



INSTALLATION & OPERATION MANUAL

SPORT Mini



Preface

READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL



CAUTION

(Risk Group 2): Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.



WARNINGS

Before installing your OceanLED Light, read and follow all warning notices and instructions which are included. Failure to follow safety warnings and instructions can result in property damage, severe injury or even death.

Before installing your OceanLED Light, check local laws for restrictions regarding the use of coloured lights in your area.

Salt is an inherently corrosive material. Metal parts and certain natural and man-made surfaces are particularly susceptible to corrosion and deterioration when used in and around salt water. Some OceanLED lights contain combinations of plastic and polymer products which are impervious to saltwater corrosion, however, screws and fasteners used for the installation must be of a marine grade type stainless steel or equivalent and monitored annually to ensure the lights remain in service for years to come.

Sport Mini light is for mounting directly to a flat surface. Do not submerge your cable ends in water; cable and connections exposed to underwater submersion will not be covered by warranty.

Never connect/disconnect lights with power applied as irreversible damage may occur. Ensure polarity of power connections is correct. Failure to do this may invalidate warranty.

Ensure the rear of the light is in a dry area and not subject to a wet environment, especially when installed. Failure to do this may invalidate warranty.

Never Use Solvents! Cleaners, fuel, and other products that may contain strong solvents, such as acetone, that attack many plastics greatly reducing their strength and irreversibly damaging the special lens coatings and cable sheathings.

Do not coat the light's glass/lens with any product, including but not limited to clear antifouling paints or similar, without consulting OceanLED for advice. Failure to do so will void your warranty.

OceanLED does not recommend applying bottom paint or any antifouling agents to the light body, as chemical incompatibility may cause damage. If painting is required, the light body may only be coated with products specifically suitable for aluminium substrates. Antifouling paints that are not explicitly rated as safe for aluminium must not be used and must not be applied to surfaces within 25mm (1") of the light.

Do not use any unauthorized cleaning products to remove paint or antifouling from the lens or retaining ring. Only isopropyl alcohol (IPA) is recommended for cleaning the front face of the light unit.

Never clean lights using a high-pressure jet wash – this will invalidate warranty.



DANGER

RISK OF ELECTRIC SHOCK OR ELECTROCUTION

This underwater light must be installed by a licensed or certified electrician in accordance with all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to swimmers, installers, or others due to electrical shock, and may also cause damage to property. Always disconnect the power to the light at the circuit breaker before servicing the light.

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PRETEST

Always test the lights prior to installation. Failure to do this may result in additional installation time and could invalidate the warranty.

IMPORTANT NOTICE

Attention Installer: This manual contains important information about the installation, operation, and safe use of this product. This information should be given to the owner and/ or operator of this equipment.

WARRANTY COVERAGE

Please refer to www.oceanled.com/policies/warranty-policy for full warranty statement.

1 Installation Checklist

1. **Decide on light spacing** – OceanLED recommendations available. Ensure mounting location is flat and check internally for ease of access if there is a rib, strut or other hull structure that may interfere with the installation. Avoid mounting lights on surfaces that are subjected to high-speed water impact, e.g., planing surfaces. If positioning lights on a transom, take into consideration swim platforms and obstacles that may block the initial portion of the light.
2. **Electrical wiring** - Selecting the correct cable gauge is crucial for safe and efficient electrical wiring. Referring to a cable gauge chart helps determine the appropriate wire diameter based on the expected current load and other factors. By using the right gauge, the risk of overheating, voltage drops, and other electrical issues can be minimized, ensuring the overall reliability and safety of the electrical system. Ensure the correct cable gauge is used (refer to the relevant cable gauge chart in the appendix of this manual).
3. **Power switch and circuit protection** – It is recommended to install a suitably rated power switch to control the underwater lights. The switch should be marine-grade and rated appropriately for the system voltage and current. It should be positioned in an easily accessible location to allow safe and convenient operation. The lighting circuit must also be protected by an appropriately rated main fuse or circuit breaker installed in line with the power supply. In addition, where multiple lights are installed, it is recommended that each individual light is protected with its own inline fuse. This ensures that, in the event of a fault, only the affected light is isolated rather than the entire lighting system. All fuses should be correctly rated in accordance with the manufacturer's specifications.
4. **Preparing the hull.** Please follow the manufacturer's instructions and guidelines for preparing the hull and installing the lights to ensure a safe and effective installation process.
5. **Correct marine sealant** applied evenly around the cable and around the perimeter of the light unit.
6. **Correct hardware** used for fixing of light fixture onto the hull (marine-grade stainless steel screws provided). When installing Sport Mini Lights, it is essential to follow the manufacturer's instructions and recommendations. This includes properly sealing and waterproofing the installation area to maintain the integrity of the hull and prevent any potential water damage. Adhering to these guidelines will help ensure the lights perform optimally and maintain the longevity of the hull.
7. **Waterproof connections:** When installing electrical components, such as underwater lights, in a marine environment, it's crucial to use waterproof connections. These connections are designed to prevent water from entering, which can lead to corrosion, electrical shorts, and other issues. Waterproof cable connectors, butt splices with glue-lined heat shrink, and junction boxes are commonly used to create reliable and watertight seals at connection points. These measures safeguard the electrical wiring, ensuring its durability and protecting the overall system from water damage.
8. **Test installation** BEFORE entering water. Never connect/ disconnect lights whilst powered ON. When installing underwater lights on a hull, it is crucial to thoroughly test the installation before immersing the vessel in water. This step ensures that everything is functioning correctly and minimizes the risk of any potential issues or complications.
9. **Troubleshooting if required** - If any issues arise during or after the installation of underwater lights, it is important to troubleshoot them promptly. By following the guidelines provided by the manufacturer, most problems can be resolved. Common troubleshooting steps may include checking electrical connections, inspecting wiring for damage and verifying the power supply. Prompt troubleshooting helps identify and resolve issues, ensuring the optimal performance of the lights.

