Sahara Pro

INSTALLATION MANUAL

Class I

- The luminaires are electrically insulated and provided with a connection to earth.
- Earthing protects exposed metal parts that could become live in the event of basic insulation failure.

Installation Requirements

- This light fixture must be supplied with 220-230V, 50Hz AC power.
- Connect to an individual branch circuit.
- LLSA ensures a 2 kV surge protection on our PSU, anything out of this range will void warranty provided.
- Improper installation might cause an electric shock accident.
- Use an authorized electrical professionals to do the installation, repair and maintenance of the light fixture.
- Cut off the power before and during installation, maintenance and repair of the light fixture.
- Do not install the light fixture on top of or near hot objects to avoid damage. (For example hot gas pipes, exhaust funnels or stoves)
- Do not install the light fixture in a damp area or where liquid leakage is potential.
- Make sure no fire regulations are violated.
- Do not look directly at the light fixture for a long period of time to avoid eye damage.
- The use of third party equipment is not recommended by the manufacturer for it may lead to warranty void.
- Do not cover the lamp with heat insulating gasket or similar material.

Non-user replaceable light source

- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

Cleaning and Maintenance of Enclosure

- Do not use solvent-based cleaning agents, this will cause cracks to form in the plastic diffuser covers.
- Clean with a damp cloth and silicone-based cleaning agent. (Such as Mr Min)

Product Information

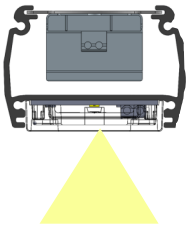
NAME	DESCRIPTION	ILLUMINATION TYPE	POWER RANGE	LENGTH
Sahara Pro 1200	End-to-end system / 7-wire AC feed (**3 pairs of separate L&N circuits / common E**)	DOWN	25W—36W	1128mm
Sahara Pro 1500	End-to-end system / 7-wire AC feed (**3 pairs of separate L&N circuits / common E**)	DOWN	31W—37W	1409mm
Sahara Pro 1500 ASYM	End-to-end system / 7-wire AC feed (**3 pairs of separate L&N circuits / common E**)	DOWN & SIDE	68W— 85W	1409mm
Sahara Pro 2300	End-to-end system / 7-wire AC feed (**3 pairs of separate L&N circuits / common E**)	DOWN	49W—73W	2252mm
Sahara Pro 2300 ASYM	End-to-end system / 7-wire AC feed (**3 pairs of separate L&N circuits / common E**)	DOWN & SIDE	106 - 140W	2252mm

DIMENSIONS: Length x H65 x W56 mm

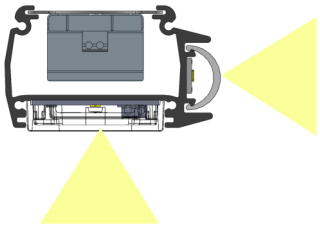
PRODUCT WEIGHT: 1.65kg/m

TYPES

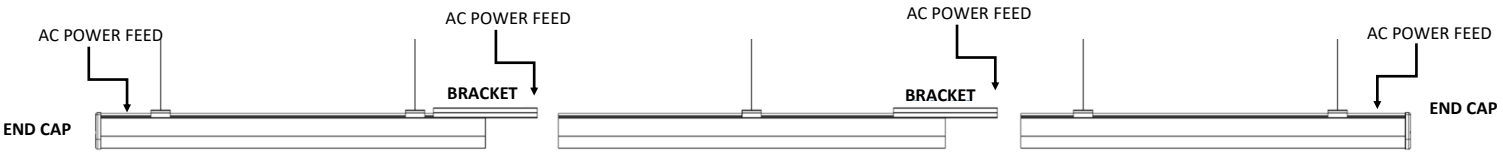
DOWN ILLUMINATION (STD)



DOWN & SIDE ILLUMINATION (ASYM)



ASSEMBLY



IMPORTANT NOTES

- SAME TYPE OF FITTINGS ARE ELECTRICALLY IDENTICAL
- 7-WIRE CIRCUIT = 2 x L&N CIRCUITS / 1 x COMMON EARTH
- REAR SELECTOR SWITCH FOR INDIVIDUAL CIRCUIT OPERATION
- DO NOT MIX L&N PAIRS ON AC FEED, THIS WITH RESULT IN SELECTOR SWITCH DAMAGE
- AC POWER FEED CAN BE PLACED AT ANY START/END/MIDDLE POSITION BETWEEN FITTINGS
- END-TO-END CONNECTOR BRACKETS SUPPLIED WITH EACH FITTING
- END CAPS SUPPLIED SEPARATELY FOR ON-SITE ASSMEBLY AT START/END OF LINES

