
(B) 0566 A



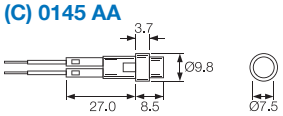
(B) 0566 B



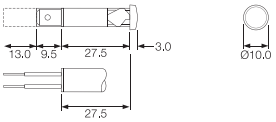
(B) 0566 C



(C) 0145 AA



(L) 1041 OO



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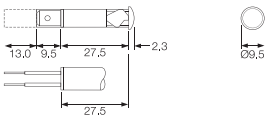
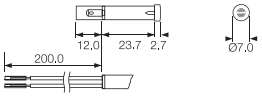
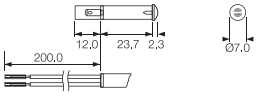


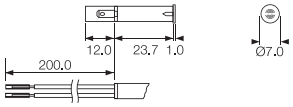
(L) 0245 OO



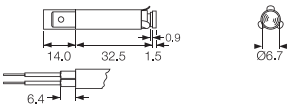
L 2950 OO



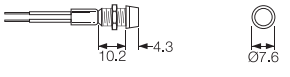
(L) 0195 BB



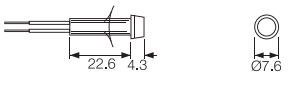
H) 0568 A(*)



L 2951 OO



(H) 0568 B(*)



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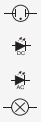
L	(L) 0569 AW		Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear LED **R** Red **Y** Yellow **G** Green **B** Blue	**1** LED Resistor **2** 125V Neon **3** 250V Neon **4** 6Vdc LED **5** 12Vdc LED **6** 24Vdc LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250Vac LED	**C** Chrome Bezel Finish	∅ 9.0 0.8-2.5 Call sales	
L K 2.8 H 4.8 C 6.3	(C) 0273 OO					∅ 9.0 2.0 max page 6	
L K 2.8 H 4.8 C 6.3	(C) 0278 OO					∅ 9.0 2.0 max page 6	
L K 2.8 H 4.8 C 6.3	(C) 0276 AA					∅ 9.5 0.8-2.8 page 6	
L K 2.8 H 4.8 C 6.3	(C) 0275 OO					∅ 10.0 12.0 page 6	
L K 2.8 H 4.8 C 6.3	(C) 0275 OO					∅ 10.0 11.5 max page 6	

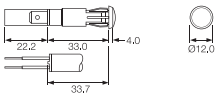
Indicator Lights

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 OO 		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 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 page 6	
L K 2.8 H 4.8 C 6.3	(C) 0277 OO 					10.0 12 max page 6	
L K 2.8 H 4.8 C 6.3	(C) 0273 LL 					10.0 0.6-2.0 page 6	
L K 2.8 H 4.8 C 6.3	(C) 2820 OO 					12.0 0.75-2.0 page 6	
L K 2.8 H 4.8 C 6.3	(C) 2821 OO 					12.0or12.7 ø12.0 = 0.8-2.5 ø12.7 = 1.1-2.5 page 6	
L K 2.8 H 4.8 C 6.3	(C) 0586 OO 					12.5 0.8-1.5 page 6	

Dimensions

(L) 0569 AW



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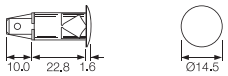

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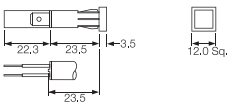

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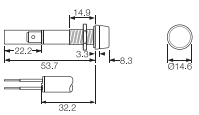
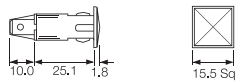
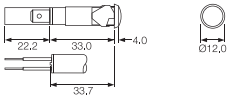


