PRODUCT USER GUIDE

IP-03 Weatherproof Enclosure

Rev: C4

PLEASE READ THIS USER GUIDE BEFORE INSTALLING, OPERATING OR PERFORMING MAINTENANCE ON THE ENCLOSURE.

IP55 RATED

SUITABLE FOR OUTDOOR USE

MADE IN U.K. PREMIUM QUALITY

INTRODUCTION

Thank you for purchasing this UFO weatherproof enclosure which is fitted with an LED light source unit.

To ensure the enclosure is mounted and connected correctly please read this user guide before installing and operating or performing any maintenance on the enclosure. To ensure that the light source within the enclosure is set up optimally and gives a long service life, please read the light source user guide supplied with the enclosure before installing operating or performing any maintenance on the unit. Please keep both these guides for future reference.

IMPORTANT

This product must be installed in accordance with the applicable installation code, by a person familiar with the construction and operation of the product, and the hazards involved. When used in the USA or Canada, cables connected to this enclosure must be UL listed and not only suitable for functional purposes but also for the environment/location in which the enclosure is installed.

Type Y Attachment: If the external flexible cable or cord of this luminaire or associated PSU/driver is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person to avoid a hazard.

Location: This enclosure must be located out of direct sunlight and away from areas prone to flooding.

Circulation: It is imperative that a gap of at least 300mm is left around the unit and it is located away from any other heat source. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the unit.

Mounting: This enclosure should be fixed upright to a vertical surface only, with sufficient gap at the front to allow the enclosure lid to be opened the full 130° for internal access.

Seal Integrity: Always close and secure the enclosure door after access.

SEA WATER & SALINE

Please be aware that UFO will not specify, supply or install this enclosure for use in any area where corrosion or damage from saline or brackish water may occur. This includes near the sea, on ships or in any other areas where the enclosure would be in an unprotected area.

Damage caused by salt water due to improper, unprotected siting of the enclosure will void any and all UFO warranties on the product. UFO strongly recommend that the enclosure is not installed in any location where such damage may occur.

MODEL VARIATIONS

The UFO IP-03 enclosure is available in two power source variants:

1. DC supply (12V, 24V or 48VDC) denoted by the model number having the suffix DC. This version has the light source DC PSU mounted remotely external to the enclosure and the unit is powered from the DC supply to a terminal block inside the enclosure. For this version, the PSU can be supplied by UFO or the customer. For the USA and Canada, if supplied by the customer the PSU must be UL listed and not only suitable in terms of correct voltage and wattage but also suitable for the environment/location in which the PSU is to be installed.

2. Mains supply (240V 50 Hz) denoted by the model number having the suffix AC. This version has the light source 12V, 24V or 48V DC PSU mounted inside the enclosure and the unit is powered from a mains supply to a fused terminal block inside the enclosure.

Four IP-03 enclosure variants are shown in the examples on the followng pages.

Figures 1 and 2 are schematics of the 24V light source version using a UFO Sirius light source as an example. For DC supply voltages more than 12V a DC-to-DC converter is used to power the 12V DC fan.

Figure 3 below is a schematic of the 12V light source version using a UFO Nebula light source as an example.

