

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

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

 Vandal Resistant LED
 345-346

 LED Bezel
 347-351

 Indicator Lights
 352-358

 Low Voltage Lampholders
 359-360

 LED Lampholders
 361

 Indicator Lights IP67
 362-364







Vandal Resistant LED Indicators

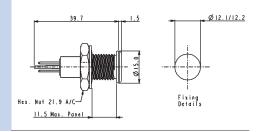


Proud of Panel Profile



DX0505

- Solder Tag/2.8mm Tag Termination
- Sealed to IP67
- Red, Green, Yellow or Blue LED Options
- Wide Viewing AngleShock and Vibration Resistant
- Stainless Steel body



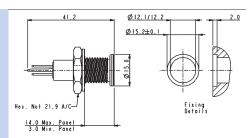
Flush Panel Profile



DX0506

Compliant

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



Specifications	DX0505/Col/Voltage	DX0506/Col/Voltage
Terminations: Forward Voltage:	Solder Tab/2.8mm Tab Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V	Solder Tab/2.8mm Tab 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
LED Voltage:	/12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)	/12 (12V d.c.), /24 (24V d.c.) or /00 (no ballast resistor)

Compliant

Vandal Resistant LED Indicators



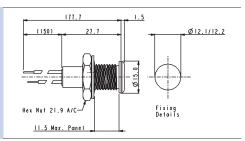
Proud of Panel Profile



Red, Green, Yellow or Blue **LED Options**

Flying Lead Termination Sealed to IP67

- Wide Viewing Angle
- Shock and Vibration Resistant
- Stainless Steel body



DX0507



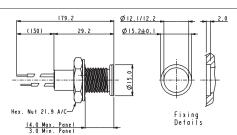


DX0508

/00 (no ballast resistor)

Compliant

- 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, Red 1.85V, Green 2.2V, Yellow 2.0V, Blue 3.8V Blue 3.8V Cont. Forward Current: Red 30mA, Green 25mA, Red 30mA, Green 25mA, (max) Yellow 30mA, Blue 25mA Yellow 30mA, Blue 25mA Power Dissipation: Red 100mW, Green 105mW, Red 100mW, Green 105mW, Yellow 125mW, Blue 120mW Yellow 125mW, Blue 120mW Reverse Current: Red 10µA max., Green 10µA max., Red 10µA max., Green 10µA max., (@Vr = 5V)Yellow 10µA max., Blue 50µA max. Yellow 10µA max., Blue 50µA max. LED Luminous Intensity: Red 2000mcd, Green 100mcd, Red 2000mcd, Green 100mcd, Yellow 400mcd, Blue 1600mcd (typ) Yellow 400mcd, Blue 1600mcd (typ) Operating Temp. Range: -40°C to +80°C -40°C to +80°C -40°C to +85°C Storage Temperature: -40°C to +85°C Protection Classification IP67 to Sealing (Front of panel): Protection Classification IP67 to EN60529:1992+A2:2013 EN60529:1992+A2:2013 Materials Body: Stainless Steel Stainless Steel Polycarbonate UL94V-0 Polycarbonate UL94V-0 Lens: O Ring (external): (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) /RD (Red), /GN (Green), /YL (Yellow) /BL (Blue), with colour coded /BL (Blue), with colour coded /12 (12V d.c.), /24 (24V d.c.) or LED Voltage: /12 (12V d.c.), /24 (24V d.c.) or

/00 (no ballast resistor)

Compliant

5mm LED Indicators

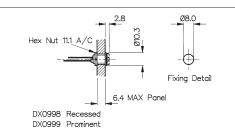






DX0998

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



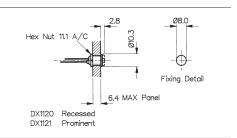
Nylon Bezel



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 212 for LED options and specifications*

