Indicators



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.

464 Vandal Resistant LED Indicators 5mm LED Indicators 466 471 Indicator Lights Low Voltage Lampholders 478 LED Lamps and LED Lampholders 480 Indicator Lights - Sealed to IP67 481

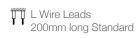






SYMBOLS













Vandal Resistant LED Indicators

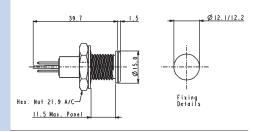


Proud of Panel Profile



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

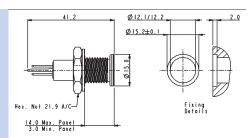


DX0506

/00 (no ballast resistor)

Compliant

- 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: Forward Voltage: Cont. Forward Current:	Solder Tab/2.8mm Tab Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V Red 30mA, Green 25mA,	Solder Tab/2.8mm Tab Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V Red 30mA, Green 25mA,
(max)	Yellow 30mA, Blue 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: Lens: O Ring (external): (internal):	Stainless Steel Polycarbonate UL94V-0 Nitrile Silicone	Stainless Steel Polycarbonate UL94V-0 Nitrile 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	/12 (12V DC), /24 (24V DC) or

/00 (no ballast resistor)

Compliant

RoHS

Vandal Resistant LED Indicators

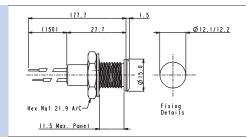


Proud of Panel Profile



DX0507

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



Flush Panel Profile

LED Voltage:

RoHS



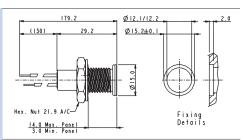
DX0508

/12 (12V DC), /24 (24V DC) or

/00 (no ballast resistor)

Compliant

- Flying Lead Termination
- O 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: Forward Voltage:	Flying Leads Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V	Flying Leads 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: Lens: O Ring (external): (internal):	Stainless Steel Polycarbonate UL94V-0 Nitrile Silicone	Stainless Steel Polycarbonate UL94V-0 Nitrile 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

/12 (12V DC), /24 (24V DC) or

/00 (no ballast resistor)

Compliant

5mm LED Indicators

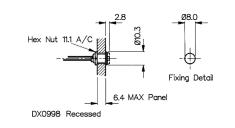


Chrome Plated Brass Bezel



DX0998

- O Chrome Plated Brass Bezel
- Recessed StyleChoice of LED Types and Colours



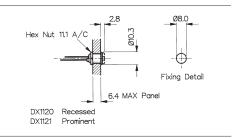
Nylon Bezel



DX1120

DX1121

- O Glass Filled Nylon Bezel
- O 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 469 for LED options and specifications*

5mm LED Indicators



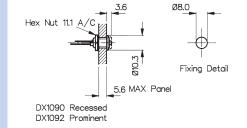
Aluminium Bezel - IP66 Sealed



DX1090

DX1092

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



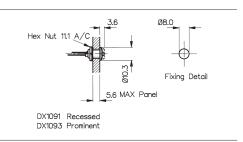
Aluminium Bezel - IP66 Sealed



DX1091

DX1093

- Aluminium Bezel, Clear
- \Diamond 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 469 for LED options and specifications

4mm LED Indicators

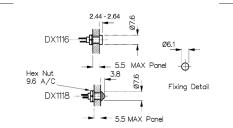


Chrome Plated Brass Bezel



DX1116 DX1118

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



Black Nickel Pated Brass Bezel

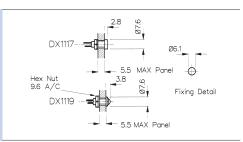


DX1117

Aluminium, Black Anodised

Prominent or Recessed Style

Choice of LED Types and Colours



DX1117, DX1119/Colour **Specifications** DX1116, DX1118/Colour

DX1119

Bezel Materials: Brass, Chrome Plated Aluminium, Black Anodised

Style: Recessed (DX1116) Recessed (DX1117) Prominent (DX1119) Prominent (DX1118)