FIGURE 1 - AC SCHEMATIC USING SIRIUS LIGHT SOURCE

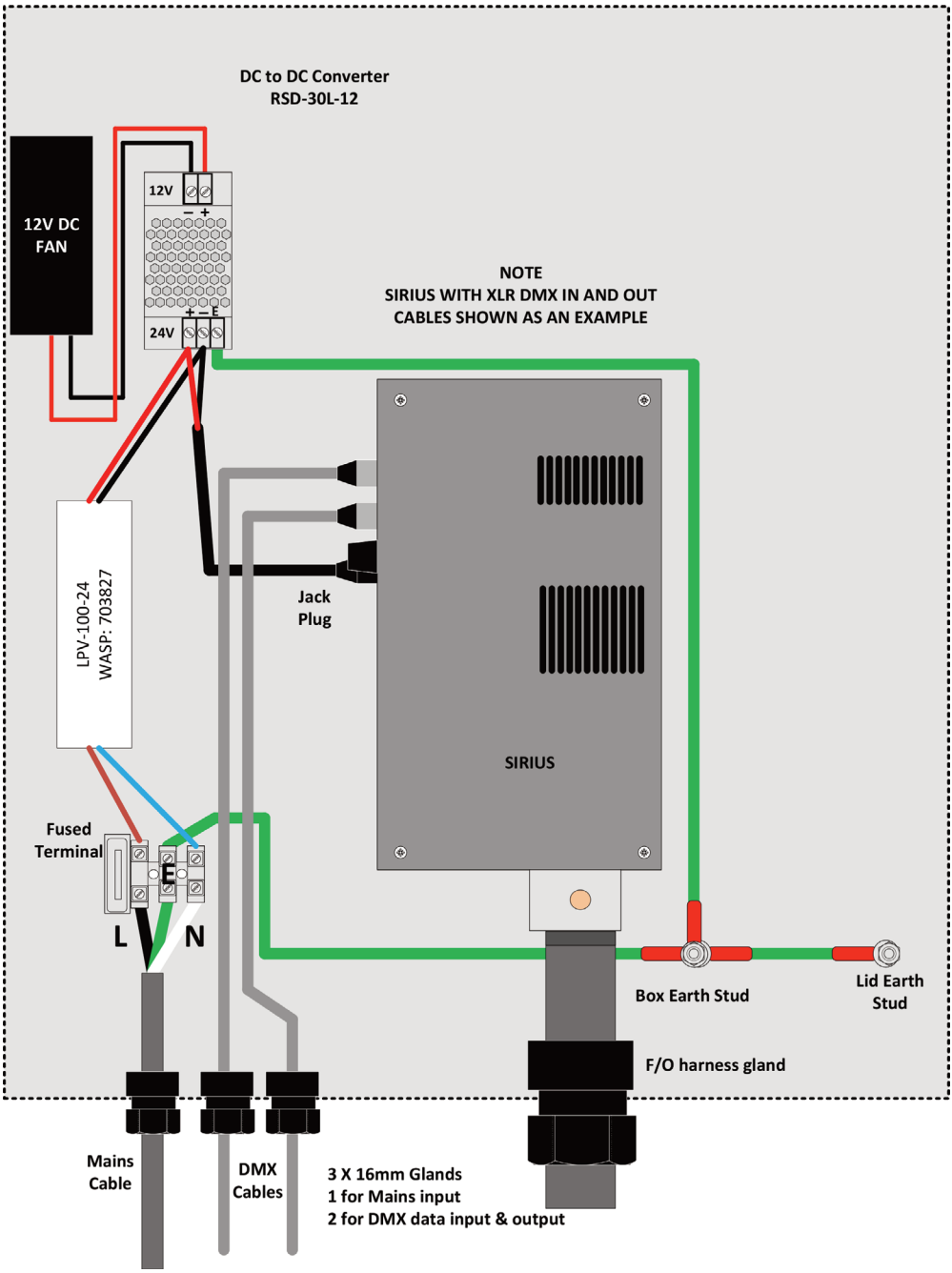


FIGURE 2 - 24V DC