



User Guide



Pico LED DOWNLIGHT FITTING

Rev. D1

This guide contains important safety information and installation instructions.

Please read fully before installing, operating or performing any maintenance on the product.

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Introduction & Safety

Thank you for purchasing this UFO LED light fitting. This user guide contains important information and should be read fully before any installation work commences. Please keep for future reference.

The UFO Pico is a constant current LED fitting which is installed by push-fitting through a 8.5mm diameter panel hole and securing with a backnut. The fittings snoot is adjustable once installed and can be tilted and rotated to light specific objects.

If a UFO driver or driver and dimmer has been specified for the system they will be supplied with their own user guide. Refer to that guide for all electrical and wiring details for the specific unit supplied.

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, its component parts and the hazards involved.

Electrical wiring and connection must be carried out by a suitably qualified person observing all local and statutory electrical regulations.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

These luminaires are suitable for use only with a driver which is rated as either class 2 or class 3 SELV.

Important Safety Information

Risk of fire, do not install insulation within 75mm (3 inches) of unit or above unit in such a manner to entrap heat.

These LED fittings operate on a low voltage constant current electrical supply. Constant current and constant voltage LEDs cannot be intermixed on the same driver. Refer to the specific section of this guide and any guides supplied with the driver unit for wiring and connection guidance.

Connecting constant current LED fittings to a driver with excessive minimum voltage output will result in catastrophic damage to the LED devices within these fittings. Always check the minimum voltage output voltage of the driver and ensure that, based on each LED using 3.2V, an adequate number of fittings are connected prior to powering up the system.

These LED fittings are not mains dimmable.

Hot plugging constant current LED fittings to a driver may result in catastrophic damage to the LED devices within the fittings. Always ensure that the driver is powered down before adding or removing a constant current fitting.

These LED fittings are suitable for indoor / dry area use only and must not be installed in damp or wet locations.

UFO splitters are supplied with removable continuity links. Retain these links for future use. See page 5 for further information.

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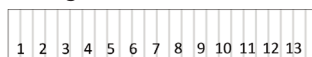
04 Installation Guide

Before installation commences, unpack the shipment and check that all expected components are included. If anything is missing contact UFO for advice.

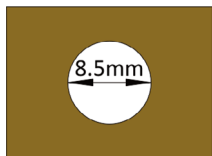
It is recommended that the installation is properly planned prior to starting to ensure that the splitter unit is centrally located and all cables will reach the intended locations of the LED fittings.

Installation Procedure

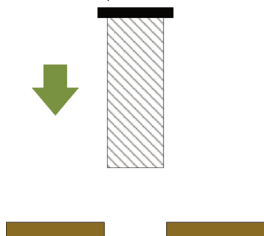
1. Measure and mark the positions of the LED fittings.



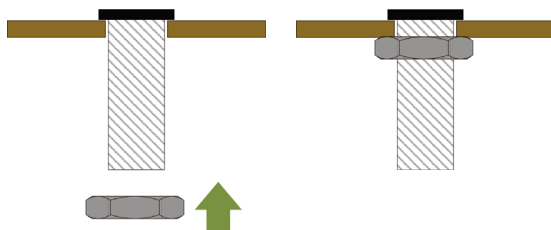
2. Drill an 8.5mm diameter hole for each fitting.



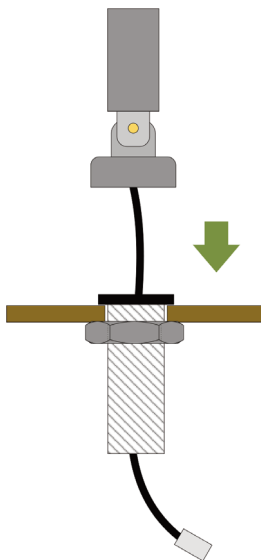
3. Push the M8 bolt all the way into the hole.



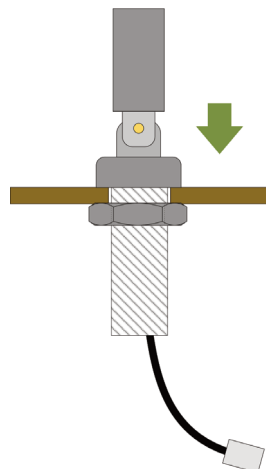
4. Screw the backnut all the way up and tighten securely.



5. Thread the power cable through the bolt.



6. Push the magnetic fitting cover over the bolt head



A complete LED lighting system as supplied by UFO typically consists of:

- 1 or more LED fittings
- A 12 way series splitter
- A driver unit with control options as specified on order

Series Splitter

The series splitter maintains the constant current circuit at each splitter channel.

After the LED fittings have been installed (see opposite) each of them must be connected to an output port on the series splitter.

Unused output ports on the series splitter must be fitted with the supplied continuity link plugs. Failure to terminate each port with either an LED fitting or a link plug will result in an incomplete circuit and loss of light output.

Drivers

UFO offer a selection of constant current drivers for our LED fitting range. The unit specified will depend on the control options required. Consult the user guide supplied with the driver for all information regarding the driver unit.

If you are using a constant current driver which has not been supplied by UFO the following specification must be followed. UFO will accept no responsibility for loss or damage caused by using a driver which has not been approved by us.

