

## SECTION 1 ONLINE CATALOGUE

LED INDICATION  
PILOT LIGHTS  
SEMAPHORES  
SEGMENT DISPLAYS

### INDICATORS



This guide is aimed at assisting the user and specifier to obtain the best possible indicator lamp for their application. This guide covers LED Indicators and Pilot Lights only. Mimic Components also offer a full range of NEON Pilot Lights for lower cost, less demanding applications. Neons offer a big price advantage in the higher voltages, but are very dim, are not available in green, suffer from residual glow and do not last as long as LEDs. They are ideal for domestic applications and simple "power on" indications on power supplies etc...

Mimic Components pioneered the use of LED Pilot Lights in South Africa, and with 15 years experience in indicating devices, is well qualified to comment on the practical applications of pilot lights.

This guide is biased toward practical applications: Pilot Lights are arranged in order of cutout size. Some lamps are made especially for  $\phi 30\text{mm}$  but we also offer an adaptor which converts  $\phi 22\text{mm}$  lamps to  $\phi 30\text{mm}$  (YADP30 on pg 1.4).

IT IS MOST IMPORTANT TO BEAR IN MIND THE OPERATING VOLTAGE, AS THIS PREDETERMINES THE VARIETY AND TYPE OF PILOT LIGHT TO BE USED. In the lower range (24V) all of our lights are suitable. In the higher range (220V) only selected lights are suitable, due to the large resistors or voltage converters required for LEDs which operate at approx. 2V per chip.

We also offer AC/DC (universal AC or DC on the same device) and only DC, so care must be taken in fully specifying the available voltage and current.

It is a common misconception that Cluster LEDs need to be paralleled to obtain greater reliability. This is not necessarily so; LEDs in series offer the advantage of reduced power consumption and, in the very remote chance of failure, they usually fall into short circuit and thus the others continue to operate.

It is now well accepted that LEDs offer the best illumination / lifetime compromise. They may not be as bright as filaments, but have been found to be very adequate and have a proven reliability 50 times greater than that of filament lamps.

LEDs also have a MTBF (Mean Time Between Failure) of approx. 15 years compared with a typical filament bulb MTBF of one month. LEDs consume less power, generate negligible heat, are immune to vibration and can often withstand severe over voltage.

Also included is Mimic Crafts Alarm Indicators which are efficient and aesthetically pleasing on operator information panels. These can be made up in configurations to suit almost any requirement. They are the modern way to display important PLC or other information. In many cases they are far superior to pilot lights and labels as the label is an intrinsic part of the indicator.

### LED INDICATORS

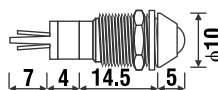
#### KRE105

Chrome plated LED indicators with built in resistor and Solder connections.

Cutout:  $\phi 8\text{mm}$

24V DC

Colours: Red, Green or Yellow



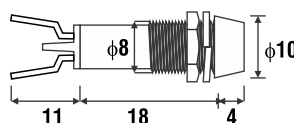
#### ADLED8

Chrome plated LED indicator with built in resistor and solder connections.

Cutout:  $\phi 8\text{mm}$

12V, 24V, 48V DC

Colours: Red, Green, Yellow also available in Blue or White



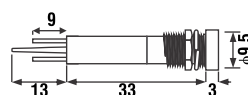
#### LD1950

Chrome plated LED indicators with built in resistors and 2.8mm fast-on industrial terminations

Cutout:  $\phi 8\text{mm}$

130, 230V AC

Colours: Red, Green or Yellow



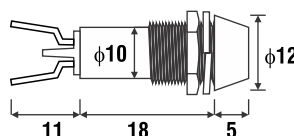
#### ADLED10

Chrome plated LED indicator with built in resistor and solder connections.

Cutout:  $\phi 10\text{mm}$

12V, 24V, 48V DC

Colours: Red, Green, Yellow also available in Blue or White



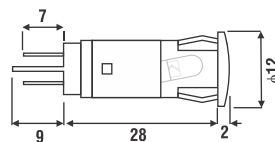
## SKGU....



S - Normally Stock  
L - Limited Stock  
O - Ex Order

Quick & economical snap in mounting.  
Transparent housing  
Super-bright LED's  
2.8mm fast-on industrial terminations

Cutout:  $\phi 10\text{mm}$   
24, 230V AC  
Colours: Red, Green or Yellow



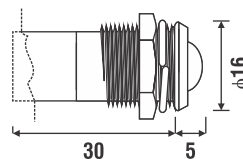
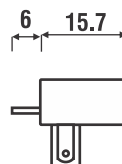
## LD14....

Chrome plated LED indicator using a high tech single 10mm LED with 2.8mm fast-on industrial terminations.

Cutout:  $\phi 14\text{mm}$   
Colours: Red, Green or Yellow

Plug in transformer:-

**AT4000-24D** (24VAC/DC)  
**AT6000-48B** (48-60VAC/DC)  
**AGT700-130B** (130VAC/DC)  
**AGT800-230B** (230VAC/DC)



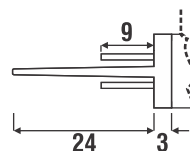
## LD1930

Chrome plated LED indicator using a high tech single 10mm LED with 2.8mm fast-on industrial terminations.

Cutout:  $\phi 14\text{mm}$   
Colours: Red, Green or Yellow

Plug in transformer:-

**AT4000-24D** (24VAC/DC)  
**AT6000-48B** (48-60VAC/DC)  
**AGT700-130B** (130VAC/DC)  
**AGT800-230B** (230VAC/DC)



## KP142F (Body)

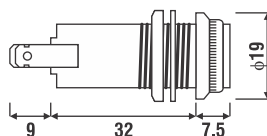
## LN142F2-W (White Lens)

Cutout:  $\phi 16\text{mm}$

12, 24, 48, 110 & 220VAC/DC  
30V DC

Colours: Milky White lens which changes colour when the led lights up.  
See Pg8 for E10 Led options

Japanese made lamp-holder which uses a  $\phi 10\text{mm}$  E10 multichip LED.  
This unit can be made IP65 & vandal proof by using lock-tight to secure the removable lens. The LED is then replaceable from the rear.

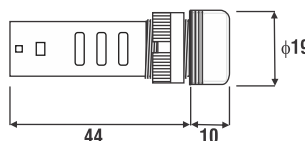


## ND16

Cutout:  $\phi 16\text{mm}$   
Voltages: 12V, 24V, 32V, 48V, 110V & 220V

Colours: Red, Yellow, Orange, Green, Blue & White

These Pilot lights offer really excellent value, they use new technology LED's available in bright true colours.  
The lens has a diffuser which lights up well and gives even illumination which is very visible even from a 90° angle.



