

# Installation and Operating Instructions – Recessed TriLED/QuadLED & MonoLED.

## General Description

Recessed TriLED, QuadLED and MonoLED luminaires are fully automatic self testing emergency lighting luminaires operating high intensity white LEDs to provide emergency lighting and, if required illumination from normal mains operation.

1. Luminaires should only be installed by suitably qualified personnel
2. Installation should be carried out in accordance with the requirements of BS7671 and BS5266 Pts 1, 7, 8 and 10.
3. Before installing, connecting or servicing these luminaires, isolate the supplies to which they are to be connected.

Technical Specification	
Supply voltage	230V +10% -10% , 50/60Hz
Input Power	2VA
Mode of Operation	Non Maintained or Maintained
Weight	TriLED - 470gms QuadLED - 490gms MonoLED - 480gms
Duration	3 hours
Recharge period	24 hours for full duration (14 hours for 1 Hour)
Light sources	1W high intensity white LEDs
Battery	2.4V 1.5Ah High temperature NiCd
Ambient temperature	+5°C to +25°C
Degree of Protection	IP30 without cover, IP54 with cover
Conformity	EN60598.2.22

## Testing regime

Luminaires incorporate fully automatic self testing and will regularly test for correct lamp (LEDs) functioning and for battery functioning in accordance with a predefined test programme that exceeds the requirements of BSEN50172 / BS5266 Pt.8: 2004.

See separate test regime description.

## Remote control and monitoring (SRM units only)

All SRM version luminaires incorporate remote control and monitoring capability. Luminaires may be connected via collector boxes and interface boxes either to a local computer or to a LAN or internet connection and remotely controlled and monitored. All SRM luminaires are assigned individual addresses before leaving the factory and should be installed in accordance with the installation plans. Details of the remote control and monitoring operation may be found in separate sheet.

## Installation

1. These luminaires are designed to be recessed into ceiling capable of supporting the load of installed luminaire(s). After selecting the required location cut a hole in the ceiling of 111mm (4<sup>3</sup>/<sub>8</sub> inch) diameter using P4 ceiling cutter or equivalent.
2. Remove luminaire from packaging and remove rear cover by releasing 1 x 3mm x 15mm screw.
3. For non-maintained operation connect supply to terminals as marked. An unswitched supply live must be connected to the L terminal. Secure the supply cable under the clamp strip provided.
4. In the case of maintained operation the switched live must be connected to the LSW terminal. Note the switched live and the live must be from the same phase. Secure the supply cable under the clamp strip provided
5. (SRM units only) Connect data cable to terminals marked 1 and 2. Note cable should be of 1.5mm<sup>2</sup> minimum. Terminals are not polarity sensitive. Secure cable under the clamp strip provided. Warnings: Any mains supply connected to these terminals will damage the luminaire. Do not Megger test installations with luminaires connected.
6. Push the battery connector into its guide, ensuring polarity is correct.
7. Allow the plunger under the rear cover to push it onto its connection pins as the rear cover is replaced.  
**7a.** Refit the rear luminaire cover and its retaining screw.
8. Holding the longer legs of the spring clips vertically adjacent to the body of the luminaire, push the luminaire into the ceiling allowing the clips to catch on the edges of the hole and pull the luminaire into the ceiling.
9. Apply mains supply to test the luminaire. The indicator LED will show flashing green and the LEDs will illuminate if the Switched Live supply is connected and switched on.
10. To test, briefly fail the supply to illuminate from the internal battery. The indicator LED will be extinguished.
11. Reconnect the unswitched supply to restart battery charging, indicated by the flashing green indicator LED. Reconnection of the Switch Live supply will re-illuminate the LEDs from the mains supply.
12. Clip clear lens in position on MonoLED noting the colour if being used as identification.

