



# Installation Leaflet

## Cylinder Fitting

Directional and Information Signs  
Earthing Class I IP30

### Mounting Instructions

#### Recessed Mounting

285mm (250) / 415mm (300) x 52mm Cut-Out Required.

1. Remove luminaire body from recessing ceiling bracket by removing bottom two screws located on the flanges and unclip the safety chains.
2. Remove side support brackets, offer the ceiling bracket through the ceiling cutout and refit the side support brackets secure in place.
3. Refit the safety chains to the luminaire do not refit screws at this stage (allow luminaire to hang down).
4. Remove perforated cover on the body and after inserting your mains cable(s) through the cable gland on the top edge of the luminaire body, follow wiring instructions as detailed later.
5. Screw the arm assembly into the arm Support Brackets located inside the luminaire. Passing the lamp wires through the threaded bush and connect to lamp sockets within the luminaire.
6. Refit the perforated cover using the two M3 x 6mm screws.
7. Refit the luminaire into the ceiling bracket via the two exterior M3.5 x 12mm captive screws
8. Pass the trimplate over the suspension rods making sure the LED hole (if fitted) lines up to the LED. Fix into place using the two fixing rings.
9. Remove the End Caps from the lamphousing by turning anti clockwise and remove lamp/legend assembly.
10. Offer the Cylindrical lamp housing assembly up to the suspension rods and secure turning the couplers on the lamphousing until secure.
11. Follow legend assembly instructions and slide the completed legend assembly into position. Legend rests on screw arrangement.
12. Connect the two plug and socket arrangements at each end.
13. Refit the end caps.
14. Follow initial testing procedure.

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#### Surface Mounting

1. Remove luminaire body outer cover by removing the ring nuts on each rod fixing point.
2. Fix body into position using the four 5mm diameter holes in the back panel to the required mounting position.
3. Follow the wiring instructions as detailed later.
4. Offer the lamp housing /cover assembly up to the luminaire. ) **NB.** For horizontal lamp housings make sure the slot is in the correct position relative to the luminaire. (if wall mounted facing down).
5. Screw the arm assembly into the arm Support Brackets located inside the luminaire. Passing the lamp wires through the threaded bush and connect to socket within the luminaire.
6. Pass the trimplate over the suspension rods making sure the LED hole (if fitted) lines up to the LED inside faces towards the ceiling and fix into place using the two fixing rings.
7. Remove the End Caps from the lamphousing by turning anti clockwise and remove lamp/legend assembly.
8. Offer the Cylindrical lamp housing assembly up to the suspension rods and secure turning the couplers on the lamphousing until secure.
9. Follow legend assembly instructions and slide the completed legend assembly into position.
10. Connect the two plug and socket arrangements at each end.
11. Refit the end caps.
12. Follow initial testing procedure.

#### 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. Maximum cable size 6mm diameter on Rod & Chain suspended versions.

#### Mains Version

This type of luminaire requires either a switched line or permanent line depending upon requirements. Connect terminal marked "L" to mains line, "N" to mains neutral and other terminal is for mains earth.

### 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.

Connect the battery leads together (ensuring correct polarity) and check that the 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. Connect the battery leads together (ensuring correct polarity) and check that the 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.

Both of the above 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.

### AC/DC Inverter 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" to and connect AC/DC - to "N" (ensure correct polarity). Follow the test procedure as detailed later.

### Legend Assembly

Remove M3.5x12 screw assemblies contained within the lamp housing (For Transit Purposes). Insert screw through pre-drilled holes in legend and through the fixing holes on lamphousing secure with nut on opposite side.

### 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.

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.

**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)

### **Lamps should be in good condition for reliable emergency operation**

### **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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