

Installation and User Instructions

SLX C G2 AND SLX D G3 24VDC SEARCHLIGHT MODULES



October 2024
Version 2.0
EN



TRADEMARKS

Glamox has made every effort to supply trademark information about company names, products and services mentioned in this manual. Trademarks shown below were derived from various sources. All trademarks are the property of their respective owners.

General Notice: Some product names used in this manual are used for identification purposes only and may be trademarks of their respective companies.

LUMINELL BRAND



This is a Luminell branded product.

Luminell floodlights and searchlights are tailored for the most challenging and rough conditions at sea, featuring uncompromising design and robust construction. Offering versatile solutions, they stand strong in rough conditions, ensuring optimal light performance. Light matters!

Document Revisions

Date	Version Number	Document Changes
01.01.2016	1.0	First release
02.10.2024	2.0	User manual updated to newest format

Product Modifications

Production Year	Valid Revision of User Manual	Modifications
2017.03 – 2024.09	1.0	Release of first generation of SLX
2024.10 – Current	2.0	Updated and improved version of SLX

Table of Contents

1	PREFACE	5
2	Description of the product.....	7
3	Safety Instructions	18
4	Preparation.....	21
5	Operation	34
6	Maintenance	35
7	Repair and replacement of parts.....	37
8	Disassembly and disposal.....	38
9	Appendix I – supplied accessories.....	40
10	Appendix II - CE Declaration of Conformity	43
11	Glossary.....	44
12	Related documentation	45

1 PREFACE

1.1 Description of the User

The luminaires shall only be installed in a professional and legal manner by qualified personnel. This document is intended for the purchaser, installer, maintenance personnel and end user.

1.2 Explanation of Safety Warnings and Graphical Symbols

Symbol	Meaning
	Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.
	Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
	Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
	Indicates information considered important, but not hazard related.
	Warns of potential danger, e.g. crushing hazard.
	Warns of optical radiation.
	Warns potential of electric shock.
	Warns potential crush hazard.
	Warns hot surfaces.
	The CE Marking on the product is the manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety, and environmental protection legislation.

Explanation of Safety Warnings and Graphical Symbols (Continued)	
Symbol	Meaning
	This symbol on the product or packaging indicates that the device has a ground wire connection.
	The symbol on the product, the accessories or packaging indicates that this device must not be treated as unsorted municipal waste, but must be collected separately.

1.3 Retaining Instructions

Read and understand this manual and its safety instructions before using this product. Failure to do so can result in serious injury or death. Follow all the instructions. This will avoid fire, electric shocks or other hazards that may result in damage to property and/or severe or fatal injuries.

The product shall only be used by persons who have fully read and understand the contents of this user manual.

Ensure that each person who uses the product has read these warnings and instructions and follows them.

Keep all safety information and instructions for future reference and pass them on to subsequent users of the product.

The manufacturer is not liable for cases of material damage or personal injury caused by incorrect handling or non-compliance with the safety instructions. In such cases, the warranty will be voided.

1.4 Obtaining Documentation and Information

The latest version of the documentation is available here: <http://www.glamox.com>

1.4.1 Other languages

This is the English user manual. Manuals in other languages are available upon request.

1.4.2 Feedback, support and service

Product or documentation feedback and requests for support and service can be sent to your local sales contact. Please visit <https://www.glamox.com/global-marine/contact/> for contact information.

We appreciate your comments.

2 Description of the product

2.1 Intended Use and Reasonably Foreseeable Misuse

The SLX Series LED Searchlight Modules are made to replace conventional searchlight modules, increase light performance and eliminate costly and annoying maintenance. It is crafted to give superior value to the user with a powerful, compact and durable design, giving you the best return on investment possible.

The SLX Searchlight Module will enable you to detect an object at a distance of up to 2,600 meters away, depending on the chosen beam type for your needs.

The SLX is made to be mounted or fixed to suitable, existing movable platforms. Adapter bracket kits for certain movable searchlight platforms can also be delivered with your SLX searchlight module.

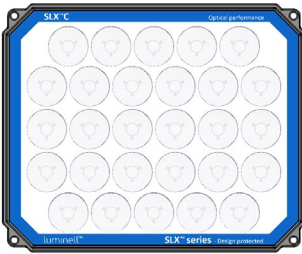
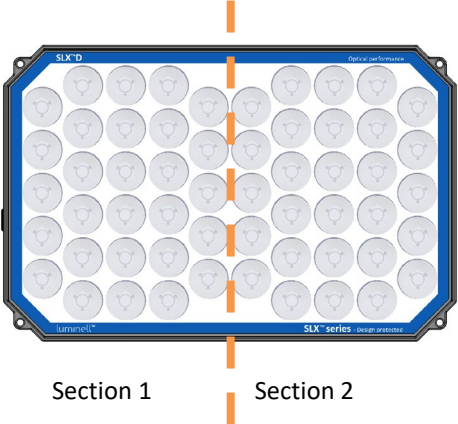
The SLX shall not be used as lighting for hazardous areas that would typically require standard certifications. This includes installations in explosive hazard zones, underground mining operations, or other extreme environments involving high concentrations of dust, explosive gas, complete liquid submersion over longer periods of time (IPX8) as well as any installation that would exceed ambient operating temperature limits.

NOTICE

Luminaire must be mounted in a location with good air circulation to enable full power output and the best lifetime of the product. The luminaire has an overtemperature protection that will dim the light output to not damage the LEDs.

2.2 Technical Data

Parameter	Specification
Product type	LED Searchlight Modules
Device name	SLX C G2 and SLX D G3 24VDC
Technical life span LED prediction	L70 @ 25°C: 75.000 hrs
Supply voltage	22-30 VDC
Max input wire cross section	Ref table in chapter 4.2.6.2 System wiring
Light quality	5000-7000 Kelvin, 70 CRI (min.)

Beam options (see illustration on next page for reference)	SLX C	SLX D	
			
	SB3.5 (Spot Beam 3.5°) or SB6 (Spot Beam 6°)	Section 1	Section 2
		SB3.5	SB3.5
		SB3.5	SB6
		SB6	SB6
Energy consumption	250W	500W	
Luminaire module weight	4.4 kg	10 kg	
Capacitance + to earth	20uF	40uF	
Capacitance - to earth	20uF	40uF	
Rated ambient operation temperature	-40°C to +55°C		
Rated ambient storage temperature	-40°C to +80°C		
Ingress protection rating	IP66/67		
Corrosion class	C5m ISO 9223/12944 (for offshore and maritime environments)		
Housing material	Anodized and powder coated aluminium, sea water resistant		