2 Overview

Identifying your model



SPORT Mini Ultra White



SPORT Mini Midnight Blue

Packaging contents

BOX CONTENTS

Sport Mini LED Underwater Light & Cable
Mounting Screws & Insulating Washers
Quick Install Guide

Power Source

Most installations will utilise on-board 12/24V DC power supply from a marine battery. However, if AC to DC power supply is being used, please allow at least 15% reserve for voltage fluctuations due to variables beyond your control such as ambient temperature and supply voltage fluctuations. This is to ensure your lights are always receiving the proper voltage and to ensure the power supply is not “overloaded”, causing premature failure. Use chart below in determining power supplies.

Power Consumption and Recommended Fuse values

Model	Current @ 12V DC	Current @ 24V DC	Max Nominal Power consumption	15% reserve in Watts	Recommended fuse 12V/24V DC
SPORT Mini (single colour)	900mA	500mA	12W	13.8W	2A

Depth/Spacing

Ideally mount your lights at similar depth levels to ensure matching colour consistency through the water. Deeper lights will look duller and possibly differ in colour compared to shallower mounted units.

SPACING / INSTALL DEPTH	SPORT MINI
Recommended Spacing	0.5-1.2m (2-4ft)
Recommended Installation depth (From the light waterline)	15-20cm (6-8in)

Hole Cut Out

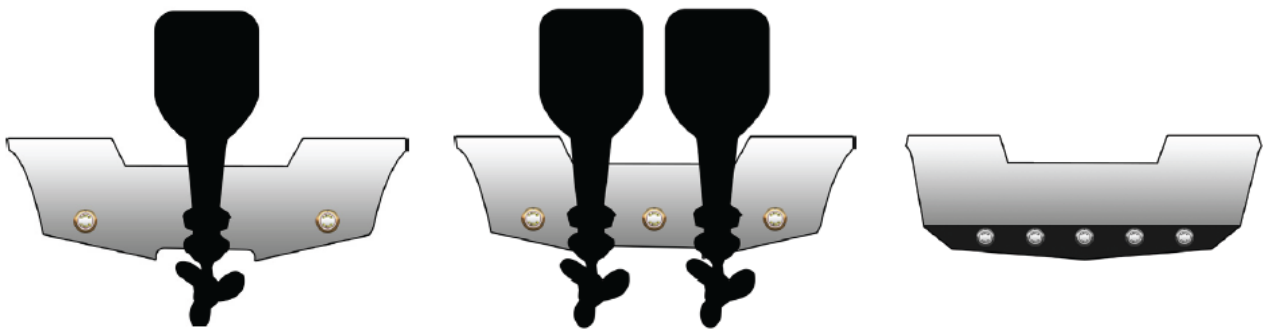
Hole Cut out size: 12.5mm (1/2")

Overall Dimensions

See overall dimension schematic – in the Appendix, Chapter 6.

Mounting location considerations:

Ideally, mount your lights at similar depth levels to ensure matching colour consistency through the water. Deeper lights will look duller and possibly differ in colour compared to shallower-mounted units. To ensure correct dispersion of light underwater, ensure all Sport Mini Lights are mounted with the correct orientation, with the logo facing upwards.



- When lights are pointing downwards, the light can reflect off a sandy seabed, giving a mirrored effect, and light will bounce back, creating even more illumination.
- If positioning lights on a transom, take into consideration swim platforms and obstacles that may block the initial portion of the light.

3 Installation

Additional items required, not supplied by OceanLED:

- Marine sealant - 3M Marine Adhesive Sealant Fast Cure 4200FS or equivalent
- Philips Screwdriver or Pozidrive #2 Screwdriver Bit
- Drill
- 12.5mm (1/2") Hole Saw Cutter
- 3mm (1/8") Drill Bit for Screws pilot hole
- Sandpaper
- IPA (Isopropanol Alcohol)

3.1 PREPARING THE HULL

 OceanLED recommends using a qualified installer / technician when making modifications to your vessel. Please also consult the manufacturer for more detail on modifications and installation.

