



Bluefin Led Underwater lights.

P3 Installation manual.

Thank you for choosing Bluefin LED underwater lights, our products have been designed and tested rigorously to ensure optimum performance and longevity.

All Bluefin Led lights are water tested so please be aware there may be moisture present on the light. If you have ordered the Aluminium (A) option please be aware that these have been **Hard PTFE Anodised** to form a corrosion resistant coating. Please take care not to damage this coating when installing the light. These lights can be used on **Aluminium hulls** all other options are for fibre glass hulls only and **not to be mounted to any Metal hull or your warranty will be void.**

Please ensure that your product is installed as per our instructions below, failure to do so may invalidate your warranty.

Specs: electrical/fuse ratings

	Voltage	Current	Fuse rating
Piranha P3	12v only	1.2 amp	3amp

Warnings:

- Do not attempt to install the lights whilst the boat is in the water.
- Ensure that the correct voltage is used for the light.
- Ensure that the in-line fuse is installed with the correct fuse rating per the light installed.
- Ensure that you use the Screws provided with the o-ring fitted and only hand tightened (**failure to do so will invalidate your warranty**).



- Do not use power tools to screw the lights to the hull.
- Ensure that the supplied gel connector is used to make a watertight connection or your **warranty will be Void.**
- **Do not remove the inline HYDRO LOCK or your warranty will be void.**
- Do not hold the light by the cable.
- Do not use abrasives on the lenses.
- Do not look directly into the light at close proximity
- Lights must be mounted a minimum of 300mm from any Anodes.
- Do not mount lights directly underneath Anodes.
- As Galvanic currents & corrosion are external factors any type of damage caused by galvanic affects are not covered by BluefinLEDs warranty policy.

Tools required for installation:

- 2.5mm(3/32") drill bit
- 15mm(19/32") drill bit
- Drill
- Posi head hand screwdriver
- Marine sealant 3M 5200/4000UV, Sika flex 291i or equivalent (**do not use 3M 4200**)

Installation:

For optimum affect effect the light should be positioned between 8-12" (200-300mm) below the water line and at a 90 deg angle. Recommended spacing from 1-8"(0.5mtr) to 3-11" (1.2mtrs) between the lights.

Please use the card template for drilling of holes. Drill a 15mm(19/32") hole for the cable access through the hull, ensuring that there are no obstructions internally in the hull.

Drill 2.5mm (3/32") pilot holes to match the mounting holes on the light. (Within the packaging there is a mounting template for drilling these holes)

Key the area to where the light is to be mounted with abrasive sand paper to ensure there is a clean area for the marine sealant to bond to.

Apply marine sealant to the rear of the light on the circumference of the light and around the base of the cable gland to ensure a complete continuous bead of sealant is applied in both areas. (see fig 2)

Feed the cable through the hole and mount the light to the hull using the **screws provided**.

Wipe off any excess sealant and ensure the light is seated correctly without any gaps in the sealant. (It is good practice to have excess marine sealant to clean off as this will help assure a water tight seal to the hull)

Electrical connection:

Ensure you use the IP68 GEL CONNECTOR supplied to connect to the boats wiring or you Warranty will be void (fig 4/5).

You will notice an inline HYDRO LOCK attached to your cable (Fig 1). If this is removed your warranty will be void.

Care should be taken when planning your electrical feeds/cables to the lights so as to ensure voltage drop between the batteries or power supply is minimised, on 12V systems this is especially important as the lower system voltage means a high current requirement which in turn means the potential for more voltage drop in the cable runs & connections.

If the cable gauge & connections are not sufficient for the lighting load attached you may experience incorrect operation of the lights & intermittent illumination as the supply dips below specification.

Please see the wire gauge guide attached to the instruction manual.

