

## 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 FASTEL test regime description.

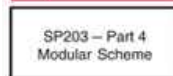
Where stand alone self testing versions are installed, it is necessary at least monthly to record the indicator LED status.

### Remote control and monitoring (SRM units only)

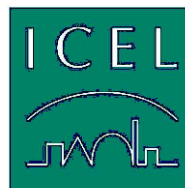
All SRM version luminaires incorporate remote control and monitoring capability. Luminaires may be connected via collector boxes and interface boxes either to a local computer or to a LAN or internet connection and remotely controlled and monitored. All SRM luminaires are assigned individual addresses 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 a separate sheet.

Technical Specification KLIPPA LED Bulkhead	
Supply Voltage	230V +10% -10%, 50/60Hz
Mode of Operation	Non Maintained or Maintained
Weight	K-LED/N/M3 - 0.6kg K-LED/N/M3-SRM - 0.6kg
Duration	3 hours
Recharge period	24 hours for full duration (14 hours for 1 hour)
Light sources	High Efficiency white LEDs
Battery	2.4V 1600mAh Ni-Cd
Ambient temperature	+5°C to +25°C
Degree or Protection	Standard - IP40 KLIPPA IP65 Kit - IP65
Conformity	BSEN 60.598-2-22

Technical Specification KLIPPA 8W Bulkhead	
Supply Voltage	230V +10% -10%, 50/60Hz
Mode of Operation	Non Maintained or Maintained
Weight	K8/N/M3 - 0.6kg K8/N/M3-SRM - 0.6kg
Duration	3 hours
Recharge period	24 hours for full duration (14 hours for 1 hour)
Light sources	8W Fluorescent Lamp
Battery	3.6V 4000mAh Ni-Cd
Ambient temperature	+5°C to +25°C
Degree or Protection	Standard - IP40 KLIPPA IP65 Kit - IP65
Conformity	BSEN 60.598-2-22



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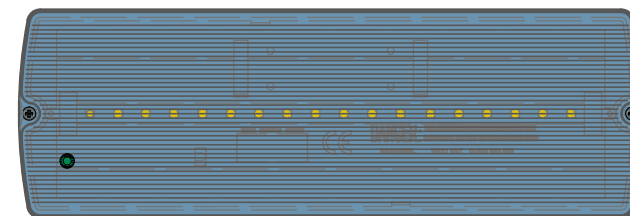


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Details correct at time of publication P4 reserve the right to change specification at any time.



Leading the way in self testing emergency lighting



Installation and Operating Instructions for  
KLIPPA LED Bulkhead & KLIPPA 8W Bulkhead

K-LED/N/M3, K-LED/N/M3-SRM  
K8/N/M3 & K8/N/M3-SRM



BHF150-10 Issue 1. July 2014

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## Installation Instructions

KLIPPA Bulkhead luminaires are fully automatic self testing emergency lighting luminaires and do not require a key switch testing facility.

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

### 1 Removing Diffuser & Gear Tray



Fig 1.

Take the KLIPPA out of the box and unscrew the x2No. retaining screws on the front and unclip the diffuser from the housing. Do **NOT** remove the screw from the diffuser, there are retainer washers fitted to aid re-installation.

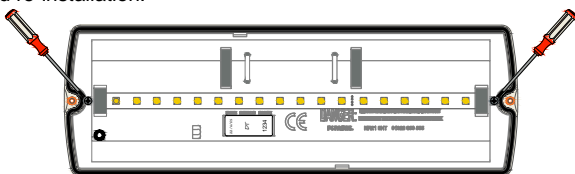


Fig 2.

Remove the x2No. Gear Tray retainer screws (see Fig 2.) and unclip the Gear Tray from the housing unit using a flat bladed screw driver (See Fig 3.)

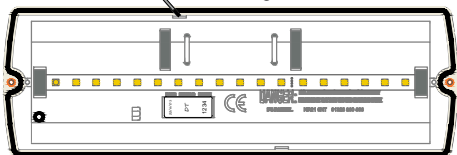


Fig 3.

### 2 Fixing to Conduit Box, Wall or Ceiling

The KLIPPA Bulkhead has been designed to incorporate different mounting methods. Below are examples of the two most common.