The light is not suitable for direct installation on conductive hulls such as metal or carbon fibre. Please contact OceanLED if installing on these metal surfaces.

OceanLED recommends use of provided screws. If alternative screws are used, do not use counter sunk or non-flat shoulder screws to secure your lights to the hull (failure to do so will invalidate your warranty).

For the correct orientation of the light the logo should face upwards and parallel with the water line. See drilling template – in the Appendix, Chapter 7.

General steps for preparing a fiberglass hull

TIP: Always wear safety goggles and a dust mask.

1. Drill a 3mm (1/8") pilot hole square to the mounting surface from inside the hull if possible. If there is a rib, strut, or other obstacle in the hull near the selected mounting location, this will need to be taken into account in the planning phase and the location adjusted accordingly, or the obstruction safely removed or modified. If the pilot hole is found to be drilled in the wrong location, drill a second hole in a better location and repair the first pilot hole.
2. Using a suitable drill, make a 12.5mm (1/2") hole. Ensure the light will fit flush and will be square to the mounting surface.
3. Sand the area around the hole using a heavy grit sandpaper to remove the previous bottom paint and to ensure that the sealant will adhere properly to the hull. Clean and degrease the sanded area with a suitable solvent.
4. Place the light fixture into position or use the mounting template provided, ensuring the light fixture is correctly oriented with the logo in an upright position to maximise the beam spread effect. Mark the screw hole position and pilot drill using the correct-sized drill bit for the included screws.
5. Always dry-fit units before applying any sealant.

3.2 INSTALLING THE LIGHT FIXTURE

 OceanLED recommends dry fitting all products. Before applying sealant, please ensure the surface is clean of any dust, dirt or grease. When installing, be sure that the light fits the area and secures to the hull using the appropriate hardware before applying any sealant.

When applying sealant to the light fixture, use OceanLED packaging material such as the light cardboard box when placing the light on the ground face down to prevent damage/ scratch of the front bezel.

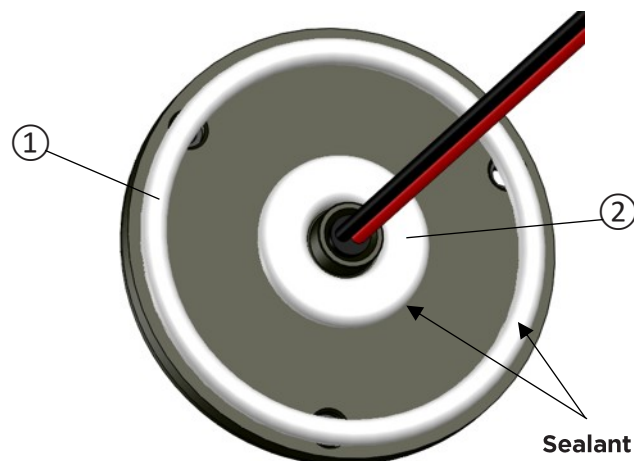
Never use power tools to secure your lights; hand tighten only.

Light is for mounting directly to a flat surface on the hull, with the cable passing through a 1/2" (12.5mm) hole in the hull. Do not submerge your cable ends in water; cable and connections exposed to underwater submersion will not be covered by warranty. Mounting the light in any other configuration other than those described in this guide will invalidate its warranty.

