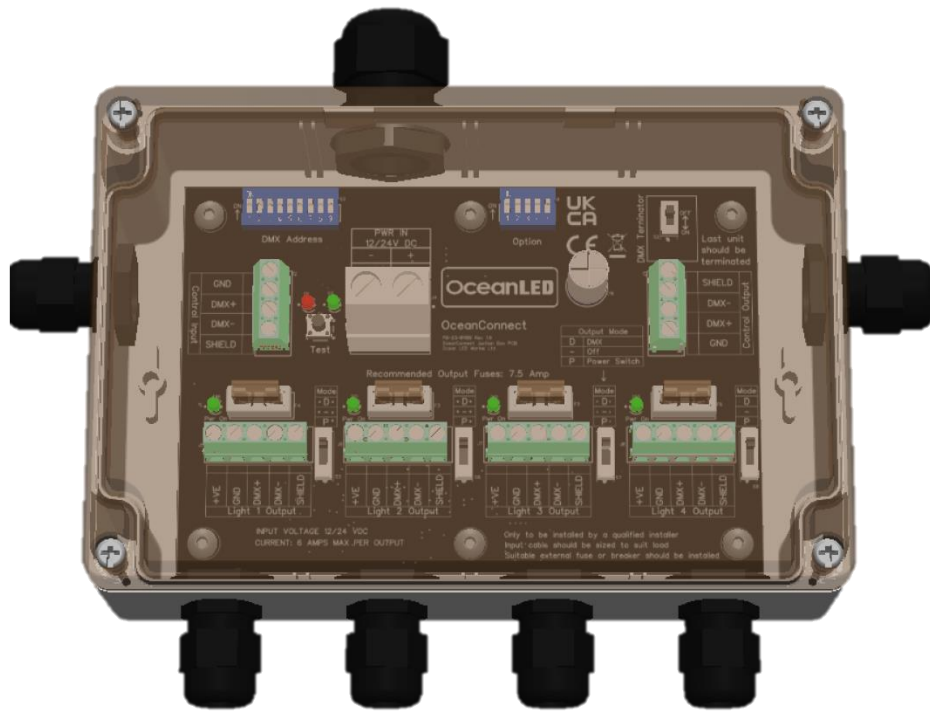




INSTALLATION & OPERATION MANUAL

OceanConnect



Preface

READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL



Warning: Product installation and operation

Before installing the OceanConnect, read and follow all warning notices and instructions included. Failure to follow safety warnings and instructions can result in property damage, severe injury or even death.

Warning: Power supply voltage

Connecting this product to a voltage supply greater than the specified maximum rating may cause permanent damage to the unit. Refer to the Technical specification section for voltage rating.

Warning: Hazardous or flammable atmospheres

This product is NOT approved for use in hazardous or flammable atmospheres. DO NOT install in areas with hazardous or flammable atmospheres, such as engine rooms or near fuel tanks.

Water ingress disclaimer

Although the waterproof rating capacity of this product meets IP66, water intrusion and subsequent equipment failure may occur if the product is subjected to, such as but not limited to, pressure washing and/or submersion/flooding. Additionally, when installing it is important that cable glands are sealed correctly. OceanLED will not warranty products if the cause of failure is greater than the requirements of IP66 or leakage due to incorrectly sealed cable glands.

EMC installation guidelines

OceanLED equipment and accessories conform to the appropriate Electromagnetic Compatibility (EMC) regulations, to minimize electromagnetic interference between equipment and minimize the effect such interference could have on the performance of your system.



Danger: Risk of electric shock or electrocution

This OceanConnect unit 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.

Warning: Switch off power supply

Ensure the vessel's power supply is switched OFF before starting to install this product. Do NOT connect or disconnect equipment with the power switched on.

Caution: Power supply protection

When installing this product and using the OceanLED power cable, make sure the power source is adequately protected by using a suitably rated fuse or automatic circuit breaker.

Caution: Service and maintenance

This product does not contain user-serviceable components. Please direct all maintenance and repair inquiries to authorized OceanLED dealers. Unauthorized repairs could impact your warranty.

Technical accuracy

To the best of our knowledge, the information in this document was correct at the time it was produced. However, OceanLED cannot accept liability for any inaccuracies or omissions it may contain. Please check the OceanLED website (www.oceanled.com) to ensure you have the most up-to-date version(s) of the documentation for your product.

Product disposal

Dispose of this product in accordance with the WEEE Directive.



Unit cleaning instructions

The unit does not require regular cleaning. However, if you find it necessary to clean the unit, please follow the steps below:

1. Ensure power is switched off.
2. Wipe unit clean with a damp cloth.
3. If necessary, use a mild detergent solution to remove grease marks.

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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/warranty for full warranty statement.

1 Overview

Description:

The OceanConnect is a waterproof (IP66) DMX controlled, low voltage DC (9-32V) junction box.

The OceanConnect provides for one power input, and four individually switched fused power outputs (6 Amps max per output) to allow connection of DC powered lights or other DC switched units. The unit also provides support for powering and individual addressing of up to four DMX controlled OceanLED X-Series lights.

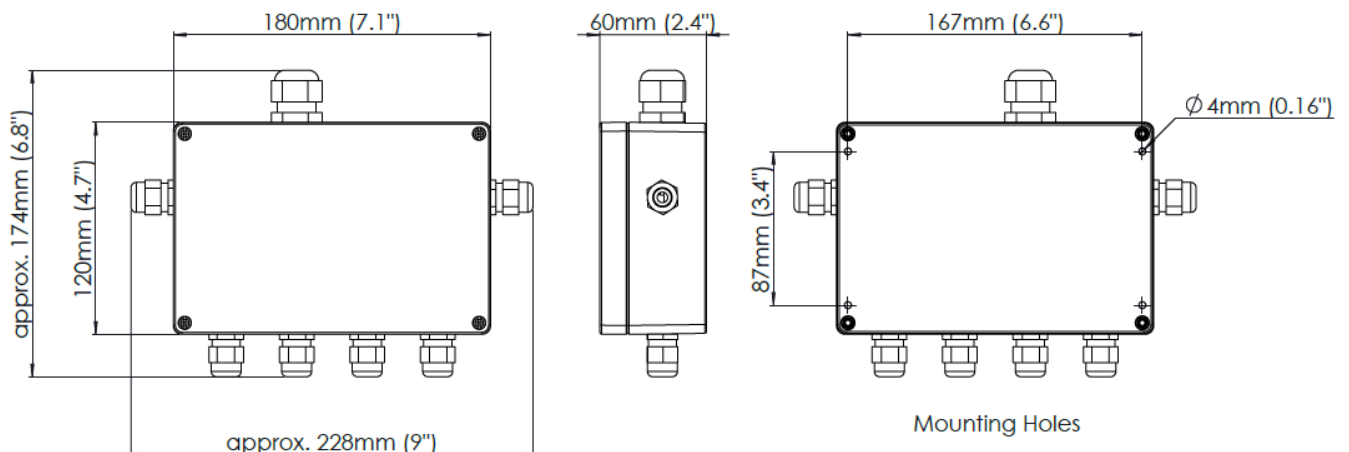
Contents:

- 1x OceanConnect Unit (including 4x 7.5A Blade Fuses)
- 4x Mounting Screws
- 1x Twin Entry Cable Grommet
- 4x Blanking Plugs

Specifications:

Technical info	OceanConnect
Voltage:	12/24V DC (Max 32V DC)
Input / Output cable glands:	1x M20 – Power In, 4x M16 – DMX In/Out & Lights Out
Power Input terminals wire gauge:	8 → 20 AWG
DMX In/Out, Lights Out - terminals wire gauge:	12 → 28 AWG
Light Outputs:	DMX & Power- 4 x individual fused 6 Amp each max
DMX Input	1x DMX Input (to connect the DMX controller)
DMX Output	1x DMX Output (to link Junction Boxes in chain)
DMX Terminator	Onboard DMX terminator with an on/off switch
Physical Specifications	
Dimensions (including cable glands):	228mm x 174mm x 60mm (9" x 6.8" x 2.3")
Enclosure:	IP66 robust polycarbonate
Weight:	270g

Dimensional Drawing:



2 Mounting

2.1 Finding The Mounting Location

When choosing a mounting location for the OceanConnect, the following recommendations need to be followed:

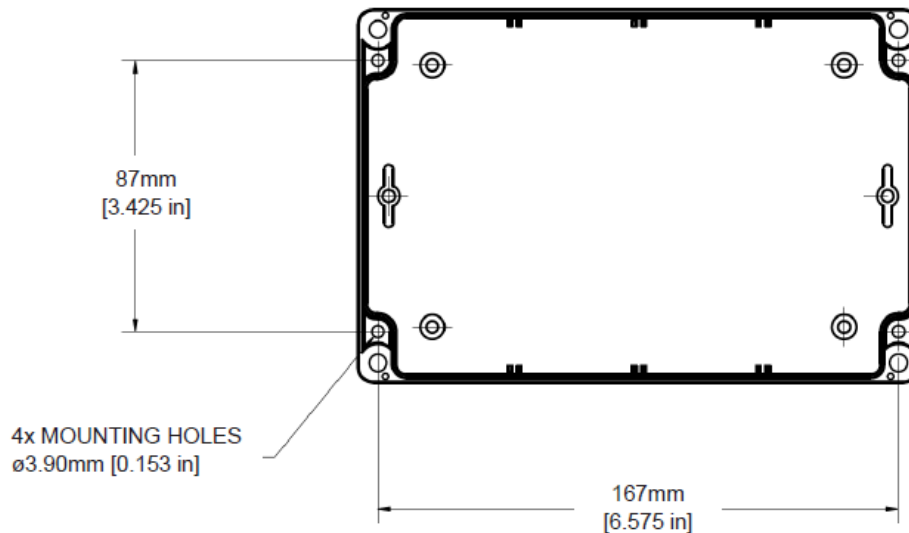
1. Consider the wiring routing / connections:
 - The distance to the 12 / 24 V DC power source.
 - The distance to the lights*.
2. Select flat surface in a dry location away from sources of heat.

*Please note X-Series DMX light's cables are limited to 3m and cannot be extended. Additional OceanConnect junction boxes may be required depending on the light's positions.

2.2 Mounting the OceanConnect

Once a suitable location has been found, use the following steps to mount the unit:

1. Unscrew the 4 case screws on the box and remove the lid.
2. The mounting holes for the unit are located inside the box, near to each corner - see diagram below.



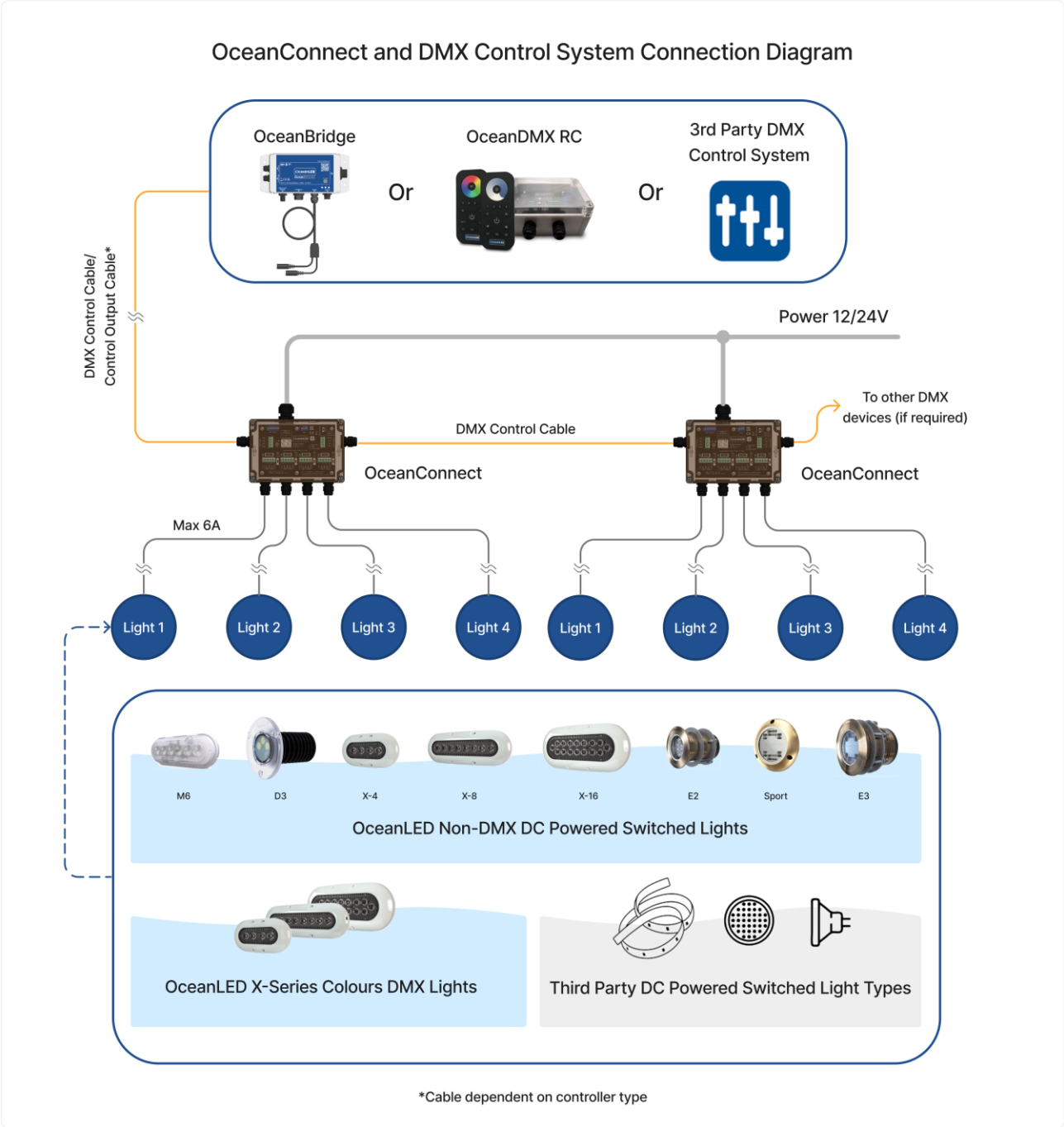
3. The provided mounting screws are designed to be compatible with various surfaces, such as wood or fiberglass. Before mounting, mark the desired hole positions and drill pilot holes accordingly. Take caution to verify the absence of any obstructions, such as cables or pipes, behind the drilling area.
4. Screw the unit to the surface using the screws provided.



