

# WARNING: DO NOT USE NORMAL LOW VOLTAGE TRANSFORMERS WITH LEDs.

All LED fittings are tested before dispatch. It is not necessary to check them on site. Do not power up until fittings are wired correctly.

## INSTRUCTION LEAFLET



# LD22

## Miniature 24V Linear LED System

This product should be installed by a qualified electrician in accordance with all current, local legislation. For the UK, the current edition of the IEE Wiring Regulations and European Standard IEC 60364.

### SPECIFICATION

LED Linear luminaires are class III  for Safety Extra Low Voltage supply  **24V DC** driver.

Suitable for mounting on normally flammable surfaces. 

LD22 is **IP40** to **IP54** rated, please check specification.

Lumen Maintenance: 50,000 hours L70 at Max Ambient of 35°C

LD22 is available in various power outputs options	
Product & LED output code	Watts per metre
LD22 / Eco	3.6 W/m
LD22 / Short	8.7 W/m
LD22 / LGX9C	12.5 W/m
LD22 / LG1200	10.4 W/m
LD22 / LG2000	18 W/m
LD22 / RGB	18 W/m
LD22 / TW2000	18.5 W/m

### INSTALLATION

1. When mounting to surface, use N°4 or N°6 CSK screw and one of the below mounting methods.

2. When installing multiple lengths, push the ends of products close together to avoid dark spots. See diagram below.

3. Wire to specified 24V constant voltage supply.

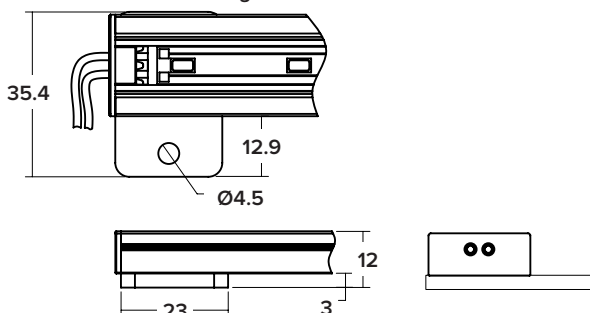
4. Volt drop on long cable runs can be an issue. To keep volt drop to a minimum see volt drop table for suggested cross sections of cable.

**NOTE:** There must be a minimum of 23V entering the length at the start of the run.

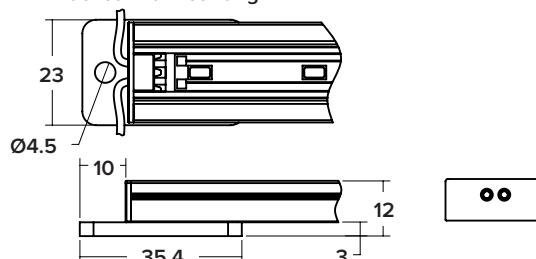
**NOTE:** Connections in wet environments. Make IP68 connection to stop water travelling up the cables into the fittings! Refer to IP connection sheet for further details.

### DIMENSIONS

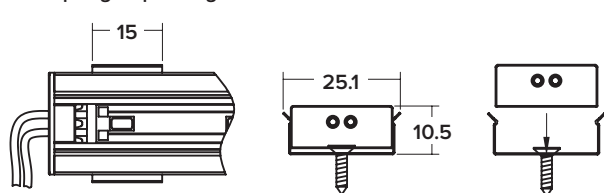
/BSM Bracket Side Mounting



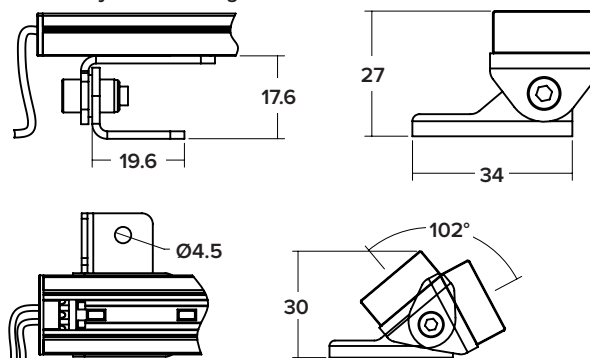
/BEM Bracket End Mounting



/SC Spring Clip Fixing



/ABM Adjustable Fixing Bracket



### WARNING

1. Do not power up LED or driver until all work is completed.
2. Consider volt drop; LD22 requires a minimum voltage input of 23V at start of LED run.