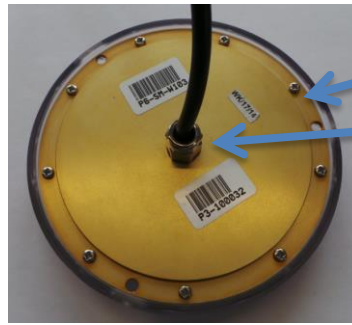
For help with calculations always consult with a qualified professional or contact Bluefin LED directly.

Attach the light cable to the VDC power on the boat ensuring that you use the in line fuse supplied connected to the positive(red) wire, ensure that you use the heat shrink provided to create a water tight fit into the fuse holder. (see fig 3)

Fig 1



Fig 2



Apply Sealant around this edge and around the cable gland

Fig 3

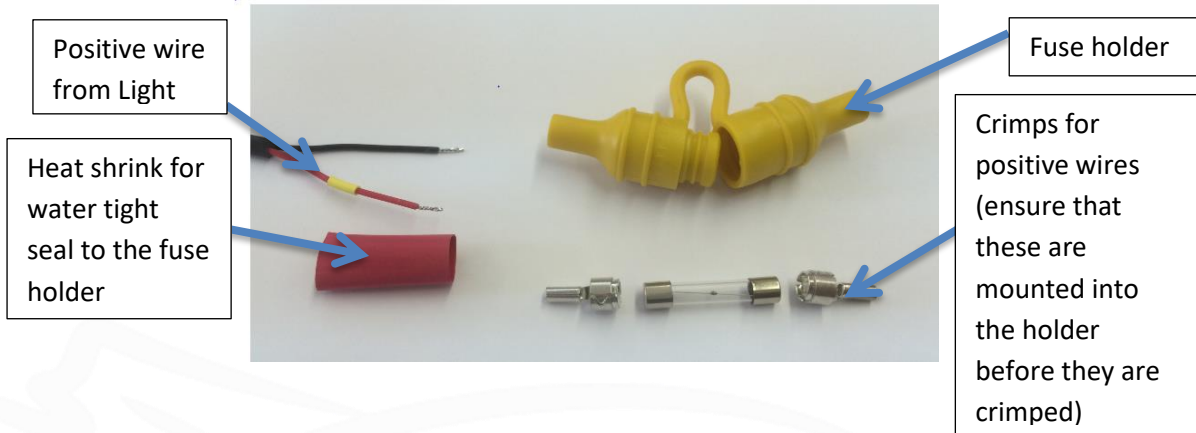


Fig 4 showing how the Gel connector is wired up.

Fig 5 showing how the finished Gel connector should look when finished.

The IP68 GEL CONNECTOR MUST BE INSTALLED OR YOU WARRANTY WILL BE VOID.