Never use power tools to mount the unit. Hand tighten only!

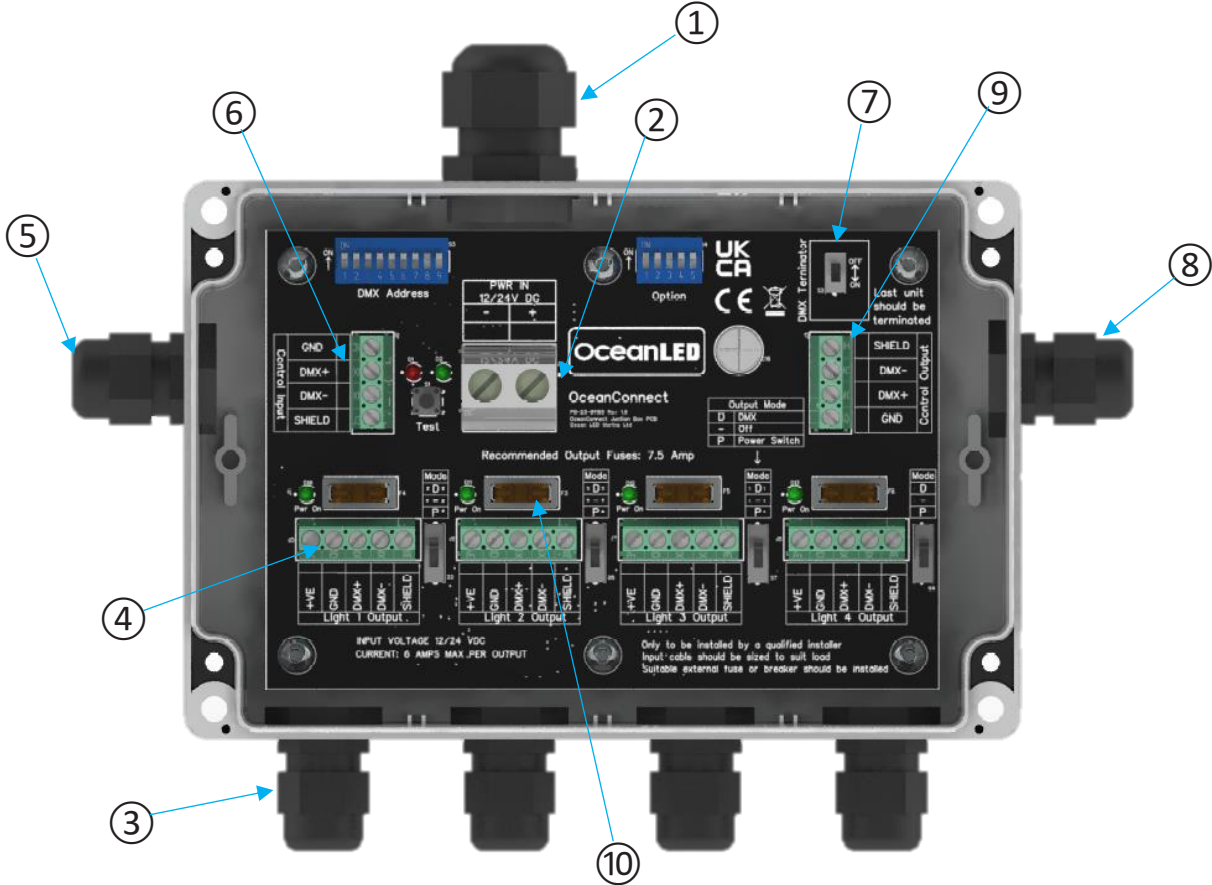
3 Electrical Installation

3.1 Example System Connection Diagram



3.2 Installation of the OceanConnect

1. Remove the lid of the OceanConnect.



2. Loosen the M20 cable gland cap ① and feed the main power wires through the power input cable gland. The appropriate gauge of the supply cable will depend on the current draw of the connected lights and the length of the cable run from the fuse/breaker panel to the junction box. See Appendix for recommended cable gauges. For the latest specifications of the lights being used, please refer to the spec sheet available at www.oceanled.com.
3. Insert the bare ends of the wires into the screw terminal ②, ensuring correct polarity (usually red for positive and black for negative). Tighten the screw terminals using a screwdriver and secure the M20 cable gland.