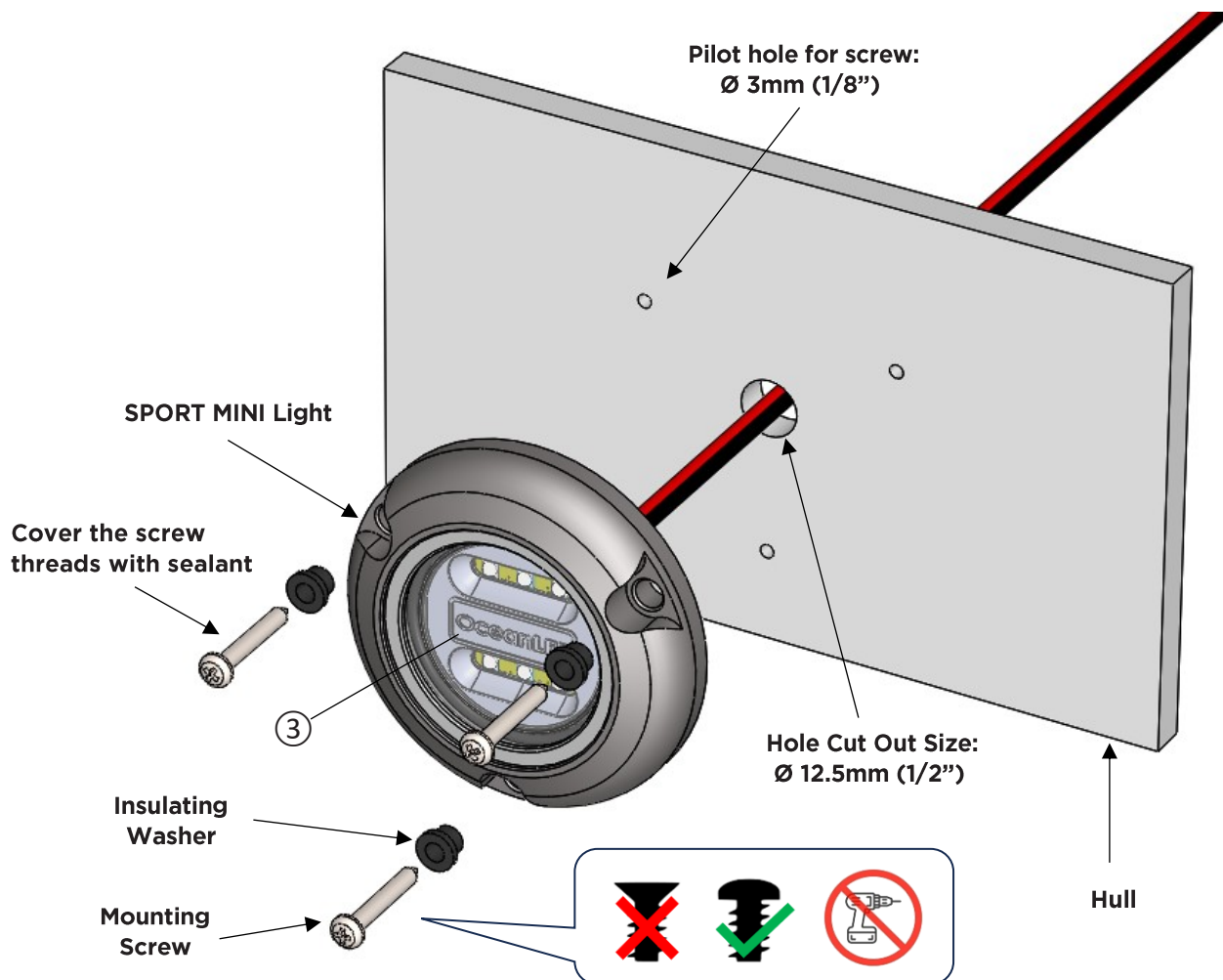
Do not use any unauthorised cleaning products to remove excess paint or antifoul off the front face of the light unit. OceanLED recommends using Isopropyl Alcohol (IPA) only.

Installation (Once hull preparation is complete)

1. Test light(s) before fitting. Before proceeding with the fitting of the light(s), it is essential to test them to ensure their functionality. Testing the lights before installation allows you to verify that they are in proper working condition and producing the desired illumination.
2. Apply a generous amount of the chosen sealant to the back perimeter of the light body ①. Ensure that the cable of the light is thoroughly coated where it meets the back of the light ②. There should be a continuous and unbroken bead of sealant around the perimeter of the light unit, including the screw holes and cable exit. When applying sealant to a light fixture, be careful to protect the lens from any abrasive surface/floor so as not to remove the protective Tritonium coating.



3. Insert the light onto the hull, feeding the cable through first, and then seating it into place. Press the light firmly onto the hull to ensure a secure and adhesive attachment.
4. To ensure optimal underwater light dispersion, all lights must be mounted in the correct orientation, with the logo facing upward ③.



5. Place the insulating washers into the light body mounting holes (these must be fitted to avoid corrosion and invalidation of warranty).
6. Apply sealant to the screw threads, then insert the screws through the washers and drive them into the pre-drilled pilot holes.
7. Tighten the screw with a hand tool **ONLY!**
8. Once you are satisfied that the unit is fully tightened, you will notice that sealant has squeezed out from around the perimeter of the light. Using a thinner or cleaner, apply to the cloth and wipe off excess sealant to leave a clean seal. **AVOID CONTACT WITH LENS.** If you do not see sealant squeezing out from the body, it means you haven't used enough sealant or haven't tightened the unit enough to the hull. Carefully examine the installation to ensure that the sealant you have applied to the unit is completely watertight. If you have any doubts, remove the light, reapply the sealant, and then reinstall it.
9. Allow full sealant cure before immersion (follow sealant instructions).

! Breakages due to lights falling out of the hull are NOT covered under warranty and can cause serious bodily injury as can any falling object.

3.3 ELECTRICAL INSTALLATION (12/24V DC)



Always consult a qualified electrician when connecting OceanLED light fixtures. When connecting light units, please note that all OceanLED lights will operate within a specific voltage range. Please check the electrical information to ensure the cable gauge, fuse and breaker size follow the recommendations.

For complete instructions on DC connections, please refer to ABYC codes of practice and other applicable codes and ordinances for DC connections.

Additional items required, not supplied by OceanLED:

- Cable ties
- Waterproof cable connectors / Butt splices, glue-lined heat shrink
- Sufficient cable to connect to DC Power Source
- Power switch / Fuse / Breaker

Power Supply and Installation Guidelines

Power Requirements: OceanLED Sport models require a 12V or 24V DC supply. This supply should be a minimum of 1.2A @12V or 0.7A @ 24V DC per light.