## LD16....



S - Normally Stock  
L - Limited Stock  
O - Ex Order

Cutout:  $\phi$ 16mm

Plug in transformer:-

**AT4000-24D** (24V AC/DC 14mA)

**AT6000-48B** (48V AC/DC 14mA)

**AGT700-130B** (130V AC/DC 6mA)

**AGT800-230B** (230V AC/DC 6mA)

Colours: Red, Green or Yellow

HIGH QUALITY  
EUROPEAN



The IP 65 MULTI-LOOK LED- element shows a high luminous intensity in connection with the reflector. Solid metal housing with exchangeable screw cap.

Already with interior sealing ring and reflector.

Connections:

\* Bare tab terminals 2.8 x 0.8mm

## D16PL....(Indicator Pushbutton)

## DECA

- Size: 18mm, 18x18mm, 18x24mm
- Head Shape: Round, Square, Rectangular
- Various options of different switch type: Standard, Hinge edge
- Terminal: Soldering/Plug-in type
- Lighting: Incandescent 6V AC/DC 200mA, 14V AC/DC 80mA, 28V AC/DC 40mA, 48V AC/DC 25mA,
- 60V AC/DC 200mA, 33V AC/DC 35mA, 6V AC/DC 40mA
- 14V AC/DC 40mA
- Neon Lighting: 110, 220V AC
- LED Lighting: 6, 12, 24V DC
- Lens colours: Blue, Green, Orange, Red, White or Yellow
- Function: Alternate / Momentary
- Contact: 1NO+1NC



## KRE216 F



S - Normally Stock  
L - Limited Stock  
O - Ex Order

KimDen

Not recommended for new projects and designs

Cutout:  $\phi$ 16mm (Dome Lens)

Resistor block with M16 neck (panel portion). 2 superbright Leds give this pilot light excellent front & sideviews. The front lens/Led can be clipped out to change colour.



## KRE216 A



S - Normally Stock  
L - Limited Stock  
O - Ex Order

Not recommended for new projects and designs

Cutout:  $\phi$ 16mm (Flat Lens)

Colours: Red, Green, Yellow, Amber & White  
Voltage: 12, 24, 30, 48, 60, 110 & 220VAC/DC



## KRE222A



S - Normally Stock  
L - Limited Stock  
O - Ex Order

Dome Lens

Cutout:  $\phi$ 22mm

Voltages: 12, 24, 30, 48, 60, 110, 220V AC/DC



## KRE222F



S - Normally Stock  
L - Limited Stock  
O - Ex Order

Flat Lens

Cutout:  $\phi$ 22mm

Voltages: 12, 24, 30, 48, 60, 110, 220V AC/DC

Colours: Red, Green, Yellow, Amber or White

YADP30A/B Collar options available



Four super-bright LEDs give this top of the range pilot light excellent front & side views.

The front lens/LED can be clipped out to change colour.

KRE316



S - Normally Stock  
L - Limited Stock  
O - Ex Order

HIGH QUALITY  
JAPANESE

- Model: KRE-316A (dome lens)
- KRE-316F (flat round lens)
- KRE-316Q (square lens)
- KRE-316H (rectangle lens)

Cutout: Ø16.2mm

- Lighting Method: Resistor type multi-chip LED
- Rated Voltage: 12V AC/DC, 24V, 48V (±10%)
- Rated Voltage: 110V AC/DC (90~121V AC/DC)
- Rated Voltage: 125V AC/DC (±10%)
- Rated Voltage: 220V AC/DC (180~242V AC/DC)
- Rated Current: 4~6mA

Protection: Dome and Flat (IP65)

Square and Rectangle (IP40)

Lighting Colour: Milky White, red, green, orange, yellow and transparent

Weight: 15g

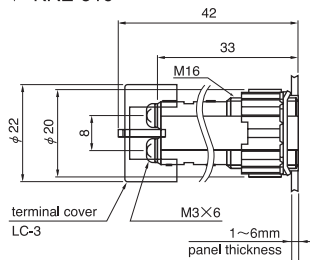
Lens Shape: Dome, round flat, square and rectangle

Bezel Colour: Black

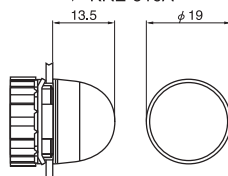
Lens: Polycarbonate resin(milky white, red, green, orange, yellow and transparent)

- Greater brightness obtained by adding a lens with knurling
- Wide angle of visibility, clearly seen from the side when lit
- Terminal protection cover can be attached (optional)

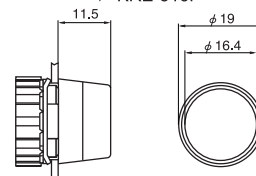
▼ KRE-316



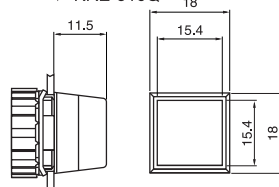
▼ KRE-316A



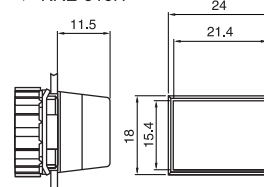
▼ KRE-316F



▼ KRE-316Q



▼ KRE-316H



KRE322

- Model: KRE-322A (dome lens)
- KRE-322F (flat round lens)
- KRE-322Q (square lens)
- KRE-322H (rectangle lens)

Cutout: Ø22.3mm

- Lighting Method: Resistor type multi-chip LED
- Rated Voltage: 12V AC/DC, 24V, 48V (±10%)
- Rated Voltage: 110V AC/DC (90~121V AC/DC)
- Rated Voltage: 125V AC/DC (±10%)
- Rated Voltage: 220V AC/DC (180~242V AC/DC)
- Rated Current: 4~6mA

Protection: Dome and Flat (IP65)

Square and Rectangle (IP40)

Lighting Colour: Milky White, red, green, orange, yellow and transparent

Weight: 22g

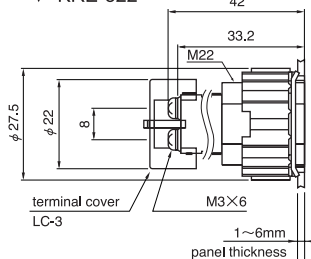
Lens Shape: Dome, round flat, square and rectangle

Bezel Colour: Black

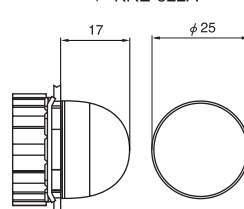
Lens: Polycarbonate resin(milky white, red, green, orange, yellow and transparent)