Name		Function	Connection
PWR In	+	DC Power +VE	Connect to a fuse +12/+24 VDC from fused panel / battery
	-	DC Power -VE	Connect to GND return

4. Loosen the “Light 1” M16 cable gland cap ③ and feed the first light cable through the gland and into the screw terminal ④ in the correct order. Use a flat-head screwdriver to tighten the screws on the screw terminal and then secure the cable gland.

OceanLED X-Series DMX Connections:

Light 1, 2,3, 4	Wire colour
+VE	RED
GND	BLACK
DMX+	YELLOW
DMX-	BROWN
SHIELD	SCREEN

Switched DC Light Connections (non-DMX):

Light 1, 2,3, 4	Light Connection
+VE	POSITIVE POWER
GND	NEGATIVE POWER
DMX+	Not Connected
DMX-	Not Connected
SHIELD	Not Connected

5. Repeat step 3 for the remaining lights.
6. Loosen the Control Input cable gland cap ⑤, pass the DMX control cable through the gland, and connect it to the Control Input screw terminal ⑥ in the correct order (see Table below). Tighten the screws and secure the cable gland.

OceanLED DMX Control Cable connections (for Control Input/Output):

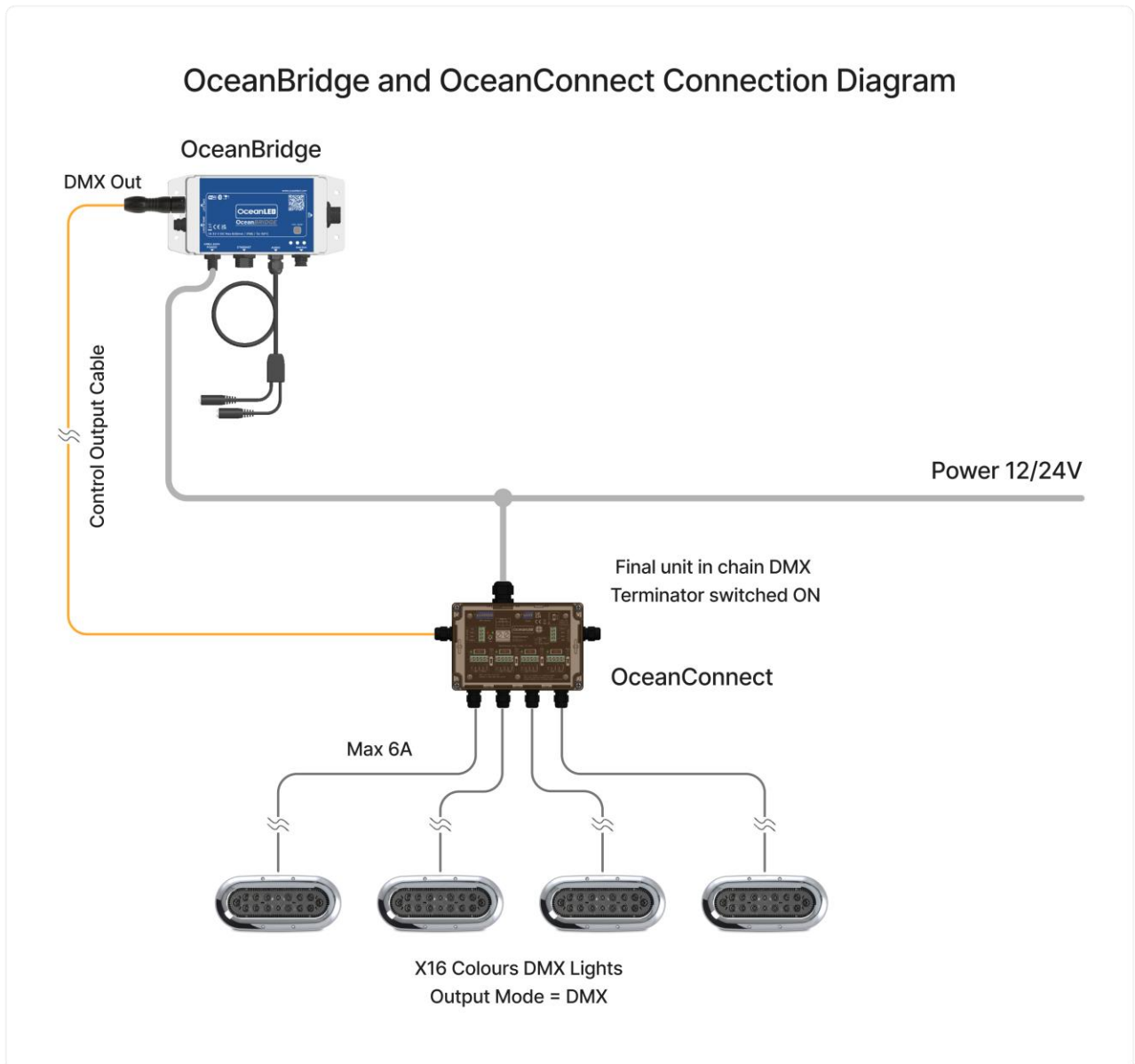
DMX In	DMX Link Cable Wire colour
GND	BLACK
DMX+	YELLOW
DMX-	BROWN
SHIELD	SCREEN
Not Connected	RED

7. If only one OceanConnect is being used, or the unit is at the end of the DMX chain, switch on the DMX terminator ⑦ and seal the Control Out cable gland with one of the supplied blanking plugs. Proceed to step 9.
8. If other DMX devices are to be used in the chain (including other OceanConnect units), loosen the Control Output cable gland cap ⑧, pass the DMX control cable through the gland, and connect it to the Control Output screw terminal ⑨ in the correct order (see Table above). Tighten the screws and secure the cable gland. Keep the DMX terminator ⑦ off. Ensure that the final unit in the DMX chain is terminated.
9. Ensure that the appropriate value fuses are installed for each output ⑩. The supplied fuses are rated 7.5 Amps. Refer to the corresponding light manual of the connected lights for the required fuse values. (Note: The required fuse type is mini-blade)
10. Seal any unused light output glands with the blanking plugs provided, then close the lid of the OceanConnect and secure it using the four screws.
11. If required, repeat the procedure for next OceanConnect.