5mm LED Indicators



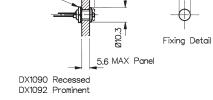
Aluminium Bezel - IP66 Sealed



DX1090

DX1092

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



Hex Nut 11.1 A/C

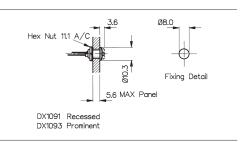
Aluminium Bezel - IP66 Sealed



DX1091

DX1093

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



Cresifications	DV1000 DV1000/Colour/Ontions	DV4004 DV4002/Colour/Ontions
Specifications	DX1090, DX1092/Colour/Options	DX1091, DX1093/Colour/Options
Materials:	Aluminium - Black	Aluminium - Clear
Style:	Recessed (DX1090) Prominent (DX1092)	Recessed (DX1091) Prominent (DX1093)
Operating Temp. Range:	Dependent on LED used	Dependent on LED used
Storage Temperature:	Dependent on LED used	Dependent on LED used
Sealing (Front of panel):	Protection Classification IP66 to EN60529:1992+A2:2013	Protection Classification IP66 to EN60529:1992+A2:2013
Tightening Torque:	0.056Nm (8ozf.in.) min	0.056Nm (8ozf.in.) min
Lead Solder Time:	260°C for 5 seconds max.	260°C for 5 seconds max.
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue), /TR (Tri Colour), /D1 (Dual Colour - Red/Green), /D2 (Dual Colour - Red/Amber), /D3 (Dual Colour - Green/Amber)
Thread Size:	0.312" x 32TPI	0.312" x 32TPI
RoHS	Compliant	Compliant

See Page 212 for LED options and specifications

4mm LED Indicators

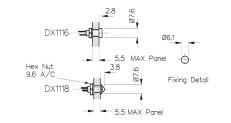


Chrome Plated Brass Bezel



DX1116 DX1118

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

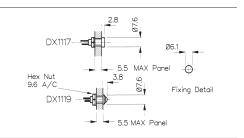


Black Nickel Pated Brass Bezel



DX1117 DX1119

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



Specifications	DX1116, DX1118/Colour	DX1117, DX1119/Colour			
Bezel Materials:	Brass, Chrome Plated	Aluminium, Black Anodised			
Style:	Recessed (DX1116) Prominent (DX1118)	Recessed (DX1117) Prominent (DX1119)			
Operating Temp. Range:	Dependent on LED used	Dependent on LED used			
Storage Temperature: Dependent on LED used		Dependent on LED used			
Lead Solder Time: 260°C for 5 seconds max.		260°C for 5 seconds max.			
LED Colours:	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue)	/RD (Red), /GN (Green), /YL (Yellow), /BL (Blue)			
RoHS	Compliant	Compliant			

See Page 213 for LED specifications*

5mm LED options



5mm LEDs STANDARD

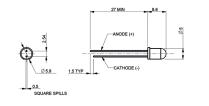
Specification	Red	Green	Yellow	Blue
Luminous Intensity @20mA: Forward voltage: Cont. Forward Current (max):	25mcd 2.0V 30mA	20mcd 2.0V 25mA	20mcd 2.1V 30mA	21mcd 3.5V 30mA
Power Dissipation:	105mW (max) @20°C A	mbient	120mW
Reverse Current: Reverse Voltage:	10μA 5V (max)	10μA 5V (max)	10μA 5V (max)	50μA 5V (max)
Operating Temp:	-4	40°C to +85°C		–20°C to +80°C

/GN

/YL

/BL

/RD



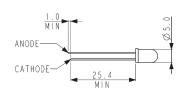
5mm LEDs FLASHING

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:

/GN/02 Part No: /RD/02



5mm LEDs TRI COLOUR

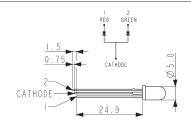
Red/Green/Amber Specification

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) Operating Temp: -40°C to +70°C /TR

Part No:



5mm LEDs DUAL COLOUR

Specifications	Red/Green	Red/Amber	Green/Amber	
Luminous Intensity:	4.5/5mcd	4.5/4mcd	4/5mcd	0.1 MIN 9
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 T
Reverse Voltage:	5V (max)	5V (max)	5V (max)	MIN - RED RED YELLOW
Operating Temp:	,	-40°C to +85°C	,	NED NED TELLOW
Part No:	/D1	/D2	/D3	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)

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:

- O 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



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.