- Greater brightness obtained by adding a lens with knurling
- Wide angle of visibility, clearly seen from the side when lit
- Terminal protection cover can be attached (optional)

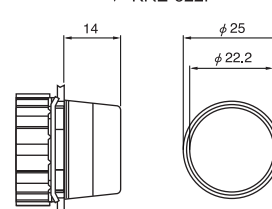
▼ KRE-322



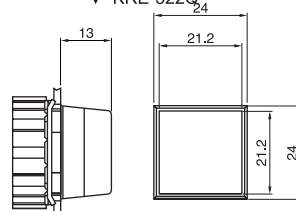
▼ KRE-322A



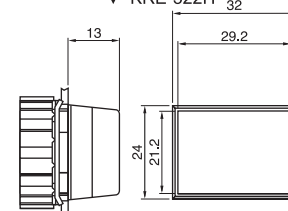
▼ KRE-322F



▼ KRE-322Q



▼ KRE-322H



**MAC22**



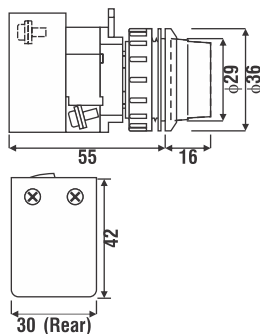
S - Normally Stock  
L - Limited Stock  
O - Ex Order



Cutout:  $\phi 22\text{mm}$   
Voltages: 110, 220, 380,  
500V-600V AC Only

Colours: Red, Green, Yellow, Orange, Blue, Clear or Milky White.  
(Green LED with a Blue lens) (Yellow LED with a Clear or White lens).

With multichip "Based" led lamp. A locally developed AC ONLY unit that generates less heat. It is totally enclosed in a light green & uses an 8 chip "multichip" BA9S bayonet LED element.



YADP30A Collar



YADP30B Collar

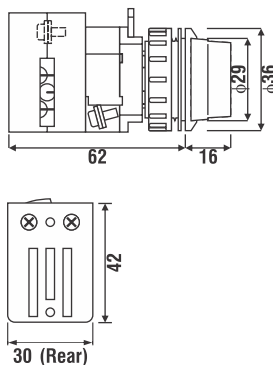
**MRE22**

Overvoltage protection

Cutout:  $\phi 22\text{mm}$   
Voltages: 110, 220V AC/DC

Colours: Red, Green, Yellow, Orange, Blue, Clear or Milky White.  
(Green LED with a Blue lens) (Yellow LED with a Clear or White lens).

MRE22 with multi chip "Based" led lamp. These medium cost units are proving an ideal replacement for filament lamps due to its 15 YEAR expected life. The operating voltage supplied to the LED is limited to 24V, thus protecting the LED element against "over-voltage" conditions. (This is also an important safety consideration as the voltage on any accessible part is limited to 24V DC).



YADP30B Collar



Standard No Collar

**SRE22**

As per MRE22 but with new super single chip "BA9S LED".

**YADP30A chrome** Cutout:  $\phi 30\text{mm}$

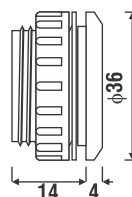
These  $\phi 30\text{mm}$  adaptor for all our  $\phi 22\text{mm}$  Indicators and Pushbuttons.

(A) This is a chrome-plated collar which allows the MAC/MRE/KRE222 to fit into a  $\phi 30\text{mm}$  cutout.



**YADP30B black** Cutout:  $\phi 30\text{mm}$

(B) This is a black collar which allows the KRE 222 F/A/ND22/DC/DT to fit into a  $\phi 30\text{mm}$  cutout.



ND22...



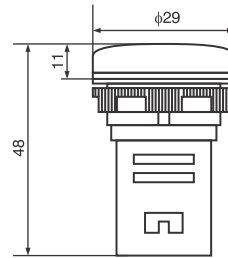
S - Normally Stock  
L - Limited Stock  
O - Ex Order

LED INDICATOR LIGHT

The ND22 series indicators adopt super bright LED technology with low energy consumption. The special locking nut structure allows this indicator to be used for either a  $\phi 22.5\text{mm}$  or a  $\phi 25.5\text{mm}$  panel cut-out. Degree of protection is IP65. (The LED is not replaceable).

- Two types of lens are available for all models.
- Low profile translucent fresnel type.
- High profile fully diffused smooth type.
- $\phi 30\text{mm}$  cut-out adaptor available - see YADP30.
- Colours: Red, Green, Yellow, Orange, Blue or White.

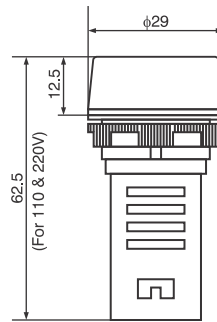
<b>ND22-BS</b>	AC/DC 6V (ex indent)
<b>ND22-BS</b>	AC/DC 12V
<b>ND22-BS</b>	AC/DC 24V
<b>ND22-BS</b>	AC/DC 32-36V
<b>ND22-BS</b>	AC/DC 48V
<b>ND22-B</b>	AC/DC 110V
<b>ND22-B</b>	AC/DC 220V
<b>ND22-B</b>	AC 380V (ex indent)



Low profile lens on Low profile base



Low profile lens on High profile base



High profile lens on High profile base



High profile lens on High profile base

A20P...

DECA

PILOT LIGHTS

A premium high quality range of  $\phi 22\text{mm}$  Pilot lights suitable for all applications. DECA is a world renowned supplier for multiple European first tier companies.