## P4 Limited

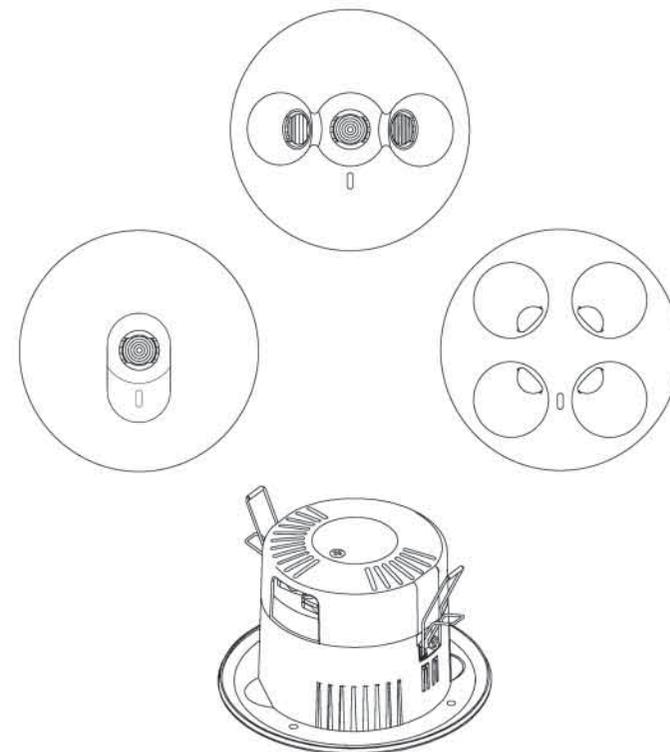
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Details correct at time of publication. P4 reserve the right to change specification at any time.