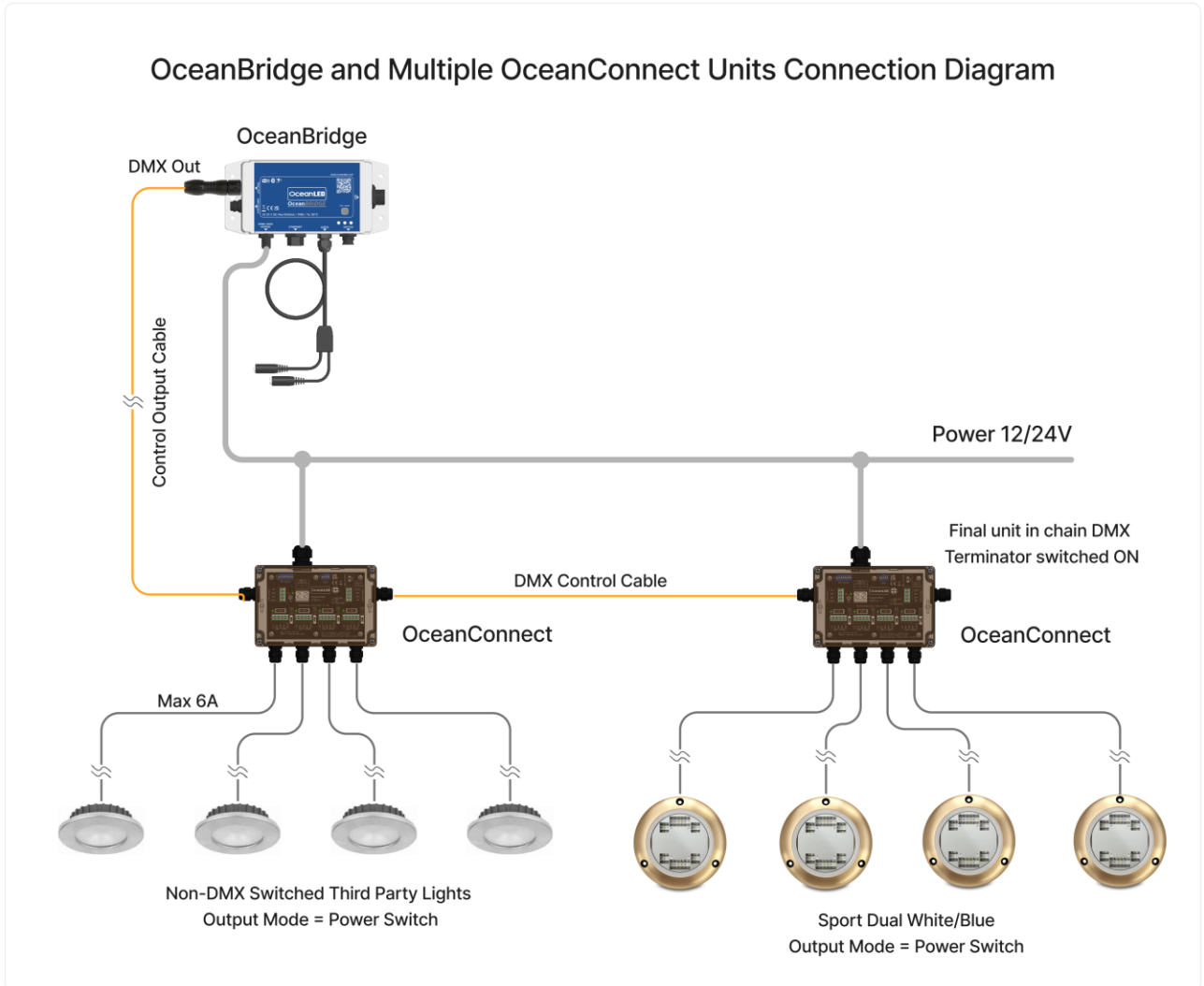
Note: Before closing the OceanConnect and supplying power to the lights, please double-check all connections to ensure their accuracy. Test the whole system BEFORE the boat goes back into the water.

3.3 System Connection Examples

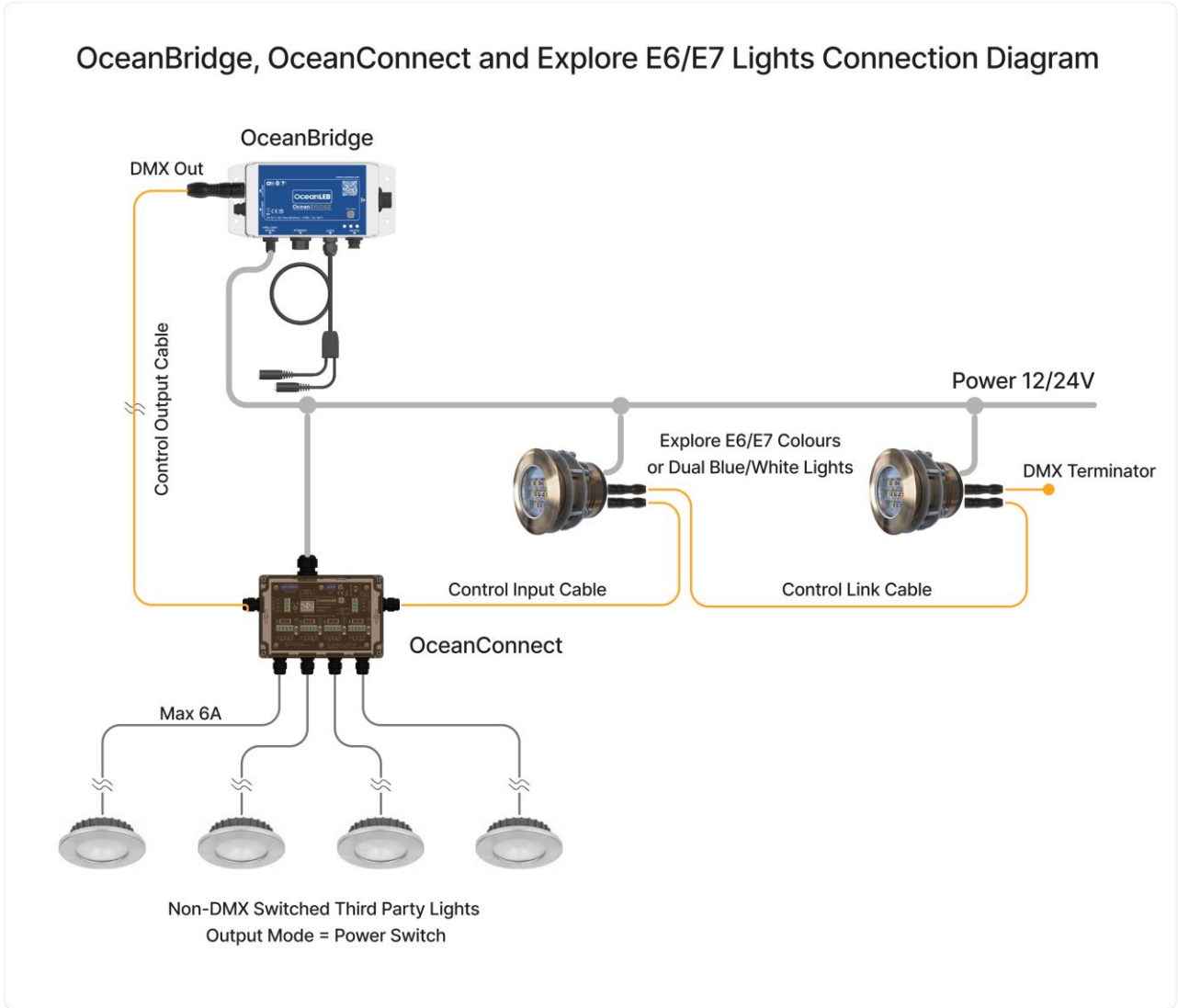
3.3.1 OceanBridge and OceanConnect with X-Series Colours DMX Lights