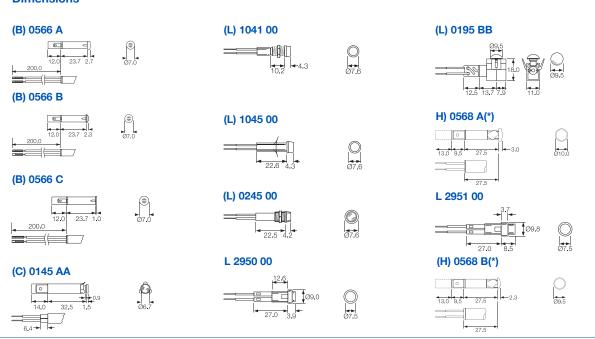
Available with Red, Amber, Green, Clear or Blue lenses 6V, 12/14V, 24/28V.

Terminal	Туре	Sealed	Illumination	Colour	Voltage	Options
B 2.8 🗀 L 🚉	(B) 0566 A	6.0 2.0 max p. 340	N -⊕- L ∛ M ∛	Neon & Filament R Red	1 LED No Resistor	C Chrome Bezel Finish
B 2.8 🗀 L 🚉	(B) 0566 B	6.0 2.0 max p. 340	N -⊕- L ≬ M ∛	A Amber G Green	3 250V Neon	
B 2.8 ===================================	(B) 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 ∜ F -⊗-	LED	6 24Vdc LED	
L E	(L) 1041 00	6.3 6.3max p. 340	Γ	Red Y Yellow	12/14V Filament 8 24/ 28V Filament	
L E W E	(L) 1045 00	6.3 10.0max p. 340	N -⊕- L ∜ M ∜ F -⊗-	G Green B Blue	125/250Vac LED	



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

Dimensions





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.

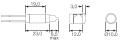
Terminal	Туре	Illumination	Colour	Voltage	Options	Panel	Approva
L E	(C) 0273 00	N	Neon & Filament	1	С	Ø 9.0	91 K554 3
K 2.8		L 🌞	R	LED No Resistor	Chrome	2.0 max	KEDA
H 4.8 C 6.3		M ≬	Red	2	Bezel Finish	p. 340	KEDA KEDA
0.3		F -⊗-	A	125V Neon			
L E	(C) 0278 00	N -⊕-	Amber			Ø 9.0	71 KESH 3
K 2.8		L 👸	G	3		2.0 max	KEDA
H 4.8	6	M 🌦	Green	250V Neon		p. 340	KEUA SP
C 6.3		F -⊗-		4		р. 340	[Keur
L	(C) 0276 AA		Blue	6Vdc LED		Ø 9.5	71 K## 3
K 2.8	(O) 0210 AA	N	(Special Order)			9.5	KEDA
H 4.8		L ≬ M ∮	C	5		\cap	KEDA
C 6.3		F -⊗-	Clear	12Vdc LED		p. 340	KENA
3				6		\sim	71 Keta (1
L	(C) 0275 00	N -⊕-		24Vdc LED		Ø 10.0	KEUR GE
H 4.8		L 🙀		_		12.0	KEDA SE
C 6.3		M ≬ F-⊗-	LED	7		p. 340	KEDA
			R	12/14V Filament			
L E	(C) 0275 00	N	Red	8		Ø 10.0	91 Keda 3
K 2.8		L 👙	Y	24/ 28V Filament		11.5 max	Keua st
H 4.8 C 6.3		M ≬ F -⊗-	Yellow	9		p. 340	KEDA
0.0		F -⊗-	G	125/250Vac LED			
			Green				
			В				
			Blue				