SCHEMATIC USING SIRIUS LIGHT SOURCE

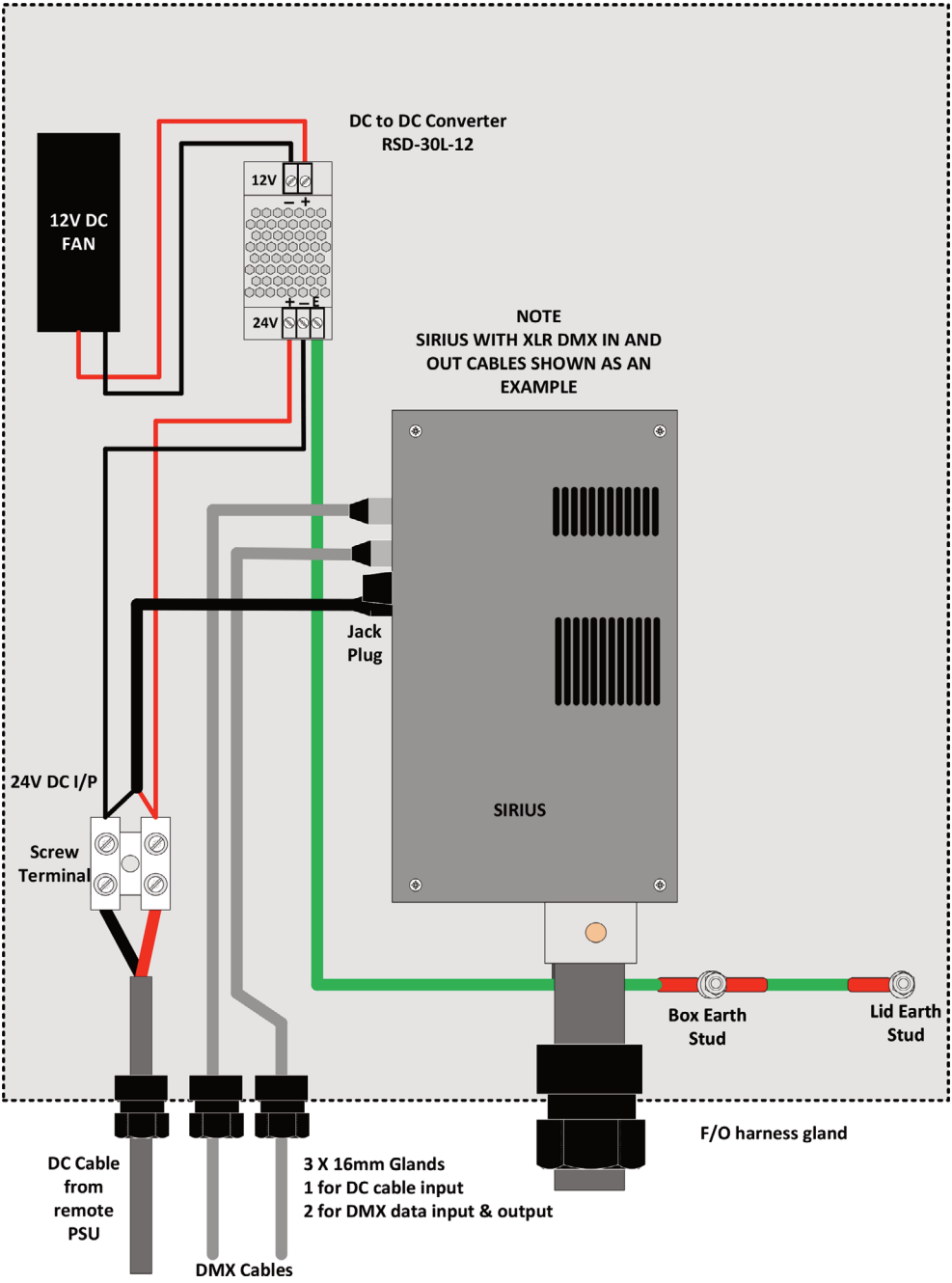
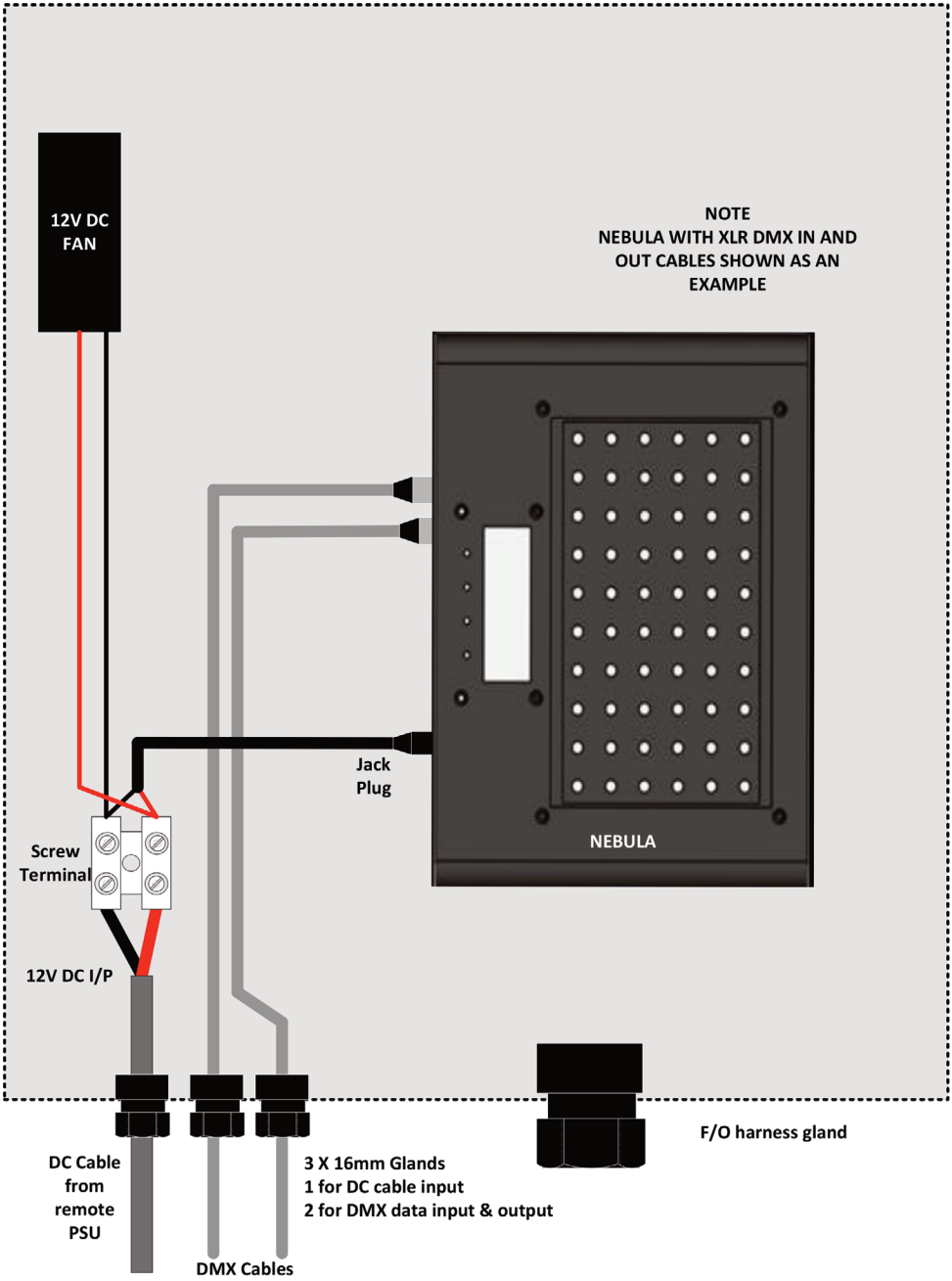


