



Description – 50Watt GU10 / Low Voltage Inground, IP67



Installation Instructions

Luminaire Code(s) – **AWO50**

General Installation Instructions

These instructions should be read carefully prior to any installation and retained after completion for further reference and maintenance. Please give these instructions to the building owner/occupier after installation.

Important Safety

1. Before installation, maintenance or lamp replacement, ensure that the mains supply to the luminaire is switched off and the circuit supply fuses are removed or the circuit breaker is turned off.
2. It is recommended that only a qualified electrical contractor carries out the installation of this luminaire and that the luminaire is installed in compliance with the current edition of the IEE Wiring Regulations.
3. The person carrying out the installation is to check and verify that the total load on the circuit, including that of this luminaire does not exceed the rating of the circuit cable, fuse or circuit breaker.
4. Where a luminaire incorporates discharge control gear (inductive load), the circuit capacity and ratings require careful sizing to avoid nuisance tripping of the protective device used in the installation.
5. Where applicable, careful consideration should be taken during installation to ensure that all fixings and/or suspensions are of a suitable size for the luminaire being installed.

Ratings

1. All luminaires are manufactured & tested in compliance with the requirement contained within BS EN 60598 and are CE marked.
2. All luminaires carrying the "F" mark are suitable for installation on to normal flammable surfaces.
3. All luminaires that are of Class 1 construction and that are marked accordingly, **MUST** be earthed.
4. All luminaires are designed to operate at 230Volts AC -2% / +10% = 225Volts to 253Volts. Do not operate outside these voltages
5. All luminaires are only suitable for applications within their rated Ingress Protection limits as stated.

Installation

- This fitting is supplied with both a GU10 Mains Lampholder and a 12V L/V Lampholder.
- When installing the 50Watt Low Voltage option, the fitting must not be connected directly to a Mains Voltage supply. It will require a suitable 12V transformer (Ansell: ATX20/60/IP68).
- The GU10 option is to be connected directly to a Mains Voltage supply.
- Separate the luminaire from the PVC inground tub,
- Remove the Allen Key screws which retain the stainless steel ring to the body.
- Remove the glass and remove the reflector.
- The luminaire has two IP67 glands to allow for the option of through wiring. For installations where only a single gland entry is required, a grommet blank is supplied with the luminaire in order to seal the second gland entry.
- Place the PVC inground tub in the ground.
- The incoming cable is to be terminated in a suitable junction box enclosure with a minimum ingress protection of IP67.
- For the Low Voltage option, a suitable transformer **must** be included within the circuit and if fitted externally, **must** be either Ingress Protected to a minimum of IP67 or be installed within a suitable waterproof enclosure.
- The cable from the junction box enclosure to the luminaire is to be of a suitable size and type to maintain the IP Rating of this luminaire following installation.
- Sufficient cable is to be left during installation to allow the luminaire to be removed from the PVC tub for any future maintenance that may be required.
- Connect the incoming mains cable to the terminal block ensuring correct polarity is observed and the luminaire is earthed.
- Tighten securely the cable gland to ensure that the luminaire will be adequately sealed.
- Replace and position the reflector to the inclination angle required.
- Obtain and install the correct lamp for the appropriate luminaire.
- Check that the top of the luminaire is clean and correctly place the glass fitted with the seal to the fitting and secure the Allen Key screws.
- Tighten the screws making sure that the glass remains correctly seated in order to maintain the Ingress Protection.
- Restore power supply, switch on and test for satisfactory operation.

Notes:

- Extreme caution should be taken when using this fitting with halogen lamps.
- The glass cover and outer bezel will get very hot during use, as a result of heat generated from the lamp. It would not therefore be suitable for exposure to bare skin.



Cable Installation from the junction box enclosure to the Luminaire

- The power supply cable must be with a double insulated sheath cable, and fitted according to the instruction for installation.
- The diameter of rubber cables can vary from manufacturer to manufacturer.
- The cable can vary from a diameter of 9mm to that of 12mm. (Details of an accepted installation cable are provided below)
- HO7RN-F cable is used extensively for trailing and flexible supply leads in either single or multi-core versions with these rubber cables remaining flexible even at sub-zero temperatures.
- The cable is constructed from fine copper wire strands to BS6360 class 5. Rubber insulation colour coded to BS6500. (Cables with over 5 cores, A07RN-F, are number coded). Cores twisted together. Black Neoprene (PCP) outer sheath to BS7919:2001 table.

Technical Information – HO7RN-F Cable

Voltage	Temperature Range	Bending Radius	Current Rating
WORKING – 450 / 750Volts TEST – 3000Volts	-25 °TO +85 °C	STATIC - 15 X CABLE DIAMETER FLEXING - 6 X CABLE DIAMETER	REFER TO IEE REGS TABLE 4H2A & B

Conductor Stranding To BS 6360 Class 5 & VDE 0295 Class 5.

Core and Size (mms)	Stranding (mms)	Nominal Outside Dia. (mms)	Weight (kg/1000m)
3 core x 1.5 mm ²	30 / 0.50	10.3	141

The overall diameter shown has been taken from measuring the actual cable.

NOTE:

- Information enclosed is assumed to be correct, but it remains the electrical contractors' responsibility to verify the relevant cable information and sizes prior to installation. It also remains the electrical contractors' responsibility to undertake the installation in compliance of the current wiring regulations and manufacturers' instructions, whilst also meeting with the good installation practice of allowing for subsequent maintenance or replacement of the luminaire.
- **Caution: Surface Glass temperature on Halogen luminaires will get very hot under normal operating conditions.**



Maintenance:

1. Where applicable, it is important to ensure failed lamps are replaced immediately in order to prevent damage to the control gear.
2. Always replace lamps with the same lamp type and wattage as supplied. When replacing Metal Halide Lamps it is important to note that there are different types of Metal Halide Lamps and some types of lamps will not be suitable for use with the control gear fitted within this luminaire. If you are in doubt, please contact your equipment supplier or Ansell Lighting for further advice.



Disposal of Electronic Equipment WEEE Directive 2002/96/EC

This product falls within the scope of the Waste Electrical & Electronic Equipment Directive (WEEE), which means the product should not be disposed of as normal household waste. Ensure that this luminaire and lamp is disposed of in accordance with the WEEE Directive. Contact a local Council Waste Dept. Local Amenity Site, or the DTI for further information.
RoHS - All components and materials used in this product are **RoHS** 2002/95/EC compliant.