Multiple Lights Installation: When fitting multiple lights, particularly in 12V systems, use a relay system to supply switched power to the lights. This reduces the load on the switch and minimises voltage drops caused by long cable runs to the switch location.

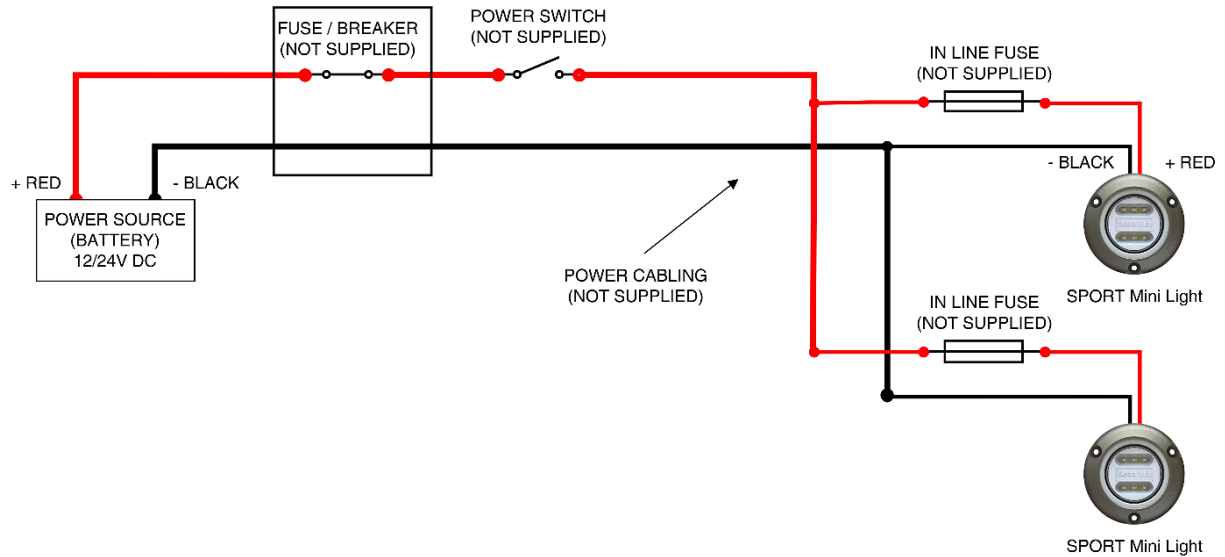
Connecting the Light Fixture

1. Depending on the model and number of lights installed, you will need to pull the correct sized power cable from the DC power source (breaker/fuse panel) to the light locations to supply constant power to the light units. It is imperative that the correct sized tinned marine grade cable is used to avoid voltage drop issues.

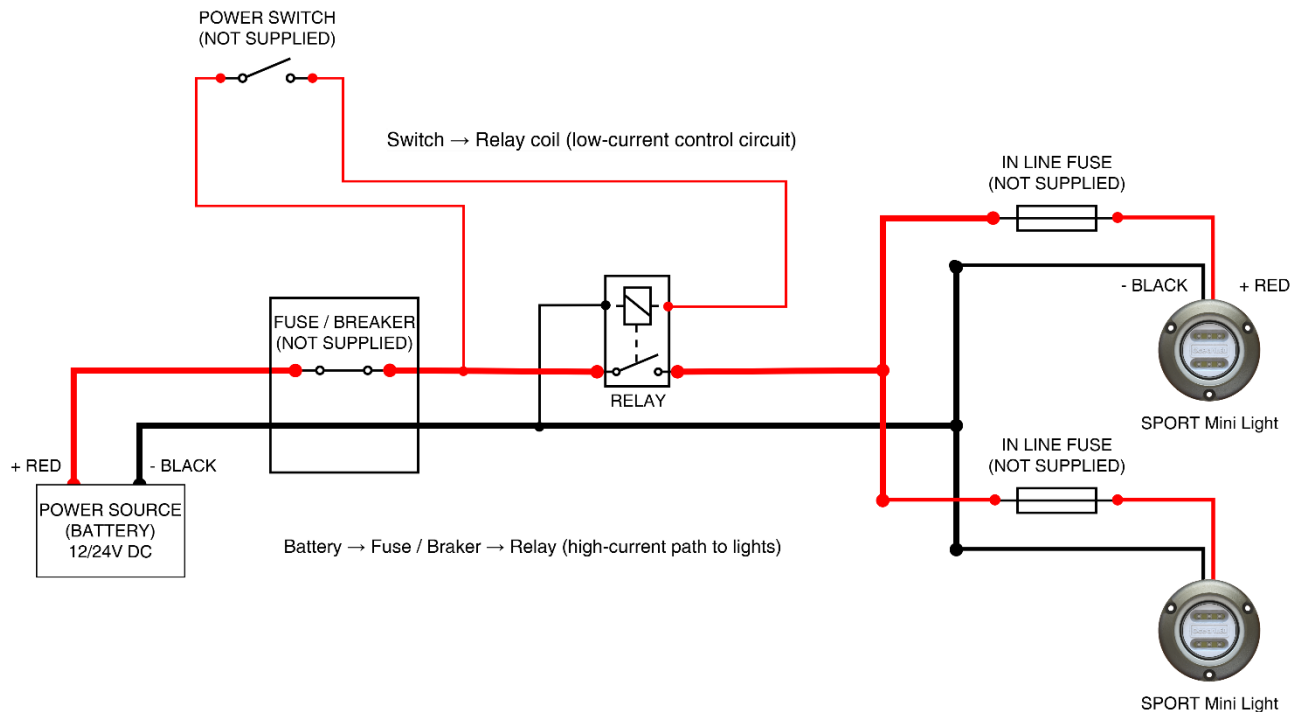
See Chapter 6: *Appendix* for recommended cable gauges.

