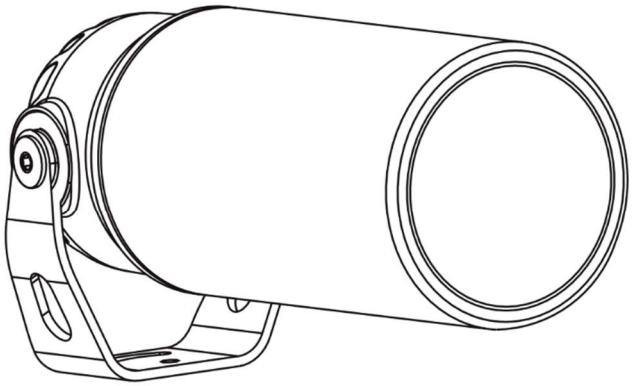
Anolis
A ROBE Business

Calumma™ Arts XS MC
Calumma™ Arts XS SC



QR code for user manual

USER MANUAL

Version 1.0

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FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE POWERING OR INSTALLING YOUR Calumma !
Save it for future reference.

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure safe operation, it is absolutely necessary for the user to follow the safety instructions and warnings written in this manual.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Unauthorized modification will void warranty.

1. Safety instructions

DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT!

Always disconnect the fixture from power before cleaning, servicing or installing.

This fixture should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized distributor or local power company.

Always disconnect the fixture from AC power before servicing or cleaning.

Make sure the power/data cable is not damaged by sharp edges.

Do not install the unit near an open flame.

Refer servicing to qualified service personnel.

Do not connect this fixture to a dimmer pack.

LED light emission. Risk of eye injury. Do not look into the beam from a short distance without suitable protective eyewear. Do not look at LEDs with magnifiers or similar optical instruments that may concentrate the light output.

The fixture was designed for outdoor use. This fixture must not be used for underwater installation.

When choosing the installation spot, please make sure that the fixture is not exposed to extreme heat or dust.

Avoid using the unit in locations subject to possible impacts.

The fixture body never must be covered with cloth or other materials when the fixture is under operation.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

The fixture becomes hot during operation. Allow the fixture to cool approximately 30 minutes prior to servicing or maintenance.

Please consider that unauthorized modifications on the fixture are forbidden due to safety reasons!

Please use the original packaging if the fixture is to be transported.

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the warranty becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock etc.

The product (covers and cables) must not be exposed to a high frequency electromagnetic field higher than 3V/m.

Immunity of the equipment is designed according to the standard EN 55035 Electromagnetic compatibility of multimedia equipment - Immunity requirements

Emission of the equipment complies with the standard EN55032 Electromagnetic compatibility of multimedia equipment – Emission Requirements according to class B.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

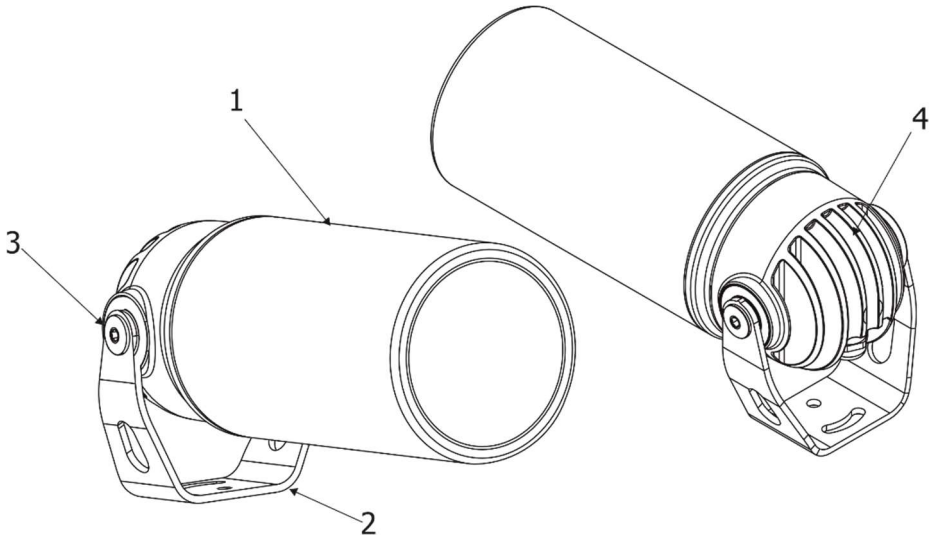
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The [Device] wireless operation is safe and complies to RF Exposure requirements.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning for fixtures with Harsh Environment Finish (HEF):
Handle with care!
Avoid any damage to the painted surface.
Damaging the paint may result in corrosion and loss of warranty.

2. Fixture exterior view

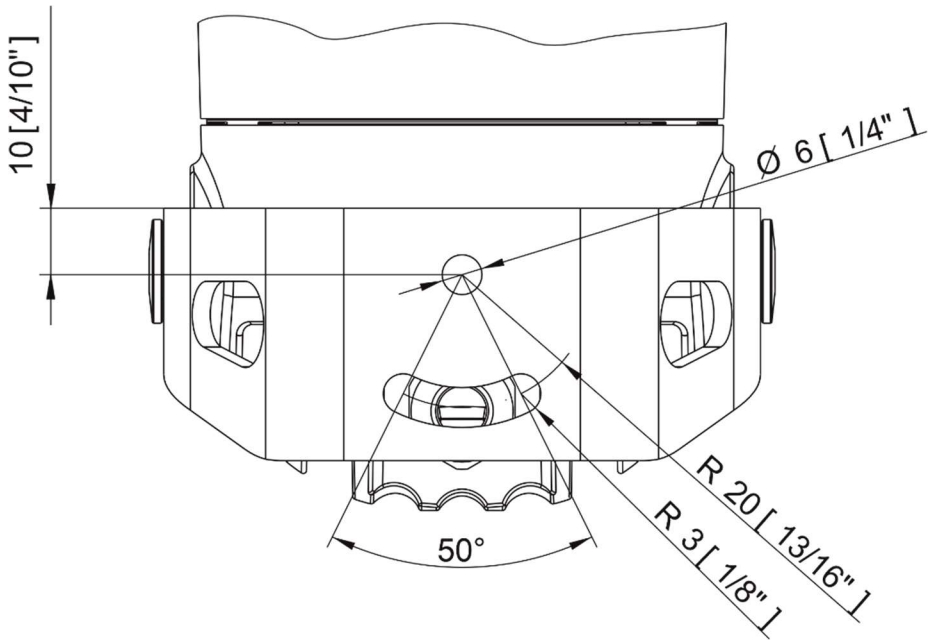


1. Optics cover
2. Mounting yoke
3. Tilt adjusting lock
4. LED module with heat sink

3. Installation

3.1 Mounting the fixture

The Calumma Arts can be fastened in any orientation on a flat, non-flammable surface by means of mounting yoke (2).