2.3 Technical Data when connected to external AC power supply

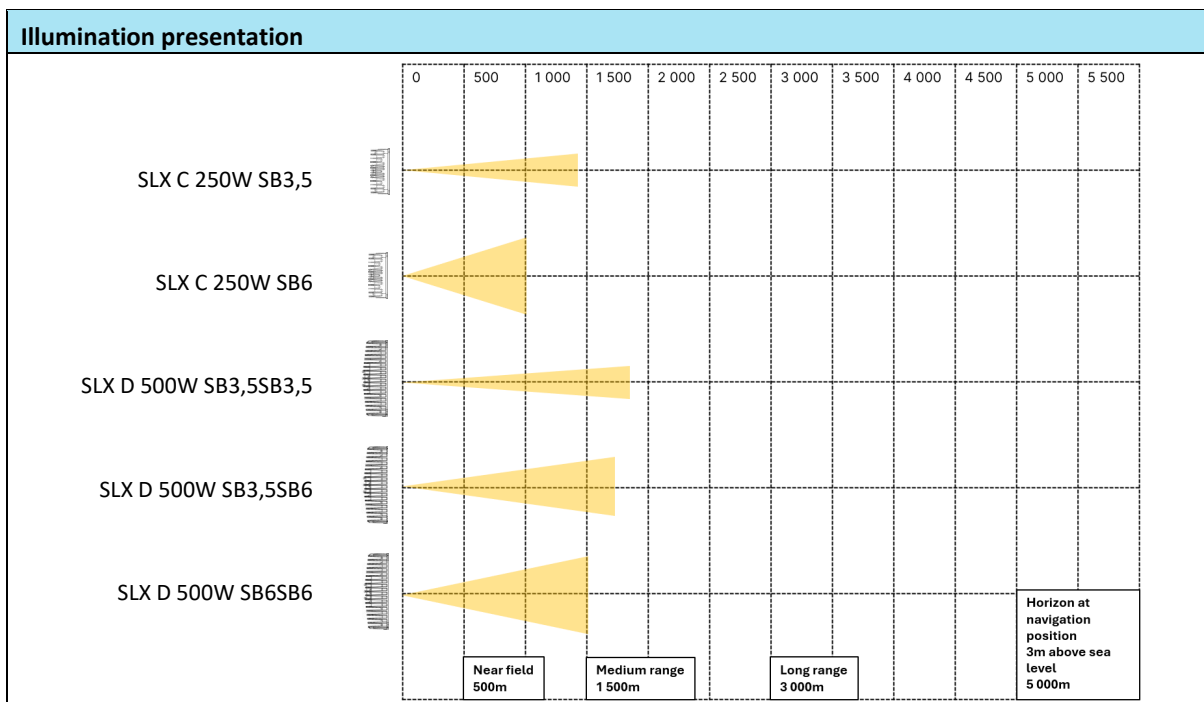
2.3.1 SLX C 24VDC

Parameter	Specification
Power supply accessory attached	1 x PSU Meanwell HLG320H-24A LN1003183
Energy consumption	~270W (increase because of inefficiency in PSU)
Power factor	0,97 @ 230VAC
Supply voltage external PSU Accessory	100-277 VAC 130-300 VDC

2.3.2 SLX D 24VDC

Parameter	Specification
Power supply accessory attached	2 x PSU Meanwell HLG320H-24A LN1003183
Energy consumption	~540W (increase because of inefficiency in PSU)
Power factor	0,97 @ 230VAC
Supply voltage external PSU Accessory	100-277 VAC 130-300 VDC

2.4 Light technical data



Variant	200m	500m	1000m	1500m	Max range 1 lux	Max intensity
SLX C 250W SB3,5	50 lux Ø11m	8 lux Ø28m	2 lux Ø56m	0,9 lux Ø83m	1 420m	2 025 000 cd
SLX C 250W SB6	25 lux Ø22m	4 lux Ø54m	~1 lux Ø108m	0,4 lux Ø163m	1 010m	1 025 000 cd
SLX D 500W SB3,5SB3,5	86 lux Ø11m	14 lux Ø28m	3 lux Ø56m	1,5 lux Ø83m	1 850m	3 437 500 cd
SLX D 500W SB3,5SB6	75 lux Ø15m	12 lux Ø38m	3 lux Ø77m	1,3 lux Ø115m	1 730m	3 000 000 cd
SLX D 500W SB6SB6	57 lux Ø21m	9 lux Ø52m	2 lux Ø105m	~1 lux Ø157m	1 510m	2 300 000 cd

NOTICE

Graphics and values based on data measured in test laboratory. Lux values are peak values, diameter mentioned is spot zone with minimum 50% intensity at the periphery.

2.5 Product designation key

Example: SLX D SL 500W24VDC SB3,5 5-7K 3IAAWT

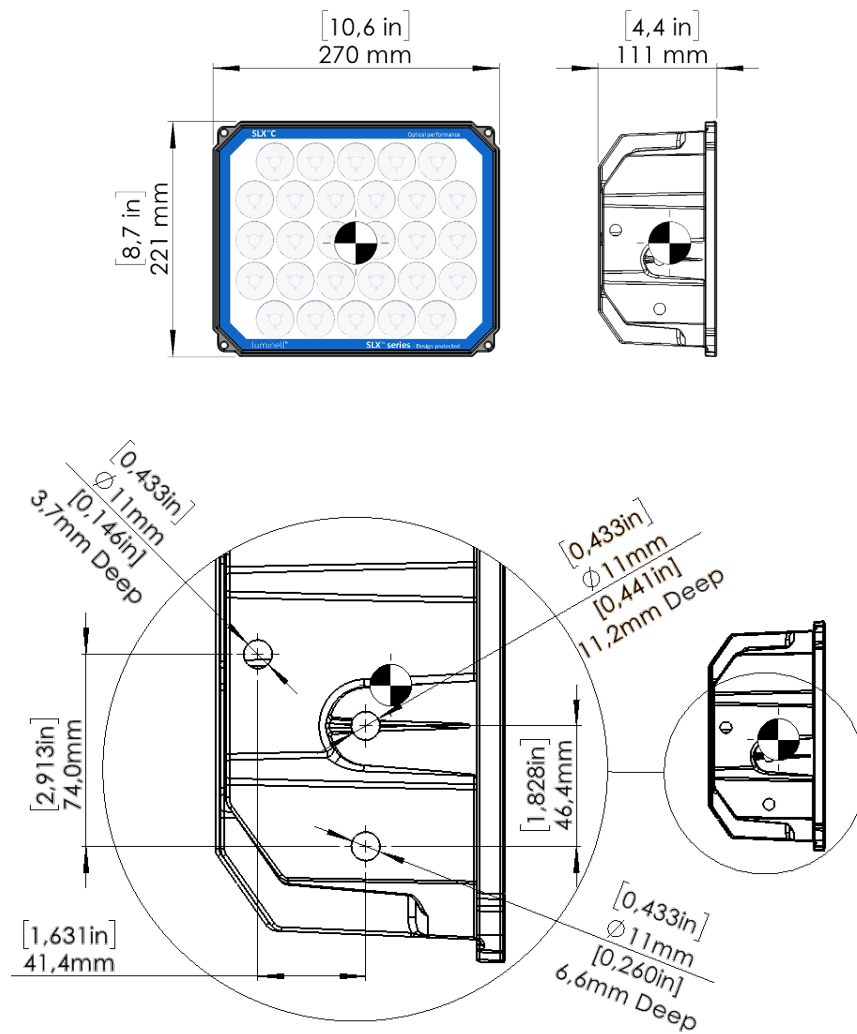
SLX D SL	500W	24VDC	SB3,5	5-7K	3IAAWT
Series designation	Power consumption	Supply voltage	Beam option	Light CCT range	3: Generation I: Glands A: Bracket A: glass WT: casing colour (White)

Please contact Glamox for what product variants that are possible.