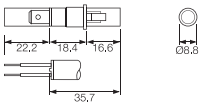
(C) 0275 OO



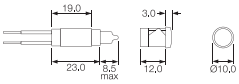
(C) 2820 OO



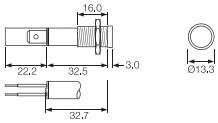
(C) 0278 OO



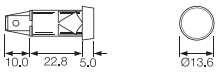
(C) 0276 OO



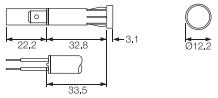
(C) 2821 OO



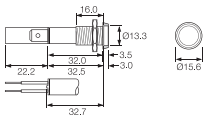
(C) 0276 AA



(C) 0277 OO



(C) 0586 OO



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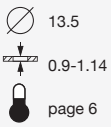
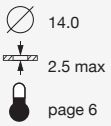
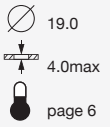
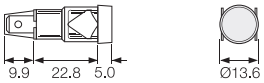
L K 2.8 H 4.8 C 6.3	(C) 2870 OO 		Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED Resistor **2** 125V Neon **3** 250V Neon **4** 6Vdc LED **5** 12Vdc LED **6** 24Vdc LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250Vac LED	**C** Chrome Bezel Finish	12.7 0.75-2.0 Page 6	
L K 2.8 H 4.8 C 6.3	C) 0589 OO 					12.7 0.8-1.5 page 6	
L	L 0081 OO 					12.7 9.5 page 6	
L K 2.8 H 4.8 C 6.3	(C) 0177 OO 		LED **R** Red **Y** Yellow **G** Green **B** Blue			12.7 12.0max page 6	
L K 2.8 H 4.8 C 6.3	(C) 0067 OO 					12.7 1.14max page 6	
L C 6.3	(C) 0180AA 					12.7 19.0 max page 6	

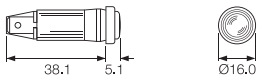
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
L C 6.3	(C) 0180BB		Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED Resistor **2** 125V Neon **3** 250V Neon **4** 6Vdc LED **5** 12Vdc LED **6** 24Vdc LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250Vac LED	**C** Chrome Bezel Finish	 13.5 0.9-1.14 page 6	
L K 2.8 H 4.8 C 6.3	(C) 0579 OO		LED **R** Red **Y** Yellow **G** Green **B** Blue			 14.0 2.5 max page 6	
C 6.3	(C) 1092					 19.0 4.0max page 6	

Dimensions

(C) 2870 OO



(C) 0067 OO



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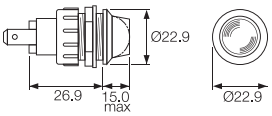
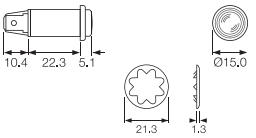
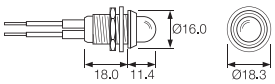


C) 0589 OO

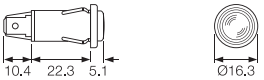
(C) 0180AA



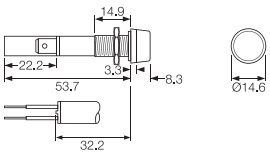
L 0081 OO



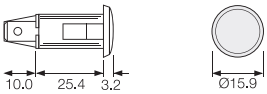
(C) 0180BB



(C) 0177 OO



(C) 0579 OO



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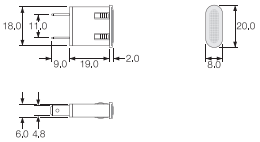
Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

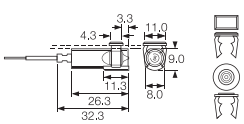
Terminal	Type	Illumination	Colour	Voltage	Options	Panel	Approval
H 4.8	**H 0581 AY**		Neon & Filament **R** Red **A** Amber **G** Green **B** Blue (Special Order) **C** Clear	**1** LED Resistor **2** 125V Neon **3** 250V Neon **4** 6Vdc LED **5** 12Vdc LED **6** 24Vdc LED **7** 12/14V Filament **8** 24/ 28V Filament **9** 125/250Vac LED	**C** Chrome Bezel Finish	18.2/18.3 x 6.2/6.3 2.0-3.5 Page 6	
L	**L 0234 OO**		LED **R** Red **Y** Yellow **G** Green **B** Blue			9.27/9.50 x 4.75 0.71-1.62 page 6	
L	**L 0233 OO**					page 6	

Dimensions

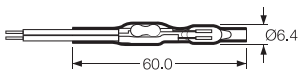
H 0581 AY



L 0234 OO



L 0233 OO



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

Indicator Lights

To match 8500, 8600, R13, 1500, 1550, 5500, 8300 and 7000 switches

Key Features

- Indicator lights
- Neon or filament lamp
- Bezel sizes from 6.7 to 16.3mm diameter
- Red, amber green and clear neons
- Red, amber and green filament lamps
- Styles to match rocker and push switches