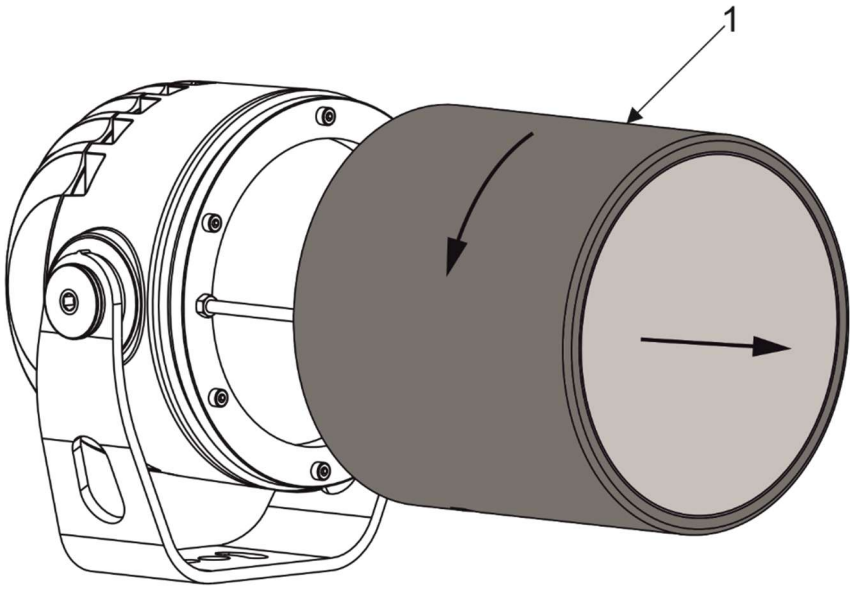
The LED module (4) can be tilted +180°/-180°. Use an Allen key 2.5 for adjusting a LED module position.

Ensure that the structure to which you are attaching the fixture is secure.

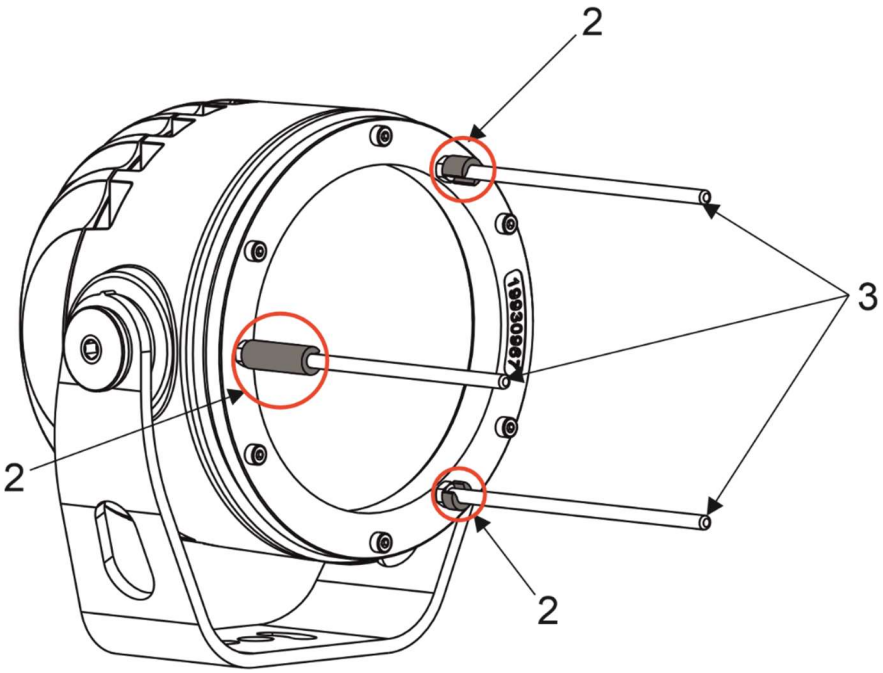
3.2 Glass holder installation

1. Disconnect the Calumma Arts M from mains.

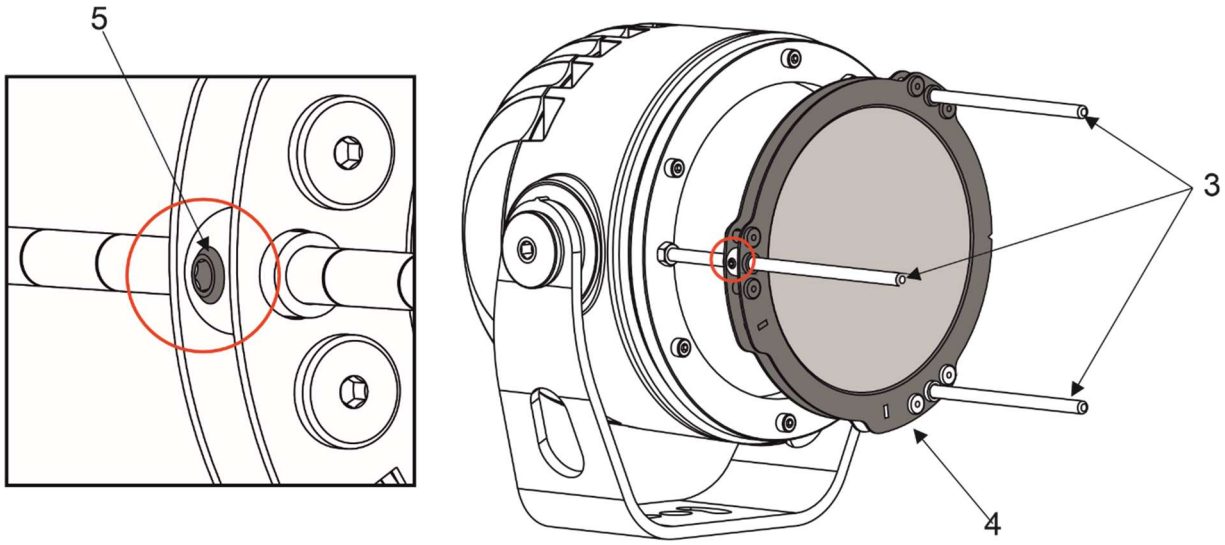
2. Remove the optics cover (1) as shown in the picture.