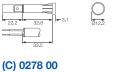
K 2.8 □ L ⊕ Red 2 Chrome Bezel Finish 2.8 max 1.2 max 1.2 max 1.2 max 1.0 max	Terminal	Туре	Illumination	Colour	Voltage	Options	Panel	Approval
K 2.8 → H 4.8 → C 6.3 → C 10.0 277 00 N → H 1.8 → C 1.250 Neon Chrome Bezel Finish Chrome Bezel Finish 10.0 M 1.2 → M 1.2 M	L E	(C) 0276 00	N	Neon & Filament	1	С	α	
H 4.8 □ C 6.3 □ C 0 0277 00 N □ Amber Amb	***		L 🕏	R	LED No Resistor	Chrome	\sim	SAT KEDA 🐠
C 6.3 □ Amber Amber Amber January 10.0 N - □ - In	H 4.8	Company of the Compan			2	Bezel Finish	2.8 max	KEDA SP
C C C C C C C C C C	C 6.3		F -⊗-				p. 340	KENA
K 2.8 □ L ⊕ G 250V Neon 10.0 M H 4.8 □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ C 6.3 □ D 9.340 D 9.340 L □ □ D 9.340		(0) 0077 00			120 / 140011			
K 2.8 □ H 4.8 □ Green 250V Neon 12 max 12 max </td <td></td> <td>(C) 0277 00</td> <td></td> <td></td> <td>3</td> <td></td> <td>Ø 10.0</td> <td>AN KENA 🐠</td>		(C) 0277 00			3		Ø 10.0	AN KENA 🐠
C 6.3				G			12 max	KEDA
C D273 LL N D Blue (Special Order) D10.0 N D D2.0 D				Green				Kena
C D273 LL	0.3		F ○	В	4		p. 340	Keur
K 2.8 → L ÷ (Special Order) H 4.8 → C C G.3 → 12Vdc LED C 6.3 → C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C Clear C C C C C Clear C C Clear C C Clear C C C C C C C Clear C C C C Clear C C C C Clear C C C C C C C C C C C Clear C C C C C C C C Clear C C C C C C C C C C C C C C C C C C C	ı Þ-	(C) 0273 LL	N -⊕-	Blue	6Vdc LED		0.4	
H 4.8 □ (C) 2820 00	**		=	(Special Order)	_		. –	AN KENA ®
Clear C		0		C			0.6-2.0	KEDA
L	C 6.3		F -⊗-	Clear	12Vdc LED		p. 340	Kena
L					6			
K 2.8 H 4.8 □ C 6.3 □ I F R 12/14V Filament Red 8 Y 24/28V Filament Y 24/28V Filament Y 9 G 125/250Vac LED G 125/250Vac LED F 0.8-1.5		(C) 2820 00	N				(/) 12 D	71 KESA (P
C 6.3 □ P. 340 C C C C C C C C C			L 💨				, _	KEDA
C 2821 00				LED	7			KENA
L	C 6.3		F -≪-	R	12/14V Filament		p. 340	KEDA
K 2.8 □ Y 24/28V Filament H 4.8 □ Yellow 9 C 6.3 □ G 125/250Vac LED L □ C 0.8-1.5 E D 0.8-1.5	ı »=-	(C) 2821 00	N -A-		8			_
G		(0, 2021 00	_	V	_		12.0or12.	
F → Green L	"			_			012.0 012.7 012.7	KEDA SI
G 125/250Vac LED L			F -⊗-		9			KENA
K 2.8 B L ** B M ** 0.8-1.5	44			G	125/250Vac LED			Keur
K 2.8 B	L E	(C) 0586 00	N	Green			(2) 10.5	91 KESA ©
H 4.8			L 💨	В			,	KENA
Dide	H 4.8		AU.	Blue			0.8-1.5	KEDA 👀
C 6.3 □ F-⊗-	C 6.3		F -⊗-				p. 340	KENA