3.3.2 OceanBridge and multiple OceanConnect units with Sport Dual Blue/White and Switched Third Party Lights

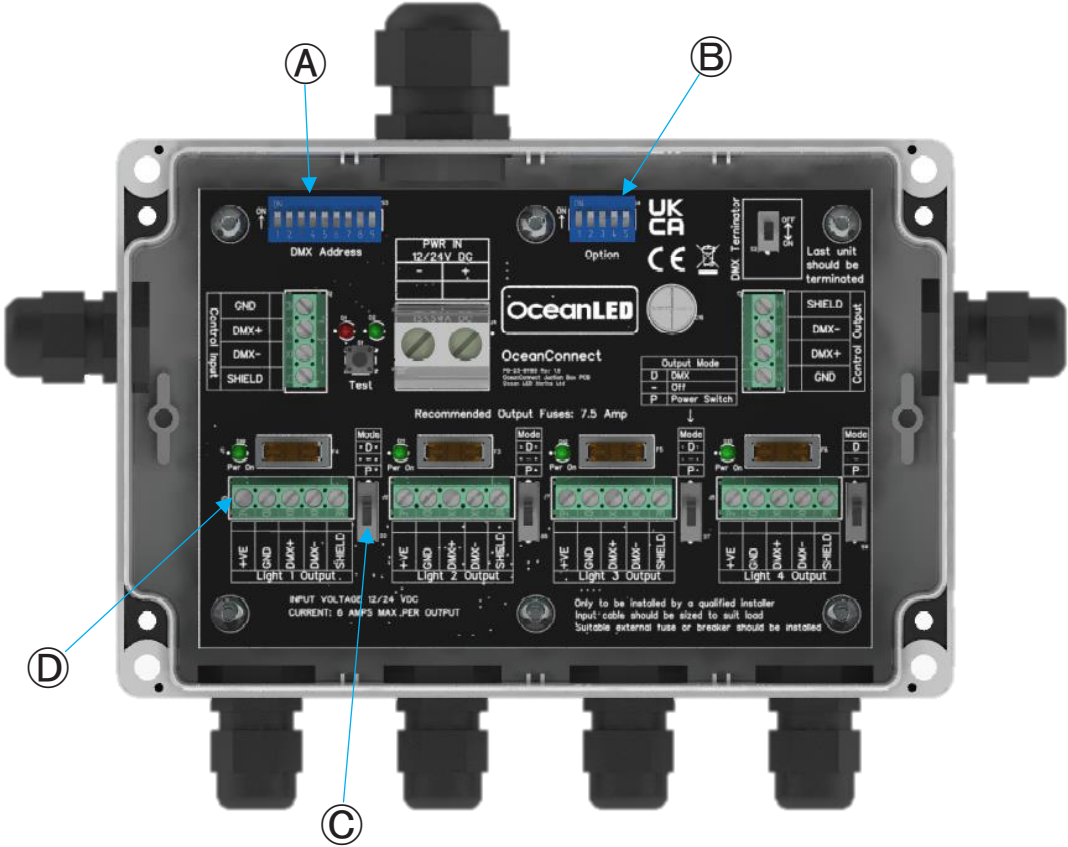


3.3.3 OceanBridge and OceanConnect with Switched Third Party and Explore E6/E7 Lights



4 Configuration

4.1 Overview

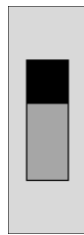


The OceanConnect is set up for operation using the DIP switches located on the PCB. The base DMX address is selected using the 9-way DIP switch (A) labelled “DMX Address”. The 5-way DIP switch (B) labelled “Option” establishes the operating modes for the OceanConnect.

4.2 Setting Output Mode

Each output is configured individually using the three-position slide switch ③ located alongside the screw terminal ④. Refer to the table below for the function of each switch position:

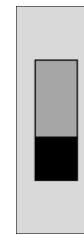
Mode	Functional Description
D	The output is in DMX mode for X-Series Colours lights
-	The output is off if unused
P	The output is in Power Switch mode for power switchable lights (Single/Dual colour X-Series, Sport/E3, E2, or 3 rd party lights)



DMX mode



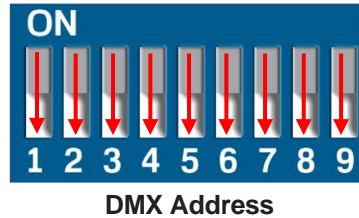
Output Off



Power Switch
Mode

4.3 Use with OceanBridge or RDM compatible controller

If operated with the OceanBridge or other Remote Device Management (RDM) compatible controller, all DMX Address switches should be set to OFF (DMX address 0). The DMX address of each output is set using the OceanBridge/controller via RDM communication.