MAXIMUM CONNECTIONS

EXAMPLES : DO NOT EXCEED 15A MAXIMUM PER POWER FEED

PRODUCT TYPE	LENGTH (mm)	POWER (W)	No. Fittings	TOTAL (m)*	TOTAL (W)	SUPPLY (VAC)	TOTAL (Amp)	MAX (Amp)
Sahara Pro 2300 32W/m	2252	73	**22**	**50**	1606	230	7	15
Sahara Pro 2300 ASYM	2252	140	**16**	**36**	2240	230	10	15
Sahara Pro 1500 32W/m	1409	43	**35**	**49**	1505	230	7	15
Sahara Spot 1200 4 SPOT	1126	105	**24**	**27**	2520	230	11	15

*** MAXIMUM distance(m) between AC Power feed points**

LLSA

Suspension Mounting

Part list and Quantities (specified when order is placed)

1. GL surface mounting clip ,gripple kit, Steel cable
2. ETE Bracket

1

2

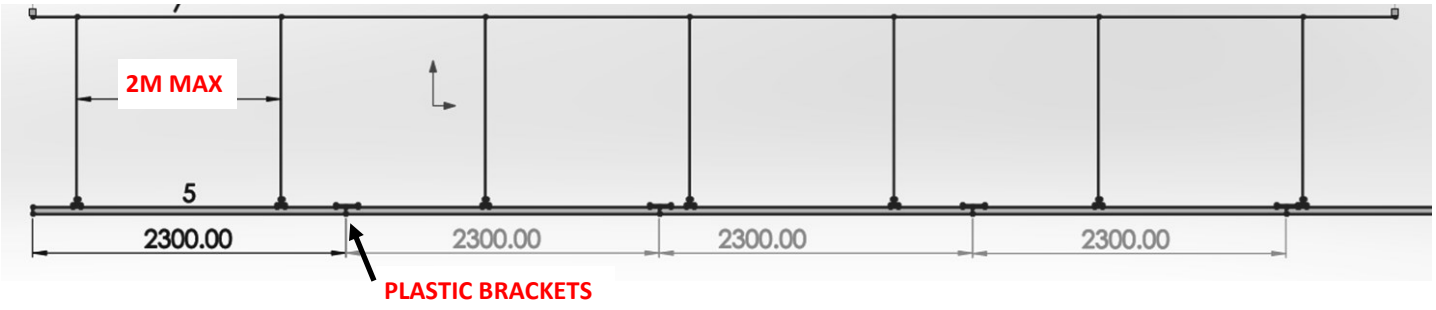
Product	Suspension
Sahara Pro 1200	2
Sahara Pro 1500	2
Sahara Pro 2300	2

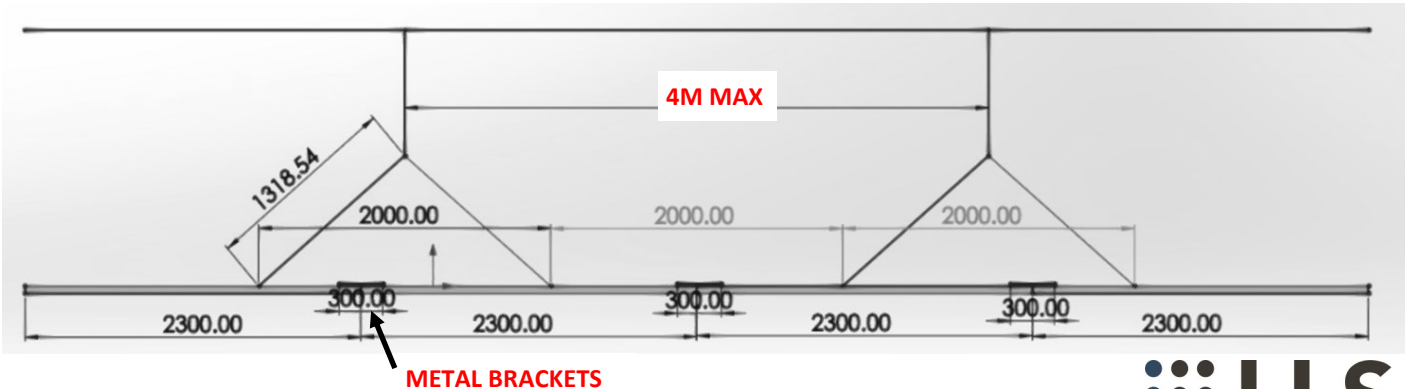
WARNING : DO NOT EXCEED MOUNTING POINT SPACING. THIS IS A SAFETY RISK.