- Cutout  $\phi 22\text{mm}$
- Rated 250 V AC/DC
- Uses BA9 lamp inserts.
- Degree of Protection Ip20
- Ease of assembly
- Wider Light distribution
- Colours: Amber, Blue, Clear, Green, Red, Yellow

LOW PROFILE  
OPTICAL LAYERED

EXTENDED



DOME

LOW PROFILE  
MARKING TYPE

AD26B-22VM

VOLTAGE INDICATION PILOT LIGHT

- Cutout  $\phi 22\text{mm}$
- Operating diameter: 22mm
- Brightness:  $\geq 110\text{cd/m}^2$ , Three LED digits
- Emitting Colour: Red, Green, Yellow, White, Blue
- Measuring Range: AC15V - 500V
- Frequency: 50/60Hz
- Insulation resistance: Greater than 20mW
- Operational temperature:  $-20^\circ\text{C} \sim +55^\circ\text{C}$
- Operational humidity: 45% to 90%
- Pollution grade: 3
- Protection grade: Ip65
- Super pure colour chips
- 100% 48 hour high-low temperature life time testing before shipping
- Certificate: CCC, CE, ROHS, ISO9001



## XB2



S - Normally Stock  
L - Limited Stock  
O - Ex Order

## PILOT LIGHTS

Cutout:  $\phi 22\text{mm}$

- BV61** White, Direct Connection, 6~380V
- BV63** Green, Direct Connection, 6~380V
- BV64** Red, Direct Connection, 6~380V
- BV66** Blue, Direct Connection, 6~380V
- BV65** Yellow, Direct Connection, 6~380V
- BV66** Blue, Direct Connection, 6~380V
- BV71** White, Resistance, 220V, Supplied with a 110V BA9S Red Neon
- BV73** Green, Resistance, 220V, Supplied with a 110V BA9S Green Fluorescent
- BV74** Red, Resistance, 220V, Supplied with a 110V BA9S Red Neon
- BV75** Yellow, Resistance, 220V, Supplied with a 110V BA9S Red Neon
- BV76** Blue, Resistance, 220V, Supplied with a 110V BA9S Red Neon.

BA9S Lamp Holder(see page 1. 8 for LED selection)



## XB4

Np4 series of buttons for AC 50Hz or 60Hz, voltage up to 380V, 220V DC voltage to the circuit control system. As electromagnetic starter, contactor, the relays and other electrical control circuit used. With light buttons are also applicable to light signals indicative of the occasion



## QXJL5 (Black)

## QXJL5DG (Charcoal)

- Lenses and nameplates to be ordered separately
- Mounting diameter: 24 x 24 mm
- Degree of protection: IP65
- Protection class: II (protective insulation)
- Shape: square
- Connection type: flat-plug connections
- Illumination: Yes
- Lamp socket: T5,5K
- With labeling option: Yes
- Front bezel: Black / Charcoal



## A0271

Cutout: 29,5 x 21,5mm

Lamp: Midget Groove Lamp or LED (MG T1¼)

Voltages:

Lamp: 14, 28, 48, 50 & 60V AC/DC

Neon: 110, 220V AC Red

Flourescent : 110, 220V AC Green

LED: 6 chip 12, 24 & 48V AC/DC - Red, Green or Yellow

LED: 1 chip 24V DC - Red, Green, Yellow or White.

Colours: Red, Green or White (Other colours available ex - indent)



## LE50BC

Cutout:  $\phi 50\text{mm}$

Voltages: 24, 32, 48, 60, 110 & 220V AC/DC

Also available for 380V & 500V AC encapsulated

Colour: Red (Red lens), Orange, Green or Yellow (Clear lens)

This is a 16 LED insert with a B22 base for the Crab tree MCR 50 pilot light. This "insert" can be supplied alone or with the Crab tree holder. The 16 super-bright LED's provide good illumination for lock-light boxes etc...E27 screw base also available.



**ADDA**

**ERS-22**



S - Normally Stock  
L - Limited Stock  
O - Ex Order



**SEMAPHORES**

- Cutout:  $\phi 22\text{mm}$
- Voltages: 24, 32, 60, 110 & 220V DC Only
- Direct connect
- Colours: Red (Large bar),  
Deep Green (Side bars). Other colours on special order
- Current: 4mA

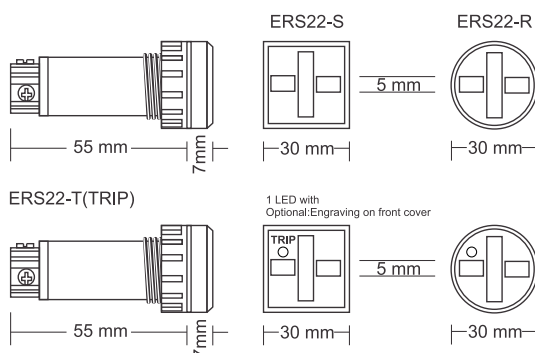


**ADDA ERS-22-LP**

- New low profile bezel matches with the ND22 low profile pilot light range.

These top of the range LED Semaphores have large, bright, even bars using high bright Red & Green SMD LED's to rear illuminate the white bars. They are available with round or square bezels & have a standard  $\phi 22\text{mm}$  thread. These Semaphores give you an automatic status indication of circuit breakers, isolators & earth switches on mimic diagrams of control panels. A wide range of voltages are available from 24 to 220VDC. Other colours other than Red & Green can be done on special order.

- Power consumption only 4mA.
- Top of the range Semaphore.
- Large bright, even bars with particularly good green (True Green).
- Ultra bright direct view LED's (not film like other types)
- this mean that less power can be used and brighter clearer definition is obtained.
- Totally encapsulated thus electronics cannot corrode and heat is well dissipated.
- EX rated models on special order.
- New low profile bezel matches with the ND22 low profile pilot light range.



**ADDA MSR22**

NON-STOCK  
SERVICE ITEM ONLY

Cutout:  $\phi 22\text{mm}$   
24, 32VDC, 17mA  
Colours: Red & Green

**ADDA MSR22A**

Cutout:  $\phi 22\text{mm}$   
24, 32VDC, 17mA  
Colours: Red & Green

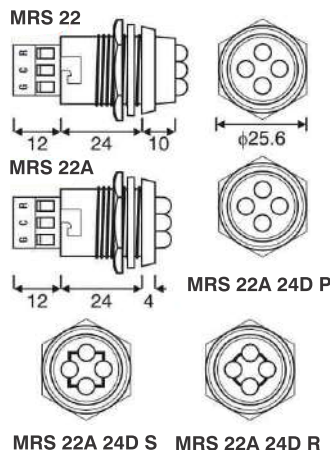
**SAKRR1**

110VDC-2 RESISTOR TERMINALS

**SAKRR2**

220DC-3 RESISTOR TERMINALS

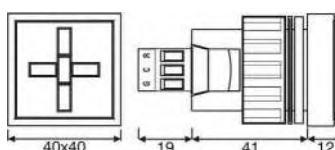
(Other voltages are available when using external DIN terminals fitted with a resistor).