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), /RD (Red), /GN (Green), /YL (Yellow),

> /BL (Blue) /BL (Blue)

RoHS Compliant Compliant

See Page 470 for LED specifications*

5mm LED options



5mm LEDs STANDARD

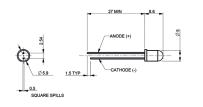
Specification	Red	Green	Yellow	Blue
Luminous Intensity @20mA: Forward voltage: Cont. Forward Current (max):	25mcd 2.0V 30mA	20mcd 2.0V 25mA	20mcd 2.1V 30mA	21mcd 3.5V 30mA
Power Dissipation:	105mW (max) @20°C A	mbient	120mW
Reverse Current: Reverse Voltage:	10μA 5V (max)	10μA 5V (max)	10μA 5V (max)	50μA 5V (max)
Operating Temp:		10°C to +85°C		–20°C to +80°C

/GN

/YL

/BL

/RD



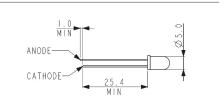
5mm LEDs FLASHING

Part No:

Specification	Red	Green
Luminous Intensity @20mA:	1.2mcd	20mcd
Forward voltage:	2.0-15.0V	2.0V
Cont. Forward Current (max):	10-30mA	25mA

200mW (max) @ 20°C ambient Power Dissipation: 2.2Hz (typ) 0°C to +70°C Flash Frequency @ 3V supply: Operating Temp:

Part No: /RD/02 /GN/02



5mm LEDs TRI COLOUR

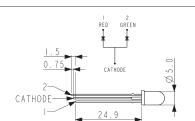
Red/Green/Amber Specification

Luminous Intensity @20mA: 2.5mcd Forward voltage: 2.4V Cont. Forward Current (max): 30mA (max)

Power Dissipation: 150mW (max) @ 20°C Ambient

Reverse Current: 100μΑ Reverse Voltage: 5V (max) -40°C to +70°C

Operating Temp: Part No: /TR



5mm LEDs DUAL COLOUR

Specifications	Red/Green	Red/Amber	Green/Amber	
Luminous Intensity:	4.5/5mcd	4.5/4mcd	4/5mcd	1.0 MIN 10.5
Forward voltage:	2.2V	2.2V	2.2V	MIN
Cont. Forward Current:	30mA/30mA	30mA/20mA	30mA/20mA	
Power Dissipation:	100mW/100mW	100mW/60mW	100mW/60mW	2
Reverse Current:	100mA	100mA	100mA	25.0
Reverse Voltage:	5V (max)	5V (max)	5V (max)	MIN RED RED YELLOW
Operating Temp:		-40°C to +85°C		
Part No:	/D1	/D2	/D3	GREEN YELLOW GREEN

Indicators 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	<u>₩, №</u>
Cont. Forward Current (max):	30mA	30mA	20mA	30mA	ANODE 8
Power Dissipation (max) @ 20°C Ambient:	100mW	100mW	85mW	120mW	ANODE
Reverse Current:	10μΑ	10μΑ	10µA	50μΑ	CATHODE
Reverse Voltage:	5V (max)	5V (max)	5V (max)	5V (max)	12.5
Part No:	/RD	/GN	/YL	/BL	MIN

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)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

Indicator Lights

Neon, LED and Filament Lamp



Key Features

Colours and voltages:

- 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
- 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.



