

## INTRODUCTION

Thank you for purchasing this item

Please ensure you have the kit in your possession before commencing any form of installation

Please read our instructions carefully before commencing any installation to ensure safe and satisfactory operation of this product

This item is not like a pre-assembled Christmas light set, and WILL NOT automatically work once plugged in straight out of the box

Before installation please visually check all components including plug, cable, driver and heads for damage

If any part looks damaged, the product should not be installed or used

**KEEP THESE INSTRUCTIONS FOR FUTURE USE**

## INSTALLATION INSTRUCTIONS

**A**

Plan your layout carefully

Ensure cables reach between driver and each head

Avoid locating cables in positions that would cause a trip hazard

Position cables away from areas where they may be at risk from being cut, trapped or damaged

Ensure the cables and connectors are accessible for future maintenance

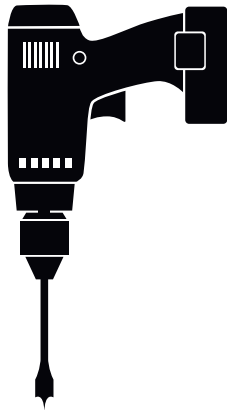
Secure any excess cable neatly using insulated staples or plastic ties

If your model has a plug-in driver, please ensure that it is situated indoors (e.g. house, garage, shed) to protect it from the elements or within a waterproof junction box

**DO NOT ADD MORE HEADS.** This kit is not designed to power an increased number of heads

You can use less than the maximum lamps as required

**B**



A drill bit is required to install this kit

Ensure you use the correct cutter size

Please ensure you use the correct cutter type for the mounting surface

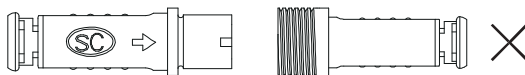
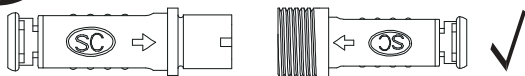
Test drill a hole in a spare piece of wood to confirm head fits securely

Drill holes for heads

Take care not to damage any pipes or cables beneath the mounting surface

LED head type	Cutter size
15mm diameter	12.5mm diameter
30mm diameter	22mm diameter
45mm diameter	32mm diameter

**C**



Connect LED heads in strict order sequence

from closest to plug to the furthest away

Feed cables for each head through drilled holes

Push head fully into drilled hole to secure

Ensure head is fully flush with mounting surface

**ENSURE ARROWS ON CONNECTORS LINE UP  
ENSURE CONNECTORS ARE FIRMLY PUSHED TOGETHER  
AND THEN SCREWED TIGHTLY TO SEAL THE CONNECTION**



## CAUTION

The light sources of this kit are non-changeable light emitting diodes (LED)  
Do not disassemble the product; light emitting diodes can cause damage to the eyes  
Do not immerse in water

Always disconnect from the mains when installing and maintaining

This kit should be fitted by a qualified electrician in accordance with IEE wiring regulations and current building regulations

This kit is designed to be installed vertically or horizontally into a suitable mounting surface

Not suitable for installation directly into the ground

Not suitable for dimming unless by the remote controller included with all RGB kits

## WARNING

Deviation from these assembly instructions may result in a risk of fire or electric shock

To reduce the risk of fire, electric shock, or injury to persons use only insulated staples or plastic ties to secure cables

Any modifications made to this kit will void manufacturers warranty

This product contains a non-replaceable light source

This product contains a non-replaceable control gear

## CARE & MAINTENANCE

It is recommended to regularly spray on or apply by a cloth a water displacing oil to clean and protect the metal surfaces of the LED heads

This will provide protection from the elements especially if living near the sea

Sea air & other corrosive elements will inevitably tarnish stainless steel over time, but following this advice will prolong the life of the product

If part of the product is damaged, it cannot be repaired and must be destroyed

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist

Check with your local authority for recycling advice

## ACCESSORIES

The below accessories can be used with the following kits. Please note they are not compatible with any decking kits other than those listed - 28159, 28160, 28161, 28162, 28163, 28164, 28165, 28166, 28167, 28168, 28169, 28170, 28171

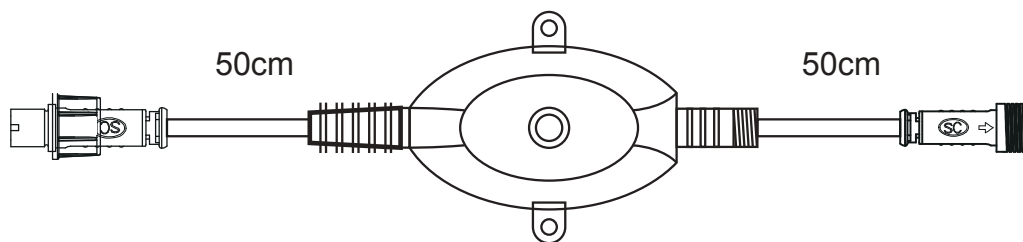
### 28172 IN-LINE PHOTOCELL

When installed between the power lead and first LED head, the in-line photocell (alternatively known as a dusk 'til dawn sensor) will turn the kit on when it starts to get dark and off again when it starts to get light. 50 Lux on, 50 Lux off

Install between the included 5m extension lead and first LED head, in an unobstructed position (in direct sunlight is not necessary)

This accessory can only be used with warm white, cool white or blue kits. It cannot be used with any RGB (colour changing) kits.

For the 30 head kits and where the splitter cable accessory is used, 2 x photocells are required; one for each split set of heads.