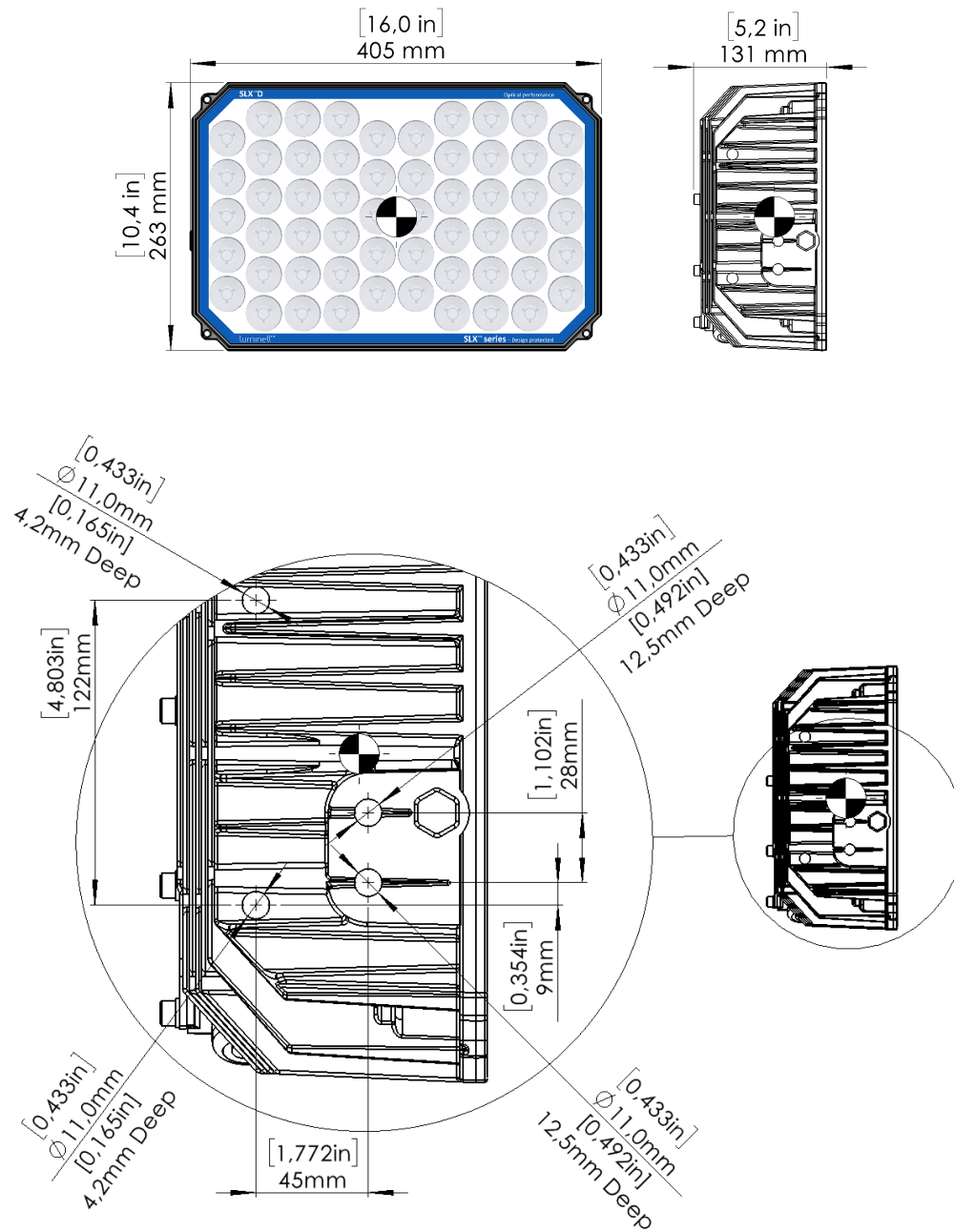
2.6 Dimensions and mass

The dimensions and center of gravity of luminaire housings are as shown in the illustrations below.

SLX C module weights 4.4kg, maximum projected surface area is 0.060m² and its general dimensions are given below:



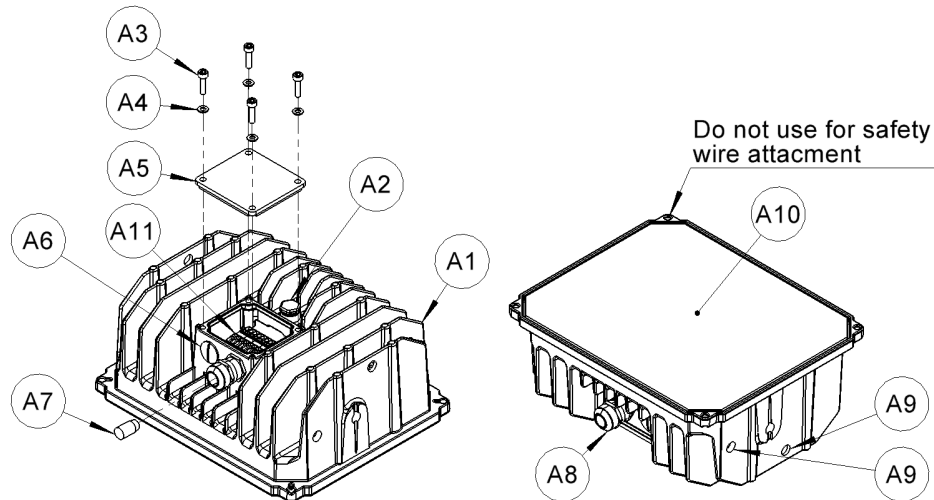
SLX D module weights 10kg, maximum projected surface area is 0.107m² and its general dimensions are given below:



2.7 Product elements

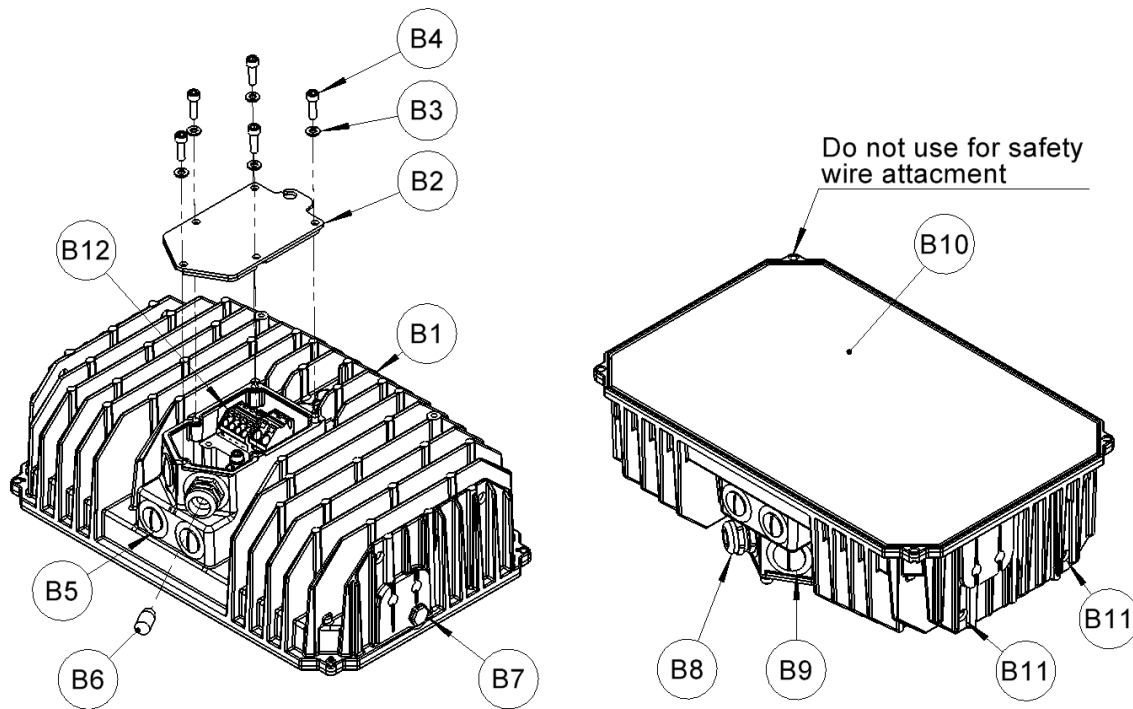
The main elements of the products from the SLX C series are illustrated below.

2.7.1 Elements of SLX C module



Element	Description
A1	Housing
A2	Membrane vent
A3	Fasteners for back cover
A4	Washers
A5	Back cover and gasket
A6	M20 blind plug
A7	Plug for cable gland
A8	M20 cable gland
A9	Holes for drop wire attachment, both sides
A10	Front glass, LEDs and optics behind
A11	Terminals for electrical installation

2.7.2 Elements of SLX D module



Element	Description
B1	Housing
B2	Back cover
B3	Washers
B4	Fasteners for back cover
B5	M20 blind plug
B6	Plug for cable gland
B7	Membrane vent
B8	M25 cable gland
B9	M25 blind plug
B10	Front glass, LEDs and optics behind
B11	Holes for drop wire attachment, both sides
B12	Terminals for electrical installation

2.8 Technical life span

2.8.1 LED lifetime

The luminaires of this series are designed for a lifetime of 75.000 hours operation at 25°C ambient temperature with moderate airflow on luminaire for cooling. After this time 50% of the LEDs used will still provide over 70% of their initial lumen output (L70B50). Lower ambient temperatures can lead to longer lifetimes.

2.8.2 Luminaire lifetime

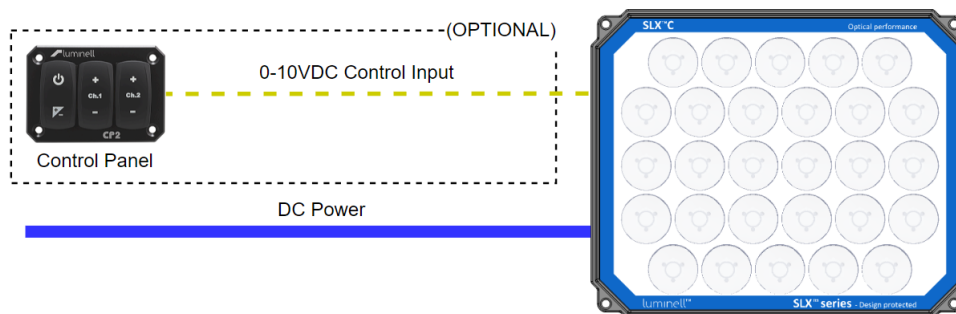
The luminaire is designed for harsh conditions. Take care to mount in the preferred mounting position safely out of reach of moving objects that may damage the luminaire, and perform regular maintenance to ensure optimal cooling properties are maintained.