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



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

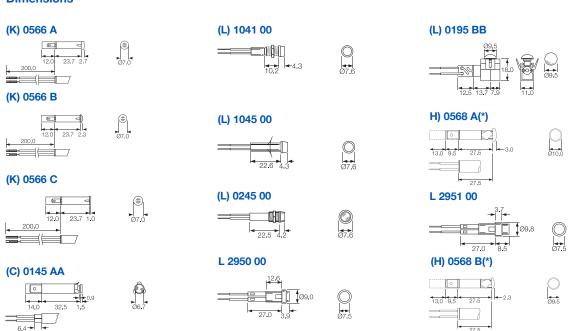
Terminal	Туре	Sealed	Illumination	Colour	Voltage	Options
K 2.8	(K) 0566 A	6.0 2.0 max p. 340	N -⊕- L ≬ M ≬	Neon & Filament R Red	1 LED No Resistor	C Chrome Bezel Finish
K 2.8 🍃 L 📴	(K) 0566 B	6.0 2.0 max p. 340	N -⊕- L ≬ M ≬	A Amber G Green	125V Neon 3 250V Neon	
K 2.8 🍃	(K) 0566 C	6.0 2.0max	N -⊕- L ∛ M ∛	B Blue (Special Order)	4 6VDC LED 5 12VDC LED	
C 6.3	(C) 0145 AA	5.8 3.0max p. 340	N -⊕- L ∜ M ∜	LED	6 24VDC LED	
L E	(L) 1041 00	6.3 6.3max p. 340	F -⊗- N -⊕- L † i F -⊗-	Red Yellow	12/14V Filament 8 24/ 28V Filament	
L E	(L) 1045 00	6.3 10.0max	N()- L + () M + () F -⊗-	G Green B Blue	9 125/250VAC LED	
	,					

Indicator Lights Neon, LED and Filament Lamp



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

Dimensions



Indicator Lights Neon, LED and Filament Lamp



Key Features

- Neon, LED, mains LED or filament lamp
- O 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:



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.

AC MAINS LED FILAMENT



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



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

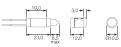
Terminal	Туре	Illumination	Colour	Voltage	Options	Panel	Approval
L E	(C) 0273 00	N -Q-	Neon & Filament	1	С	Ø 9.0	71 KEU ©
K 2.8		L 😣	R	LED No Resistor	Chrome	2.0 max	KENA
H 4.8 C 6.3		M 锐	Red	2	Bezel Finish	p. 340	KEDA
6.3		F ──	Α	125V Neon			
L E	(C) 0278 00	N	Amber			Ø 9.0	91 Killi ®
K 2.8		L #		3		2.0 max	KENA
H 4.8	0	— ™ M ½	G	250V Neon		\cap	KEDA SP
C 6.3		F -⊗-	Green	4		p. 340	KENA
			В	4 6VDC LED		~	
L E	(C) 0276 AA	N -()-	Blue (Special Order)	OVDG ELD		9.5	A77 KERY (1)
K 2.8		L 💨	C	5		0.8-2.8	KEUR
C 6.3	0	M ∯ F -⊗-	Clear	12VDC LED		p. 340	KEDA
0 0.0 %		F ⁻ ⊗-	Oleai				
L E	(C) 0275 00	N -⊕-		6		Ø 10.0	91 KEDA ®
K 2.8		L #		24VDC LED		12.0	Kana
H 4.8		M 🌞	LED	7		p. 340	KEDA ()
C 6.3		F -⊗-		12/14V Filament		р. 040	KEDA
. »-	(0) 0075 00		Red			<i>~</i>	71 Keta ®
L	(C) 0275 00	N		8			KEDA
H 4.8		L ∯ M ∯	Y	24/ 28V Filament		11.5 max	KEDA (D)
C 6.3		F -⊗-	Yellow	9		p. 340	KENA
			G	125/250VAC LED			
			Green				
			В				
			Blue				