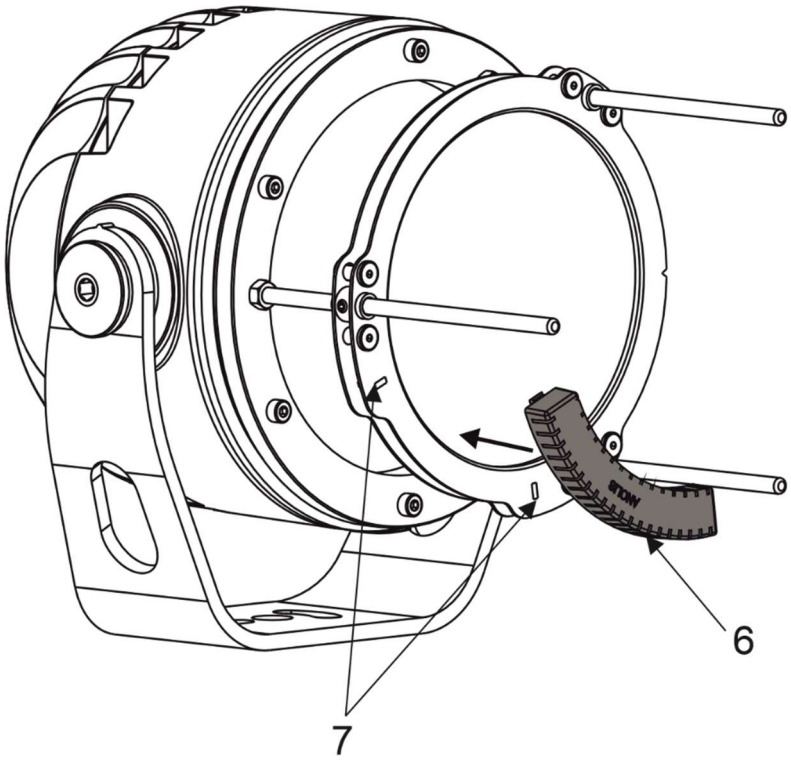
3. To precisely define the distance of the glass holder, you can use spacers (2)- (5mm, 10mm, 30mm) which are slid on the rods (3).



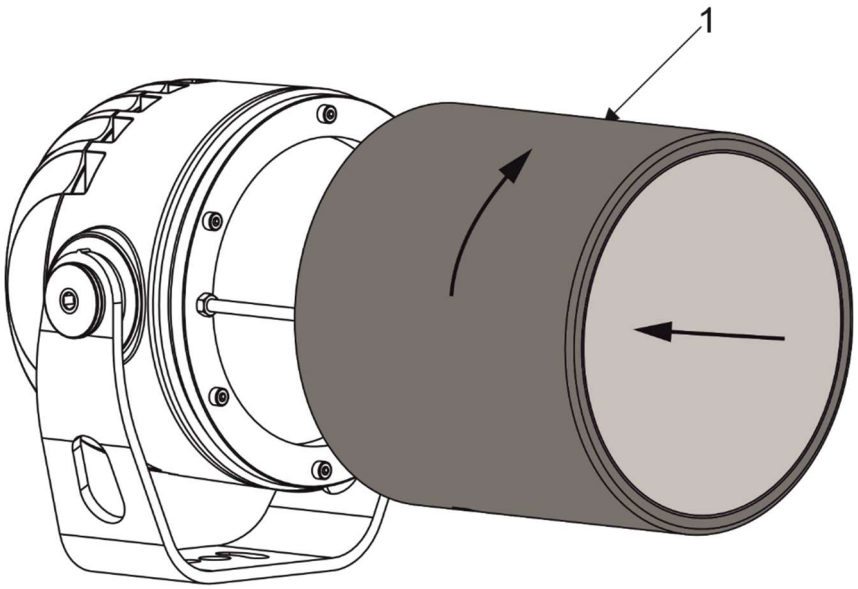
4. Place the glass holder (4) with glass on the three rods (3), adjust to the desired distance and secure it by means of the grub screw (5).



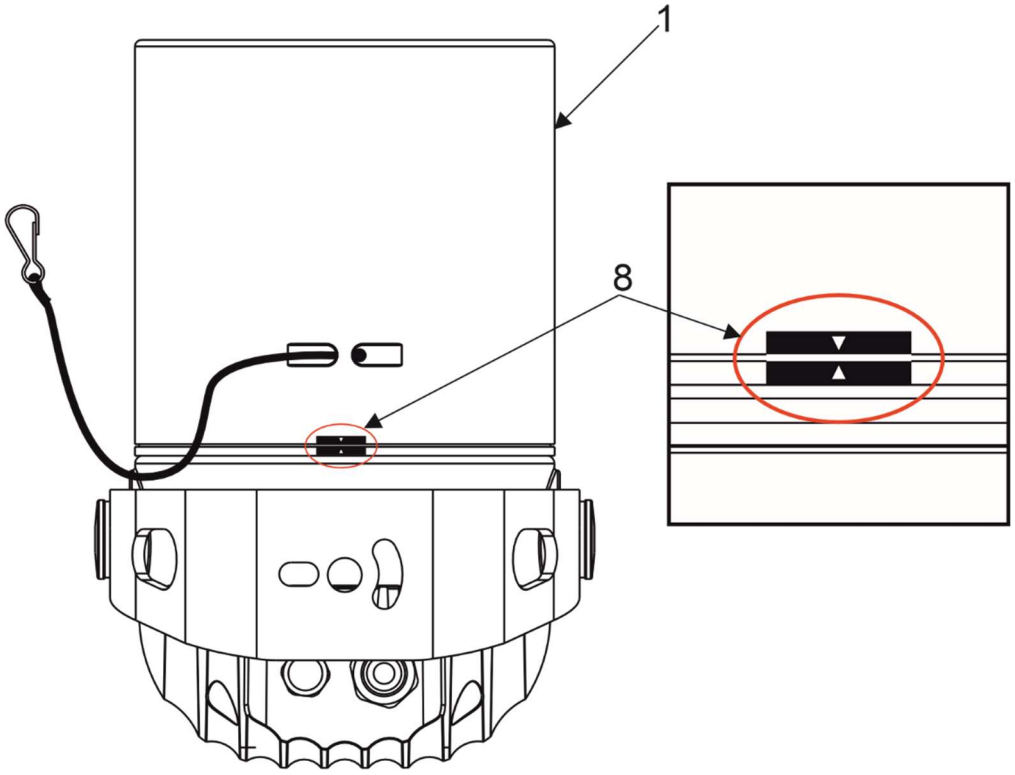
5.Place the box (6) with silicagel on the glass holder and snap it to the two holes (7) as shown in the pictures.