If mounted upside down, there is an increased risk of water ingress through the pressure vent (this is relevant for SLX C, SLX D has the vent mounted on the side of the casing) and through the cable glands along the cables. Be aware of the risk of moisture entering the luminaire through the cables itself, as the vacuum effect of heated air may draw moisture through a damaged cable or from a connection point with high humidity.

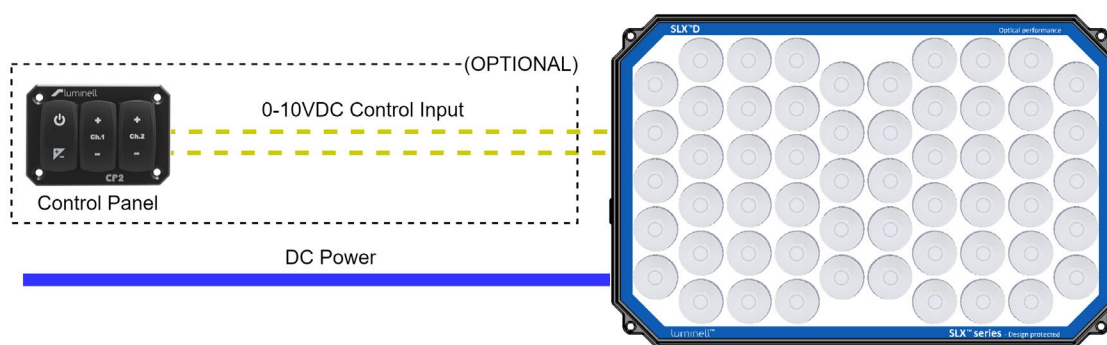
2.9 System layout

SLX C and D are powered by 24VDC and dimming is controlled by an optional 0-10VDC control line (manually setting the dim with resistors is also possible, see 4.2.6.2 System wiring). Examples shown uses the Luminell control panel, but the control signal could be any 0-10VDC source. When using a 0-10VDC control signal, 10VDC will always correspond to 100% light intensity. To ensure optimal control, we recommend using the optional “CP2 control panel (LN1003552)”.

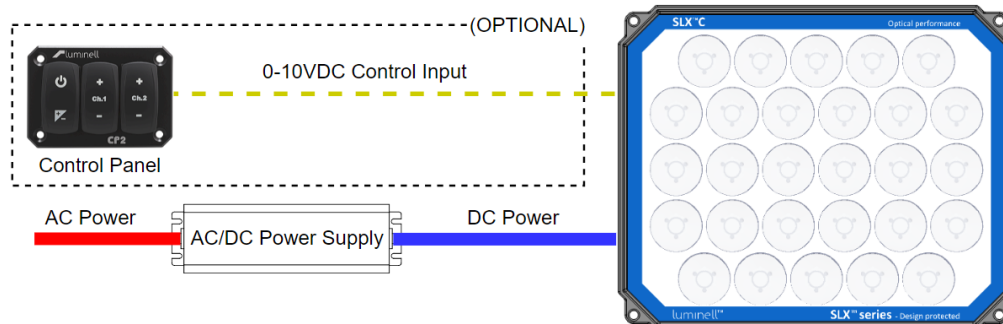
Layout below shows the SLX C in a system with ready DC power and with the optional dimming control.



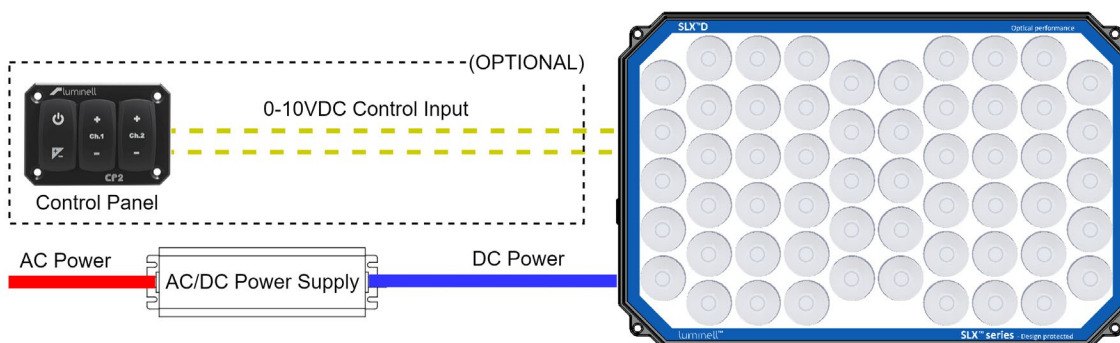
The layout is identical for SLX D, but with the addition of a second dimming control input.



Layout below shows the SLX C in a system with AC power where a transformer is necessary for power and with the optional dimming control, use the available accessory "PSU Meanwell HLG320H-24A (LN1003183)".



SLX D comes in an AC ready version that should be used for AC systems, but combining the SLX D with DC input with a transformer is also possible.



NOTICE

Max recommended cable length between 24VDC PSU and SLX C and D is 15m. Specified lengths are applicable with use of 2.5mm² cross section supply cable. This is a general recommendation. It is the installer's responsibility to assess this on each installation

3 Safety Instructions

⚠ WARNING

Read and understand this manual and its safety instructions before using this product. Failure to do so can result in serious injury or death.

3.1 Potential hazards during installation, testing and use

⚠ WARNING

During installation and testing electrical hazards need to be avoided. Only qualified personnel should install the products. During installation the mains power needs to be securely switched off. Testing should only take place when all wires are properly terminated and secured.



ELECTRICAL HAZARD
Do not work on luminaires while mains is switched on.

⚠ CAUTION

During testing and use the luminaires will emit huge amounts of light that is also focused by different types of lenses. Avoid staring into operating lamps during testing and use.



OPTICAL RADIATION
Do not stare at operating lamp. May be harmful to the eyes.

⚠ CAUTION

During installation and testing the installer should be aware of the crushing hazard when handling parts that are rotating against each other during installation (e.g., luminaire housing and bracket).



CRUSH HAZARD
Be aware of moving parts when lifting and mounting the floodlight.

⚠ CAUTION

Lamp housings outer surfaces can reach up to 85 °C. Let luminaire cool down before handling.



HOT SURFACES
Do not handle when hot.

3.2 Potential health consequences

Working on luminaires while mains powers are switched on can lead to severe injuries and even death.

Light burns from touching hot surfaces of the lamp housing.

Staring into the lamp while under operation may cause permanent eye damage.

Crushing fingers or hands during installation can lead to minor injuries.

3.3 Mounting products for safe use

SLX C and D are high performance searchlight modules and must be mounted in a secure way. These searchlight modules are not delivered with mounting hardware (this can be purchased as an accessory, see Section 9 Appendix I – supplied accessories). Installing the products in a safe way is the installer's responsibility.

Only connect fall protection equipment to A9 and B11 on the luminaire casings.

CAUTION

To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed if the wiring is within arm's reach.

CAUTION

Mount out of reach to reduce the risk of burns from touching hot surfaces of the lamp housing.

CAUTION

The luminaire should be positioned so that prolonged staring into the luminaire is not expected.



OPTICAL RADIATION
Do not stare at operating lamp. May be harmful to the eyes.

4 Preparation

4.1 Transport, storage and packaging content

4.1.1 Handling

All products need to be handled with care during transport and installation.

4.1.2 Storage

The products should always be stored in a dry place in their original packaging. To retain the product lifetime the storage temperature should be within the range of –40 to +80 °C.

4.1.3 Transporting the product

The products should always be transported in their original packaging.

4.1.4 Packaging contents

Package contains the following items:

- The luminaire itself
- A copy of this user manual
- Cardboard packaging material for safe shipping

4.2 How to Install the Product

⚠ WARNING

Installation of the product shall only be done by skilled persons. A skilled person is an individual with electrical education and/or training, able to perceive risks and avoid hazards occurring during installation and testing of the products.