2. Using waterproof butt splices or IP66 waterproof junction boxes, make the connections at either end of the system to attach the lights to the DC system. Make sure any heatshrink used completely encapsulates the outer wire sheath (the use of glue-lined heat shrink is highly recommended to ensure water tightness).
3. When making electrical connections, ensure correct polarity is observed: the red wire is positive (+Ve), and the black wire is negative (-Ve).
4. It is imperative that each power line to every light is protected by either a fuse or a suitable protective device to safeguard the cable and light unit. Failure to comply will void the warranty. Refer to the table in Chapter 2: *Power Consumption and Recommended Fuse Values*.
5. Secure cables ensuring where the cable exits the light it is not under undue stress. Finish and test the light units BEFORE the vessel goes into the water.

12/24V DC Connection Diagrams



Basic electrical connection



Electrical connection with relay

3.4 FINALISING THE INSTALLATION

The SPORT Mini lens is pre-coated with a specialized Tritonium® coating, which makes the surface of the lens a non-stick layer.

! Do not coat the light's glass/lens with any product, including but not limited to clear antifouling paints or similar, without consulting OceanLED for advice. Failure to do so will void your warranty.

OceanLED does not recommend that bottom paint or any type of anti-fouling agent is applied to the light body, as damage may occur due to chemical incompatibility. If painting is required, the light body may only be coated with products specifically suitable for aluminium substrates. Antifouling paints that are not explicitly rated as safe for aluminium must not be used and must not be applied to surfaces within 25mm (1") of the light.

Do not use any unauthorized cleaning products to remove paint or antifouling from the lens or retaining ring. Only isopropyl alcohol (IPA) is recommended for cleaning the front face of the light unit.

3.5 TEST YOUR INSTALLATION

Always test the lights **BEFORE** the vessel goes back into the water. At this final stage make sure all of the system is operational. If you have any issues, please contact your local OceanLED representative.

! Never install a new light fixture then leave the vessel in the water unchecked for several days.

When the vessel is placed in the water, immediately check for leaks. Note that very small leaks may not be readily observed. It is best not to leave the vessel in the water for more than 3 hours before checking it again. If there is a small leak, there may be considerable bilge water accumulation after 24 hours. If a leak is observed, you must **TAKE ACTION IMMEDIATELY** to prevent damage.

4 Operation / Maintenance

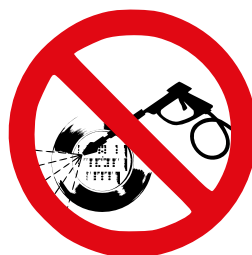
4.1 OPERATION

The SPORT Mini light is available in either Midnight Blue or Ultra White models and therefore works only in standard single colour power mode.

4.2 MAINTENANCE

Marine growth can build up quickly on the light and can reduce the light's performance in just a few weeks. To help prevent this, all OceanLED lights have been coated with a specialized Tritonium® coating, which helps to prevent marine growth from adhering to the glass. Lights should be cleaned with a boat brush or similar, bi-weekly, or as needed to keep the lens of the light clean.

Growth varies greatly around the world, and maintenance is imperative to the proper operation and longevity of the product. If heavy fouling occurs, growth can be removed from the lens using a plastic scraper and moderate pressure under water. If cleaning the lens while the boat is out of the water, wet the lens before scraping. Never scrape or try to remove barnacles from a dry lens.



Never use a high-pressure jet wash to clean the lens/bezel, as this will damage the seals and void the warranty.

Do not use harsh cleaning solvents, as they will damage the light seals and Tritonium coating.

Do not coat the light's glass/lens with any product, including but not limited to clear antifouling paints or similar, without consulting OceanLED for advice. Failure to do so will void your warranty.

If bottom painting, ensure the coating is applied as instructed in the Chapter 3.4: "*Finalising The Installation*" section. Failure to do so will invalidate your warranty.

4.3 REPLACEMENT PARTS

The light source of this luminaire is not replaceable; when the light source reached its end of the life the whole luminaire shall be replaced.

