FIRE MARSHAL

INSTALLATION DATA SHEET

The FIRE MARSHAL range of recessed down lighters offer an economical and practical solution to the requirements of the current building and wiring regulations.

The compact design of the range allows the units to be installed in the tightest of ceiling voids.

Complete with fixed lamp holder and lamp replacement tool the Fire Marshal range enables ease of lamp replacement without the need to pull through and push back wiring.

The range includes a variety of styles and finishes, with a choice of 240v mains with earth terminal or 12v low voltage.

The correct installation of the FIRE MARSHAL fitting is critical to ensure its integrity as a barrier to fire and also its electrical safety. Full instructions are supplied with each fitting. The current building regulations and the requirements of the IEE Wiring Regulations Sixteenth Edition must also be complied with.

The following are important installation criteria:

■ Aluminised Reflector Lamps

Aluminised reflector lamps (50w maximum) must be used in all types of FIRE MARSHAL fittings**.** All FIRE MARSHAL fittings come supplied with a branded aluminised lamp. It is important to ensure that this type of lamp is always used. GU10 mains lamps are generically heat forward. GX5.3 low voltage lamps can be 'heat forward' (aluminised) or 'heat back'. The use of 'heat back' lamps in a FIRE MARSHAL fitting may cause the fitting to overheat leading to premature lamp failure, damage to the lamp holder, wiring and the fitting itself.

The packaging, the instructions supplied with the fitting and the fitting itself are all marked accordingly.

■ Cut Out Aperture

The circular accuracy and diameter of the cut out aperture is critical to the fittings performance as a barrier to fire. Oversize or irregular size cut out apertures can reduce the intumescent materials ability to provide a full 120 minute fire block.

■ Ventilation / Insulation

Adequate ventilation in the ceiling void is recommended, 100mm around the fitting and 50mm above the top of the fitting. The building regulations require that insulation in voids be continuous. To accommodate this we recommend the use of a 'batten box*'. This allows the insulation to be laid correctly over the FIRE MARSHAL installation and ensures building regulations compliance.

* Batten boxes come in many different types, sizes and configurations for different applications and environments. Because of this we are not able to recommend one type or design. In some installations the use of a batten box is not always possible. In these cases the installer must decide on the best method to be used. The operating temperature of the FIRE MARSHAL fitting is approximately 65^{o}C over ambient when correctly ventilated. Laying insulation material directly in contact with the FIRE MARSHAL fitting causes the operating temperature to increase by a further 50^{o}C. The operating temperature therefore rises to approximately 115^{o}C over ambient. The higher temperature will reduce lamp life and the longevity of the fitting itself. This should be kept in mind if the installer chooses to use this method. It should also be noted that if a low voltage 'heat back' lamp is fitted in error this will significantly further increase the operating temperature of the fitting. This may cause severe overheating leading to persistent lamp failure and permanent damage to the lamp holder, wiring and the fitting itself.