4.2.1 Conditions for assembling

Do not assemble or adjust while power is switched on. Do not assemble under very wet weather conditions. Open cable ends and cable glands need to be properly shielded from moisture ingress during installation.

4.2.2 Tools for assembling

A small range of tools is required for the installation of the luminaire (this does not include tools for mounting the product):

Tool	Use
4mm hex key for SLX C module	Opening and closing back cover (A5)
5mm hex key for SLX D module	Opening and closing back cover (B2)
Blade screwdriver	Operating terminals (A11 and B12)
Cable cutter	Cutting installation cables to required length
Wire stripper	Preparing cable ends for termination
Ferrule crimping tool (optional)	Preparing cable ends for termination
(2x) 24mm combination spanner for SLX C module	For loosening and tightening the M20 cable glands (A8)
(2x) 28mm combination spanner for SLX D module	For loosening and tightening the M25 cable glands (B8)

4.2.3 Unpacking the product

The following unpacking procedure is recommended:

1. Read the label on the cardboard box carefully to understand the type of product in the box.
2. Cut the tape along the seams of the cardboard box cover with a paper knife. Do not penetrate the cardboard box with the knife more than is necessary as this may damage the product inside.
3. Take the product out of the box with both hands.
4. Check whether the products type label is consistent with the identifier on the box.
5. Check whether any part is damaged, or any component is missing.

4.2.4 Mounting positions

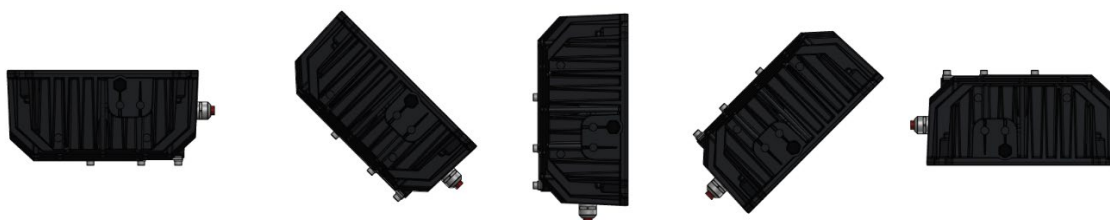
Mounting position and orientation need to be selected with respect to the instructions regarding 3.3 .

The SLX C and D are designed for outdoor use under offshore conditions on vessels, platforms and other offshore installations. It shall not be used as lighting for hazardous areas not specified by Glamox.

The product can be installed indoors at rated ambient temperatures.

NOTICE

Never mount the luminaire in a position where water can accumulate on the vents (A2 and B7). Never mount the luminaire in a position where water can run down a cable and pool up on the cable glands. See examples of permissible mounting orientations below:



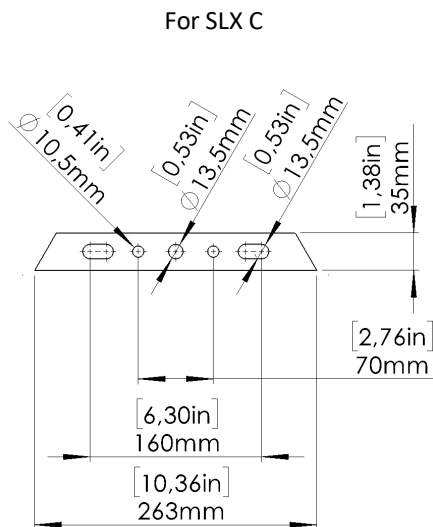
4.2.5 Mechanical Installation

SLX C and D are delivered without any brackets or mounting hardware. It is up to the installer to mount the searchlight modules in a safe way.

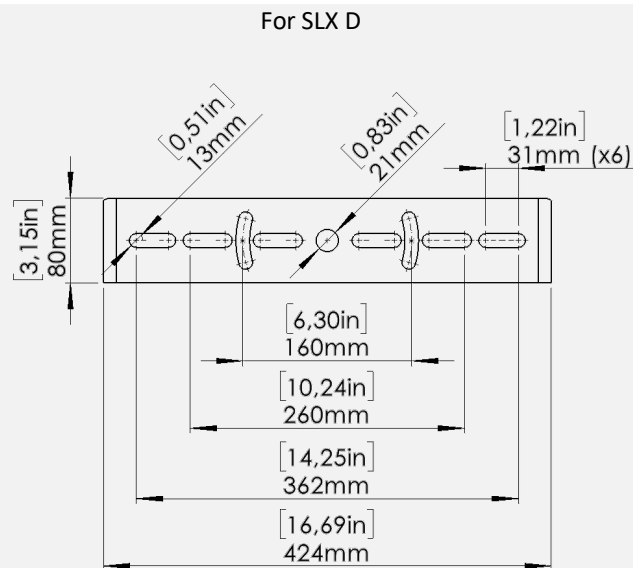
NOTICE

Luminaire must be mounted in a location with good air circulation to enable full power output and the best lifetime of the product. The luminaire has an overtemperature protection that will dim the light output to not damage the LEDs.

Accessories are available for simple fixed mounting with brackets for both SLX C and D, their interface are shown below, see Section 9 Appendix I – supplied accessories.



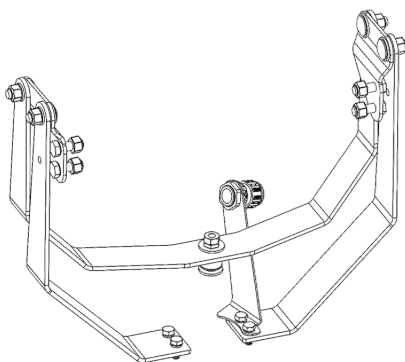
Accessory part number LNL0412



Accessory part number LN1002773

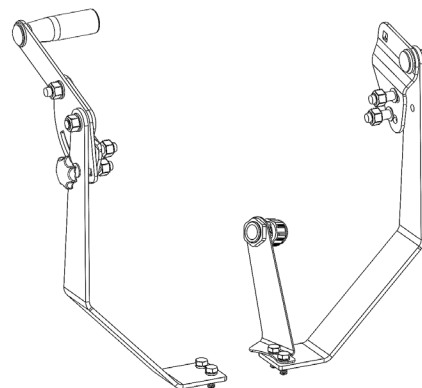
SLX D also has a retrofit kit for Norselight searchlight platforms which enables existing installations to upgrade to LED technology, please refer to the accessories' user manuals for detailed information.

Motorized operation



Accessory part number 11930096

Handheld operation



Accessory part number 11931828

NOTICE

Retrofit kits are only available for SLX D.

4.2.6 Electrical installation

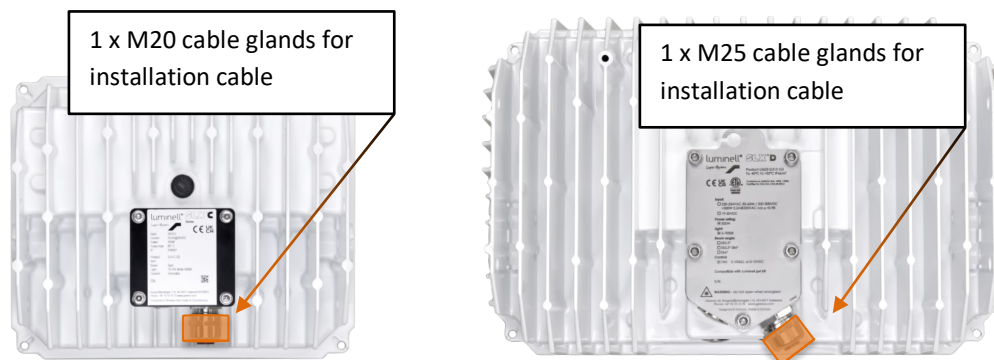
NOTICE

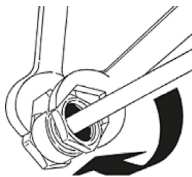
Luminaire must only be connected to a DC voltage source within the input voltage rating of the product.