Colours and voltages:

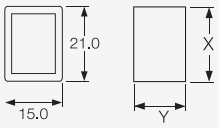
Neon Available with Red, Amber, Green or Clear lenses 100/130V (marked 110V), 200/250V (marked 230V)

Filament lamp Available with Red, Amber or Green lenses 6V, 12/14V, 24/28V

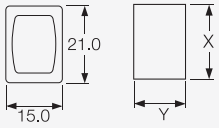
Terminal	Type	Illumination	Colour	Voltage	Options
H 4.8	(C) 0276 OO		Neon & Filament	1 LED Resistor	C Chrome Bezel Finish
H 4.8 T X	(C) 0277 OO		R Red	2 125V Neon	
H 4.8	(C) 0273 LL		A Amber	3 250V Neon	
C 6.3 H 4.8 K 2.8 T U	(C) 2820 OO		G Green	4 6Vdc LED	
C 6.3 H 4.8 K 2.8 T U	(C) 2821 OO		B Blue (Special Order)	5 12Vdc LED	
C 6.3 H 4.8	(C) 0586 OO		C Clear	6 24Vdc LED	
			LED	7 12/14V Filament	
			R Red	8 24/ 28V Filament	
			Y Yellow	9 125/250 Vac LED	
			G Green		
			B Blue		

Panel

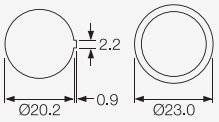
Body Code	Panel Thickness	Cut-out X	Cut-out Y
B	0.75-1.25	19.1/19.2	12.9/13.0
	1.25-2.0	19.3/19.4	12.9/13.0
	2.0-3.0	19.7/19.8	12.9/13.0



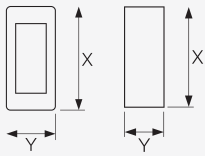
Body Code	Panel Thickness	Cut-out X	Cut-out Y
B	0.75-1.25	19.1/19.2	12.9/13.0
	1.25-2.0	19.3/19.4	12.9/13.0
	2.0-3.0	19.7/19.8	12.9/13.0



Full product details on pages 33
Snap fixing in panels thickness up to 3.0

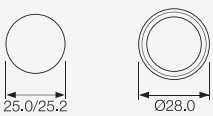


Body Code	Cut-out Y	Cut-out X	Flange Y	Flange X
A	12.2/12.3	27.2/27.3	14.0	30.2
B	11.0/11.1	30.0/30.1	14.0	33.4
L	11.0/11.1	30.0/30.1	14.0	31.9
R	14.0/14.1	28.5/28.6	17.0	31.5
T	11.5/11.6	28.5/28.6	14.0	30.2



Body Code	Cut-out Y	Cut-out X	Flange Y	Flange X
A	22.3/22.4	27.2/27.3	25.0	30.2
B	22.1/22.2	30.0/30.1	25.0	33.4
L	22.1/22.2	30.0/30.1	25.0	32.0
R	23.0/25.4	28.4/28.5	28.9	33.2
T	22.3/22.4	24.5/28.5	25.0	30.2

Body Code	Cut-out	Flange
H	Ø25.0/25.2	Ø28.0



Approvals

(C) 0276 OO (C) 2821 OO

(C) 0277 OO (C) 0586 OO

(C) 2820 OO

Key Features

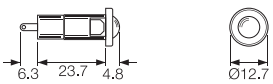
- Up to 50V
- Red, Amber, Green, Blue and Clear
- Linestra/Philinea lamp holder

Colours and voltages:

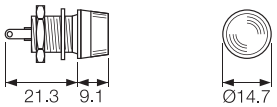
These lampholders are suitable for up to 50V max.
Bulbs will be supplied (dependent on order quantity) if a voltage is specified.
Colours - Red, Amber, Green, (Clear & Blue, check availability).