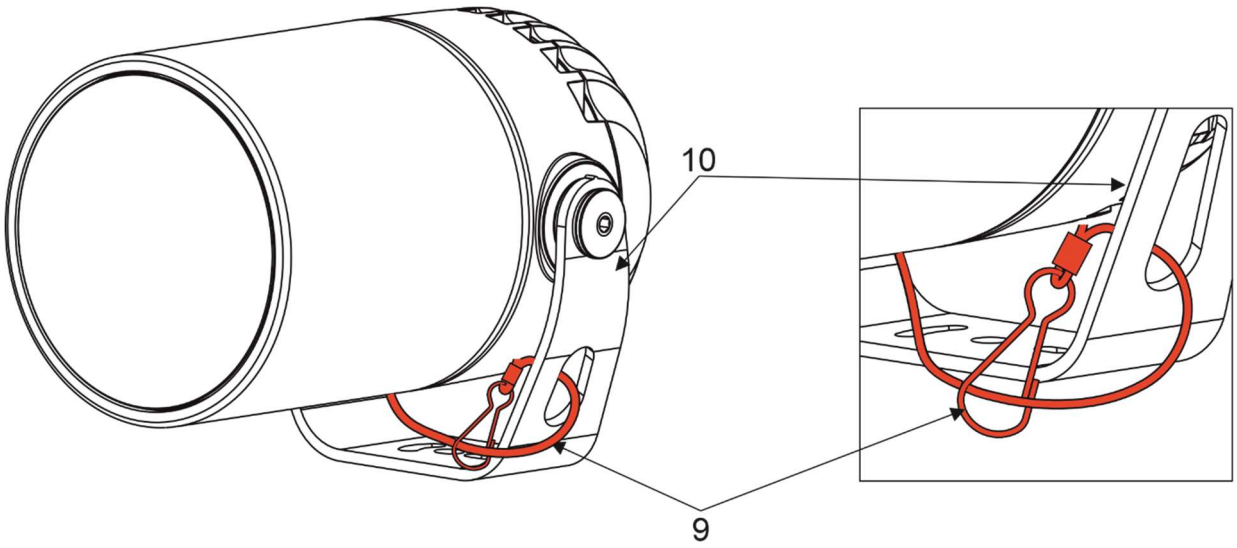
6. Screw the optics cover (1) back on the fixture.



When screwing the optics cover (1) onto the fixture, it is necessary to align the stickers (8) against each other to meet declared IP rating.



7.Secure the safety rope (9) through the yoke (9) on the fixture as shown in the picture.



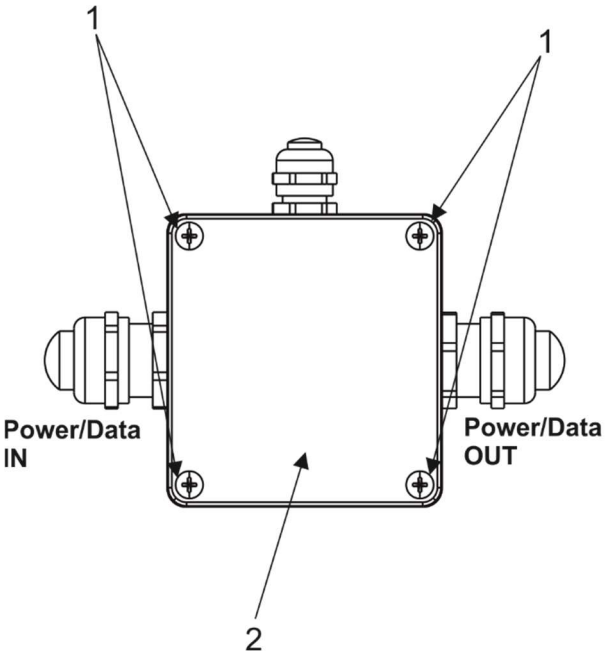
3.2 Connection to power

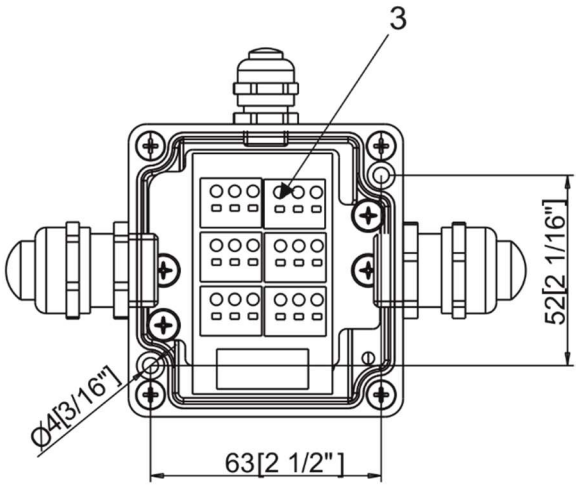
The unit must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.

When connecting Calumma Arts XS to the E-box (E-box Remote or E-box Remote Basic), make sure that the E-box is disconnected from power!