4.2.6.1 Luminaire

The installation cable must have a suitable outer diameter, free of damages and made of a material that is suitable for its environment. Outer surface of the cable must be uniform and without scratches or defects that might jeopardize the sealing integrity of the cable gland connection. Refer to the table below for the different sizes that are supported. The preinstalled cable gland on the SLX D module has multiple seal inserts that can be removed to accommodate different cable sizes. Torque cap nut to specified torque setting as stated in table below. Use two 28 mm spanners for the SLX D module or two 24 mm spanners for the SLX C module to constrain the body of the cable gland while torquing the cap nut.

These are the installation values for the standard cable gland delivered on products. Any custom variants with different cable glands must follow the relevant instructions.



Module	Seals installed in Cable Gland	Allowable cable outer diameter	Cable gland torque	
SLX C M20 Cable Gland	Single Seal	Ø 8 – 13 mm	8 Nm	
	Reduction sealing insert	Ø 6 – 8 mm		
	Tripple Seal (standard)	Ø 10 – 12 mm	25 Nm	
SLX D M25 Cable Gland	Double Seal	Ø 12 – 14.5 mm	20 Nm	
	Single Seal	Ø 14.5 – 18 mm	18 Nm	

NOTICE

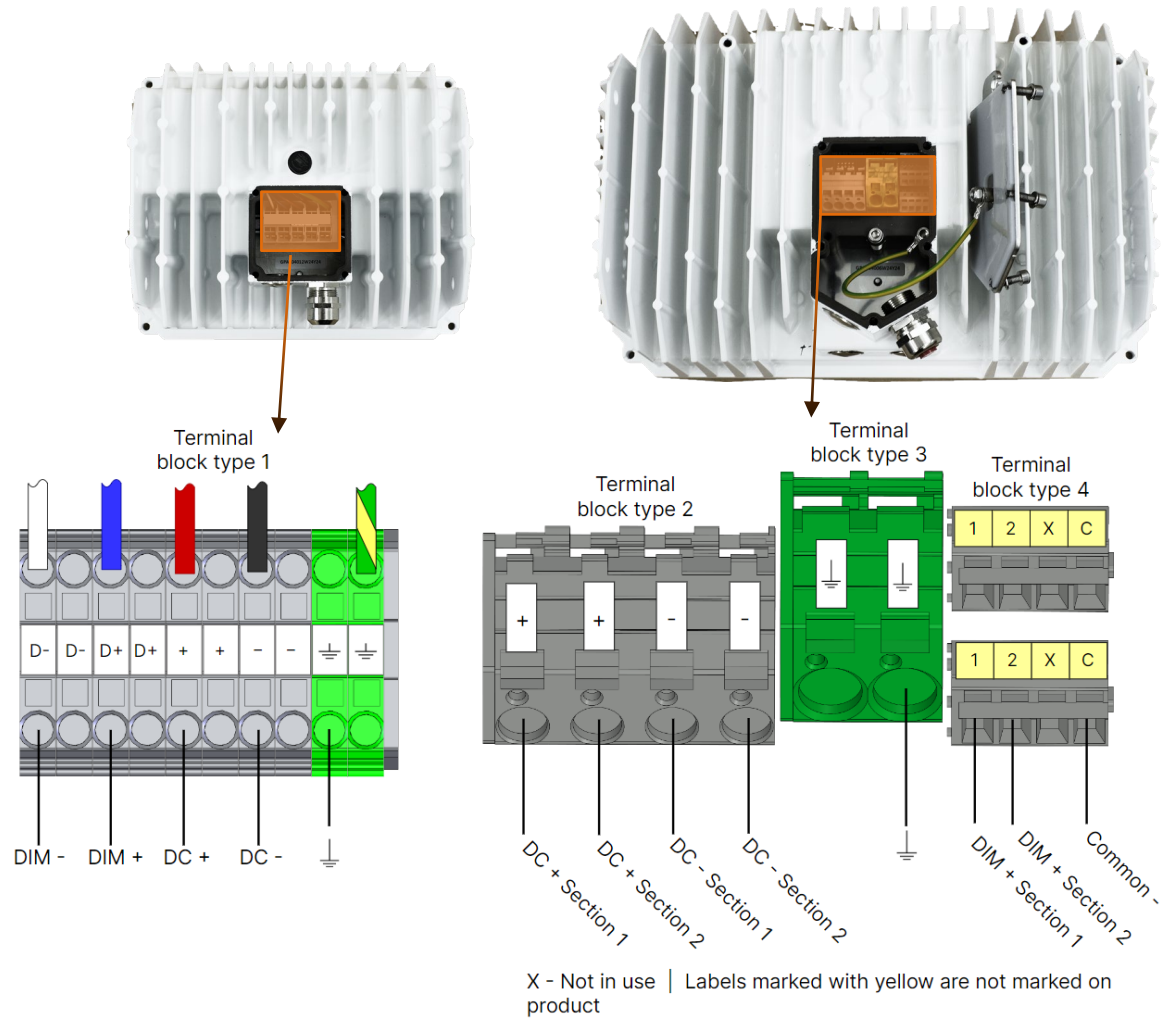
The specified torques were determined under laboratory conditions and with test mandrels according to EN 62444. The torques are therefore guide values. The torques should be observed under normal climatic conditions for fittings and locknuts. Depending on the cable used, care must be taken when tightening the cap nuts that the torques are not exceeded in order to avoid cable damage.

⚠ CAUTION

Always tighten cable glands before terminating the wires. The cable could be twisted during tightening and cause tension on already terminated wires.

4.2.6.2 System wiring

Connecting the SLX C and D is similar in practice, although their style of termination and terminal block setup is different. This chapter details what the terminal blocks interface to in the product and recommended ways of wiring the products.



Please see following pages for further wiring configurations.

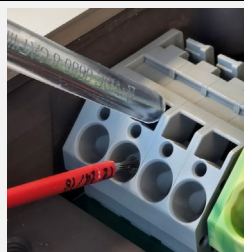
SLX C

Terminal block
type 1



Solid conductor without ferrule	0.08 – 2.5 mm ²
Fine-stranded conductor without ferrule	0.08 – 4 mm ²
Fine-stranded conductor with ferrule	0.08 – 1.5 mm ²
Wire strip length	6 – 7 mm

Terminal block
type 2



Solid and Fine-stranded conductor without ferrule	0.2 – 6 mm ²
Fine-stranded conductor with ferrule	0.25 – 4 mm ²
Wire strip length	11 – 12 mm

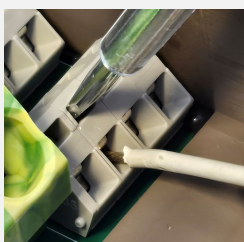
SLX D

Terminal block
type 3



Solid and Fine-stranded conductor without ferrule	0.2 – 16 mm ²
Fine-stranded conductor with ferrule	0.25 – 10 mm ²
Wire strip length	12 – 13 mm

Terminal block
type 4



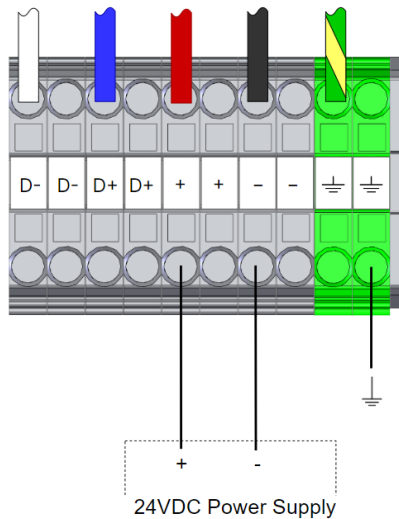
Solid and Fine-stranded conductor without ferrule	0.08 – 2.5 mm ²
Fine-stranded conductor with ferrule	0.25 – 1.5 mm ²
Wire strip length	5 – 6 mm

⚠ CAUTION

Excessive use of force or wrong operation to terminal blocks can damage the product.

Connecting the luminaire can be done in multiple ways, below are some recommended connection diagrams.