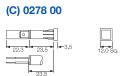
Terminal	Туре	Illumination	Colour	Voltage	Options	Panel	Approval
L E	(C) 0276 00	N	Neon & Filament	1	С	() 10.0	AN KEUA &
K 2.8		L 锐	R	LED No Resistor	Chrome Bezel Finish	~	Kena
H 4.8	Contract of the second	M *	Red	2	Bezei Finish	2.8 max	71 KEM (B
C 6.3		F -⊗-	Α	125V Neon		p. 340	KENA
L E	(C) 0277 00	N -⊕-	Amber			\sim	
K 2.8		L V	G	3		10.0	AN KENA SE
H 4.8		_	Green	250V Neon		12 max	KEDA
C 6.3		F -⊗-		4		p. 340	Keun
			В	6VDC LED			
L E	(C) 0273 LL	N	Blue (Special Order)	OVDO EED		Ø 10.0	91 Kena ()
K 2.8		L 💨	•	5		0.6-2.0	KEMA
H 4.8		M ∳ F -⊗-	C	12VDC LED		↑ 0.6-2.0	KEDA 🏗
C 6.3		F ♥	Clear			p. 340	KEDA
· »>-	(C) 2820 00			6			
L	(0) 2020 00	N		24VDC LED		Ø 12.0	A77 KERY 🐠
H 4.8		L ∛ M ∛	150	7		0.75-2.0	KEDA
C 6.3		F -⊗-	LED	12/14V Filament		p. 340	KENA
- 4			R	12/14VIIIament		р. 040	[KEUR]
L =	(C) 2821 00	N	Red	8		<i>(</i> X	, 91 kee 6
K 2.8		L ধ	Y	24/ 28V Filament		12.0or12.	7 KEDA
H 4.8		M 😤	Yellow	0		012.0 = 0.8-2.5 012.7 = 1.1-2.5	KEDA 👀
C 6.3		F -⊗-	C	9		p. 340	KENA
	(0) 0500 00		G Green	125/250VAC LED			
L E	(C) 0586 00	N				21.5	71 Kill ()
K 2.8	The second second	L 🐞	В			0.8-1.5	KENA
H 4.8 C 6.3		M <u>∳</u> F -⊗-	Blue				KEDA S
0.3		. 0				p. 340	Kana
Dimensions							

Dimensions

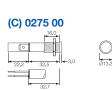
(L) 0569 AW





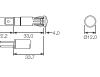


































Indicator Lights Neon, LED and Filament Lamp



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:



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.

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	Туре	Illumination	Colour	Voltage	Options	Panel	Approval
L	(C) 2870 00 C) 0589 00	N - ⊕- L + ⊕- F - ⊗- N - ⊕- L + ⊕- M + ⊕- F - ⊗-	Red A Amber G Green	1 LED No Resistor 2 125V Neon 3 250V Neon	C Chrome Bezel Finish	12.7 0.75-2.0 P. 340 12.7 0.8-1.5 p. 340	
LE	L 0081 00	N	Blue (Special Order) C	4 6VDC LED 5 12VDC LED		12.7 9.5 p. 340	RICA SE
L	(C) 0177 00	N -⊕- L * M * F -⊗-	LED R	6 24Vdc LED 7 12/14V Filament		12.7 12.0max p. 340	71. RES 3 RES 5 RES 5
K 2.8	(C) 0067 00	N ⊕ L ∯ M ∯ F -⊗-	Y Yellow	8 24/ 28V Filament 9 125/250VAC LED		12.7 1.14 max p. 340	KEGA KEGA
C 6.3	(C) 0180AA	N -⊕- L ∜ F -⊗-	Green B Blue			12.7 19.0 max p. 340	71 (6)

Indicator Lights Neon, LED and Filament Lamp



Terminal	Туре	Illumination	Colour	Voltage	Options	Panel	Approval
L	(C) 0180BB	N -⊕- L å F -⊗-	Neon & Filament R Red	1 LED No Resistor	C Chrome Bezel Finish	13.5 0.9-1.14 p. 340	KEEL SE
L	(C) 0579 00 (C) 1092	N -⊕- L † M † F -⊗-	A Amber G Green B Blue (Special Order) C Clear	125V Neon 3 250V Neon 4 6VDC LED 5 12VDC LED		14.0 2.5 max p. 340 19.0 4.0max p. 340	KESH KESH KESH
			Red Y Yellow G Green B Blue	6 24VDC LED 7 12/14V Filament 8 24/ 28V Filament 9 125/250VAC LED			

Dimensions

(C) 2870 00





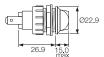








(C) 1092



















L 0081 00

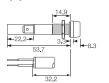








(C) 0177 00





(C) 0180BB





(C) 0579 00





Indicator Lights

Neon, LED and Filament Lamp



Key Features

- Neon, LED, mains LED or filament lamp
- O 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)



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.