If the external flexible cable of this unit is damaged, contact your local OceanLED representative to arrange for replacement.

Lost parts (mounting screws) can be replaced on request and can be obtained through your local OceanLED representative. Broken, and worn parts can not be replaced, in such case the whole luminaire shall be replaced.

5 Troubleshooting

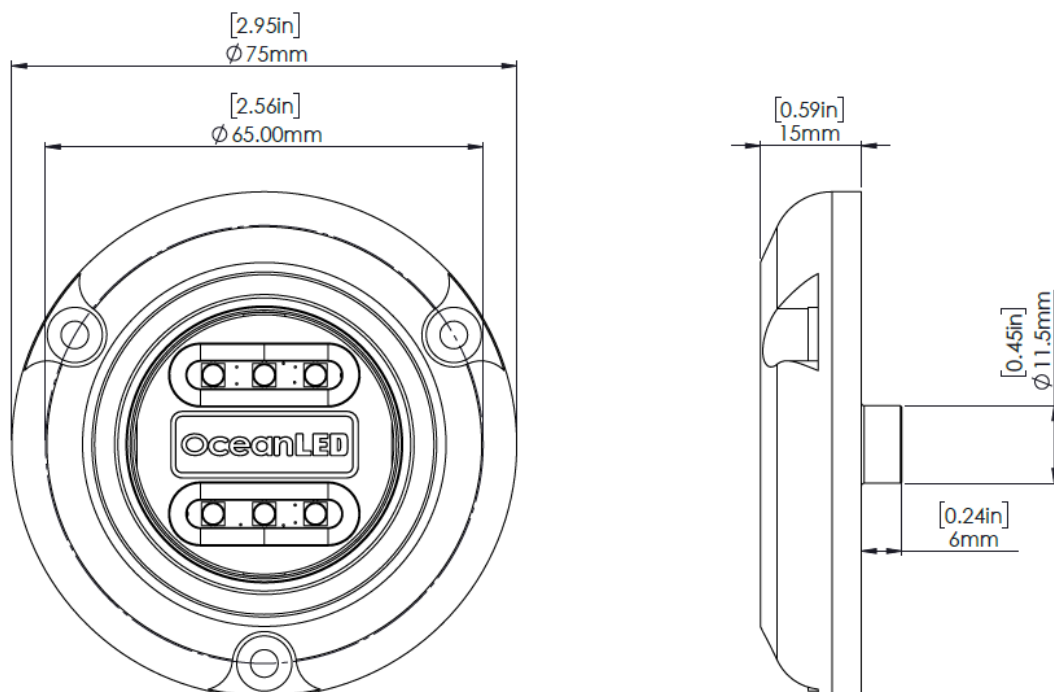
5.1 TROUBLESHOOTING PROBLEMS AND THEIR SOLUTIONS

SPORT Mini			
PROBLEM	CHECK	CAUSE	FIX
Light does not look bright	Check that there is no marine growth on the lens	Marine growth	Clean the lens as per maintenance advice
	Check voltage supply to the light is between 10V and 30V DC	Voltage is either too high or too low	Investigate reason for high or low voltage and fix
	Check voltage supply is stable and does not fluctuate	Voltage is fluctuating	Investigate reason for voltage fluctuation and fix
	Check that the electrical connections between the light and the supply cable have been made correctly and recommended cable gauge has been used	Poor electrical connection	Remake connection and seal joint correctly
	Confirm all LEDs are illuminated	1 or more LEDs are not working	Contact your dealer.
	Check lights to see if water is present inside the light	Water present	Contact your dealer.
	Check cable connections for corrosion	If corrosion is present	Contact your dealer for a replacement. This is NOT covered by the warranty
Light has water inside	Check connections to make sure they are not submerged in water	Light will require replacing	This is not covered by the warranty
	Check cable to make sure there is no damage to the cable	Light will require replacing	This is not covered by the warranty.
	Checked all factors that are above, and the light still does not work	Light faulty	Contact your dealer for a replacement light

SPORT Mini			
PROBLEM	CHECK	CAUSE	FIX
Light does not light up	Check that the electrical connections between the light and the supply cable have been made correctly	Poor electrical connection	Remake connection and seal joint correctly
	Check that the wiring polarity is correct, red to positive and black to negative	Polarity incorrect	Change the wiring polarity and seal joint correctly
	Check that there is power supply to the light cable connection	Poor electrical connection	Trace the cables back, checking at joints until break has been located. Then rectify the problem and seal joint correctly
	Check that the electrical connections between the supply cable and the light circuit breaker or fuse have been made correctly	Poor electrical connection	Remake connection and seal joint correctly
	Check that the in-line fuse is intact and not blown (if applicable)	Replace fuse	If fuse keeps blowing, then there is a short circuit in the light system that must be traced and rectified. If no external short can be located contact your dealer
	Check that the light supply circuit breaker is closed, or the fuse has not blown	Close circuit breaker / replace fuse	If breaker / fuse keeps blowing, then there is a short circuit in the light system that must be traced and rectified. If no external short can be located contact your dealer