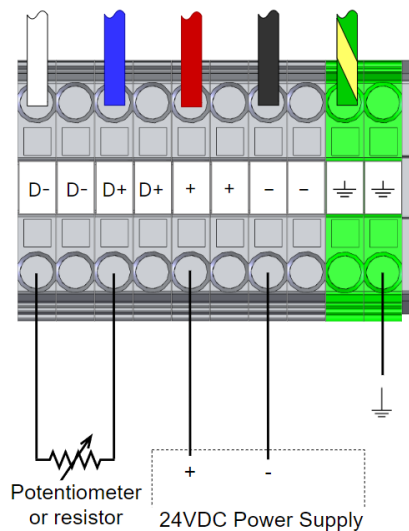
Wiring diagrams for SLX C modules



SLX C module connection with 3 core cable, no dimming

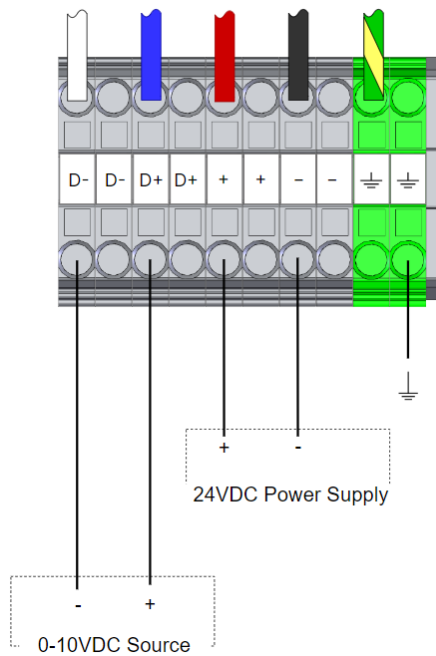
Luminaire will turn on LEDs when power is supplied.

Not connecting a source to the dimming input will result in the luminaire being set at 100% light output.



SLX C module connection with 3 core cable and manual dimming control

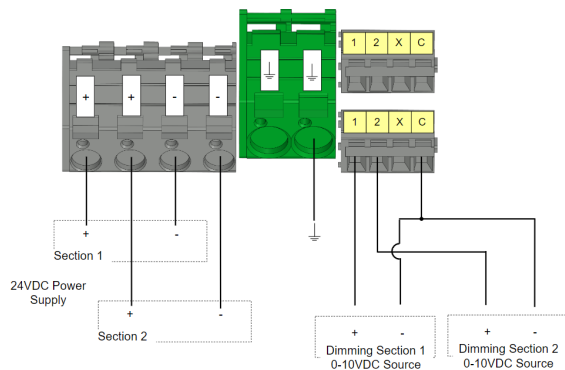
Connecting a resistor or potentiometer between D- to D+ enables manual setting of the light output of the luminaire. See end of chapter for resistor values.



SLX C module connection with 5 core cable and dimming control

Connecting a resistor or 0-10VDC supply between D- to D+ enables control of the light output of the luminaire.

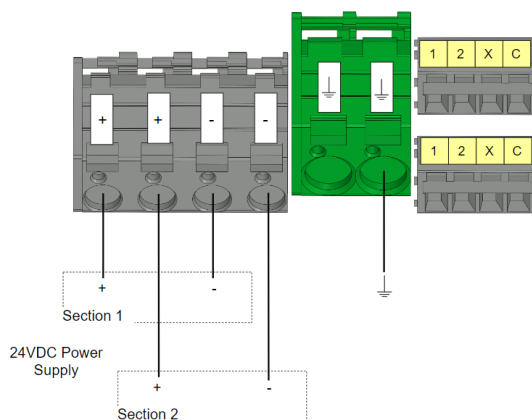
Wiring diagrams for SLX D modules



SLX D module connection with 8/9 core cable

This provides separate power to both sections of the searchlight and full dimming control.

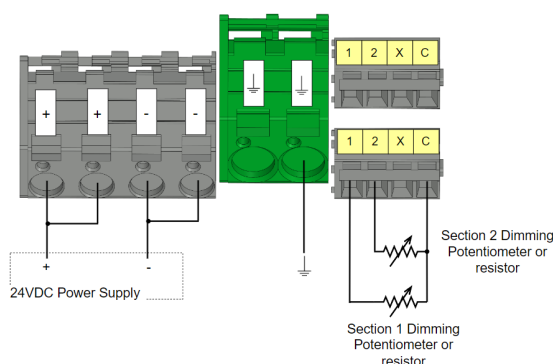
Using common negative for dimming saves one core in the cable (8 core cable).



Connection with 5 core cable no dimming

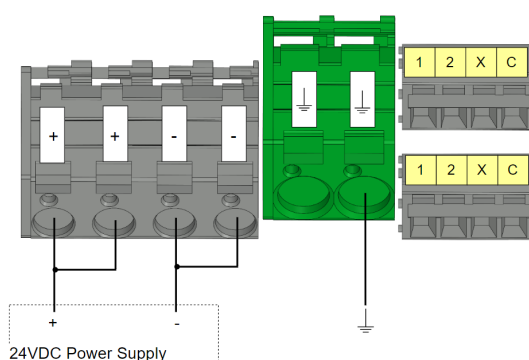
This provides separate power to both sections of the searchlight, but no dimming control.

Not connecting a source to the dimming inputs will result in the luminaire being set at 100% light output.



SLX D module connection with 3 core cable and manual dimming

Connecting a resistor or potentiometer between 1 and 2 to C enables manual setting of the light output of the luminaires two channels. See end of chapter for resistor values.



SLX D module connection with 3 core cable

Not connecting a source to the dimming inputs will result in the luminaire being set at 100% light output.

NOTICE

Max recommended cable length between 24VDC PSU and SLX C and D is 15m. Specified lengths are applicable with use of 2.5mm² cross section supply cable. This is a general recommendation. It is the installer's responsibility to assess this on each installation

Manual dimming as described in the above system wiring examples must be done with a resistor $<100\text{ k}\Omega$. The resistance needs to be reduced if more sections/modules are controlled together, see table beneath.

No. of sections parallel connected	1x	2x	4x	6x	If the Dim control is not connected or used, then the light output will be 100% by default.
Max. resistance for 100%	$>100\text{ k}\Omega$	$>50\text{ k}\Omega$	$>30\text{ k}\Omega$	$>12\text{ k}\Omega$	

4.2.7 Gel Kit for SLX D

Filling the connection box in the back of the SLX D with gel is possible. This further improves the ingress protection and reduces the need for inspection. Refer to “Connection Box Gel KIT LN1002600”, the gel is an accessory and is not delivered with the product.



NOTICE

SLX C is not gel kit compatible, trying to use the gel kit on these searchlight module will void the warranty of the product.

4.2.8 Test for correct installation

NOTICE

Insulation testing with test voltage over 50V must not be performed because SLX C and D have EMC filters that will falsely indicate an earth fault on this test.

NOTICE

SLX C and D have a high capacitance to earth because of the products EMC filters which can cause active insulation monitors to falsely indicate an earth fault. Installers are advised to use passive insulation monitors which are not affected or ensure that active monitors can handle the total system capacitance.

To verify correct installation and function of the product please perform the following test after executing a safety check as described in the 5.1.1 Checks before using the product.

Step	Description	Inspect
1	Apply power to the luminaire If dimming control is used, make sure that the dimming signal is not set to 0%	LEDs turn ON, luminaire is outputting light
2	If dimming control is used, adjust the dim signal up and down If dimming is controlled by a resistor jumper, then remove power to the luminaire, remove the resistor and turn power on again	LEDs are ON, but light output varies with the adjustment of the dim signal, lowest setting If using a resistor jumper for controlling dimming, then visually confirm that the luminaire is operating at full power with no resistor installed and that the desired light output is present when the resistor is installed
3	Remove power to the luminaire	LEDs turn OFF, luminaire is not outputting light

5 Operation

5.1 How to Use the Product

5.1.1 Checks before using the product

Before product is used, checks should be done to verify the integrity of the product for safe operation.

The following safety checks are recommended:

1. Check if environmental conditions are within the specified range.
2. Make sure the luminaires (or external power supply) do not have any broken mechanical parts, including front glass, housings, bolts or brackets.
3. Inspect cable and cable glands to make sure there is no breach of insulation or exposed wire.

5.1.2 Using the product

If all safety checks show no deviations, power up the system and let it shine bright.

NOTICE

SLX C and D need proper cooling from air circulation to function at full power. Inadequate cooling will lead to the luminaire dimming its light output down not to damage the LEDs because of the internal temperature. This will happen regardless of what dimming input that is set.