FIGURE 3 - 12V DC SCHEMATIC USING NEBULA LIGHT SOURCE



MODEL INFORMATION

SIRIUS WHITE LIGHT PRODUCT CODES

Ordering Code	Control Options	Power Variant	Total Power
UFO IP03-SIR-CT-AC	Manual, DMX, 0-10V	240VAC 50Hz	90W
UFO IP03-SIR-CT-DC	Manual, DMX, 0-10V	12V DC	90W

CT in product code is used to designate white colour temperature - WW (warm white / 3000K), NW (neutral white / 4000K), SW (studio white / 5300K), CW (cool white / 5500k)

SIRIUS DECORATIVE PRODUCT CODES

Ordering Code	Control Options	Power Variant	Total Power
UFO IP03-SIR-CT-C-X-AC	Manual, DMX, 0-10V	240VAC 50Hz	90W
UFO IP03-SIR-CT-C-X-DC	Manual, DMX, 0-10V	12V DC	90W
UFO IP03-SIR-CT-C-S-AC	Manual, DMX, 0-10V	240VAC 50Hz	90W
UFO IP03-SIR-CT-C-S-DC	Manual, DMX, 0-10V	12V DC	90W
UFO IP03-SIR-CT-T-X-AC	Manual, DMX, 0-10V	240VAC 50Hz	90W
UFO IP03-SIR-CT-T-X-DC	Manual, DMX, 0-10V	12V DC	90W
UFO IP03-SIR-CT-T-S-AC	Manual, DMX, 0-10V	240VAC 50Hz	90W
UFO IP03-SIR-CT-T-S-DC	Manual, DMX, 0-10V	12V DC	90W