# WARNING: DO NOT USE NORMAL LOW VOLTAGE TRANSFORMERS WITH LEDS.

All LED fittings are tested before dispatch. It is not necessary to check them on site. Do not power up until fittings are wired correctly.

## INSTRUCTION LEAFLET



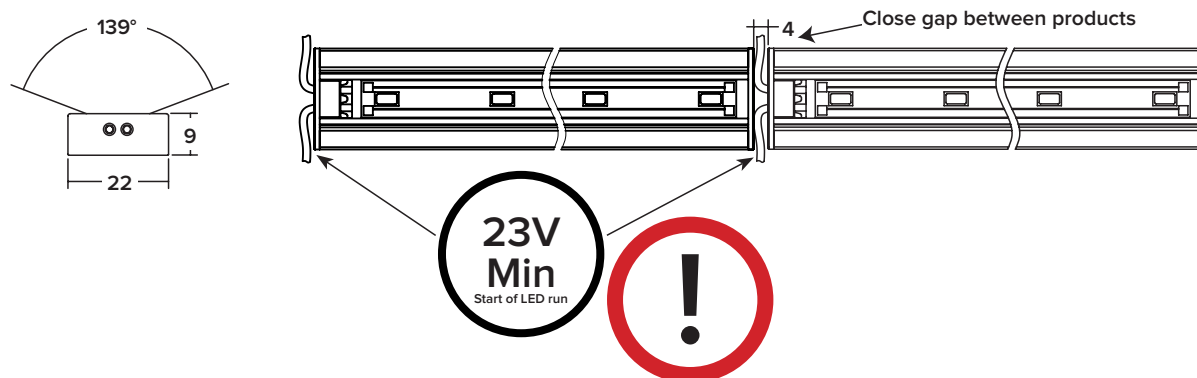
### LD22

#### Miniature 24V Linear LED System

This product should be installed by a qualified electrician in accordance with all current, local legislation. For the UK, the current edition of the IEE Wiring Regulations and European Standard IEC 60364.

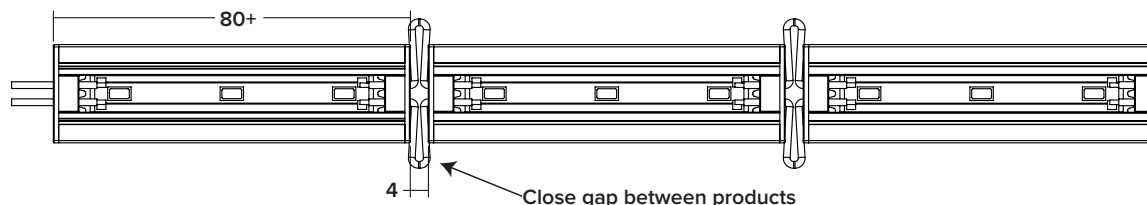
## DIMENSIONS

### Standard Version



### Linked Version

It is important that there are tight gaps between each luminaire. This is to avoid dark spots and produce an even wash of light.



## WIRING

Do not power up until fitting is wired correctly! Constant voltage LEDs must be wired in parallel, polarity is critical! See table for polarity of cables.

Single Colour LEDs		
Colour of Cable	Red	Black
Polarity	+	-

RGB LEDs				
Colour of Cable	Black	Red	Green	Blue
Polarity	+	-	-	-

Tunable White LEDs (2700K & 6500K)			
Circuit	Circuit 1 & 2 Shared Positive	Circuit 1 (6500K)	Circuit 2 (2700K)
Colour of Cable	Red	Black	Yellow
Polarity	+	-	-

Volt Drop Table	
Distance	Cable cross section
0.5m - 10m Max	1.5mm
10m - 20m Max	2.5mm

## SEE SPECIFIED DRIVER SHEET FOR WIRING DIAGRAM

### IMPORTANT

Make sure that all cables and connections are securely connected before switching on the power. Do not switch on the power source prior to making these connections as this will result in the LEDs being overvolted, which can lead to failure of the LEDs and/or the driver.

If the LEDs do not work upon power up, turn off the power source immediately and check the polarity of the wiring.

### MAINTENANCE

Lamps: Non Replaceable.  
Clean with soft cloth.

This leaflet should be issued and retained by the end user.