Terminal	Type	Sealed	Illumination	Colour	Voltage	Options	Panel
T	T0061 OO (LES)	S Sealed	N Neon	Neon & Filament	1 LED Resistor	C Chrome Bezel Finish	∅ 9.5 0.9-1.14 T85
C	(C) 0277 OO		L DC LED	R Red	2 125V Neon		∅ 12.7 1.14max T85
T 6.3	(C) 0273 LL		M Mains AC LED	A Amber	3 250V Neon		∅ 12.7 9.6max T85
T	(C) 2820 OO		F Mains AC LED	G Green	4 6Vdc LED		∅ 12.7 9.6max T85
S	(C) 2821 OO			B Blue (Special Order)	5 12Vdc LED		
				C Clear	6 24Vdc LED		
				LED	7 12/14V Filament		
				R Red	8 24/ 28V Filament		
				Y Yellow	9 125/250Vac LED		T85
				G Green			
				B Blue			

T0061 OO (LES)

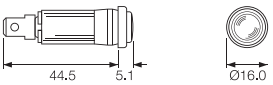


(C) 2820 OO

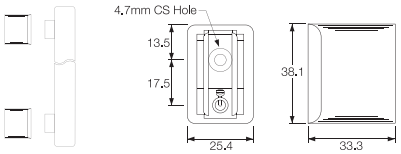


(C) 0273 LL

(C) 0277 OO



(C) 2821 OO



Low Voltage Lampholders

C1090FP - - -

P1090FL - - -

Key Features

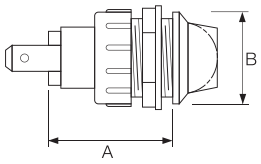
- Up to 50V
- MES or MBC bulb
- Flat and domed lens
- Brass or nylon bodies
- Red, Amber, Green, Blue and Clear lenses

Approvals and specifications

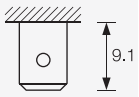
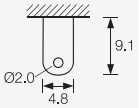
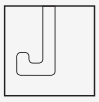
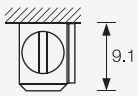
Bulbs will be supplied (dependant on order quantity) if a voltage is specified. These lampholders are suitable for up to 50V max.

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	Sealed	Colour	Bulb Voltage	Options	Panel	Lens	Approval
C  6.3 x 0.8	**1090** MES (E10) 	**S** Sealed	**R** Red **Y** Yellow **G** Green **B** Blue **C** Clear	**6** 6V **12** 12V **24** 24V Max of 50V	**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	
T  Solder	**1091** MBC (BA9s) (C and S Terminals only) 							
S  Screw and Clamp								

LED Lamps and LED Lampholders

LED Lampholders can be supplied with or without LEDs

Key Features

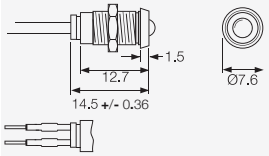
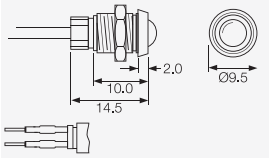
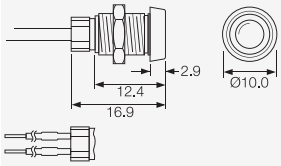
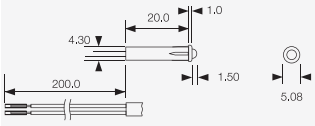
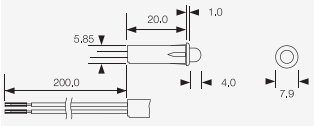
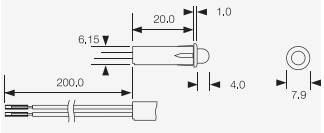
- LED lampholders
- Supplied with or without LEDs
- Black or Chrome finish

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	Sealed	Body Colour	LED Colour	Voltage	Panel Cutout	Approval	Dimensions
W LED fitted **A** LED not fitted **L** LED & Wires fitted	**(W) 1047 OO**	**S** Sealed	**B** Black **–** Blank	**R** Red **Y** Red **G** Green **B** Blue	**1** LED Resistor **4** 6Vdc LED **5** 12Vdc LED **6** 24Vdc LED	∅ 6.3 6.3max T85		
W LED fitted **A** LED not fitted **L** LED & Wires fitted	**(L) 1048 OO**					∅ 8.0 5.5max T85		
W LED fitted **A** LED not fitted **L** LED & Wires fitted	**(W) 1050 OO**					∅ 8.0 7.0max T85		
W LED fitted **L** LED & Wires fitted	**(L) 1035 OA**					∅ 4.5 0.9-1.6 T85		
W LED fitted **L** LED & Wires fitted	**(L) 1036 OA**					∅ 6.0 0.9-1.6 T85		
W LED fitted **L** LED & Wires fitted	**(L) 1037 OA**					∅ 6.35 0.9-1.6 T85		