CT in product code is used to designate white colour temperature - WW (warm white / 3000K), NW (neutral white / 4000K), SW (studio white / 5300K), CW (cool white / 5500k)

NEBULA PRODUCT CODES

Ordering Code	Control Options	Power Variant	Total Power
UFO IP03-NEB-RGB-AC	Manual, DMX	240VAC 50Hz	30W
UFO IP03-NEB-RGB-DC	Manual, DMX	12V DC	30W
UFO IP03-NEB-WLCT-AC	Manual, DMX	240VAC 50Hz	30W
UFO IP03-NEB-WLCT-DC	Manual, DMX	12V DC	30W

CT in product code is used to designate white colour temperature - 27 (2700K), 30 (3000K), 40 (4000K), 57 (5700K), 65 (6500K) or MX (mixed)

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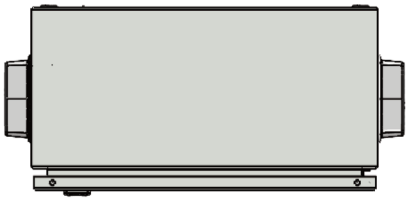
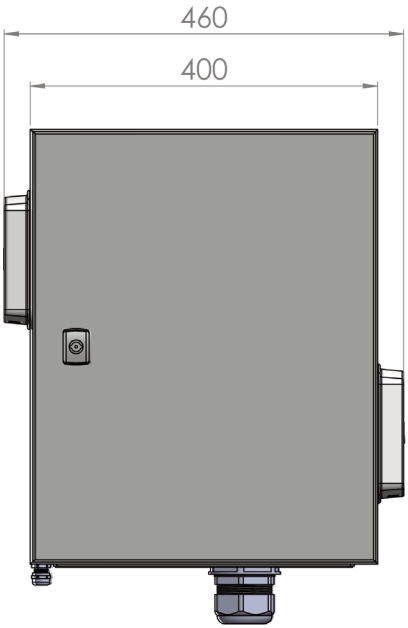
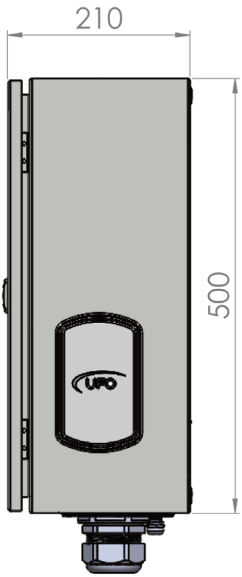
DIMENSIONS







Note that dimensions are shown in mm.

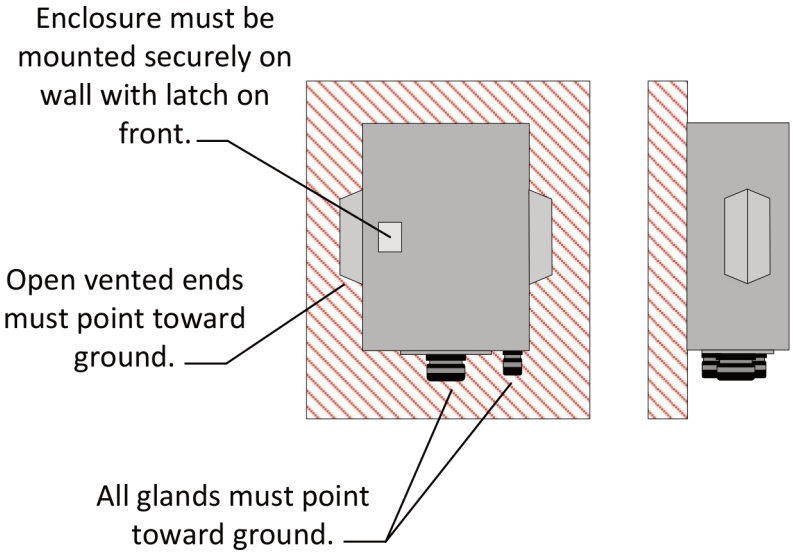
MOUNTING THE ENCLOSURE

We only support the installation of the enclosure when it is wall mounted in the orientation detailed below.