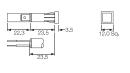
Dimensions

(L) 0569 AW





















(C) 0273 LL











(C) 2821 00





(C) 0586 00







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:



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	N -⊕- L ∛ M ∛ F -⊗-	Neon & Filament R Red	1 LED No Resistor 2 125V Neon	C Chrome Bezel Finish	12.7 0.75-2.0 P. 340	KIGA KIGA
L	C) 0589 00	N -⊕- L ∛ M ∛ F -⊗-	A Amber G Green	3 250V Neon		12.7 † 0.8-1.5 p. 340	KIGA KIGA KIGA
L E	L 0081 00	N -⊕- L * M * F -⊗-	B Blue (Special Order) C	6Vdc LED 5 12Vdc LED		9.5 p. 340	KIGA &
L	(C) 0177 00	N -⊕- L ∛ M ∛ F -⊗-	LED R	6 24Vdc LED 7 12/14V Filament		12.7 12.0max p. 340	Micea (S) Kega Kega Kega
L	(C) 0067 00	N - ()- L † M † F -⊗-	Red Y Yellow	8 24/ 28V Filament 9 125/250Vac LED		12.7 1.14 max p. 340	MICHAELE CONTRACTOR CO
C 6.3	(C) 0180AA	N -	Green B Blue			12.7 19.0 max p. 340	NI KEE



Terminal	Туре	Illumination	Colour	Voltage	Options	Panel	Approval
L	(C) 0180BB	N -⊕- L ∛ F -⊗-	Neon & Filament R Red	1 LED No Resistor	C Chrome Bezel Finish	13.5 0.9-1.14 p. 340	KEEL S
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 14.0 2.5 max p. 340 19.0 4.0max p. 340	KEER KEER
			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





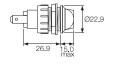


(C) 0067 00





(C) 1092









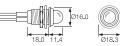




(C) 0180AA





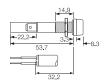






(C) 0177 00

L 0081 00





(C) 0180BB





(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
- 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



operation.

FILAMENT



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

Terminal	Туре	Illumination	Colour	Voltage	Options	Panel	Approval
LE	L 0234 00	N -⊕-	Neon & Filament R Red	1 LED No Resistor 2 125V Neon	C Chrome Bezel Finish	18.2/18.3 × 6.2/6.3· 2.0-3.5 P. 340	71 KEE 3
L H	L 0233 00	N ⊕	Amber G Green B Blue (Special Order) C Clear LED R Red Y Yellow G Green B Blue	3 250V Neon 4 6Vdc LED 5 12Vdc LED 6 24Vdc LED 7 12/14V Filament 8 24/ 28V Filament 9 125/250Vac LED		9.27/9.50	

Dimensions

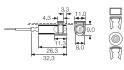
H 0581 AY



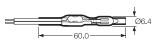




L 0234 00



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).

○ Linestra/Philinea lamp holder

Terminal	Туре	Colour	Options	Panel
T	T0061 00 (LES)	Neon & Filament	C Chrome	9.5
		Red	Bezel Finish	0.9-1.14
C	(C) 0067 00	Amber		Ø 12.7
		G Green		1.14max
T 6.3	(T) 0062 A0	Blue (Special Order)		Ø 12.7
		C Clear		9.6max T85
T	(C) 0062 M0	LED		Ø 12.7
		Red		9.6max T85
S OFF	(S) 0095 00	Yellow		
		G Green		0
		B Blue		T85

T0061 00 (LES)















(C) 0067 00





(S) 0095 00



(C) 0062 M0





Large Low Voltage Lampholders









P1090FL - - -

Key Features

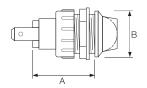
- O Up to 50V
- MES or MBC bulb
- Flat and domed lens
- Brass or nylon bodies
- Red, Amber, Green, Blue and Clear lenses