LED Lamps and LED Lampholders

Sealed to IP67

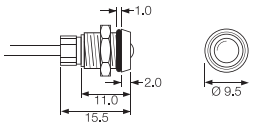
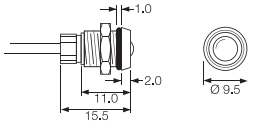
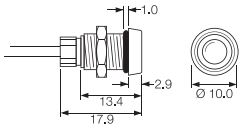
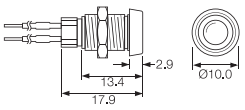
Key Features

- 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	Sealed	Body Colour	LED Colour	Voltage	Panel	Approvals	Dimensions
W LED fitted **A** LED not fitted	**(W) 1047 OO** 	**S** Sealed	**B** Black **–** Blank	**R** Red **Y** Red **G** Green **B** Blue	**1** LED Resistor **4** 6Vdc LED **5** 12Vdc LED **6** 24Vdc LED	∅ 8.0 5.5 max T85	KEMA EUR	**(W) 1047 OO** 
L LED & Wires fitted	**(L) 1048 OO** 					∅ 8.0 5.5max T85	KEMA EUR	**(L) 1048 OO** 
W LED fitted **A** LED not fitted	**(W) 1050 OO** 					∅ 8.0 7.0max T85	KEMA EUR	**(W) 1050 OO** 
L LED & Wires fitted	**(W) 1050 OO** 					∅ 8.0 7.0max T85	KEMA EUR	**(W) 1050 OO** 

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.

Indicator Lights - Sealed to IP67

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:

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

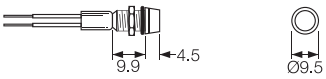
Red, Yellow, Green, Blue, White 2.0/2.2V Resistors for other voltages available.

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

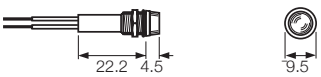
Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

Terminal	Type	Sealed	Illumination	Colour	Voltage	Option	Panel Cutout	Approval
L	(L) 1041 OS	S Sealed		R Red A Amber G Green B Blue (Special) C Clear LED R Red Y Yellow G Green B Blue W White	1 LED 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	∅ 6.3 5.3max	KEMA KEUR
L	(L) 0245 OS						∅ 7.1 4.6max	KEMA KEUR
L C 6.3 K 2.8 H 4.8	(C) 0275 OS						∅ 10.0 11.15max	KEMA KEUR
L C 6.3 K 2.8 H 4.8	(C) 0277 OS						∅ 10.0 11.15max	KEMA KEUR
L 6.3 C 4.8 K 2.8 H	(C) 0177 OS						∅ 12.7 11.15max	KEMA KEUR
L 6.3	(C) 1092 FFS						∅ 19.0 4.0 max	KEMA KEUR

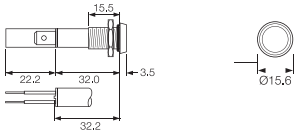
(L) 1041 OS



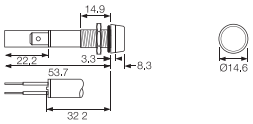
(L) 0245 OS



(C) 0275 OS



(C) 0277 OS



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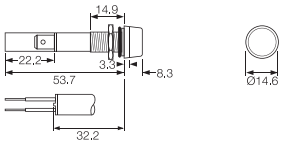

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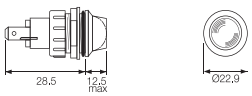


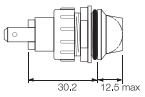
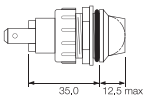
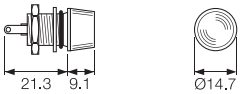
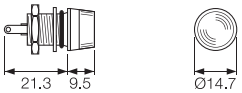
Indicator Lights - Sealed to IP67

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

Colours and voltages:

These lampholders are suitable for up to 50V max.
Bulbs will be supplied (dependent on order quantity) if a voltage is specified.
Colours - Red, Amber, Green, (Clear & Blue, check availability).