**ADDA KP33**

Cutout:  $\phi 30\text{mm}$   
24, 32VDC, 17mA  
Colours: Red & Green

(Other voltages are available when using external DIN terminals fitted with a resistor).  
110VDC-2 RESISTOR TERMINALS / 220DC-3 RESISTOR TERMINALS



## LBS050



S - Normally Stock  
L - Limited Stock  
O - Ex Order

## SEMAPHORES

Low current Electro mechanical semaphore

Cutout: Ø40.5mm

Bezel: Ø48mm

Burden: 30mA (typical)

Rated Voltage: 24, 30V DC

Operating Voltage: 24/30V DC: No resistors

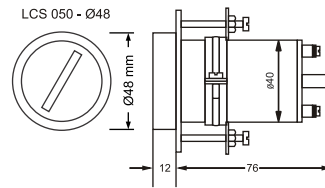
110V DC: Connect 3k Ohms resistor to centre terminal

220VDC: Connect 9k Ohms resistor to centre terminal

Range(burden): 0.5W at 24V to 4W at 220V

Insulation: 2kV RMS, 50Hz for 1 minute or 2.5kV RMS, 50Hz for 1 second between all terminals and case.

Cutout: φ40.5mm



## LBS063

Low current Electro mechanical semaphore

Cutout: Ø40.5mm

Bezel: Ø63mm

Burden: 30mA (typical)

Rated Voltage: 24, 30V DC

Operating Voltage: 24/30V DC: No resistors

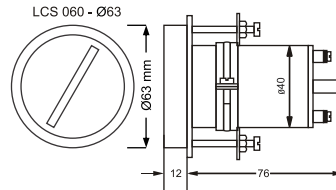
110V DC: Connect 3k Ohms resistor to centre terminal

220VDC: Connect 9k Ohms resistor to centre terminal

Range(burden): 0.5W at 24V to 4W at 220V

Insulation: 2kV RMS, 50Hz for 1 minute or 2.5kV RMS, 50Hz for 1 second between all terminals and case.

Cutout: φ40.5mm



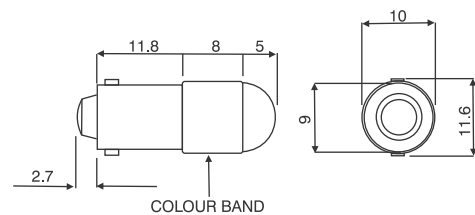
## A09BA1

## LED LAMP REPLACEMENT

Superbright single chip technology ba9s led lamps

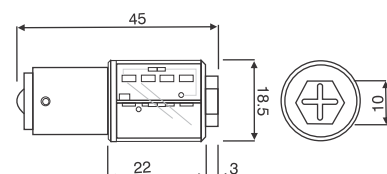
- Part No: A09BA1 - (voltage) - (colour)
- Newest Technology
- Wide Viewing Angle 130° (Equivalent to Multichip Types)
- Vibration Resistant
- Low Power
- Long Life
- E10, E12 & E14 types available with similar specs.
- BiPolar (AC/DC) 24, 110 & 230V
- 5 Colours  
(Red, True Green, Yellow, Real Blue or White)

This product uses High efficiency Led materials. Every Lamp is made with an advanced optical grade epoxy offering superior high shock and temperature resistance. The 130° round radiation pattern and high luminous intensity ensure that these devices are perfect for applications where a wide field of view and readability in high ambient lighting conditions is required. These lamps are in some instances suitable for shaded outdoor operating conditions.



## LED LAMP SSTAR II

- Shock & vibration proof.
- Life expectancy (min 100, 000 hours).
- Increased reliability through dispartment of the LED's in two split electrical circuits.
- Integrated over voltage protection.
- Power: 1 W at 24 V
- E14, BA15s or BA15d.
- 24/28V, 130V & 230VAC/DC
- Colours: Red, Green, Yellow, Blue or White.





S - Normally Stock  
L - Limited Stock  
O - Ex Order

★Normally Exstock ○Ex Indent ◊Single chip only

★Normally Exstock ○Ex Indent ◊Single chip only

**T1 3/4**  
Midget Groove

Voltage	6-8	12	24	32	48	60	110	230
Red	★	★	★	○	★	○		
Orange	○	★	★	○	○	○		
Yellow	○	★	★	○	★	○		
Green	○	★	★	○	★	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	◊	○	○	○		

**T1 3/4**  
Midget Flange

Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	○	○		
Orange	○	○	★	○	○	○		
Yellow	○	○	★	○	○	○		
Green	○	○	★	○	○	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	◊	○	○	○		

**T4,5**  
Wedge

Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	○	○		
Orange	○	○	○	○	○	○		
Yellow	○	○	★	○	○	○		
Green	○	○	★	○	○	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	○	○	○	○		

**T5,5**  
Wedge

Voltage	6-8	12	24	32	48	60	110	230
Red	○	★	★	○	★	○		
Orange	○	○	○	○	○	○		
Yellow	○	★	★	○	★	○		
Green	○	★	★	○	★	○		
φ Blue	○	○	○	○	○	○		
φ White	○	◊	◊	○	○	○		

**T5,5K**  
Wedge

Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	○	○		
Orange	○	○	○	○	○	○		
Yellow	○	○	★	○	○	○		
Green	○	○	★	○	○	○		
φ Blue	○	○	◊	○	○	○		
φ White	○	○	◊	○	○	○		

**T6,8**  
Wedge

Voltage	6-8	12	24	32	48	60	110	230
Red	○	★	★	○	★	○		
Orange	○	○	○	○	○	○		
Yellow	○	★	★	○	★	○		
Green	○	★	★	○	★	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	○	○	○	○		

**BA5s**

Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	◊	★	○	○		
Orange	○	○	○	○	○	○		
Yellow	○	○	◊	★	○	○		
Green	○	○	◊	★	○	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	◊	○	◊	○		

**BA7s**

Voltage	6-8	12	24	32	48	60	110	230
Red	○	★	★	○	○	◊		
Orange	○	○	○	○	○	○		
Yellow	○	★	★	○	○	○		
Green	○	★	★	○	○	○		
φ Blue	○	○	○	○	○	○		
φ White	○	○	○	○	○	○		◊

**BA9s**

Flashing Options Available

Voltage	6-8	12	24	32	48	60	110	230
Red	★	★	★	★	★	○	★	★
Orange	★	★	★	★	★	○	★	★
Yellow	★	★	★	★	★	○	★	★
Green	★	★	★	★	★	○	★	★
Green (true)	○	○	◊	◊	○	○	◊	◊
φ Blue	○	○	◊	◊	○	○	○	○
φ White	○	○	◊	◊	○	○	★	★

**E10**

Voltage	6-8	12	24	32	48	60	110	230
Red	○	★	★	★	★	○	★	★
Orange	○	○	○	○	○	○	○	○
Yellow	○	★	★	★	★	○	★	★
Green	○	★	★	★	★	○	★	★
Green (true)	○	○	○	○	○	○	○	○
φ Blue	○	○	○	○	○	○	○	○
φ White	○	○	◊	○	○	○	○	○