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	Туре	Colour	Options	Panel	Lens
C 9.1 6.3 x 0.8 T 02.0 9.1 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) 1048 00	B Black — Blank	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	(L) 1048 0A		G Green B Blue	5 12Vdc LED 6 24Vdc LED	8.0 5.5max T105		-2.0 Ø9.5
W LED fitted A LED not fitted TT L LED & Wires fitted	(W) 1050 0A				8.0 7.0max	KEMA	12.4 16.9 010.0
W LED fitted T L 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
W LED fitted T LED & Wires fitted	(L) 1037 0A				6.35 0.9-1.6 T105	KENA	6.15 V 20.0 V 4.0 V 7.9 V

LED Lamps and LED Lampholders - Sealed to IP67



Key Features Colours and voltages:

○ IP67 front bezel sealing

Colours:

○ LED lampholders

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

O Supplied with or without

○ Black or Chrome finish

LEDs

Voltages:

LEDs are available for direct connection to

2.0/2.2V or 12Vdc.

For other voltages contact sales.

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

Properties

Sealing

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

Polarity

The nylon base mouldings are polarity marked.

Body Material and Finish

Chromed brass or Black oxide coated brass.

Lampholders only Items prefixed 'A' are supplied without LEDs.

LED wires or PVC covered wire leads 125mm min length wires, 6.3mm standard strip. Alternative colours, length and strip available.

Indicator Lights - Sealed to IP67



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
- Red, amber, green, blue and clear lenses
- O 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
L E	(L) 1041 OS	S Sealed	N -⊕- L * M * F -⊗-	R Red A Amber	1 LED No Resistor 2 125V Neon	C Chrome Bezel Finish	6.3 † 5.3max	Kena
LE	(L) 0245 OS		N - ⊕- L ** M ** F -⊗-	G Green B	3 250V Neon		7.1 4.6max	KEMA
L C 6.3 F K 2.8 D H 4.8	(C) 0275 OS		N -⊕- L * M * F -⊗-	(Special) C Clear	4 6Vdc LED 5 12Vdc LED		10.0 11.15max	Keur
L C 6.3 K 2.8 C H 4.8 C	(C) 0277 OS		N -⊕- L ∛ M ∛ F -⊗-	R Red	6 24Vdc LED		10.0 11.15max	KEMA
L 6.3 C 4.8	(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			(C)	0275 OS		(C) 0177	os	







(L) 0245 OS









(C) 0277 OS









Low Voltage Lamp Holders - Sealed to IP67



Key Features

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

Colours and voltages:

These lampholders are suitable for up to 50V max.

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

Field installable filament lamps. See each series for the appropriate type.

Terminal	Туре	Sealed	Colour	Options	Panel	Approvals	Dimensions	5
C 6.3	C1090 FPS (MES)	S Sealed	R Red A Amber	Chrome Bezel Finish	19.0 4.0max	Kena	30.2 12.5 max	
C 6.3	C1091 FQS (MBC)		G Green B Blue (Special)		7.1 4.6max	KETA	35.0 12.5 max	
T 🍃	T0062 AOS (Midget flange) Chrome bezel T0063 AOS (LES) Chrome bezel		C Clear		10.0 † 11.15max	KEUA	21.3 9.1	Ø14.7
T 🏳	T0062 MOS (LES & Midget flange) T0063 MOS (LES)				10.0 11.15max	KEUA	21.3 9.5	Ø14.7

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



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

1VI) (1 E1 (I) (E0	
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 nick	kel plated terminals with steel screws

TEMPERATURE RATING

and plated polyamide bezel trims

Authority	with Terminals	with Wire leads		
		PVC	SILICONE	
European	T125°C	T105°C T125°		
UL	T65/75°C	T65/75°C		

SYMBOLS

Terminals C 6.3, H 4.8, K 2.8

Wire leads
200mm long Standard









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