The enclosure must be located out of direct sunlight and there must be a minimum of 300mm (12”) of space around all sides to allow for air circulation and to prevent overheating.

Mounting the enclosure in any other way will potentially allow water ingress into the unit.

UFO will accept no responsibility for any loss or damage that occurs due to incorrect mounting.



MOUNTING THE ENCLOSURE

The diagram below shows the mounting hole positions on the rear face of the enclosure.

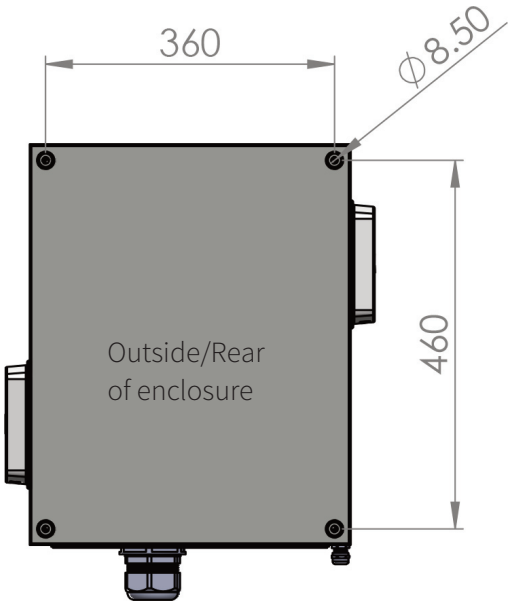
Mount as follows:

1. Support the enclosure against the mounting surface and use a spirit level to ensure that it is level. As detailed opposite, the glands must be facing downwards.

2. Mark the 4 mounting hole positions and remove the enclosure from the surface.

3. Choose appropriate fixings for the surface that the enclosure is being mounted to. Note that unless UFO are installing the unit then we do not supply fixings. This is due to the large variance of surface types the enclosure may be mounted to.

4. Follow the instructions for the chosen fixings and use them to secure the enclosure to the mounting surface.



MOUNTING THE REMOTE PSU

For remote DC enclosures (suffix DC) the remote PSU should be mounted in a suitable location considering the following to minimise voltage drop between PSU and enclosure:

1. Distance between PSU and enclosure.
2. Size (AWG) of interconnecting DC cable between PSU and enclosure.

NOTE: Maximum distance of 10m of interconnecting cable based on a minimum cable size of 16AWG.

CONNECTION - FOR DIRECT MAINS OPERATION (AC SUFFIX MODELS)

There may up to three connections required via the appropriate gland:

1. The fibre harness.
2. The DMX or 0-10V cables for any light sources with that control functionality
3. Mains supply cable.

The fibre harness should be connected first. Loosen the fibre optic gland in the gland plate and carefully feed the harness through the gland, insert the common end connector into the light source aperture and tighten the locking screw to hold it in place. Ensure the fibre optic connector is fully inserted into the aperture before tightening the gland to create a seal. Do not overtighten the nylon gland. Never run the luminaire with the fibre optic harness out of the aperture.

Loosen the gland for the DMX or 0-10V cables and feed the cables carefully through the gland leaving sufficient slack inside the enclosure to reach the back of the light source. Tighten the gland and fit RJ45 or XLR connectors to the cables as detailed in the light source user guide. Plug the cables into the light source.

Loosen the gland for the mains cable and feed the cable carefully through the gland leaving sufficient slack inside the enclosure to reach the fused terminal block. Prepare the cable end and wires for connection allowing sufficient bare conductor to enter the terminal fully.