Mounting suspension points

- **Maximum spacing between mounting points should not exceed 2m for strait suspension kits, or 4m for Y-suspension kits.**
- **For areas where ceiling obstructions prevent 2m spacing between mounting points, please order Y-suspension kits For increased spacing.**
- **Strait suspension kits : Use Plastic-type joining brackets.**
- **Y-suspension kits : Use Metal-type joining bracket.**
- Typical weight of fitting is 1.65—1.8kg/m, depending on fitting types.
- Contractor to determine the safe fixing method to ceiling structure or mounting surface
- Contractor to ensure fixing method provides adequate support based on the fitting weight and applicable ceiling load .

SUSPENSION SPACING : ENSURE SAFETY LIMITS





STEP 2: Mounting the luminaires

- Clip the first fitting into position as shown in Fig 1 you will hear a CLICK when the clip is secure.
- **Inspect each mounting clip to ensure they are properly secure**
- Clip the next fitting into position . Fig. 2
- Guide the extrusion to the next extrusion . Fig. 2

FIG. 1

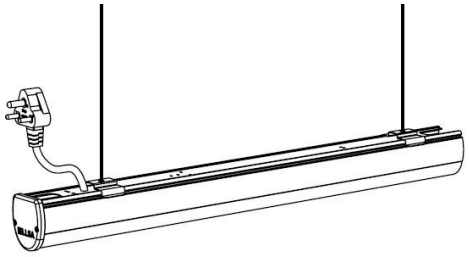
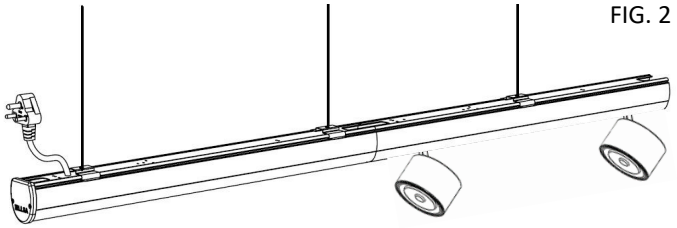
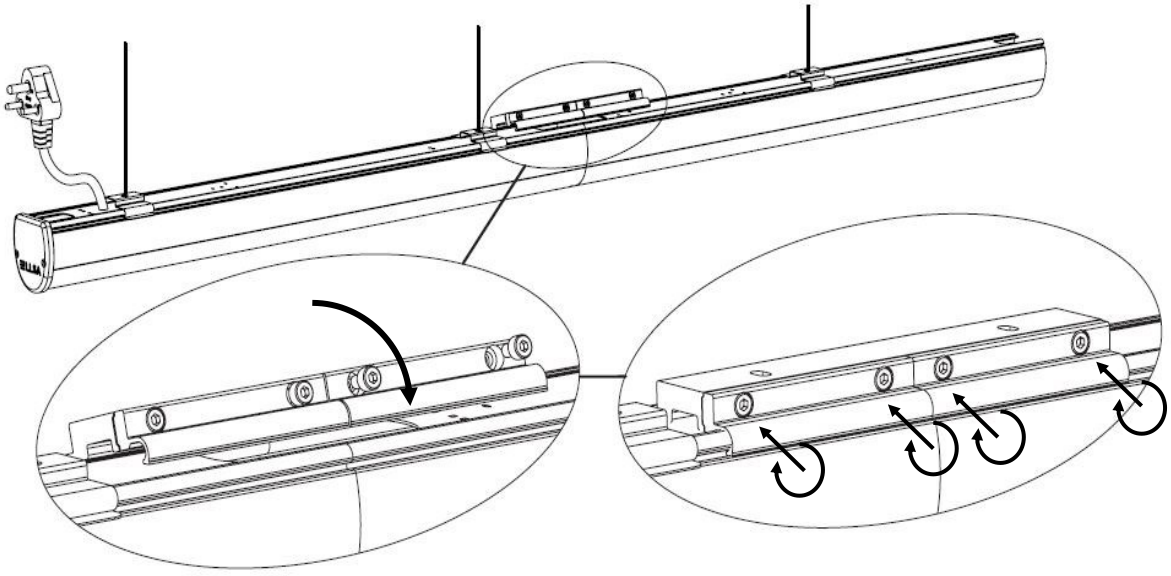