Terminal	Type	Sealed	Colour	Bulb Voltage	Options	Panel	Approvals	Dimensions
C 6.3	**C1090 FPS (MES)**	**S** Sealed	**R** Red **A** Amber **G** Green **B** Blue (Special) **C** Clear	**6** 6V **12** 12V **24** 24V	**C** Chrome Bezel Finish	∅ 19.0 4.0max T85	KEMA EUR	
C 6.3	**C1091 FQS (MBC)**					∅ 7.1 4.6max	KEMA EUR	
T	**T0062 AOS (Midget flange) Chrome bezel** **T0063 AOS (LES) Chrome bezel**					∅ 10.0 11.15max	KEMA EUR	
T	**T0062 MOS (LES & Midget flange** **T0063 MOS (LES)**					∅ 10.0 11.15max	KEMA EUR	

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

General Information

Terms and Conditions of Sale

All orders are accepted subject to our Standard Terms & Conditions. Copies of these are available: www.elektron-technology.com/terms/

Health & Safety

Bulgin proprietary components are designed, manufactured, assessed and tested to comply with good commercial quality and engineering standards. They are safe and reliable in use within the vast majority of normal environments. In the interest of safety, application in certain extreme destructive or unsuitable environments must be avoided. The following restrictions are given as guidance:

- External or wet areas (exposed to rain or spray), except where designated “Sealed”.
- Atmospheres designated as “explosive”, except where designated “Gas Tight” or “Explosion Proof”.
- Highly corrosive atmospheres or subject to contamination by corrosive chemicals. (Avoid the use of corrosive acid soldering flux. Use an approved Electrical Grade).
- Atmospheres containing a high density of abrasive dust (mechanically operated components).
- Contamination with Silicone or Silicone Compounds (switches).
- Areas or levels unprotected from severe impact by heavy bodies moving in close proximity - (panel mounted components).
- Extremes of temperatures, beyond the specified limits.
- Electric supply voltage or load current above the published maximum ratings.

General

To ensure electrical safety as far as is reasonably practical, these products should be properly applied, installed and maintained by or under the supervision of competent persons in accordance with good engineering practice.

Dimensions

All dimensions are in millimetres (mm) unless otherwise stated.

The CE Marking Directive

Equipment bearing the CE mark is allowed free circulation throughout Europe. The products in this catalogue, when installed correctly, comply with the CE requirements where it relates to them.

The Low Voltage Directive

The Low Voltage Directive 2006/95/EC seeks to ensure that electrical equipment within certain limits both provides a high level of protection for European citizens and enjoys a single market in the European Union. Where applicable, Bulgin products comply with the requirements of this directive.

RoHS

These European Directives introduced environmental responsibilities for electrical and electronics equipment manufacturers. The RoHS (Restriction of use of certain Hazardous Substances) regulation (Directive 2002/95/EC) came into force July 2006. The WEEE (Waste Electrical and Electronic Equipment) regulation (Directive 2002/96/EC), came into force January 2007.
The RoHS directive effectively bans the use of certain chemicals, these are defined as:

- Lead
- Cadmium
- Mercury
- Hexavalent Chromium
- Polybrominated Biphenyl (PBB) - flame retardant
- Polybrominated Diphenyl Ether (PBDE) - flame retardant (including Deca BDE)

Action has been taken to ensure all standard products meet the requirements of this directive. All packing carries RoHS compliance information as conformation.

REACH

REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) is the new system for controlling chemicals in Europe and became law in the UK on 1 June 2007. Elektron Technology as a manufacturer of articles, are reliant on our supply chain to ensure that the substances/articles we use, are in compliance with the EC1907/2006, REACH Regulations.
Our articles and their packaging, based on our knowledge at this point, do not contain any of the 15 substances on the SVHC Candidate List, dated 28th October 2008, nor any of the 14 substances added to the SVHC Candidate List, dated 13th January 2010, nor Acrylamide added to the SVHC Candidate List, dated 30th March 2010, according to article 59 (1, 10) of Regulation (EC) No. 1907/2006 (REACH), in a concentration above 0.1% weight by weight.
If this situation changes we confirm that this information will be passed through the supply chain in a timely manner.