Connect the incoming wires as follows:

- Green to earth
- Black to Live
- White to Neutral

CONNECTION - FOR REMOTE DC OPERATION (DC SUFFIX MODELS)

There may up to three connections required to be connected via the appropriate gland:

1. The fibre harness.
2. The DMX or 0-10V cables for any light sources with that control functionality
3. DC supply cable to the enclosure.

The fibre harness should be connected first. Loosen the fibre optic gland in the gland plate and carefully feed the harness through the gland, insert the common end connector into the light source aperture and tighten the locking screw to hold it in place. Ensure the fibre optic connector is fully inserted into the aperture before tightening the gland to create a seal. Do not overtighten the nylon gland. Never run the luminaire with the fibre optic harness out of the aperture.

Loosen the gland for the DMX or 0-10V cables and feed the cables carefully through the gland leaving sufficient slack inside the enclosure to reach the back of the light source. Tighten the gland and fit RJ45 or XLR connectors to the cables as detailed in the light source user guide. Plug the cables into the light source.

Loosen the gland for the DC cable and feed the cable carefully through the gland leaving sufficient slack inside the enclosure to reach the terminal block. Prepare the cable end and wires for connection allowing sufficient bare conductor to enter the terminal fully.

Connect the incoming wires as follows:
- Red to DC positive
- Black to DC negative

COMPLETING THE CONNECTIONS AND POWERING UP

Once all the connections have been made as detailed in the Installation section of this user guide and the same corresponding section of the light source user guide, connect mains power to the enclosure (AC version) or the remote PSU (DC version). If no light is produced consult the TROUBLESHOOTING section in this manual and the light source manual.

TROUBLESHOOTING GUIDE

Problem	Probable Cause	Possible Solution
AC & DC enclosure model. Unit is dead – no light output power indicator on PSU is out	Mains supply off	Check supply and reinstate
	Loose connector(s)	Check all required plugs and sockets are fully mated
	Blown fuse or circuit tripped	Check fuse/trip & replace/reset if necessary. If problem persists, isolate mains and contact UFO
AC & DC enclosure model. Unit is dead – no light output, power indicator on PSU is lit	Light source not connected correctly	Refer to Troubleshooting section in light source user guide
	Light source not set up correctly	Refer to Operation section in light source user guide
DC enclosure model. Unit is dead – no light output, power indicator on PSU is lit	Voltage drop in DC cable too great	Check DC output at PSU and at terminal block in the enclosure. Increase size of cable or mount PSU closer to the enclosure
	Wiring incorrect - DC polarity reversed at the enclosure	Check polarity at the enclosure terminal block. Rewire the terminal block correctly.
AC & DC enclosure model – light output but some control functions not working	Light source not set up correctly	Refer to Troubleshooting and Operation section in light source user guide
AC & DC enclosure model – light output but enclosure running hot	Fan dust filters clogged	Remove filters and clean.

MAINTENANCE RECORD

Date	Maintenance Undertaken

Note: A record of all maintenance MUST be kept in the table above, indicating what maintenance was undertaken and when. This MUST be dated for warranty purposes.

TECHNICAL INFORMATION

Port Connector Size	30mm
Fibre Type	Glass or PMMA
Material & Finish	Sheet Steel, RAL7035
Overall Dimensions	500mm x 400mm x 210mm 19.7” x 15.7” x 8.3”
Protection Category*	IP55
Min Ambient Temp.	-10°C / 14°F
Max Ambient Temp.	45°C / 113°F
Mains Supply Voltage	240V AC, 50Hz
DC Supply Voltage	12V DC - Nebula 24V DC - Sirius 48V DC - Pulsar
LED Power (Max.)	30W - Nebula 90W - Sirius 130W - Pulsar
Control Options	Nebula - DMX & Manual Sirius - DMX, 0-10V & Manual Pulsar - DMX, 0-10V, 1-10V, Manual, Remote

* Note that the IP protection category only applies when the enclosure is mounted as specified by UFO - see page 2 for details. Mounting the enclosure in any other way invalidates the IP rating and the product warranty. UFO will accept no responsibility for any loss or damage that occurs due to incorrect mounting.

DESIGN

SPECIFY

BUILD

INSTALL

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