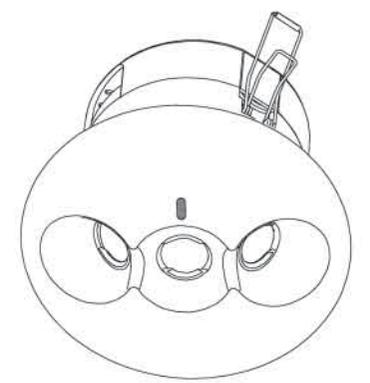
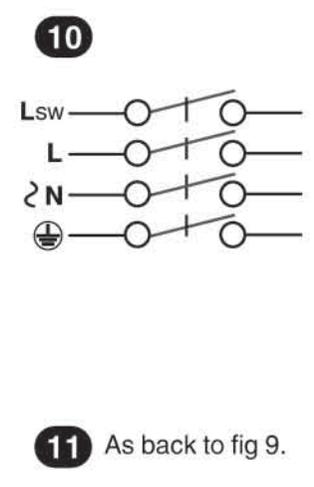
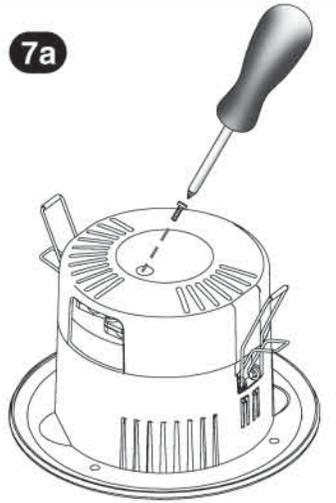
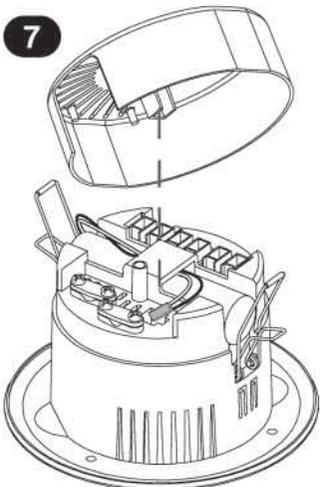
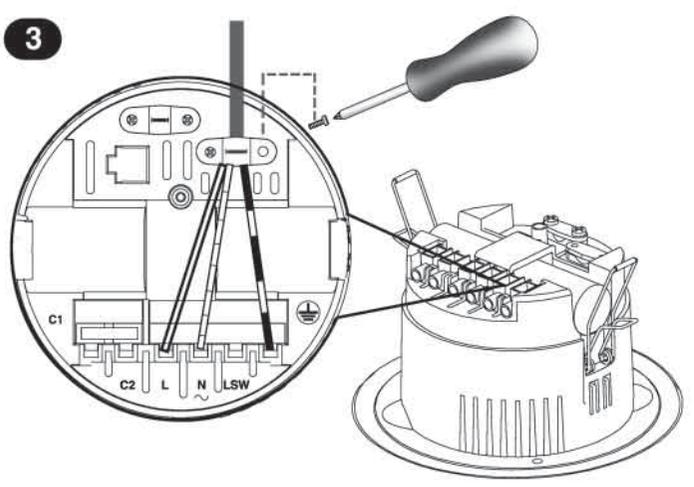
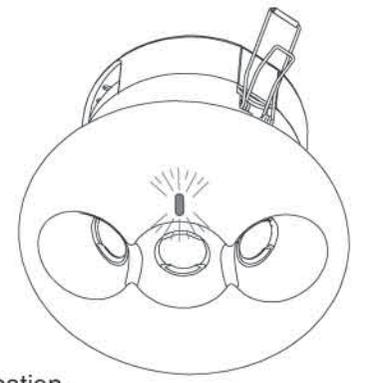
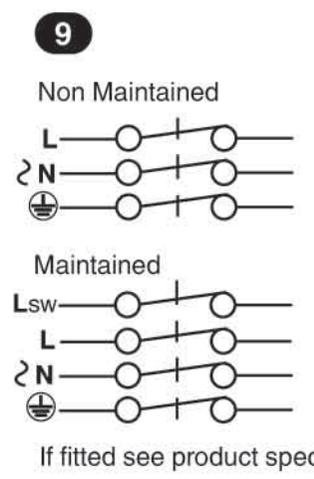
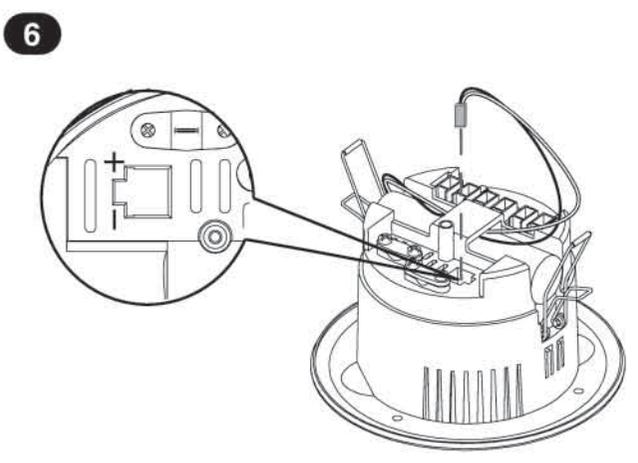