**BA15D**

Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	★	○	★	★
Orange	○	○	○	○	○	○	○	○
Yellow	○	○	★	○	★	○	★	★
Green	○	○	★	○	★	○	★	★
Green (true)	○	○	○	○	○	○	○	○
Blue	○	○	○	○	○	○	★	○
White	○	○	○	○	○	○	★	○

**E12**

Voltage	6-8	12	24	32	48	60	110	230
Red	○	○	★	○	○	○	○	○
Orange	○	○	○	○	○	○	○	○
Yellow	○	○	★	○	○	○	○	○
Green	○	○	★	○	○	○	○	○
Green (true)	○	○	○	○	○	○	○	○
Blue	○	○	○	○	○	○	○	○
White	○	○	○	○	○	○	○	○

**BA15S**

Voltage	24	110	230
Red	★		
Yellow	★		
Green	★		
Blue	○		
White	○		

**E14**

Voltage	24	110	230
Red	○	○	○
Yellow	★	○	○
Green	○	○	○
Blue	○	○	○
White	★	★	○

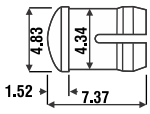


S - Normally Stock  
L - Limited Stock  
O - Ex Order

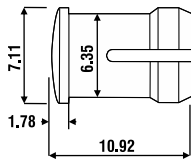
Part No.	Size	Colour	Water-clear or Diffused	Wave Length (nm)	Luminous Intensity			Viewing Angle	Case Style	Diagram of the different Styles	
					IF=10mA(mcd)	*IF=20mA(mcd)	Max.				
<b>3mm STANDARD LED's</b>											
A30D060-22-U	3mm	Super-Red	Diffused	625nm	12.5	22	32	60°	2		
B34D060-2-U	3mm	Flashing Red	Diffused	-	1.3	2	3.2	60°	2		
A30D060-12-G	3mm	Green	Diffused	565nm	5	12	20	60°	2		
A30D060-12-Y	3mm	Yellow	Diffused	590nm	5	12	20	60°	2		
A30D060-30-N	3mm	Pure-Orange	Diffused	610nm	10	30	50	60°	2		
A32D060-250-M	3mm	Ultra-Red	Diffused	660nm	200	250	300	60°	2		
A32W050-700-M	3mm	Ultra-Red	W/clear	660nm	500	600	700	30°	1		
A32W050-1300-M	3mm	Ultra-Red	W/clear	660nm	1100	1200	1300	30°	1		
A32W050-200-G	3mm	Green	W/clear	565nm	100	200	300	30°	1		
A32W050-750-K	3mm	Yellow	W/clear	590nm	400	750	1300	50°	1		
<b>3mm SUPER BRIGHT LED's</b>											
A32W050-600-M	3mm	Ultra-Red	Clear		500	600	700	50°	2		
A32W050-1200-M	3mm	Ultra-Red	Clear		1100	1200	1300	50°	2		
A32C050-30-Y	3mm	Yellow	Colour Clear		50	75	100	50°	2		
A32C050-75-N	3mm	Orange	Colour Clear		200	300	400	50°	2		
<b>5mm STANDARD LED's</b>											
A53D060-50-U	5mm	Super-Red	Diffused	625nm	20	50	80	60°	4		
A53D060-50-G	5mm	Green	Diffused	565nm	20	50	60	60°	4		
A53D060-14-Y	5mm	Yellow	Diffused	590nm	5	14	32	60°	4		
A53D060-46-N	5mm	Pure-Orange	Diffused	610nm	12	46	80	60°	4		
M59RG-CA-D	5mm	Red	White	625nm	3.2	5	8	60°	5		
Bi-colour		Green	Diffused	565nm	3.2	5	8				
M59RG-CC-D	5mm	Red	White	660nm	100	200	300	60°	5		
Bi-colour		Green	Diffused	565nm	40	60	80				
<b>5mm SUPER BRIGHT LED's</b>											
A53D060-250-M	5mm	Ultra-Red	Diffused	660nm	200	250	300	60°	4		
A53W030-200-G	5mm	Green	W-clear	565nm	100	200	300	30°	4		
<b>5mm SUPER BRIGHT LED's</b>											
C512MHR-125Q	5mm	Hi-Red	Clear	-	770	1135	1500	25°	4		
C503MBG-115Q	5mm	Green	Clear	-	1520	2260	3000	15°	4		
C503TPG-115Q	5mm	P.Green	Clear	527	12000	17500	23000	15°	4		
C503AYL-115Q	5mm	Yellow	Clear	591	8200	16000	23500	15°	4		
C503NBL-115Q	5mm	Blue	Clear	470	700	900	1100	15°	4		
C503PBL-115Q	5mm	P.Blue	Clear	470	2130	2800	3000	15°	4		
C512TWN-125Q	5mm	P.White	Clear	-	4180	5000	5860	25°	4		
<b>BAR TYPE LED's</b>											
L21D100-12-R	6.1x3.2mm	Super-red			5	12	20	100°	8		
L21D100-6-G	6.1x3.2mm	Green			5	12	20	100°	8		
L21D100-6-Y	6.1x3.2mm	Yellow			5	12	20	100°	8		
L22D120-12-U	10x5mm	Super-red			5	12	20	120°	9		
L22D120-12-G	10x5mm	Green		565nm	5	12	20	120°	9		
L31D120-12-U	22x5mm	Super-red			5	12	20	120°	10		
<b>SURFACE MOUNT LED's</b>											
LM1-UHR-101	3.2x2.8	Hi-red	Clear	624	280	500		120°	11		
LM1-PPG-101	3.2x2.8	Green	Clear	525	355	560		120°	11		
LM1-AYL-101	3.2x2.8	Yellow	Clear	591	280	300		120°	11		
LM1-PBL-101	3.2x2.8	Blue	Clear	470	112	160		120°	11		
LM1-PWH-101	3.2x2.8	White	Clear	-	280	450		120°	11		
LM1-TPP-101	3.2x2.8	Full Colour	Clear	R=620nm	R=180	300		120°	11		
			Clear	G=520nm	G=280	450		120°	11		
			Clear	B=465nm	B=71	110		120°	11		
			Clear	R=620nm	R=710	1000		120°	12		
LP6-TPP-101	6x5	Full Colour	Clear	R=620nm	R=710	1000		120°	12		
				G=521nm	G=710	900		120°	12		
				B=468nm	B=180	280		120°	12		