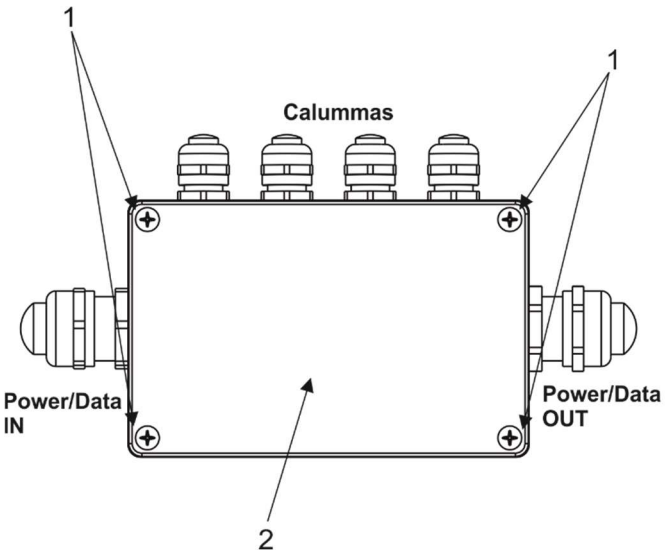
Junction box installation

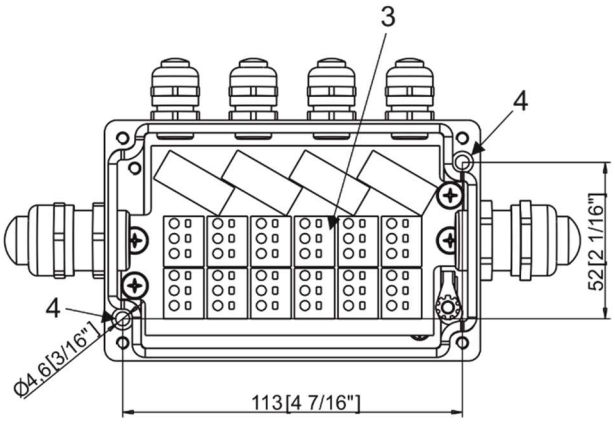
Junction box with one output





Junction box with four outputs



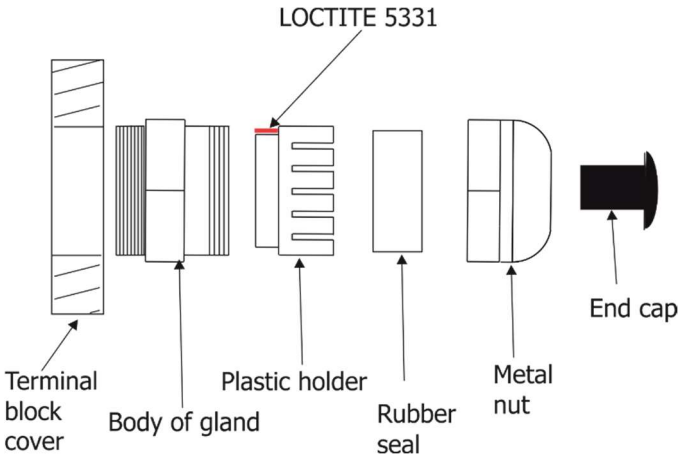


1.Unscrew the four screws (1) from the cover (2) on the junction box to get access to the PCB with terminal

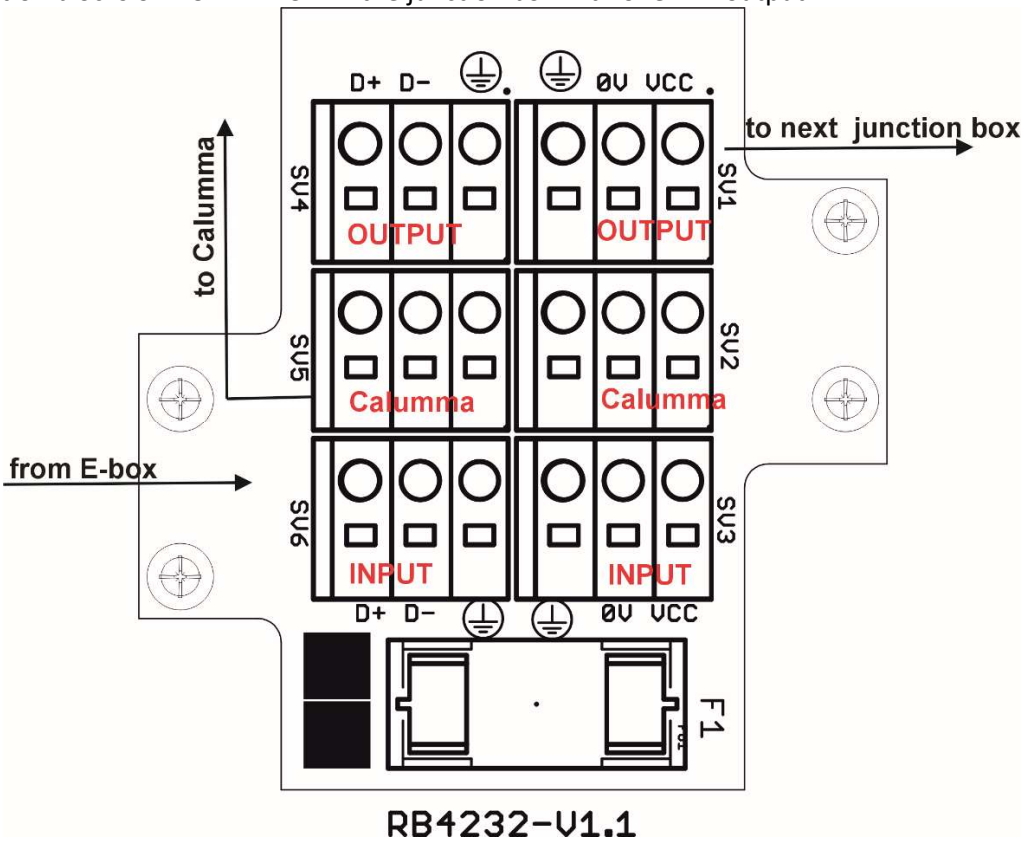
blocks (3) and two mounting holes (4).
2. Screw the junction box on a non-flammable flat surface.
3. Connect cables to terminal blocks.

Two cable glands M20 x 1.5 serves for a power/data cable. One (or four) cable gland M12 x 1.5 serves for Calumma Arts XS connection cable.
Remove the end cap from the cable gland before passing the cable.
We recommend to apply an adequate layer of the paste LOCTITE 5331 on the plastic holder of the cable gland before inserting it into the body of the gland.

