



PLANET
LIGHTING



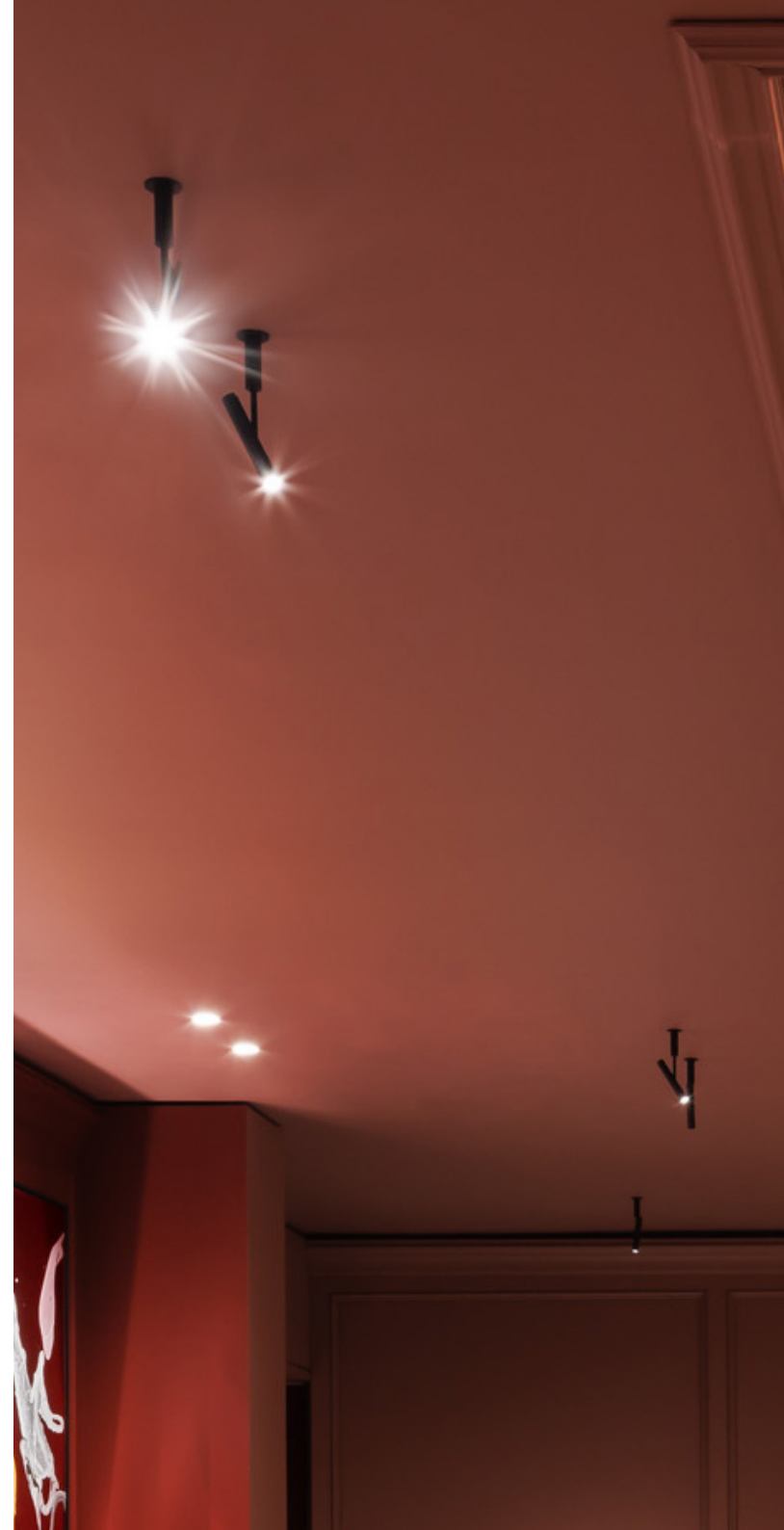
AIR MANUAL

LED PUCK AIR SURFACE INSTALLATION

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guide online



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READ BEFORE START

The following instructions are designed to help you ensure a safe and professional installation.

To ensure continual improvement, we welcome your feedback on this manual sent to info@planetlighting.com

Please observe all the following steps and remember to contact your supplier if you have any questions before proceeding with installation.

CONTENTS

This document contains 4 parts:

1. WARNINGS
2. GENERAL NOTES
3. GENERAL INFORMATION
4. INSTALLATION INSTRUCTIONS

WARNINGS

CAUTION!

Please observe all of the following cautions:



Read all safety warnings and instructions. **FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.**



LED Puck Air installation should be carried out by skilled personnel **ONLY**.



Always use appropriate Personal Protective Equipment (PPE) when installing the product.