Please refer to the user manual of “CP2 control panel (LN1003552)” for its usage in controlling the light output of the luminaires.

For manual dimming please see examples given in 4.2.6.2 System wiring.

5.2 Actions for emergency and exceptional situations

If electrical malfunction occurs in a luminaire or power supply, turn off mains power supply immediately.

If a product is severely damaged during operation, turn off mains power supply immediately.

6 Maintenance

⚠ WARNING

Maintenance of the product shall only be done by qualified and trained personnel. The luminaires should only be opened or dismantled by Glamox personnel. Warranty will be voided if the product is opened in any way.

The SLX C and D require only little maintenance. The lamp housing is sealed for life. Depending on the installation location the luminaires should be cleaned at least once a year. More frequent cleaning might be necessary if birds choose the luminaire as a spot for nest building. Too infrequent cleaning can reduce the lifetime of the product.

6.1 Cleaning the product

The following procedure is recommended for cleaning luminaires:

1. Turn off mains power.
2. If feasible, remove any debris from the luminaire with a soft broom or soft brush.
3. Clean the luminaire with water. Do not use solvents.
4. If feasible, the front glass (element A10 and B10) can be polished and dried using a soft cloth.

A water hose may be used. The use of power washers is not recommended. Do not aim water jets directly at the membrane vent (element A2 and B7).

6.2 Testing the product

Execute a safety check as described in the 5.1.1 Checks before using the product before performing any testing.

Test procedure will follow on the next page.

6.2.1 Simple function Test

Step	Description	Inspect
1	Apply power to the luminaire If dimming control is used, make sure that the dimming signal is not set to 0%	LEDs turn ON, luminaire is outputting light
2	If dimming control is used, adjust the dim signal up and down	LEDs are ON, but light output varies with the adjustment of the dim signal
3	Remove power to the luminaire	LEDs turn OFF, luminaire is not outputting light

7 Repair and replacement of parts

NOTICE

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

7.1 Repair

The luminaire housings are sealed for life, therefore repair of luminaires on site is not feasible. Repair operations on luminaire housings need to be evaluated with Glamox from case to case. Please contact Glamox service for evaluation.

NOTICE

Cut the cable outside of the cable gland leaving the cable and gland as installed if the lamp is going to be returned to Glamox for claims handling.

7.2 Replacement of parts

For a list of spare parts and accessories please see Section 9 Appendix I – supplied accessories.

8 Disassembly and disposal

8.1 How to disassemble the product

⚠ WARNING

Power needs to be disconnected permanently when performing disassembly.

Disconnect the installation cables from the terminals in the connection box of the luminaire. The cable can now be cautiously dragged out from the luminaire. Plug the now exposed cable gland openings to make sure that water cannot enter the luminaire here.

Unbolt the luminaire bracket from the vessels/platforms structure. The product is now ready for reinstallation or disposal.

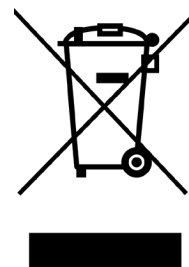
8.2 How to dispose the product

SLX C and D searchlight modules are considered electronic components.

8.2.1 Disposal of electronic components

The symbol on the product, the accessories or packaging indicates that this device must not be treated as unsorted municipal waste but must be collected separately! Dispose of the device via a collection point for the recycling of waste electrical and electronic equipment if you live within the EU and in other European countries that operate separate collection systems for waste electrical and electronic equipment. By disposing of the device in the proper manner, you help to avoid possible hazards for the environment and public health that could otherwise be caused by improper treatment of waste equipment. The recycling of materials contributes to the conservation of natural resources. Therefore, do not dispose of your old electrical and electronic equipment with the unsorted municipal waste.

To dispose of electronic components please make use of the local collection systems for waste electrical and electronic equipment.



8.2.2 Disposal of packaging waste

The packaging is made of environmentally friendly materials, which may be disposed through your local recycling facilities. By disposing of the packaging and packaging waste in the proper manner, you help to avoid possible hazards for the environment and public health. The symbol on the packaging indicates that the packaging is made of PAP.

To dispose of packaging waste please make use of the local recycling facilities.

8.2.3 Dismantling of product

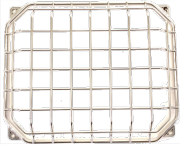
Dismantling the product for recycling is outside the scope of this document. Dismantling instructions for this product and other Glamox product can be downloaded here:

<https://www.glamox.com/global-marine/glamox-policies/dismantling-instructions/>

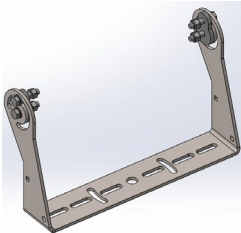
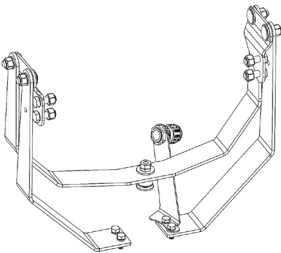
9 Appendix I – supplied accessories

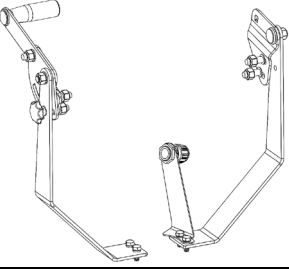
For ordering accessories, consumables and/or spare parts, please contact your local sales contact found here: <https://www.glamox.com/global-marine/contact/>

9.1 Accessories for SLX C

Image	Name	Article Number
	C Cap Set	LN1003102
	RLX C Anti ICE 230V wThermostat	LN1001481
	C Protection Guard Set	LN251
	C Marine Bracket Set	LNL0412
	PSU Meanwell HLG320H-24A	LN1003183

9.2 Accessories for SLX D

Image	Name	Article Number
	D Cap Set	LN1003100
	RLX D Anti ICE 230V wThermostat	LN1001482
	D Protection Guard Set	LN252
	Connection Box Gel KIT	LN1002600
	L0627 Dg3 Offshore bracket set	LN1002773
	FORKS SLX D Norselight R10/R5/R50/R60	11930096

	FORKS SLX D Norselight Direct Contro	11931828
	PSU Meanwell HLG320H-24A	LN1003183

9.3 Accessories for both SLX C and D

Image	Name	Article Number
	SAFETY WIRE 5MM 0,9M W/CARABIN	D7800
	CP2 Control Panel	LN1003552
	CP2 Control Panel Large	LN1003873

10 Appendix II - CE Declaration of Conformity



Declaration of Conformity

Date of Issue: 15th of February 2024

Manufacture: Glamox AS

Borgundfjordvegen 116

6017 Aalesund, Norway

Product: Luminell RLX Marine Floodlight. This is a series of powerful LED floodlights developed mainly for marine use onboard vessels. Non-Ex.

Types: Luminell RLX B, RLX C, RLX D and RLX E series LED floodlights.
Luminell SLX B, SLX C and SLX D series Searchlight modules.
Luminell BLX C, BLX D and BLX E series Bowlights.

Listed product series are tested and found in conformity with the following EU Directives:

Directive: *Low Voltage Directive (LDV) 2014/35/EU*

Standards applied: IEC 62031:2018 – LED Modules for general lighting
EN 62471:2008 – Photo biological safety of lamps and lamp systems
IEC 60598-1:2020 – Luminaires – General requirements and tests

Directive: *EMC Directive 2014/30/EU*

Standards applied: EN 55015:2013 – Radiated and conducted emissions

Other standards applied: IEC 60092-306:2009 – Electrical installations in ships - Luminaires and lighting accessories

Glamox AS, hereby declare that the equipment specified above conforms to the above standards.

Signed for and on behalf of: Glamox AS

David Fink

David Fink
Technology Director MOW



11 Glossary

Explain the meaning of all terms used in this document.

Term	Meaning
EMC	Electromagnetic Compatibility
M20 / M25	Size of cable gland
LEDs	Light Emitting Diodes
PSU	Power Supply Unit
VDC / DC	Voltage Direct Current / Direct current
VAC / AC	Voltage Alternating Current / Alternating Current

12 Related documentation

#	Document Title	Version #	Location	Author
	Dismantling instructions		https://www.glamox.com/global-marine/glamox-policies/dismantling-instructions/	Glamox