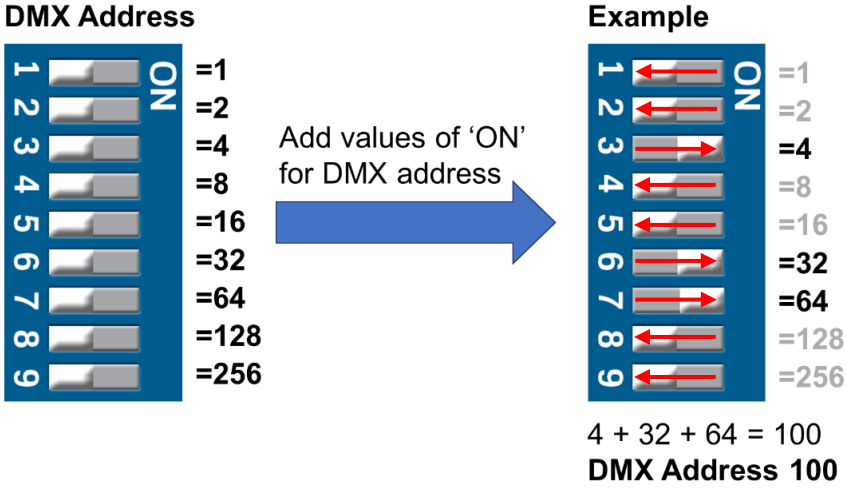
OceanConnect Settings For Different Light Types									
Type Of Light Connected	(C) Mode Switch Settings			(B) Option Switch Settings					Device Type Recognized by OceanBridge (Discover Mode)
	DMX Mode	Output Off	Power Switch Mode						
				1	2	3	4	5	
Discover D3, Mast Series M6, Third Party DC powered lights		P		OFF	OFF	OFF	OFF	OFF	Single Switchable
X-Series Colours		D		OFF	OFF	OFF	OFF	OFF	Colours RGBW
X-Series, Sport, Explore E3 Single Colour		P		OFF	OFF	ON	OFF	OFF	Power Toggle Single
Explore E2 Single Colour		P		OFF	OFF	OFF	ON	OFF	Power Toggle Single
Sport & Explore E3 Dual Colour		P		OFF	OFF	ON	ON	OFF	Power Toggle Dual
Sport & E3 Colour Scroll		P		OFF	OFF	ON	OFF	ON	Power Toggle Colour



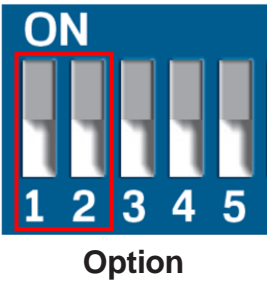
Note: The Option Switch settings (B / switches 3–5) apply only to Mode Switch (C) P settings (i.e Power Switch mode). It is therefore possible to mix DMX mode and Power Switch mode within one OceanConnect JB. It is not possible to mix different types of power toggle devices in one box.

4.4 Use with a standard DMX controller

When using a standard DMX controller (without RDM capability), the unit can be addressed manually by setting the DMX base address to a non-zero value, see example below.

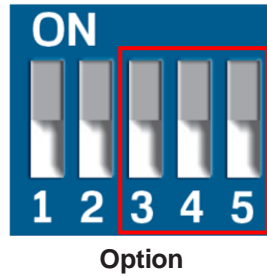


Option switches 1 & 2 change how the selected DMX address is applied to each light output:



Switch Number		Light Output DMX Address	Functional Description
1	2		
OFF	OFF	Light 1: Base Light 2: Base + 4 Light 3: Base + 8 Light 4: Base + 12	Each light on sequential DMX addresses
ON	OFF	Light 1: Base Light 2: Base Light 3: Base + 4 Light 4: Base + 4	Light 1 & 2 on base DMX address, Light 3 & 4 on sequential DMX address
OFF	ON	Light 1: Base Light 2: Base Light 3: Base Light 4: Base + 4	Light 1, 2 & 3 on base DMX address, Light 4 on sequential DMX address
ON	ON	Light 1: Base Light 2: Base Light 3: Base Light 4: Base	All lights on base DMX address

Option Switches 3 - 5 should be set according to the type of light connected:



OceanConnect Settings For Different Light Types						
Type Of Light Connected	(C) Mode Switch Settings			(B) Option Switch Settings		
	DMX Mode	Output Off	Power Switch Mode	3	4	5
Discover D3, Mast Series M6, Third Party DC powered lights		P		OFF	OFF	OFF
X-Series Colours		D		OFF	OFF	OFF
X-Series, Sport, Explore E3 Single Colour		P		ON	OFF	OFF
Explore E2 Single Colour		P		OFF	ON	OFF
Sport & Explore E3 Dual Colour		P		ON	ON	OFF
Sport & E3 Colour Scroll		P		ON	OFF	ON

