

1. On the luminaire remove the top fixing plate retained by two screws and slide the cover upwards to remove.
2. Remove geartray retained by two screws on both side edges and mark and fix body into position using the BESA fixing or 5mm holes provided.
3. Follow wiring instructions below and replace geartray assembly.
4. Replace cover and top fixing plate previously removed in step 1 (Ensure cover is sited correctly with a small overhang on bottom profile)
5. Follow test procedure as detailed later.

### **Wiring Instruction**

There is no restriction on the type of cable to be used but careful consideration should be applied when calculating the size of cable for larger installations. Voltage drops should comply with the latest I.E.E. wiring regulations. All luminaires should be properly earthed.

### **Mains Version**

This type of luminaire requires a line for standard mains operation mode only, this may be switched or otherwise. The luminaire is supplied with a fused terminal block. Connect the live to "L"; connect neutral to "N" and your earth to the other terminal. Test Accordingly

### **AC/DC Inverter Only Version**

This type of luminaire requires an AC/DC supply from a central battery system. The luminaire may be permanently On or Off. The luminaire is supplied with a fused terminal block. Connect your AC/DC supply + to the terminal marked "L" and connect AC/DC - to "N" (ensure correct polarity). Test Accordingly

### **Maintained Version**

This type of luminaire requires a switched line for standard operation of the mains control gear and a permanent line for the emergency gear. The permanent line provides a reference for the emergency gear and a source to charge the batteries when in standby mode. The luminaire is supplied with a fused terminal block. Connect the terminal marked "USL" to a permanent supply. Connect neutral and switched line (SL) to the other terminals for normal operation of the mains gear.

Check that the Green LED illuminates when mains is applied. After an initial charge follow the test procedure as detailed later. Ensure that the battery leads are never short circuited when disconnected.

### **Non-Maintained**

This type of luminaire requires an unswitched line for operation in emergency mode only. The permanent line provides a reference for the emergency gear and a source to charge the batteries when in standby mode.

The luminaire is supplied with a fused terminal block. Connect the "USL" to a direct supply connect neutral and earth to the other terminals. Check that the Green LED illuminates when mains is applied. After an initial charge follow the test procedure as detailed later. *Both of the above Emergency versions may be wired to a test switch if required on the unswitched line (USL), but remember when testing to remove the switched line on the maintained version first.*

### **Servicing and Lamp Replacement**

SERVICING e.g. CLEANING, GEAR OR FUSE REPLACEMENT SHOULD ONLY BE CARRIED OUT AFTER THE LUMINAIRE HAS BEEN ELECTRICALLY ISOLATED AND ALLOWED TO COOL.

**LED Replacement** - A long life of continuous operation is expected and replacement should not be necessary, if however the led strip fails contact us for replacement(s).

### **Emergency Versions Only**

The life of the batteries will generally depend upon the ambient temperature of the installation. A life of at least four years can normally be expected. If during routine testing the specified discharge is not achieved then the batteries should be replaced. Ensure that the battery leads are never short circuited when disconnected.

**INITIAL TESTING:** Charge the batteries for 24 hours and then turn off the unswitched live feed by operating the luminaire test switch, if fitted (push and hold) or the supply source as necessary. Check that the lamp illuminates at a reduced brilliance and remains on for a specified period. **ROUTINE TESTING:** The unswitched live feed should be interrupted once a month for a short period of time to ensure that the emergency circuit is functioning correctly. Every six months the circuit should be operated for 1 hour and every three years for a period of 3 hours. (Recommendation of BS5266 Part 1:1988)

**Fluorescent Lamps should be in good condition for reliable emergency operation White LED Versions have no serviceable components contact our Sales Department in the unlikely event of a failure.**

### **IMPORTANT**

This product should NOT be modified. Any modification may render this product unsafe and will invalidate its safety/approval marks. Philip Payne Ltd. Will not accept responsibility for any damage caused as a result of their modification. Installation of this product should only be carried out by competent person(s). If in any doubt, consult a qualified engineer.

**WARNING:** Ensure mains are fully isolated before servicing; high voltages greatly in excess of mains voltages can be present during operation. Failed lamps should be replaced promptly or the circuit switched off to avoid possible damage to control gear. Continual operation at mains voltages in excess of the rated voltage will reduce lamp and expected gear life, and may contravene any relevant certificate requirements. *A copy of our safe use for luminaires guide is available to download from our website.*

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