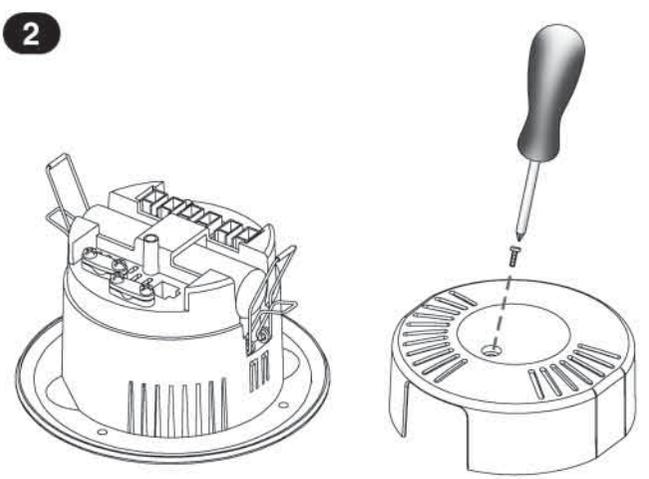
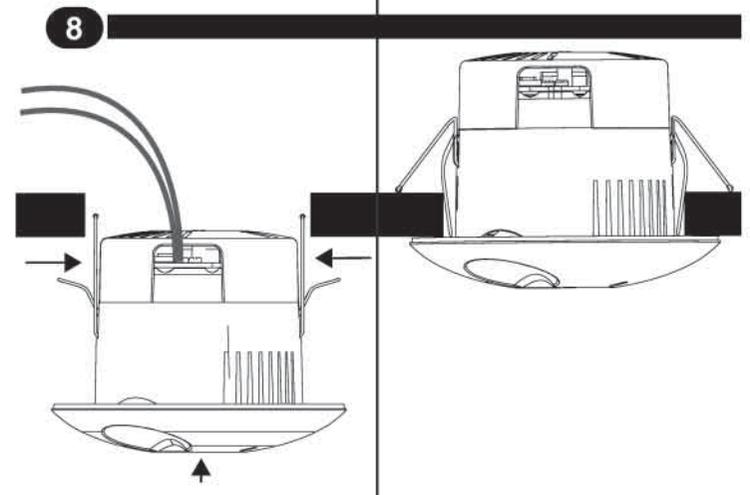
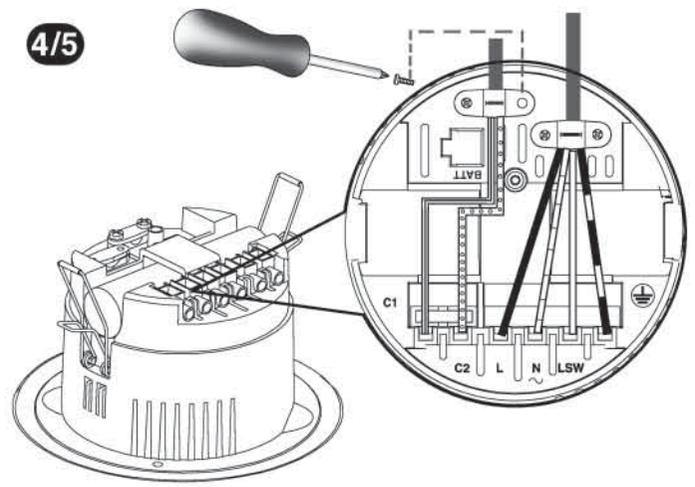
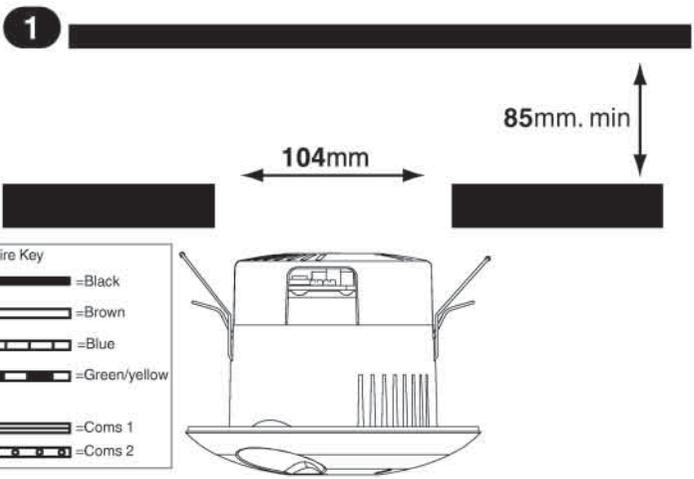
Your Authority in Self-Testing Emergency Lighting



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**11** As back to fig 9.