#### a Conduit Box Mounting

Identify which way the KLIPPA Bulkhead needs to be mounted by looking at the Conduit Box fixing holes and position. See Fig 4.

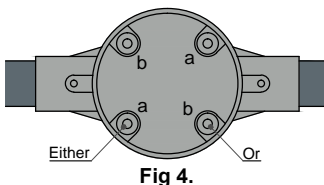


Fig 4.

The KLIPPA Bulkhead housing contains dimples for various different conduit sizes. Choose the size that relates to your conduit box and drill out a suitable sized hole (see Fig 5.) for the fixing screws (not supplied) and a centre hole for the cable.



Fig 5.

Conduit gasket will be required for IP65 KLIPPA Bulkheads in order to maintain it's water resistance.

#### b Ceiling and Wall Mounted

Drill out the required holes and use suitable fixings to secure the fitting to the wall or ceiling. For IP65 KLIPPA Bulkhead, ensure that you use suitable IP65 fixings.

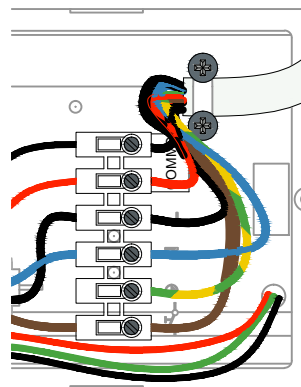


Fig 6.

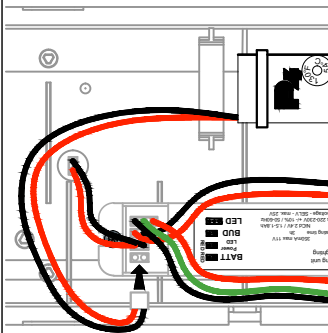
### 3 Wiring Detail

Wire Key	
Black	= Coms 2
Red	= Coms 1
Blue	= Live
Blue	= Natural
Green/Yellow	= Earth
Brown	= Switch Live

Wire the connector block as per the label guides. In case of maintained operation the switched live must be connected to the LSW terminal. Note the switched live and the unswitched live must be from the same phase.

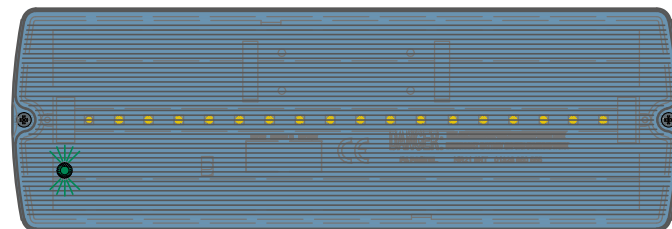


### 4 Battery Connection

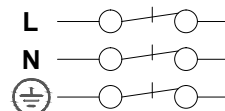


Plug the battery connectors together (Red and Black Cables), ensuring polarity is correct.

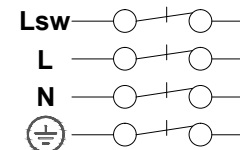
## 5 Applying Mains Supply



#### Non Maintained



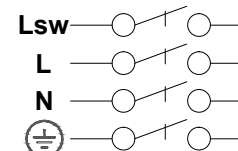
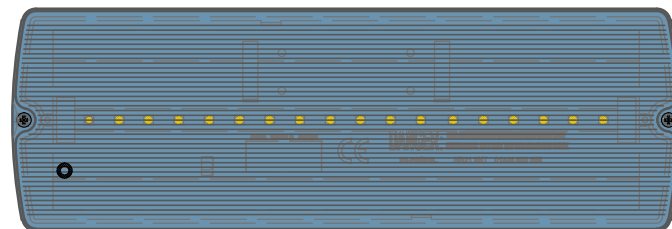
#### Maintained



If fitted see product specification

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.

## 6 Test Emergency Supply



To test, briefly fail the supply to illuminate sign from the internal battery. The indicator LED will be extinguished.

## 7 Reconnect Mains Supply

As fig 5.

Reconnect the unswitched supply to restart battery charging, indicated by the flashing green indicator LED. Reconnection of the Switched Live will re-illuminate the LEDs from the mains supply if connected for maintained operation.