Always use ear plugs or ear muffs when drilling to avoid hearing damage.



Drilled metal and swarf (shavings) can be hot enough to burn and injure. Use appropriate Personal Protective Equipment (PPE) such as goggles, gloves and safety boots.



DO NOT connect Air luminaires to the cabling while the power supply is connected or turned ON. Always ensure power is OFF AND DISCONNECTED before relocating or connecting luminaires.



Do NOT attempt to modify the product. Modifications or tampering with the product may result in void product warranty.



It is essential that you contact us at planet lighting prior to installation if you choose to supply your own driver.



Issues arising from a driver not supplied by us will not be covered under warranty.



M5 Connection plugs must be aligned correctly before connecting. **DO NOT FORCE THE PLUG.** Follow the M5 CONNECTION procedure.



GENERAL NOTES

EQUIPMENT CHECKLIST

Some of the items you will need include:

- Electrical pliers
- Wire hook
- Cable Snake

CONNECTIONS

- To make electrical connection with the Surface cable, you can use any method you would use with a normal cable. Options include use of insulation displacement connectors such as CoolsplICE, or you can use connectors that require stripped wire such as screw terminal connectors or wire nuts. To strip the Surface wire, simply strip the outer insulating layer, as you would any other wire.



Do NOT connect Air luminaires to the cabling while the power supply is connected or turned ON. Always ensure power is OFF AND DISCONNECTED before relocating or connecting luminaires.

SUPPLYING YOUR OWN POWER SUPPLY?

It is essential that you contact us at Planet Lighting if you are supplying your own driver. Note, damage arising from supplying your own power supply will not be covered under warranty.



Issues arising from a driver not supplied by us will not be covered under warranty.



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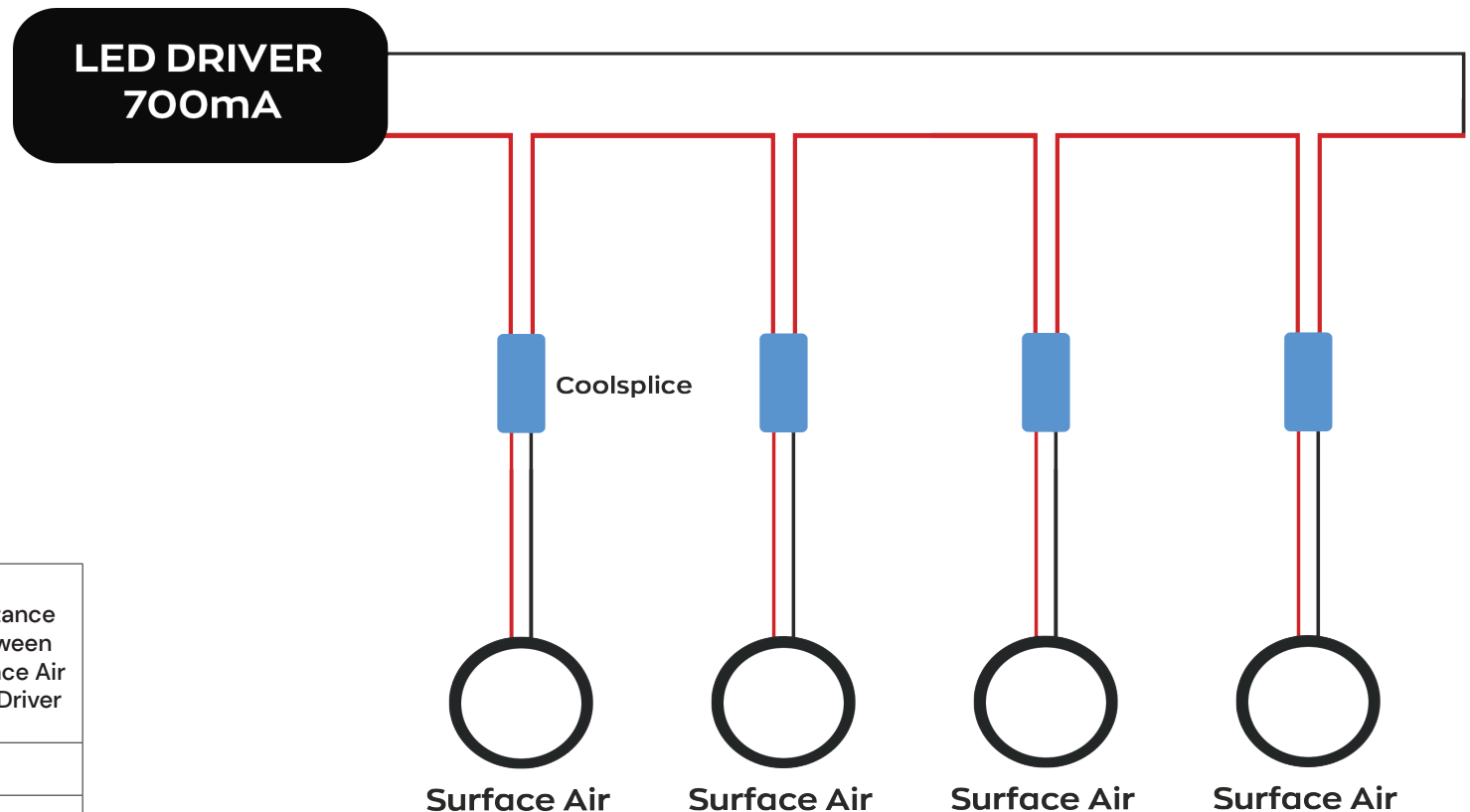
SPRING MOUNTED INSTALLATION