## FLUSH MOUNT LED HOLDERS

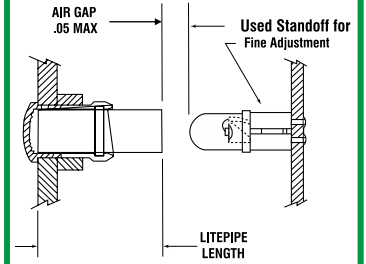
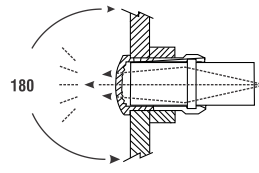
### SMB 200(3mm)



### CLB 300(5mm)



### LITEPIPE & SURFACE MOUNT LED'S



ORDERING CODE FOR THE LENSES:

**CLB 300 RTP**

MODEL	COLOUR
SMB 200 (RND 3mm)	RTP Red Transparent
SMQ 250 (SQ 3mm)	ATP Amber Transparent
CLB 300 (RND 5mm)	GTP Green Transparent
SQB 400 (SQ 5mm)	BTP Blue Transparent
	YTP Yellow Transparent
	CTP Clear Transparent

SPC 125 Spacer for CLB 300 & SQ 400  
 RNG 190 Lens Retaining ring for SMB200  
 RNG 234 Lens Retaining ring for CMC321  
 RNG 268 Lens Retaining ring for CLB300 & CMS322

ORDERING CODE FOR THE LITEPIPE:

**LSV 020 CTP**

MODEL	COLOUR
LSV (3mm), LCV (5mm)	CTP Clear Transparent

LSV - CODE LENGTH(mm)  
 020 (5.1), 040 (10.2), 060 (15.2), 080 (20.3), 100 (25.4), 120 (30.4)

LCV - CODE LENGTH(mm)  
 036 (9.1), 056 (14.2), 076 (19.3), 096 (23), 116 (29.5), 136 (34.5)

ORDERING CODE FOR THE PCB STANDOFFS

**STD XXX BLK**

LENGTH (2,54 to 25,4mm) COLOUR

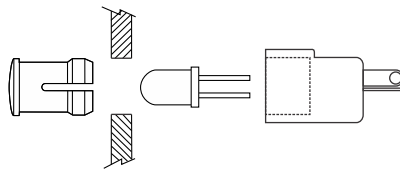
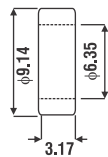
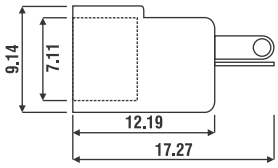


### CNX 310

### SPC 125

### INSTALLATION

### ORDERING CODES



**CNX 310 012**

MODEL	RESISTOR CODE	VALUE
CNX 310	000	No Resistor
	012	120Ω
	018	180Ω
	033	330Ω
	056	560Ω
012	120	1200Ω
	220	220Ω

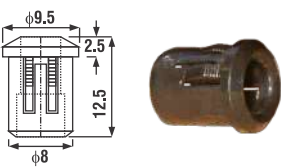
## Black Plastic LED Holders

### RTF-5010 Cutout: φ8mm

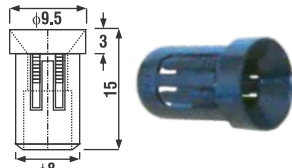
### RTF-5020 Cutout: φ8mm

### RTF-8080 Cutout: φ12mm

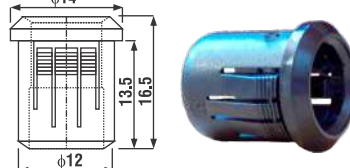
### RTF-1090 Cutout: φ14mm



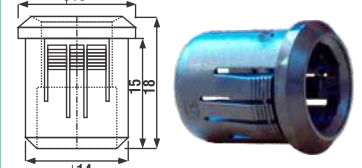
(For φ5mm LED)



(For φ5mm LED)



(For φ8mm LED)



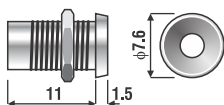
(For φ10mm LED)

### CB3 Cutout: φ6.4mm

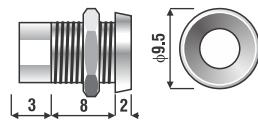
### CB5 Cutout: φ8 mm

### CB8 Cutout: φ12 mm

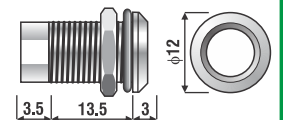
Chrome plated or black brass LED holder. Solder or use LED plug on connectors. For use with φ3mm LED's.



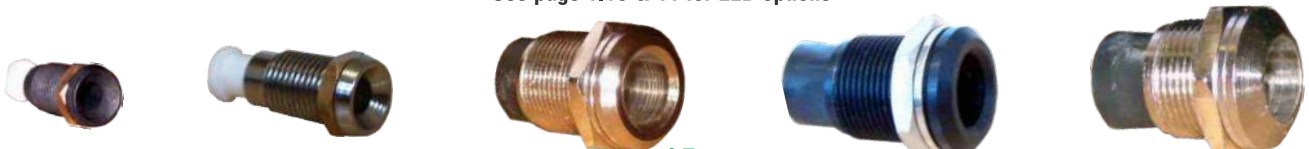
Chrome plated or black brass LED holder. Solder or use LED plug on connectors. This pilot light gives a quality look which cannot be achieved with plastic bezels. For use with φ5mm LED's.



Chrome plated, black brass or convex type LED holder. Solder or use LED plug on connectors. This pilot light gives a quality look which cannot be achieved with plastic bezels. For use with φ8mm LED's.



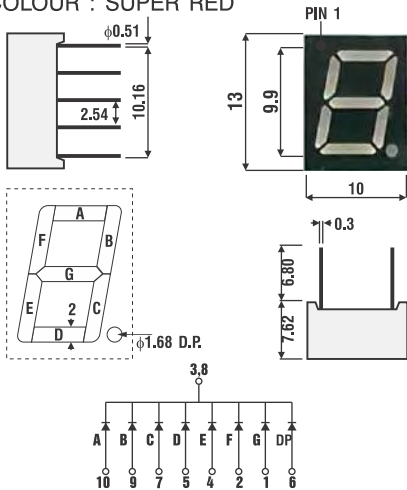
See page 1.10 & 11 for LED options



## 7 - SEGMENT LED DISPLAYS

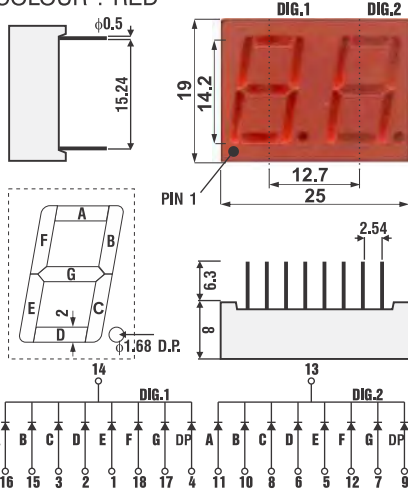
### 10mm (1BW39SR-C21)

