

# Installation Instructions



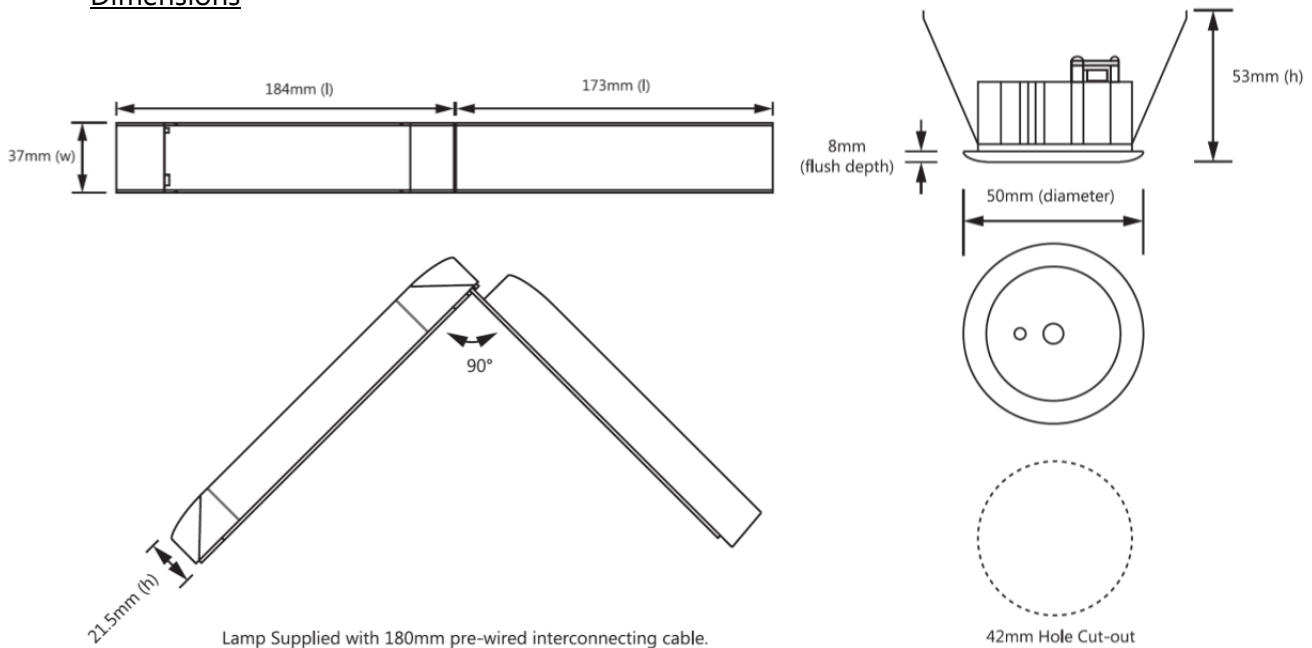
## One-LED SOLO

### Product Description



One-LED SOLO is a user-friendly non-maintained emergency luminaire with pre-assembled emergency LED driver and battery pack. The battery pack is rated for 3-hour back-up operation. The control gear section is hinged to assist with installation whilst the luminaire incorporates a manual “push-to-test” facility to assist with regular maintenance.

### Dimensions



### Installation

One-LED SOLO must be installed by a qualified person and in accordance with the current wiring and building regulations. It is recommended that a 42mm cut-out is provided to insert the luminaire. 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 0.2mm<sup>2</sup> - 1.5mm<sup>2</sup>. 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.

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
Recommended Cut-out Size	42mm



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






## One-LED SOLO

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]

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:

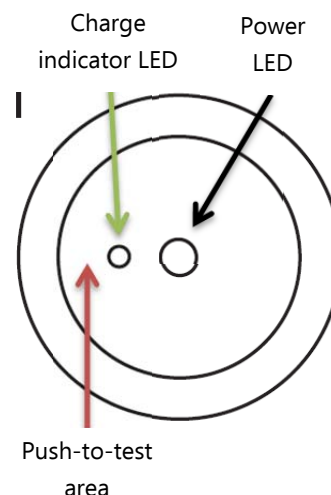
- Maintenance factor: 0.90
- Emergency lighting factor: 1.00
- Minimum illuminance on centre line: 1.00 lx
- Minimum illuminance on half of escape route width: 0.50 lx
- Diversity on the centre line max. 40 : 1
- Width of escape route: 2.00 m

### Commissioning

Once the luminaires are 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. To facilitate monthly checks, a discrete green charge indicator and manual push-to-test feature are incorporated into One-LED SOLO. Depressing the facia at the point shown in the illustration will operate the lamp in the emergency mode for as long as it is pressed. This feature allows regular testing to be carried out with minimal inconvenience to the building occupants. Please take care to avoid looking directly at the LED when under test. Finger contact with the power LED should also be avoided. For commissioning and the annual full-rated duration test, it is recommended that the supply is isolated via conventional methods such as isolation of the circuit at the MCB or via key test switch.



### Maintenance

There are no user serviceable parts within One-LED SOLO. 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.