For spring mounting a Ø50-52mm diameter hole into a cavity material (eg cieling) is needed.



SERIES – WIRING

If dimming is required we recommend series wiring to ensure the smoothest dimming effect. Using a 700mA CC LED driver (typically TCI Maxi Jolly). For series wiring solutions we provide gel-filled CoolsplICE connectors pre-fitted to the Air Surface.

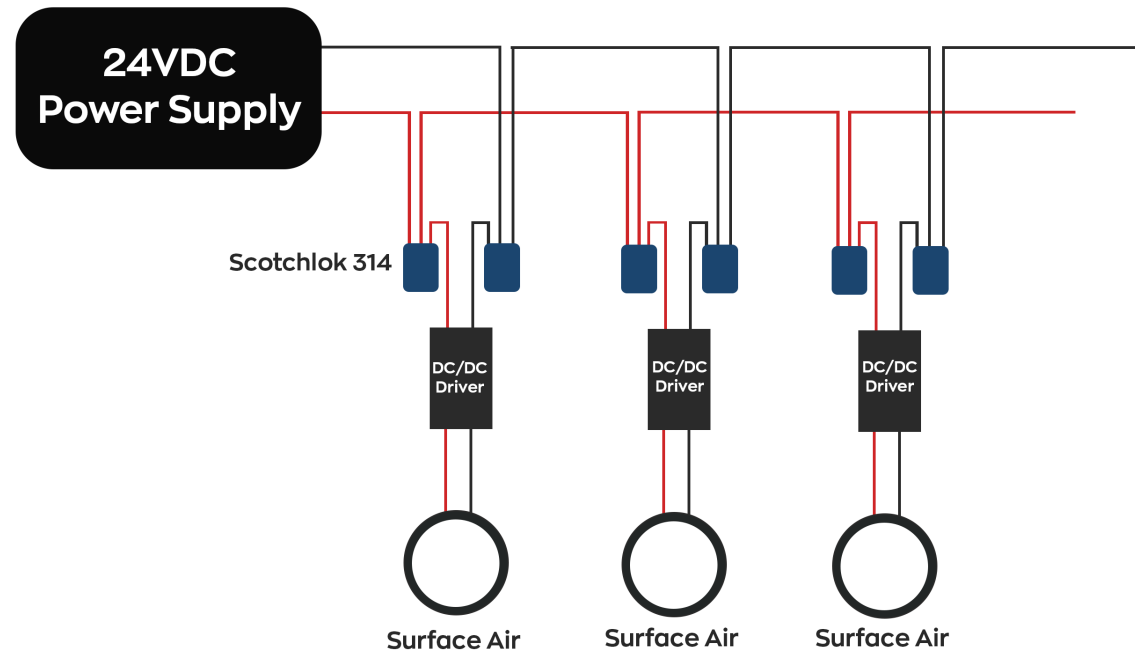


Number of Surface Air in Series	Wire Size (mm ²)	Max Distance (m) between end Surface Air and LED Driver
6	0.75	100
6	1	150

Table 1. The table above shows an example number of Air Surface in a series with the distance between the end Air Surface and the driver without any significant voltage drop.

PARALLEL – WIRING

For parallel wiring, we use a 24VDC power supply (typically from the Meanwell HLG range, up to 240W) which is located wherever is convenient, up to 50m from the furthest Air Surface, using 1.5mm² (16AWG) bus wires. The Air Surfaces are connected to the 24VDC bus wires using gel-filled Scotchlok 314 connectors (see attached).



Number of Air Surfaces in Parallel	Wire Size (mm ²)	Max Distance (m) between end Surface Air and Power Supply
20	1.5	50

Table 2. The table above shows an example number of Air Surface in parallel with the distance between the end Air Surface and the driver.



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