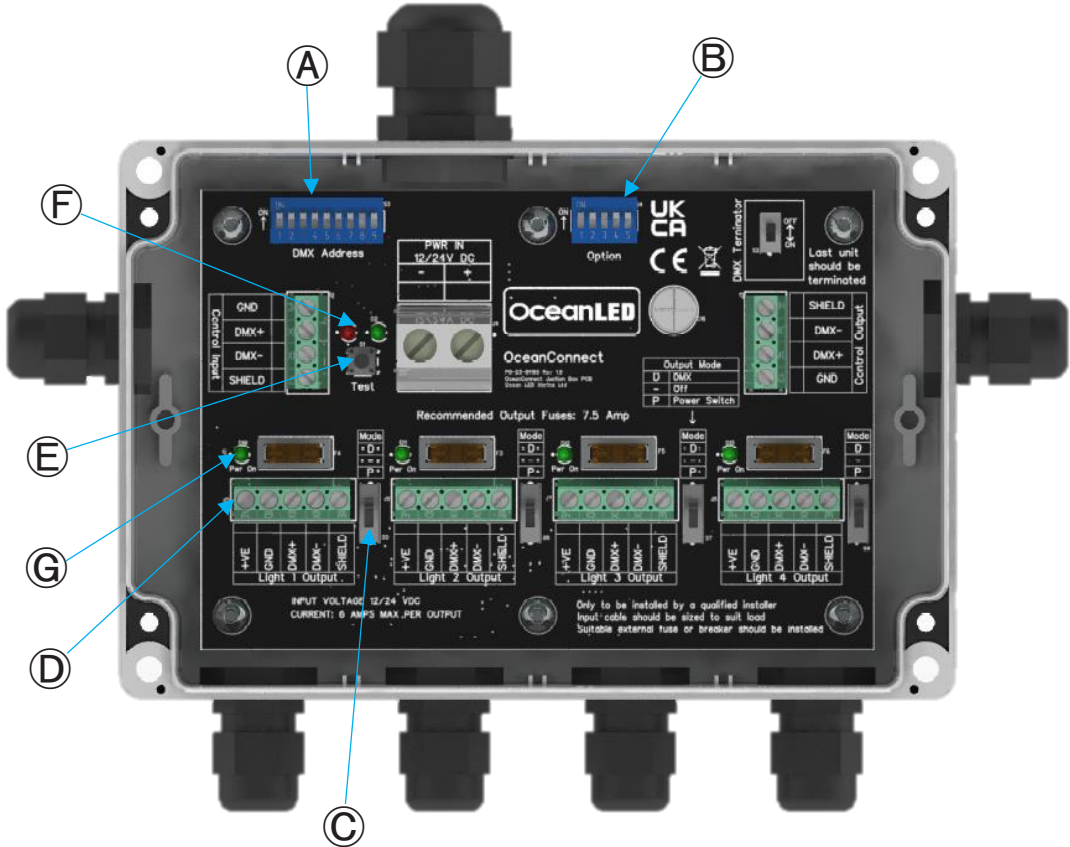


Note: The Option Switch settings (B / switches 3–5) apply only to Mode Switch (C) P settings (i.e Power Switch mode). It is therefore possible to mix DMX mode and Power Switch mode within one OceanConnect JB. It is not possible to mix different types of power toggle devices in one box.

See Appendix 7.3 of DMX values for lights with toggle functionality.

5 Operation

5.1 Test Mode



The test mode on the unit is enabled by short pressing the Test button (E) once and then pressing once again to exit. The operation of the test mode is dependent on the output mode selected:

Output Mode		Test Mode Operation
D	DMX	Output On DMX Colour Cycle
-	Off	Output Off
P	Power Switch	Output On (DC power only)

The DIP switch settings are also re-read when the test mode is toggled.

5.2 Indicator LED's

The red and green LED's (F) above the Test button indicate proper operation of the unit:

Red	Flashes rapidly when communicating via RDM Solid when the unit is in test mode
Green	Flashes steadily when the unit is receiving a DMX signal

The green LED (G) alongside each fuse indicates when power is supplied to the output.

6 Troubleshooting

OCEANCONNECT JUNCTION BOX			
Problem	Check	Cause	Solution
Lights do not react to the DMX controller / No power on output terminals. (lights don't light up)	Check power input to Junction Box.	No power	Check main supply fuse / breaker
			Check Power Input Connections
	Check the internal fuses (F1 – F4).	Fuse blown	Replace fuse. If fuse keeps blowing, then there is a short circuit on the connected light(s) that must be traced and rectified.
			Check the DMX Input / Output cable connections
	Check light output connections (DMX & Power)	Loose wire	Remake the wire
	DMX terminator in the last Junction Box in chain	DMX network not terminated	Switch on the DMX terminator in the last Junction Box in chain
Lights turn on but do not function as expected	Check configuration switch settings	Incorrect switch settings	Ensure configuration settings are appropriate for light type and control method
	Green indicator LED above the Test button	Unit is not receiving DMX if the LED is not flashing	Check OceanBridge/DMX controller setup

7 Appendix

7.1 Cable Gauge Chart 12V

		Supply & Return Cable Conductor Size Chart 3% drop for when using 12V DC supply										
Cable length (feet)*	Cable length (m)**	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	0-2	18 AWG	18 AWG	16 AWG	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG
5-10	2-3	18 AWG	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG
10-15	3-5	16 AWG	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG
15-20	5-6	16 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG
20-25	6-8	14 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG
25-30	8-9	14 AWG	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
30-35	9-11	14 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
35-40	11-12	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	12-14	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	14-15	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	15-17	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	17-18	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	18-20	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	20-21	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	21-23	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	23-24	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	24-26	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	26-27	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	27-29	8 AWG	6 AWG	4 AWG	2 AWG	2 AWG	1 AWG	2/0 AWG	3/0 AWG	3/0 AWG		
95-100	29-30	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.

7.2 Cable Gauge Chart 24V

Supply & Return Cable Conductor Size Chart 3% drop for when using 24V DC supply

Cable length (feet)*	Cable length (m)**	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	0-2	18 AWG	18 AWG	18 AWG	18 AWG	18 AWG	16 AWG	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG
5-10	2-3	18 AWG	18 AWG	16 AWG	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	8 AWG	8 AWG
10-15	3-5	18 AWG	16 AWG	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG
15-20	5-6	18 AWG	16 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG
20-25	6-8	18 AWG	14 AWG	12 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG
25-30	8-9	16 AWG	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG
30-35	9-11	16 AWG	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG
35-40	11-12	16 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG
40-45	12-14	14 AWG	12 AWG	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	4 AWG	2 AWG	2 AWG
45-50	14-15	14 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG
50-55	15-17	14 AWG	12 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG
55-60	17-18	14 AWG	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
60-65	18-20	14 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
65-70	20-21	14 AWG	10 AWG	8 AWG	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG	2 AWG	1 AWG	0 AWG
70-75	21-23	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	23-24	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	24-26	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	26-27	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	27-29	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	29-30	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.

7.3 Single/Dual/Colour Scroll Toggle Functionality

The toggle functionality is dependent on the light type and DMX value according to the ranges given in the tables below:

DMX Value Range	Single Colour Toggle Operating Modes
128 - 255	Output On
1 - 127	X-Series, Sport/E3, E2 Single Colour Strobe Mode

DMX Value Range	Dual Colour Toggle Operating Modes
181 - 255	Sport/E3 Dual White
151 - 180	Sport/E3 Dual Blue
121 - 150	Sport/E3 Dual Fade mode
91 - 120	Sport/E3 Dual Strobe White
61 - 90	Sport/E3 Dual Strobe Blue
31 - 60	Sport/E3 Dual Strobe Blue/White
1 - 30	Sport/E3 Dual 50/50 Colour

DMX Value Range	Colour Scroll Toggle Operating Modes
181 - 255	Sport/E3 Solid Colour
151 - 180	Sport/E3 Colour Strobe
121 - 150	Sport/E3 Colour Scroll

8 Warranty

For technical assistance:

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The Americas: warranty@oceanledusa.com

Warranty Serial Code(s):

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