COMMON CATHODE, R.H.D.P.  
REF. : EC 3414, mcd : 10.5  
COLOUR : SUPER RED



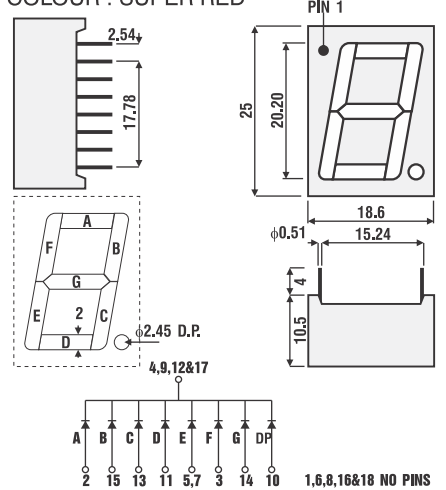
### 14.2mm (TOD5261-AE-0)

COMMON CATHODE, R.H.D.P.  
REF. : EC 5614, mcd : 6.5  
COLOUR : RED



### 20.20mm (1BW80SR-C41R)

COMMON CATHODE, R.H.D.P.  
REF. : EC 8214R, mcd : 4  
COLOUR : SUPER RED



### 38mm (1BWA5SR-C11)

COMMON CATHODE  
SUPER RED - R.H.D.P.

P	10.66	V	0.5
Q	2.54	W	4
R	12.5	X	33.15
S	4	Y	47
T	φ4.5	Z	38
U	41.14		

### 57mm (OS23101-BS-B)

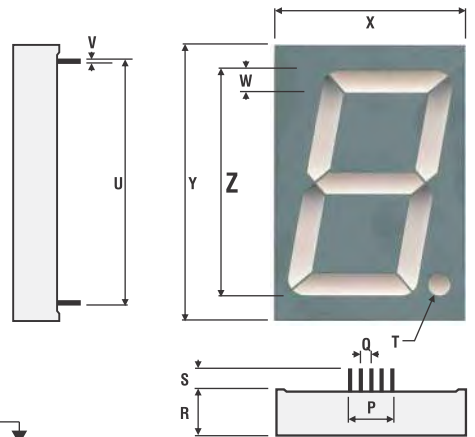
COMMON ANODE  
SUPER RED - R.H.D.P.

P	10.2	V	0.6
Q	2.5	W	5.5
R	12	X	48
S	5.6	Y	70
T	φ5.5	Z	57
U	60		

### 100mm (LA4141-B2)

COMMON ANODE  
SUPER RED - R.H.D.P.

P	20.3	V	5.1
Q	5.1	W	10
R	15	X	90
S	7.3	Y	122
T	φ10	Z	100
U	107		



### 120mm (1BWA5SR-C11)

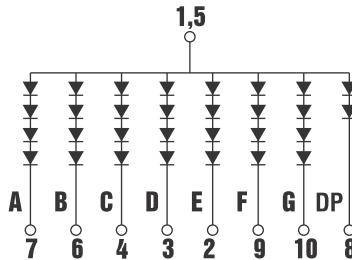
COMMON CATHODE  
SUPER RED - R.H.D.P.

P	10.66	V	0.5
Q	2.54	W	4
R	12.5	X	33.15
S	4	Y	47
T	φ4.5	Z	120
U	41.14		

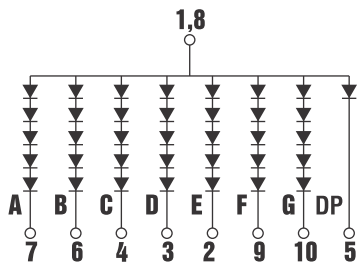
### 180mm (OS23101-BS-B)

COMMON ANODE  
SUPER RED - R.H.D.P.

P	10.2	V	0.6
Q	2.5	W	5.5
R	12	X	48
S	5.6	Y	70
T	φ5.5	Z	180
U	60		



180mm  
0



### 100mm (LA4141-B2)



### 38mm (1BWA5SR-C11)



### 57mm (OS23101-BS-B)



These LED driver surge protectors are typically used in outdoor and commercial LED lighting, including traffic lighting, service entrance lighting, flood lighting, tunnel lighting, parking garage lighting, street lighting, roadway lighting and digital signage. This range is available for series as well as parallel connection and include thermal disconnect with built in indicators to monitor protection status.

**SLA-A**

In this arrangement the protector is connected in series with the LED lighting globes or fixture containing the LED drivers. It may be mounted at the lights or inline in the circuit feeding the lights. Max current rating of the load is not to exceed 10 Amps. Available for low and high exposure situations.

45/033 Low Exposure levels



45/009 High Exposure levels



**SLA-B**

In this arrangement the protector is connected in parallel with the LED lighting globes or fixture containing the LED drivers. It should be mounted at the lights or LED driver. Available for low and high exposure situations.

45/032 Low Exposure levels



45/008 High Exposure levels



Model	Rated Current	Surge Current	Housing	OD mm	Length mm	Exposure Level
SLA-A	10	6kA	I2	23mm	35mm	LOW
SLA-B	10	10kA	B2	31.5mm	43.5mm	HIGH

**MSLC....**

MSLC-A series connected with built in indicator, in this arrangement incase of failure the monitoring LED will go out and the luminaire will be disconnected.

MSLC-B parallel connected with built in indicator, in the event of failure the monitoring LED will go out and the surge protection will disconnect the luminaire will continue to operate without protection.

45/035 Low Exposure levels



Status Indicator or 5A relay contact for remote monitoring, tripping etc

45/034 Low Exposure levels



**MSLB....**

These LED driver surge protectors are additionally fitted with EMI filters containing X and Y capacitors and specifically wound inductors to eliminate the flickering effect found when using LED light dimmers as well as when using generators. They provide additional surge protection for long term reliability to minimise failure of LED lighting systems.



Model	Rated Current	Surge Current	Housing	OD mm	Length mm	Exposure Level
45/031	5	20kA	B2	31.5mm	43.1mm	NA
45/003	10	30kA	RS	44mm	76mm	
45/011	15	30kA	RS	44mm	76mm	
45/012	20	30kA	RS	44mm	76mm	

## JOHANNESBURG



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