Cable gland M20x1.5 and M12x1.5

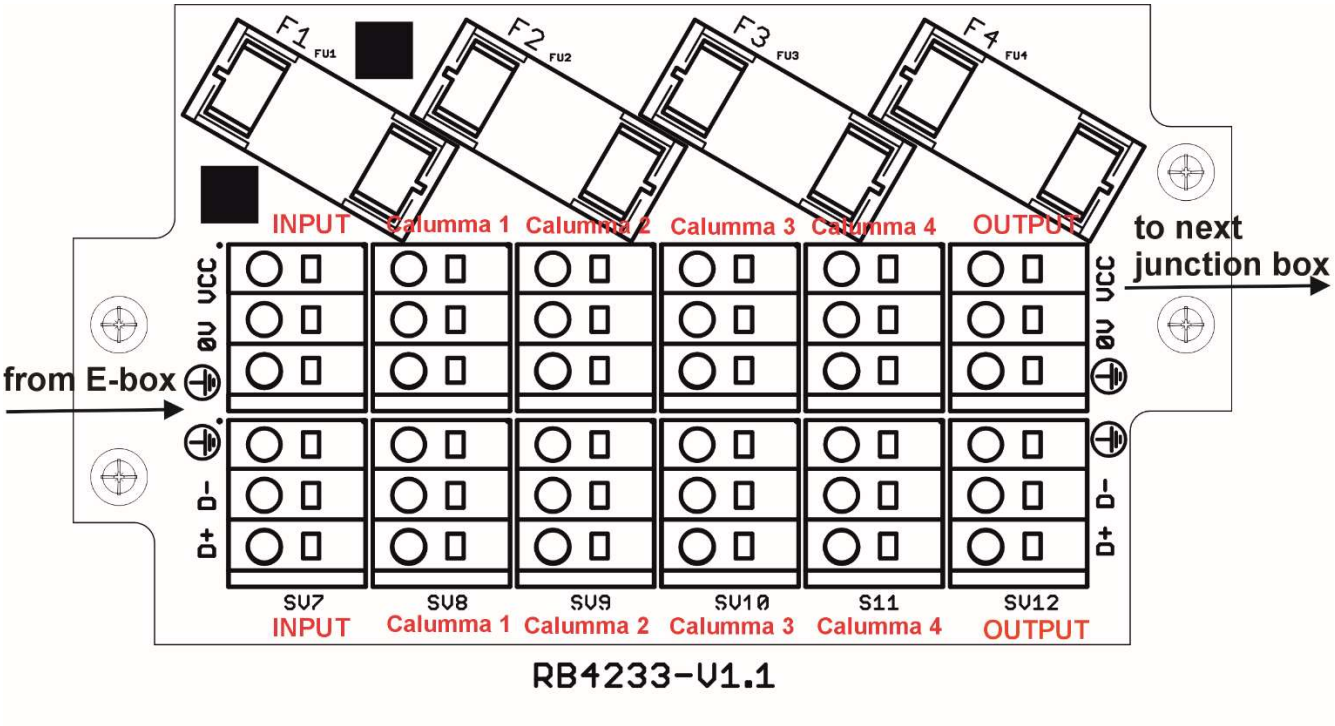


Wiring of connection blocks on PCB RB4232 in the junction box with one LED output.



Fuse F1: 2A/500V AC.

Wiring of connection blocks on PCB RB4233 in the junction box with four LED outputs.



Fuse F1-F4: 2A/500V AC.

Calumma XS connection
CE

Connector	Vcc	D+	D-	0V	⏚
Function	LEDs +	Data +	Data -	LEDs -	Not connected
Colour of wire	Red	Orange	White	Black	Yellow/green

Colours of wires apply to the 5-cored cable UL 20969 5x 20AWG (P/N 13053481)

US

Connector	Vcc	D+	D-	0V	⏚
Function	LEDs +	Data +	Data -	LEDs -	Ground
Colour of wire	Red	Orange	White	Black	Yellow/green

Colours of wires apply to the 5-cored cable UL 20969 5x 20AWG (P/N 13053481)

Connection between junction box and E-box Remote and among junction boxes
CE

Connector	Vcc	D+	D-	0V	⏚
Function	LEDs +	Data +	Data -	LEDs -	Not connected
Colour of wire	Red	Orange	White	Black	Yellow/green

Colours of wires apply to the 5-cored cable SJTW 5x 14AWG (P/N 1305 3336).

US

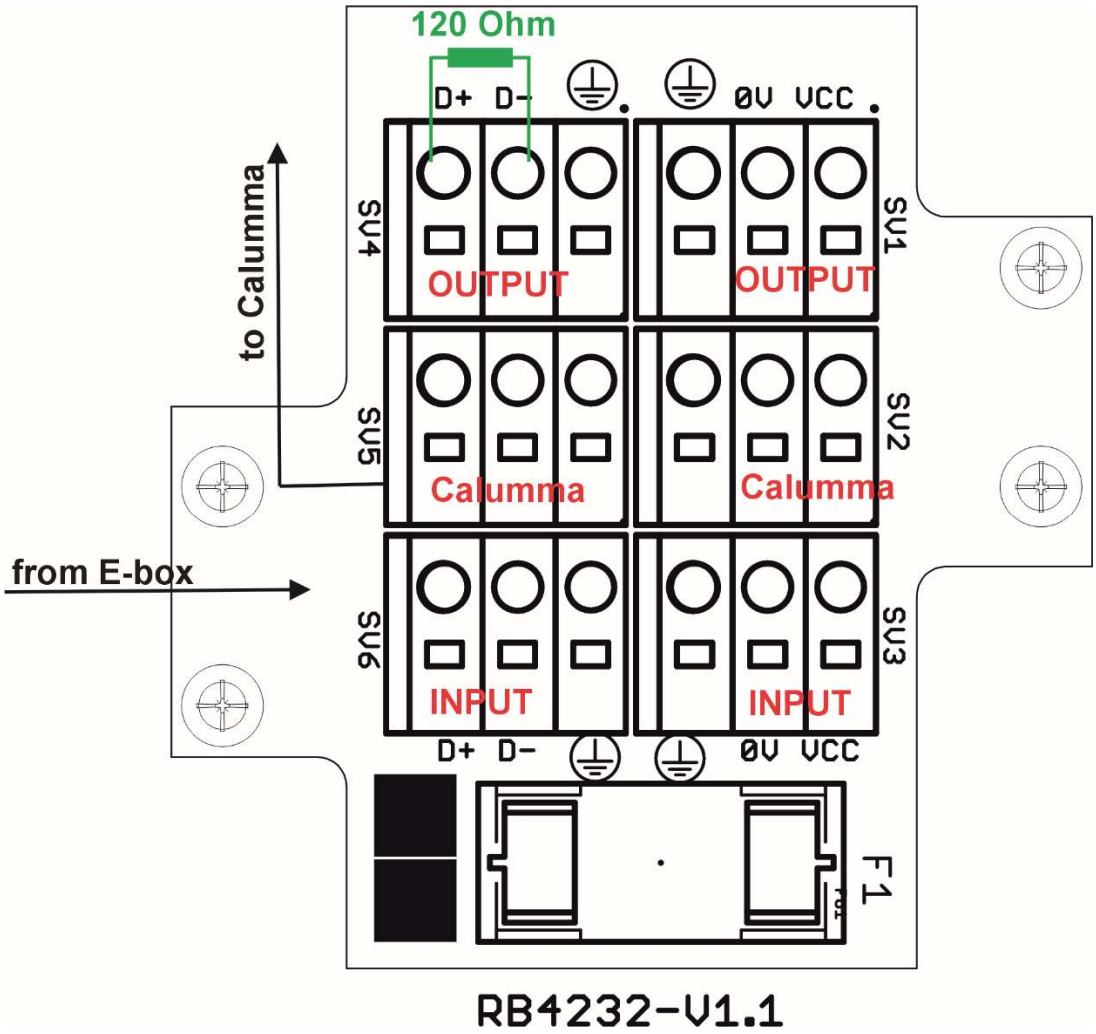
Connector	Vcc	D+	D-	0V	⏚
Function	LEDs +	Data +	Data -	LEDs -	Ground
Colour of wire	Red	Orange	White	Black	Yellow/green