Fig 4

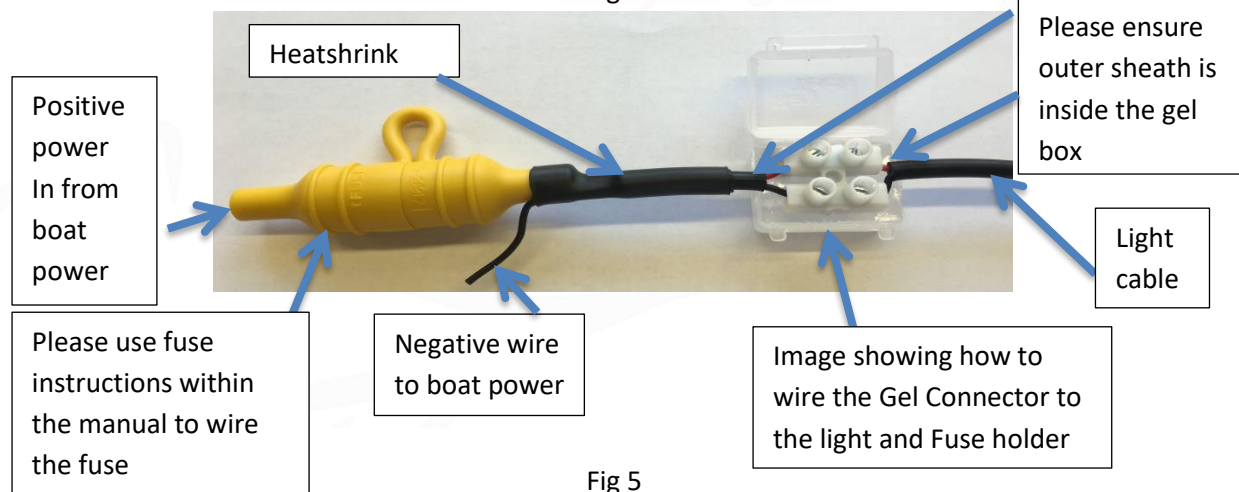


Fig 5



Testing:

Test the light before installation ensuring that you use the correct voltage and the light is illuminated correctly.

After installation ensure again that the light is illuminated correctly before the boat goes back into the water and the lens label is removed.

After you boat goes back into the water check internally for water ingress around where the light is installed.

Maintenance:

Regularly check the installation for water ingress.

Only clean the light with a soft bristle brush.

Warranty:

For any warranty issues please contact your point of sale retailer or go to www.bluefinled.com for further advice.

Bluefin LED LTD warrants the lights/hardware it manufactures and produces to be free from defects in workmanship and materials for a period of two years, starting from the date of original purchase, as recorded on the sales receipt.

The warranty is non-transferable and limited to the original purchaser of the product. During the two year warranty period Bluefin LED will repair or replace the defective item (at its option) at no additional charge on a "like for like" basis. Products either repaired or replaced under this warranty shall only be warranted for the unexpired portion of the warranty applying to the original product(s).

Bluefin LED is not responsible for labour charges to remove or replace lights or for haul-out fees. No refunds will be given.

This limited warranty does not extend to any products which have been damaged as a result of misuse, abuse, improper installation/modification, galvanic corrosion, failure to follow and adhere to installation instructions provided by Bluefin LED, improper shipping, neglect, damage caused by disasters such as fire, flood, lightning "acts of god", installation by unqualified personnel.

Installer please ensure that the SERIAL NUMBERS of the lights are written below and the manual is handed over to the end user.

Please make a note of the serial numbers of the lights here.

SERIAL NUMBERS

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Bluefin LED

Cottage Farm, Cottage Lane,
Norton Juxta Twycross, Atherstone. CV9 3QH

Tel: 01827 880450

Email: info@bluefinled.com

Registered Address: Square Rig Limited, t/a Bluefin Led, Cottage Farm, Cottage Lane, Norton Juxta Twycross, Atherstone, CV9 3QH

Company Registration Number: 08871451 **VAT Number:** 179 2690 64



Circuit Type		Current flow in Amps									
10% V Drop Low-Power Non Critical (P series Single colour)	3% V Drop High-Power/Critical (H, S & GW Plus colour change Series)	5A	10A	15A	20A	25A	30A	40A	50A	60A	
20ft	6m	6ft	2m								
30ft	9m	10ft	3m								
50ft	15m	15ft	5m								
65ft	20m	20ft	6m								
80ft	24m	25ft	8m								
100ft	30m	30ft	9m								
130ft	40m	40ft	12m								
165ft	50m	50ft	15m								
200ft	61m	60ft	18m								
		70ft	21m								
		80ft	24m								
		90ft	27m								
		100ft	30m								
		110ft	34m								
		120ft	37m								
		130ft	40m								
To use for BluefinLED underwater lights select the appropriate current Column for you lights, power & quantity from the top row.											
then the cable distance run in one direction i.e. from panel or batteries to the light placement or group.											
Then at the point the Column & row crosses read the cable suggestion in US or EU gauges for your installation.											
Failure to install the correct power feeds may invalidate your warranty, if in doubt please consult with BluefinLED or a qualified professional.											