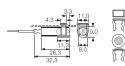
FILAMENT



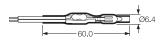
Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

Dimensions

L 0234 00



L 0233 00



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

Low Voltage Lampholders



Key Features

Colours and voltages:

O Up to 50V

These lampholders are suitable for up to 50V max.

Red, Amber, Green, Blue and Clear

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

C Linestra/Philinea lamp holder

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

K0061 00 (LES)















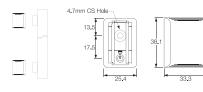


(C) 0067 00





(S) 0095 00



Large Low Voltage Lampholders









P1090FL - - -

Key Features

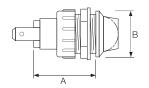
- O Up to 50V
- MES or MBC bulb
- Flat and domed lens
- O Brass or nylon bodies
- Red, Amber, Green, Blue and Clear lenses

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	Туре	Colour	Options	Panel	Lens
6.3 x 0.8 H 02.0 4.8 Solder	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	Panel Hole	F Flat V MES (E10) L No lens
Screw and Clamp					

LED Lamps and LED Lampholders LED Lampholders can be supplied with or without LEDs



Key Features

Colours and voltages:

○ LED lampholders

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

Supplied with or without LEDs Black or Chrome finish

Voltages: LEDs are available for direct connection to 2.0/2.2V or 12VDC

For other voltages contact sales.

Terminal	Туре	Body Colour	LED Colour	Voltage	Panel Cutout	Approval	Dimensions
W LED fitted A LED not fitted TT L LED & Wires fitted	(W) 1047 00	B Black C Chrome	R Red Y Yellow	1 LED No Resistor 4 6VDC LED	6.3 6.3max		14.5 (+/-0.36) 07.6
W LED fitted A LED not fitted TT L LED & Wires fitted TT	(L) 1048 00		G Green B Blue	5 12VDC LED 6 24VDC LED	8.0 5.5max		-2.0 O9.5
W LED fitted A LED not fitted TT L LED & Wires fitted	(W)1050 00				8.0 7.0max	KEMA	12.4 16.9
W LED fitted T LED & Wires fitted	(L) 1035 0A				4.5 0.9-1.6 T105	KEMA	4.30 1.50 1.50 5.08
W LED fitted TT L LED & Wires fitted	(L) 1036 0A				6.0 0.9-1.6 T105	KEMA	5.85 V 20.0 1.0 0
W LED fitted T L LED & Wires fitted	(L) 1037 0A				6.35 0.9-1.6 T105	KEUA Fli	6.15 ¥ 20.0 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

LED Lamps and LED Lampholders - Sealed to IP67



Key Features Colours and voltages:

O IP67 front bezel sealing

Red, Yellow Green and Blue LEDs.

O LED lampholders

(High Intensity is standard. Option of extra super

Supplied with or without

LEDs

Voltages:

O Black or Chrome finish

LEDs are available for direct connection to

2.0/2.2V or 12VDC.

For other voltages contact sales.

Terminal	Туре	Body Colour	LED Colour	Voltage	Panel	Approval	Dimensions
L LED & Wires fitted	(L) 1048 OA	B Black	R Red	1 LED No Resistor	8.0 5.5max	KEMA	(L) 1048 OA
W LED fitted		C Chrome	Y Yellow	4 6VDC LED	T105		11.0
A LED not fitted	(W) 1048 OA		Green	12VDC LED		KEMA	(W) 1048 OA
			Blue	24VDC LED			2.0
	(L) 1050 OA				8.0 * 7.0max	KEMA	(L) 1050 OA
					T105		13.4
	(W) 1050 OA				8.0 7.0max	Kema	(W) 1050 OA
					7.0max		1.0 13.4 17.9

Properties

Sealing

O-ring sealing equivalent to IP67, of both the LED to bezel, and bezel to panel is available where shown.