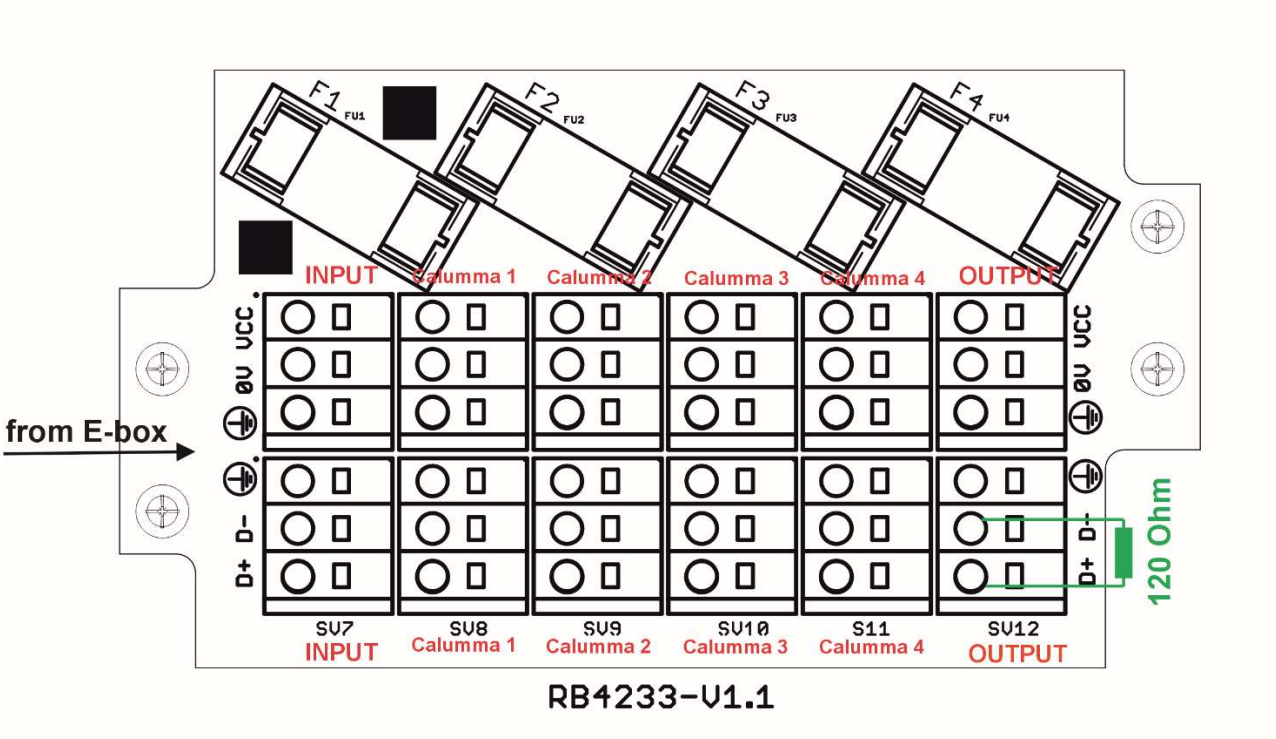
Colours of wires apply to the 5-cored cable SJTW 5x 14AWG (P/N 1305 3336).

NOTE: Each DMX line of Calummas Arts XS connected to the LED output of the E-box Remote has to be terminated at the last fixture.

EITHER connect a 120 Ohm resistor between terminals + and - in the junction box at last fixture,

Example:





OR terminate via RDM Set the 'Manufacturer PID' 'Terminator active' to '1' at last fixture by means of RDM Control Panel.



Using "Manufacturer PID" is needed if connection of Calummas XS is realized without junction boxes

Ensure **ONLY** the last fixture in the line is terminated using **ONE** of the above methods!