FIG. 2



Clamp assembly (metal-type)

- **Order Metal-type brackets when mounting to skimmed or concrete surfaces to provide better access**
- Attach the connector bracket to join fittings end to end.
- Not necessary to completely remove screws, assembly/disassembly with screws turned 50% of the way.
- Place the preassembled bracket over the joint and clip into position.
- Check bracket is evenly positioned between the two luminaires.



AS-

Clamp assembly (plastic-type)

- Ensure that suspension lines are LEVEL and IN-LINE
- **Inconsistent/Inaccurate suspension mountings can cause excessive force/gaps between fittings/plastic brackets**
- Place the bracket between fittings, centered over the joint
- Seat the one side of the bracket into the profile groove (fig A)
- Squeeze the opposite side downwards onto the profile (fig B)
- Push fittings together to close gaps (fig C)
- Once suspension lines are straightened and level,
  top screws can be tightened to prevent gaps between fittings (fig D) (M6 Allen key)
- To remove : insert flat-head screw driver into openings (fig E) and push inwards & upwards to release bracket

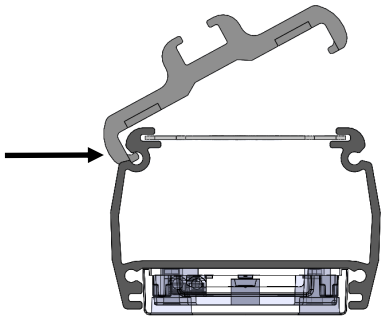


FIG. A

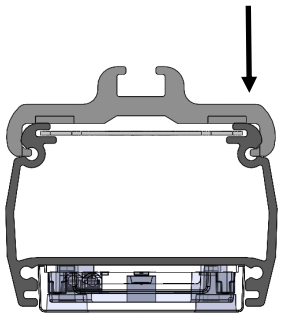


FIG. B

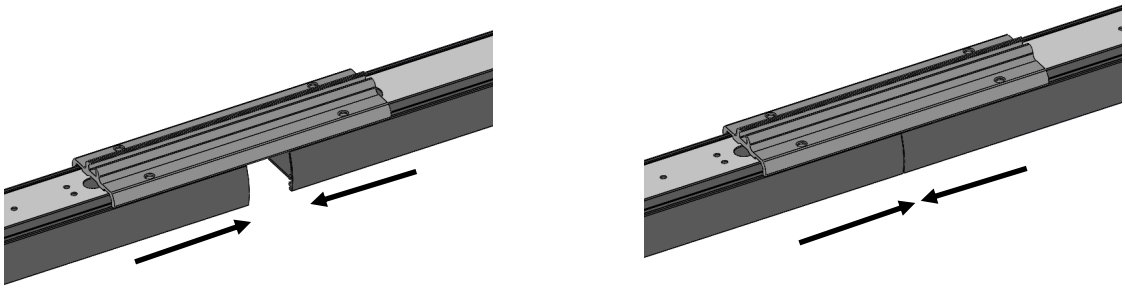


FIG. C

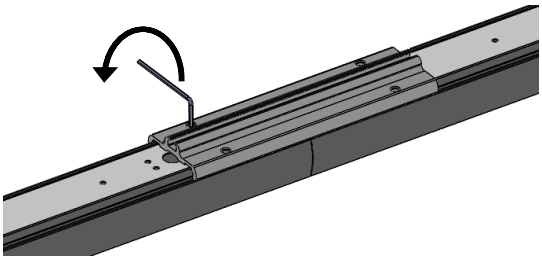


FIG. D

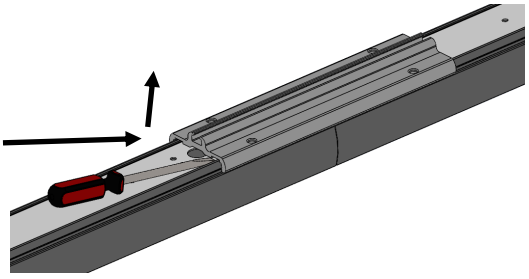
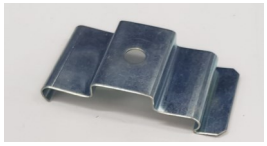


