





## MR16 LOW VOLTAGE DOWNLIGHT PACKS



**PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION  
LEAVE A COPY FOR THE USER / MAINTENANCE ENGINEER FOR FUTURE REFERENCE**

### IMPORTANT INSTALLATION INFORMATION

- The components in this pack are pre-wired for ease of installation
- Installation should be carried out in accordance with the latest edition of the I.E.E. Wiring Regulations (BS7671). If in doubt, consult a qualified electrician.
- Maximum mains supply voltage to the transformer – 240V AC.
- Use only with MR16, GU5.3 lamp cap.
- Ensure that ALL electrical connections are tight with no loose strands.(Even factory made connections)
- These luminaires are for indoor use only.
- Ensure there is adequate free air circulation of at least 50mm around the luminaire. All luminaires run hot. It is the installer's responsibility to consider fire risk and take appropriate precautions.
- The luminaire must not, under any circumstances, be covered with any insulation materials and luminaires must not be installed close to flammable materials.
- Installations requiring Intumescent Fire Hoods – Please Note that if the recommended Aurora Intumescent Fire Hood AU-FH150 is not used with this luminaire, the guarantee is invalid.
- Before commencing installation or maintenance, ensure electricity is switched off at the mains.
- The nearest illuminated surface must be at least 0.5m from the front of the luminaire.
-  35W If this luminaire is to be mounted on a Normally Flammable Surface e.g. a wooden ceiling or a material based on wood, the maximum lamp rating is a 35-Watt lamp.
-  50W Do not use 50 Watt lamps in this luminaire if it is to be mounted on normally flammable surfaces.

### IMPORTANT USER INFORMATION

- Always switch off mains supply before servicing, fitting or changing the lamp.
- Replace failed lamps immediately. Allow the lamp and fitting to cool before replacing lamp.
- Check that the correct lamp type and wattage is fitted (MR16 Max. 35-Watts on flammable surfaces – 50-Watts on non-flammable surfaces).
- Fit self-shielding lamps only.
- Recommended Intumescent Fire Hood: Aurora AU-FH150

### INSTALLATION INSTRUCTIONS

1. Select the required position for the luminaire ensuring the clearances shown in Fig.1 are observed. Beware of joists, water pipes and electric cables. Cut a hole in the ceiling for the type of luminaire to be fitted as follows:

AU-LPL311 – 70mm – Fixed cast downlight

AU-LPL312 – 80mm – Adjustable cast downlight

AU-LPL401 – 72mm – IP65 cast shower light

AU-LPL402 – 76mm – IP44 cast shower light

2. Connect Mains voltage to the transformer input leads using an approved junction box as follows:

**Blue – Neural**

**Brown – Live**

**Green/Yellow - Earth**

Ensure that the fitting does not come into contact with any earthed metal. The “looping-in” of the fixed wiring supply should be maintained. See Fig. 2.

3. Slide the legs of the mounting spring clips into the ceiling cut-out and push the luminaire up into the aperture. Ensure that it is securely located.

## INSTALLATION of IP65 Shower light

4. Insert the housing into the ceiling aperture, squeeze the fixing springs in towards the housing and push into the aperture twisting in an anti-clockwise direction (Fig.3). To lock downlight in position, twist slightly clockwise.
5. Ensure that the lamp is correctly located in the lamp holder. Push the front rim into the housing until it clicks into place (Fig.4). Ensure that the silicon gasket is properly seated between the housing and the front rim.
6. Switch on the power supply.

If your luminaire is not at the end of a wiring spur, then there will be an extra pair of wires together (looping-in wires) in the supply wiring which could be coloured black or red. These should be connected together using a fourth approved terminal block as shown. If in doubt consult a qualified electrician

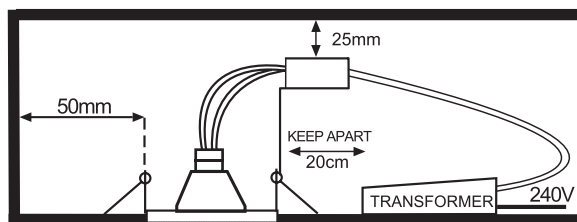


Fig. 1

Fig.3

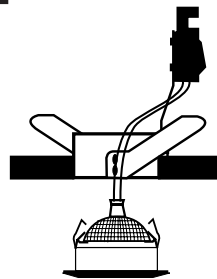
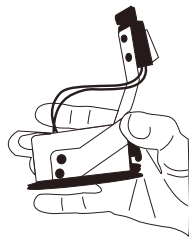


Fig.4

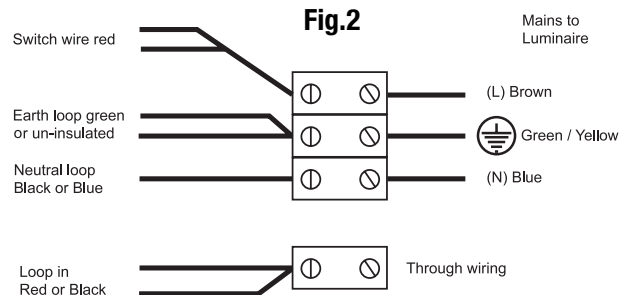


Fig.2

Mains to Luminaire

(L) Brown

Green / Yellow

(N) Blue

Through wiring

Push Bracket between Spring and spring post

## GENERAL

- Aurora low voltage luminaires (class III) should be used with a double insulated, safety extra low voltage (SELV) isolating transformer only.
- The transformer should be located in a well-ventilated position, not closer than 20cm from the luminaire to avoid overheating. The ambient temperature during operation must not exceed the  $t_a$  °C rating of the transformer.
- Dimming of 12V luminaires is possible. First check the compatibility between transformer and dimmer. Aurora electronic and toroidal transformers are dimmable. A slight increase in transformer noise may be evident when dimming.
- Ensure that the correct rating of transformer is used for the total lamp wattage. Electronic transformers require a minimum load to operate. E.g. a 20-60VA transformer requires a minimum load of 20W. Minimum load of 35W is required when dimming.
- The transformer may be fitted in the same circuit as an inductive load as it has 1.5KW surge protection in accordance with EN 61547 +A1.
- Electronic transformers should be disconnected from the mains prior to insulation/megger tests or permanent damage may occur.
- Ensure the primary (mains input) and secondary (low voltage output) leads from the transformer do not cross.
- IP65 shower light is protected against dust and jets of water. It is suitable for installation in locations containing a bath or shower, as defined by the I.E.E Wiring Regulations, Zones 1, 2 & 3 where water jets are likely. The IP44 shower light in Zones 1, 2 & 3 EXCEPT where water jets are likely.

## GUARANTEE

This pack is guaranteed in the UK for a period of 5 years (not including lamp) from the date of purchase. The guarantee is invalid in the case of improper use, installation, tampering, removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations (BS7671). With installations requiring Intumescent Fire Hoods the guarantee is invalid if the recommended Aurora Intumescent Fire Hood is not used with this luminaire. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. Aurora does not accept responsibility for any installation costs associated with the replacement of this product. Your statutory rights are not affected. Aurora reserve the right to alter specifications without prior notice.

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