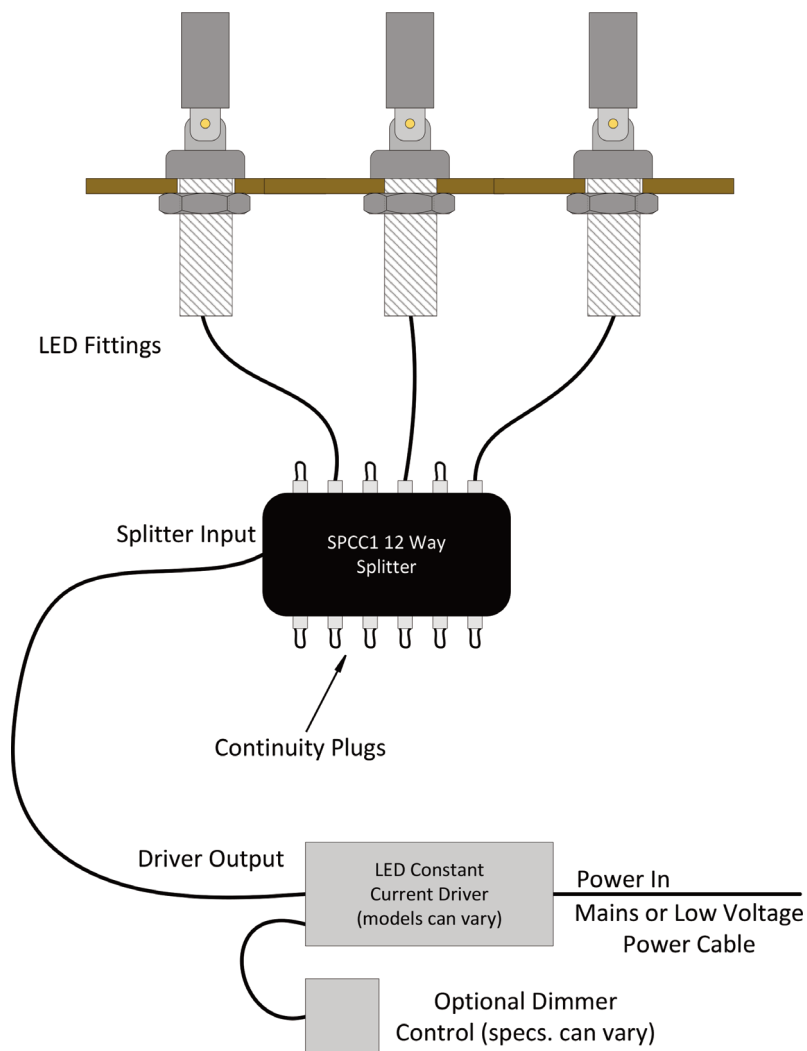
- 350mA or 500mA output (500mA option not available in the USA or Canada)
- Rated as class 2 or class 3 SELV
- UL / CE approved (territory dependant)
- Short circuit / overload / over voltage protection
- Min. voltage rating not to exceed the number of fittings
- Number of fittings not to exceed the max. voltage rating

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Typical Wiring Schematics

Ensure that you connect all LED fittings and associated components - driver, splitter, dimming control and power supply before connecting the system to the mains supply.

Do not hot-plug the LED fittings - always power down the system before connecting or disconnecting.



System is dead No light output from LED fittings	Mains supply off	Check supply & reinstate
	Loose mains plug(s)	Check plugs
	Loose DC output wire or connection	Check all connections
	Splitter LED channel not terminated	Check all splitter channels have LED fittings or continuity links fitted
	Single LED failed	Replace faulty LED
	Multiple LEDs failed	Gradually replace LED plugs with continuity links until LEDs light. Do not reduce the number of LEDs plugged into the splitter below the driver minimum
	Driver failed	Check output with multi-meter. With power on and no LEDs lit, DC output voltage should be at maximum
Some LED fittings not illuminating	Short circuit damaged cable between LED & splitter	Replace or repair
	LED short circuit	Replace LED and cable
	Faulty or wrong connection at driver	Check driver & dimmer connections.
LED fittings on full illumination but not dimming	Faulty dimmer or damaged dimmer control cable.	Remove dimmer control cable from dimmer. Check continuity of cable and dimmer pot.
	Failed driver	Replace driver

08 Maintenance Record

Note that a record of all maintenance **must** be kept in the table below. This must be dated and is required for warranty purposes.

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Light Source	White light LED
Operating Environment	Indoor use only
Material	Aluminium
Available Finishes	Anodised black or silver
Dimensions	Height: 31mm retracted / 37mm extended Diameter: 9mm head / 12mm base
Securing Method	Secured with back nut
Rotation	360°
Tilt	130°
LED Type	Osram Oslon Square
LED Life (L70, B10)	>54,000 hours
Fitting Drive Current	150mA
Power Consumption	0.5W @ 150mA
LED Voltage Rating	3.2V
Colour Temp. Options	3000K, 4000K
CRI (typical)	>96
LED Luminous Efficacy	27lm/W
Driver Type	Constant current LED driver
Optic	15° - 37° focusable lens

10 Notes



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DESIGN



SPECIFY



BUILD



INSTALL