FIG. E

Surface mounting

Part list and Quantities

1. GL surface mounting clip
2. 2mm spacer washer x 2
   (placed between ceiling and clip for bracket clearance)

1 

2 

Product	Suspension points
Sahara Pro 1200	2
Sahara Pro 1500	2
Sahara Pro 2300	2
Sahara Pro 590x590	2
Sahara Pro 590x865	2

Equipment (not included)	Quantity
• 3mm Allen Key	1
• Drill and appropriate drill bit	1
• Sprit level (suspension mounting)	1

Mounting clips

- Contractor needs to ensure fixture methods can support the weight of the product.
  (example : GL V2 ETE 3V 7 wire = 1.65kg/m)
- Typical mounting clip spacing : 2m

Suspended Ceiling :

Typical example :

Butterfly hanger with std clips :

(with 2 x 2mm thick washers)

Clearance for connecting bracket :

CAUTION :

- Do not allow any pressure to back of switch during surface-mounting installations.
- Do not place fittings on the floor with lenses facing upwards, this will result in damage to the switch
- Ensure that hangers have 2 x 2mm washers to ensure adequate clearance between back of switch and mounting surface

Testing

- Pull down on each fitting to ensure it is secure and clipped in place properly.
- Adjust suspension points until the luminaire are lined up in straight lines.

7 Wire system
Switched live circuits

SWITCHED LIVE

Rear of fitting has adjustable switched circuit (rotary switch)

- L1/N1 : Live & Neutral circuit 1
- L2/N2 : Live & Neutral circuit 2
- L3/N3 : Live & Neutral circuit 3

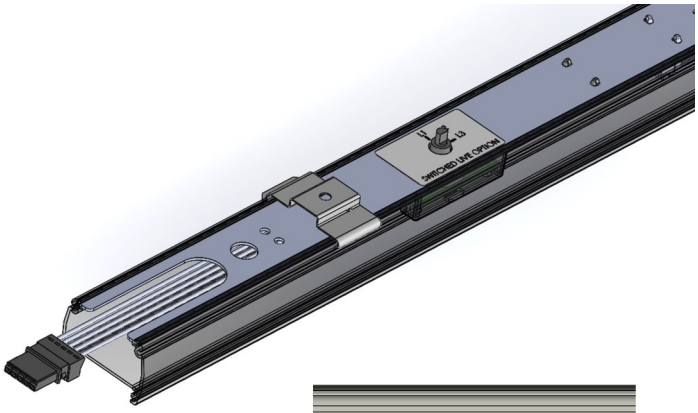
DO NOT MIX LIVE & NEUTRAL (L/N) CIRCUIT PAIRS

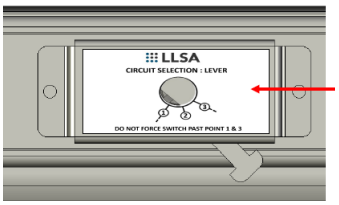
(L1 with N1 / L2 with N2 / L3 with N3)

IF MIXED THIS WILL RESULT IN ELECTRICAL DAMAGE TO SWITCH

DO NOT FORCE SWITCH PAST INDEXED POSITIONS

THIS WILL RESULT IN DAMAGE TO SWTICH





L1/N1 L2/N2 L3/N3

AC POWER CABLES

7-Wire AC power input cables are supplied separately (see PG.2)

AC supply specifications are clearly labeled on each cable

- L1/N1 : Circuit 1
- L2/N2 : Circuit 2
- L3/N3 : Circuit 3
- E : Earth

DO NOT MIX L/N CIRCUITS ! This will result in damage to switch.

Power feed is rated for 15 A maximum (refer to Pg.2 example table)