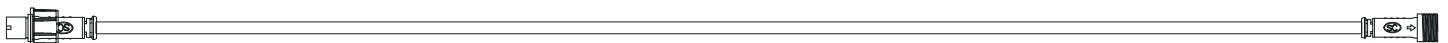
### 28173 1M head to head extension lead x 5

This accessory extends the distance between up to 5 heads by 1m

The accessory pack contains 5 x 1m extension leads

This accessory can only be used with warm white, cool white or blue kits.

On the RGB (colour changing) kits it can only be used between the plug and the RF receiver



## TROUBLE SHOOTING

It is highly unusual to have faulty LED lamps and issues with installing and using these kits  
On those rare occasions, please use these instructions, and be patient!

### All LED kit connections

#### LED Heads that do not light up?

Turn off power and unplug

Check product for any visible signs of broken or damaged parts - plug, driver, cables, connectors, receiver or LED heads

Starting at the plug lead connector and working through the complete kit, unplug each connector

Check that none of the pins inside are bent or damaged

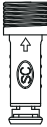
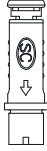
Starting at the plug lead connector and working through the complete kit again, reconnect the connectors

Ensure the arrows moulded into each connector line up and the connector is tightly screwed together

See page 1, section C for further information

Place plug back in socket and turn on

Repeat this process until all heads are working



### RGB (colour changing) LED kits only

#### RGB remote controller does not work ?

Ensure clear plastic tag has been removed from battery compartment

Check battery is inserted the right way round

Check LED light on front of controller flashes when a button is pressed



#### RGB remote controller does not work ?

Try a replacement battery if necessary

Battery required is a CR2025 3V

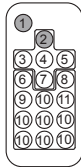


#### LED heads are not changing colour at the same time ?

Pair the controller to the in line receiver

Press buttons 1 & 2 simultaneously on the remote controller for 5 seconds

LED heads are now synchronised



#### LED heads are not changing colour at the same time and pairing above did not work ?

Re-code the remote the controller

Turn off power and unplug

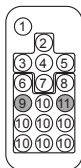
Leave for 5 seconds

Ensure mains power is turned back on, plug back in and switch on

Press buttons 9 & 11 on the remote controller simultaneously for 5 seconds

LED heads will flash once

LED heads are now synchronised and paired



If these steps do not solve the problem you are having,  
please contact the customer support team through our website or by email



## FREQUENTLY ASKED QUESTIONS

### **My lights are not coming on ?**

This item is not like a pre-assembled Christmas light set, and WILL NOT automatically work once plugged in straight out of the box  
Please read our instructions carefully before commencing installation

### **LED heads are not lighting up ?**

If the power to the plug socket is on, then this is likely to be a connector issue. Please follow the trouble shooting guide on page 3

### **What do you mean by “Connect in Sequence” ?**

To avoid connection issues, we recommend that the kit is installed by working from one end of the kit to the other  
Starting at the plug socket to the plug, leads, first head through to last head, finishing with the waterproof cap at the end on the last head

### **Can I use the RGB (colour changing) controller to control more than one kit ?**

Yes, any number of RGB (colour changing kits) can be controlled by a single remote control  
However, the limitation is that every receiver (the black box situated in-line after the plug connector) for each RGB kit must be positioned as closely together as possible of each other without any barrier between  
Remote controllers will work effectively within a 10m radius of the RECEIVER - NOT the last LED head

### **Can I dim the kit ?**

White and blue kits cannot be dimmed. All RGB kits have a dimming function on the remote controller

### **How does the Photocell accessory work and can I use it on all kits ?**

When installed between power lead and first LED head, the in-line photocell (alternatively known as a dusk 'til dawn sensor) will turn the kit on when it starts to get dark and off again when it starts to get light. 50 Lux on, 50 Lux off  
This accessory can only be used with warm white, cool white or RGB kits.

### **Can I bypass the driver ?**

All kits with a plug in driver have been designed for use with a specific driver and cannot be removed or wired in any other way  
For kits purchased with the in-line driver, the plug can be removed and terminated into a BS junction box  
This should only be done by a qualified electrician in accordance with IEE wiring regulations and current building regulations

### **Why are some lights dimmer than others ?**

Check all connections as detailed on page 3 in troubleshooting  
Ensure you have not connected extra heads to the kit. These kits are designed to only work with the number of heads included in the kit

### **Can I purchase extra heads ?**

The kits are designed to only work with the number of heads included in the kit. However, we can supply spare heads  
We recommend you purchase the kit with a larger number of heads and not use some of them  
These kits can run less heads on a kit, but not more

### **Can I extend the length of the kit ?**

You can purchase the 28173 1M head to head extension lead accessory pack  
This accessory pack gives you an additional five 1m extension leads to increase the distance between a number of heads  
The extension pack can be used on the single colour white kits.  
Please note it can be used on the RGB kits but only to extend the distance from plug to the first head.

### **Can the RGB kits be set to white ?**

Yes, the RGB kits have seven fixed colour options (along with the other more dynamic strobe and fade modes), one colour of which is white

### **Is the location of the driver and plug important ?**

Yes. The LED heads themselves are IP67 weatherproof and designed to be suitable for use outside in all weathers  
However the plugs themselves are designed to be situated in a more sheltered position, preferably indoors such as in the house, garage or shed to protect it from the elements

### **What is the IP rating of the kits ?**

The remote control receiver, all leads and all connectors are also IP67 and therefore suitable for outdoors  
The plugs and remote controller are not waterproof and should be situated indoors

### **What material are the LED heads made of ?**

Our LED heads are manufactured using stainless steel and are corrosion resistant.  
We recommend regular cleaning as detailed under Care & Maintenance on page 2