6 Appendix

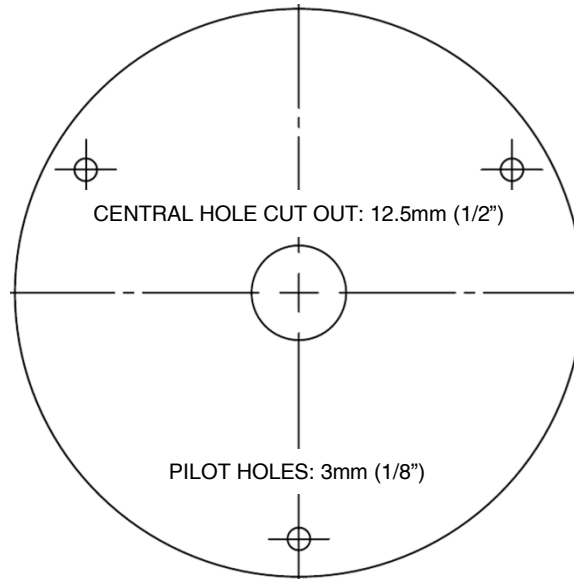
6.1 OVERALL DIMENSIONS



PHYSICAL	
Total Weight	150g
Cable Length	0.6m (1.97ft)

SPORT Mini	
Cable colour	Signal
Black	-Ve
Red	+Ve

6.2 DRILLING TEMPLATE



OVERALL DIAMETER OF FOOTPRINT: 75mm (2.95")

Print A4 at 100% for correct scaling.

6.3 CABLE GAUGE CHART 12V

Cable length (feet)*	Supply & Return Cable Conductor Size Chart 3% drop for when using 12V DC supply										
	Circuit Current										
	2 Amp	4 Amp	6 Amp	8 Amp	10 Amp	15 Amp	20 Amp	25 Amp	30 Amp	40 Amp	50 Amps
0-5	18 AWG	18 AWG	16 AWG	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG
5-10	18 AWG	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG
10-15	16 AWG	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG
15-20	16 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG
20-25	14 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG
25-30	14 AWG	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
30-35	14 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
35-40	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG
40-45	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG
45-50	12 AWG	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG
50-55	12 AWG	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG
55-60	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG	0 AWG	0 AWG	3/0 AWG	4/0 AWG
60-65	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG
65-70	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG
70-75	10 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	0 AWG	2/0 AWG	2/0 AWG	4/0 AWG	
75-80	10 AWG	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	
80-85	10 AWG	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	
85-90	10 AWG	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	
90-95	8 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	3/0 AWG		
95-100	8 AWG	6 AWG	4 AWG	2 AWG	2 AWG	0 AWG	2/0 AWG	3/0 AWG	4/0 AWG		

*One-way cable length from supply (usually battery) to load.

6.4 CABLE GAUGE CHART 24V

Cable length (feet)*	Supply & Return Cable Conductor Size Chart 3% drop for when using 24V DC supply										
	Circuit Current										
	2 Amp	4 Amp	6 Amp	8 Amp	10 Amp	15 Amp	20 Amp	25 Amp	30 Amp	40 Amp	50 Amps
0-5	18 AWG	18 AWG	18 AWG	18 AWG	18 AWG	16 AWG	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG
5-10	18 AWG	18 AWG	16 AWG	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG
10-15	18 AWG	16 AWG	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG
15-20	18 AWG	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG
20-25	18 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG
25-30	16 AWG	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG
30-35	16 AWG	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG
35-40	16 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG
40-45	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	2 AWG
45-50	14 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG
50-55	14 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG
55-60	14 AWG	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
60-65	14 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
65-70	14 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
70-75	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	2 AWG	0 AWG	2/0 AWG
75-80	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG
80-85	12 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG
85-90	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG
90-95	12 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	1 AWG	1 AWG	2/0 AWG	2/0 AWG
95-100	12 AWG	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG	2/0 AWG	3/0 AWG

*One-way cable length from supply (usually battery) to load.

[illegible]

7 Warranty

Please remove this page and keep it for your files.

Warranty Reminder:

- Never use a high-pressure jet wash to clean the lens or bezel, as this can damage the seals and void the warranty.
- Do not coat the light's glass/lens with any product, including but not limited to clear antifouling paints or similar, without consulting OceanLED for advice. Failure to do so will void your warranty.
- If applying bottom paint, ensure the coating is applied as instructed in the “*Finalising the Installation*” section. Failure to follow these instructions will void your warranty.
- Do not submerge the cable ends in water. Cables and connections exposed to underwater submersion are not covered by warranty.
- Ensure the cable entry point at the back of the light is adequately sealed and is not exposed to a wet environment. Failure to do so may invalidate the warranty.

Please remember that failure to follow these guidelines may result in the denial of warranty claims.

For technical assistance:

Europe: customerservice@oceanled.com
 The Americas: warranty@oceanledusa.com

Warranty Serial Code(s):

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