

Installation Instructions

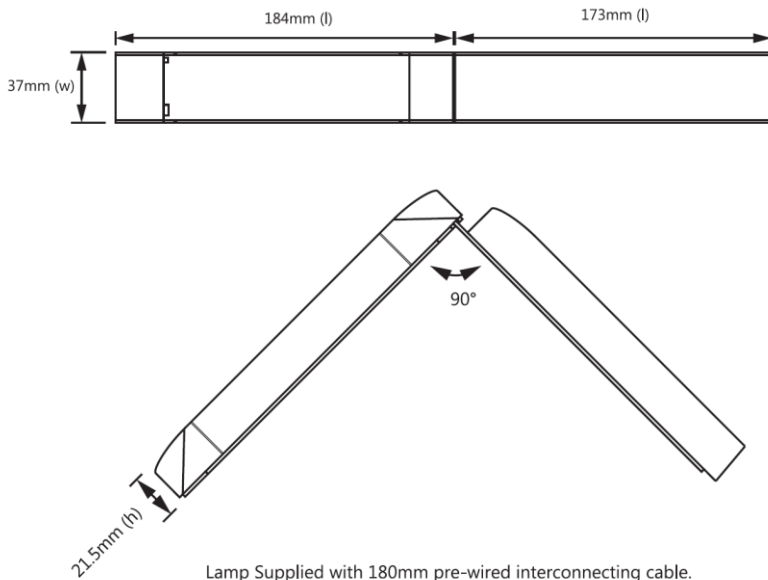
One-LED SOLO Mini



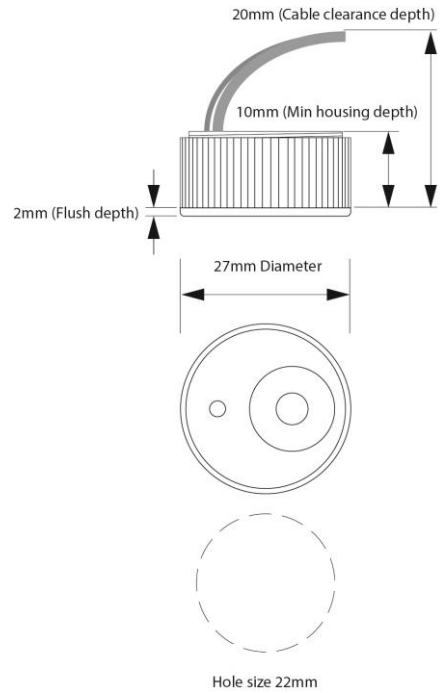
Product Description

One-LED SOLO Mini is a non-maintained emergency luminaire with pre-assembled emergency LED driver, battery pack and LED lamphead. The battery pack is rated for 3-hour back-up operation.

Dimensions



Lamp Supplied with 180mm pre-wired interconnecting cable.



Common Technical Data	
Input Supply Voltage	230V +/- 10%
Supply Frequency	50/60 Hz
Maximum Spacing (1 lux)	8m @2.5m mounting height
Battery Type	2.4V 4Ah 18700 NiMH
Changeover Threshold (Vrms)	Falling >144V Rising <204V
Maximum Ambient Temperature	35°C
Battery Charge Time	24 Hours
Earth Leakage Current	<0.5mA
IP Rating	IP20

Installation

One-LED SOLO Mini must be installed by a qualified person and in accordance with the current wiring and building regulations. The articulated enclosure will fit through a 42mm diameter hole and we recommended a 22mm hole for the lamphead. The leads to the lamphead can be un-plugged from the PCB at the rear to enable mounting through a hole. Once installed, the small plug and indicator LED should be fitted before use. The mains connections should be made to the 3-pole grey terminals marked "LIVE", "EARTH" and "NEUTRAL". Please note the cable size range for the terminal block is 0.2mm² - 1.5mm².



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






This product requires a permanent supply (via test key switch where required) as per the adjacent specifications table. Restrain and protect the terminations by affixing the cord restraint and terminal cover provided

The following table is a guide to spacing the luminaires to achieve 1 lux along a defined escape route. Please be aware that these are a minimum guide in accordance with BS EN 1838. Local risk assessment by a competent person should be carried out to ensure the emergency lighting system meets the requirements of the building and its occupants. Photometric data files can be obtained from our website or by contacting our technical department.

Distance table for even escape routes

Mounting Height [m]

					
2.00	2.97	7.47	7.36	7.50	2.97
2.50	2.98	8.20	8.07	8.24	3.09
3.00	3.00	8.64	8.53	8.56	3.11
3.50	2.83	8.80	8.71	8.82	3.04
4.00	2.91	8.88	8.83	9.00	2.91

The spacing table is based on the following parameters:

- Maintenance factor: 0.90
- Emergency lighting factor: 1.00
- Minimum illuminance on centre line: 1.00 lx
- Minimum illuminance on half of escape route width: 0.50 lx
- Diversity on the centre line max. 40 : 1
- Width of escape route: 2.00 m

Commissioning

Once the luminaire is installed, the mains supply should be instated and remain un-interrupted for a minimum of 24 hours. The supply should then be removed and all luminaires checked for a minimum of 3-hours duration. The label on the battery box must be initialled and dated by the commissioning engineer.

Testing

Regular testing must be carried out and recorded in accordance with BS EN 50172.

Maintenance

There are no user serviceable parts within One-LED SOLO Mini. The battery pack must be replaced when the 3 hour duration is no longer achieved. The battery is not considered user-replaceable and must be referred to a competent engineer. If in any doubt, please contact our technical department.

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