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

- O 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
- Q Red, amber, green, blue and clear lenses
- Red, yellow, green, blue and white LEDs
- O Wide choice of styles

Colours and voltages:



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

DC LED



Red, Yellow, Green, Blue, White 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	Туре	Sealed	Illumination	Colour	Voltage	Option	Panel Cutout	Approval
LE	(L) 1041 OS	S Sealed	N -	R Red A	1 LED No Resistor 2 125V Neon	C Chrome Bezel Finish	6.3 5.3max	Keda
LE	(L) 0245 OS		N -⊕- L ∛ M ∛	G Green B	3 250V Neon		7.1 4.6max	KEUA
L	(C) 0275 OS		F ⁻ ⊗- N -⊕- L * M * F -⊗-	(Special) C Clear	4 6VDC LED 5		10.0 11.15max	KEUR
L	(C) 0277 OS		N -⊕- L * M * F -⊗-	R Red	6 24VDC LED		10.0 11.15max	KEUA
L	(C) 0177 OS		N -⊕- L ∛ M ∛ F -⊗-	Y Yellow G Green	7 12/14V Filament 8 24/ 28V Filament		12.7 † 11.15max	Kema
				B Blue W White	9 125/250VAC LED			

(L) 1041 OS







(L) 0245 OS





(C) 0275 OS





(C) 0277 OS





(C) 0177 OS





Technical Information - Indicators



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

IVI (I LI II) (LO
Moulded bodies and bases Nylon 6.6
Metal bodies and bezels
Lenses
Terminals (most types)
Terminals (exceptions)
Threaded metal nuts Brass (nickel plated on 0275/7)
Other fixings
* 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bulgin:

FL2870WL7R FL2950BWL7A FL2951WL7G FL67H8C LE1041WL39007 LE1041WL39017 LE276C5G
LE569WL39007 LH1037OA37007 LH1048BSWL3702 LH1048BSWL37028 LH1048WL3600 LH1048WL3601
LH1050 LH10503700 LH382R NL177C3G NL177C3R NL276C2R NL276C3A NL2870C3R NL579C3G
NL67WL2BL FL276WL8G FL2950BWL7R FL2950WL8A FL568AH7R FL67C7G FL2760K8C FL2950CWL7R
FL589C8R LE177C39027 LE177C39028 LE275CH5A LE278WL5R LE276WL5A LE2950WL5A LE2951WL5R
FL2950BWL8A FL2951WL8R FL589WL8R LE1041WL39027 LE2950WL39018 LE2951WL5G
LH1048BSWL37017/22 LH1048SWL3700 LH1050S LH1050WL3702 LE2870C5R LE2950WL39028
LE568AH39007 LE67C39007 LE67C5C FL67WL7A FL67WL8R LE177C3600 LE177C5C LE177C5R LE275SC5A
LE276C39007 LE2951WL5C LE67C39017 LE67C5A LH1037OAWL37007 LH1037OAWL37047 LH1048BS
LH1048BSWL37007/22 LH1048BWL3602 LH1048BWL37006 LH1050B LH1050BS LH382B LH392C LH692G
LHM62A NL275CWL2A NL276C3G NL276H2R NL2870C2A LE67C5R LH10483702 LH1048B3700
LH1048BWL3701 LH677C NL180AAC3R NL276WL3R FL195BWL8C-14 FL245CWL7G FL2950CWL7A
FL2950CWL7G FL67WL7B L117-RED LE177WL5G LE275SC39008 LE2870C39018 LE67WL39008
LH1048BSS3702 LH1048BWL3601 NL1041WL3A NL177WL2G