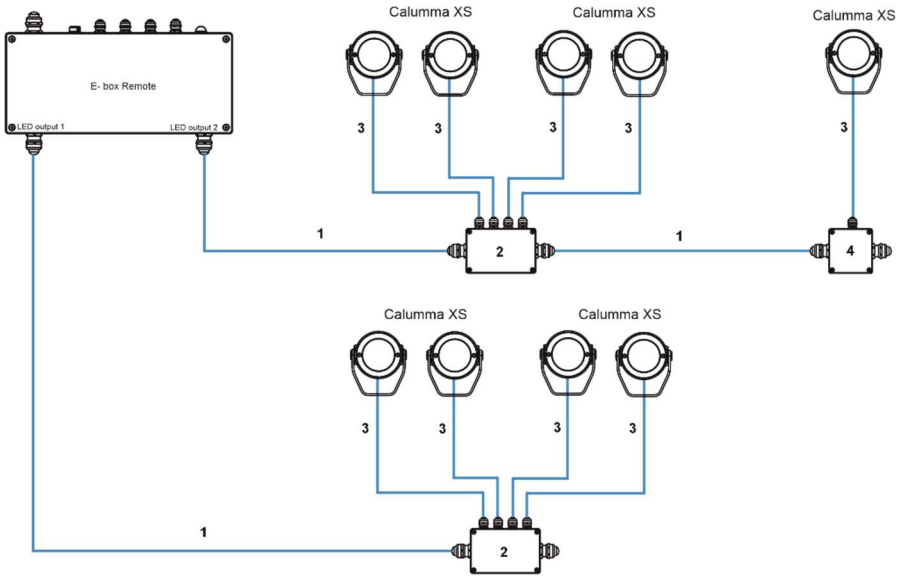
4. Screw the cover (2) back on the junction box.

4. Control and connection

The Calumma Arts XS modules should be connected to the E-Box Remote or E-Box Remote basic via junction boxes. The Calumma Arts XS modules have to be operated in Pass-Through mode.

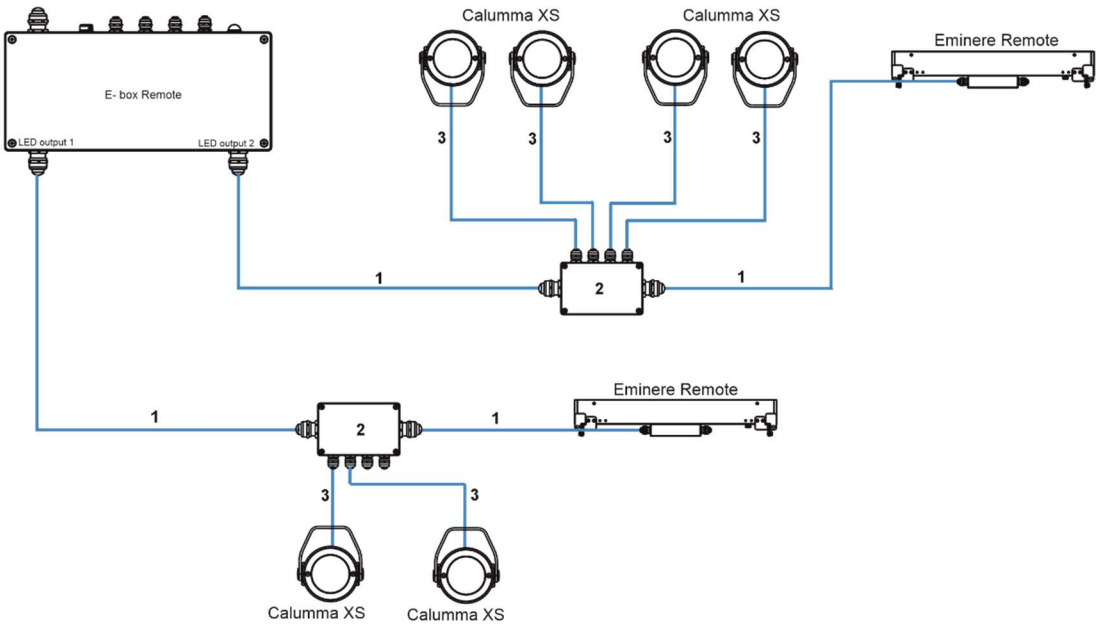
The E-box Remote has to be switched to the Pass-Through mode.

Example of connection with E-box Remote (CE)



1- SJTW 5x 14AWG (P/N 13053336)
2-Junction Box Remote (4x Output), Ral 9011 (P/N 10980716).
3-Cable UL 20969 5x20 AWG (13053481), black or on request Cable UL 20969 5x20 AWG (13053696), white.
4-Junction Box Remote (1x Output) - (P/N 10980715)

Note. Combination of Calummas Arts XS and Emineres Remote is also possible.
Example:



Calumma Arts XS connection

CE

Connector	**Vcc**	**D+**	**D-**	**0V**	⏚
Function	LEDs +	Data +	Data -	LEDs -	Not connected
Colour of wire	Red	Orange	White	Black	Yellow/green

Colours of wires apply to the 5-cored cable UL 20969 5x 20AWG (P/N 13053481)

US

Connector	**Vcc**	**D+**	**D-**	**0V**	⏚
Function	LEDs +	Data +	Data -	LEDs -	Ground
Colour of wire	Red	Orange	White	Black	Yellow/green

Colours of wires apply to the 5-cored cable UL 20969 5x 20AWG (P/N 13053481)

Connection between junction box and E-box Remote and among junction boxes

CE

Connector	**Vcc**	**D+**	**D-**	**0V**	⏚
Function	LEDs +	Data +	Data -	LEDs -	Not connected
Colour of wire	Red	Orange	White	Black	Yellow/green

Colours of wires apply to the 5-cored cable SJTW 5x 14AWG (P/N 1305 3336).

US

Connector	**Vcc**	**D+**	**D-**	**0V**	⏚
Function	LEDs +	Data +	Data -	LEDs -	Ground
Colour of wire	Red	Orange	White	Black	Yellow/green

Colours of wires apply to the 5-cored cable SJTW 5x 14AWG (P/N 1305 3336).

Behavior when DMX data is lost.

This depends on the type of connected E-box. If the E-Box Remote basic is connected, last valid DMX frame is held. If E-Box Remote is connected, there is a DMX Hold setting in the E-Box Remote (menu path: Personality →DMX Hold).

DMX Hold = On: last DMX frame is held,

DMX Hold = Off: E-box sends zero values to Calummas Arts.

From point of view of driver load (E-box Remote/E-box Remote Basic), max. number of Calummas Arts XS connected to one E-box Remote/E-box Remote Basic is 40 but Calummas Arts XS have to be operated in the Pass-through mode, it means that max. 32 Calummas Arts XS can be connected in one string.

Max. number of Calummas Arts XS connected to the E-box Remote/E-box Remote Basic also depends on cable length.

E-box Remote

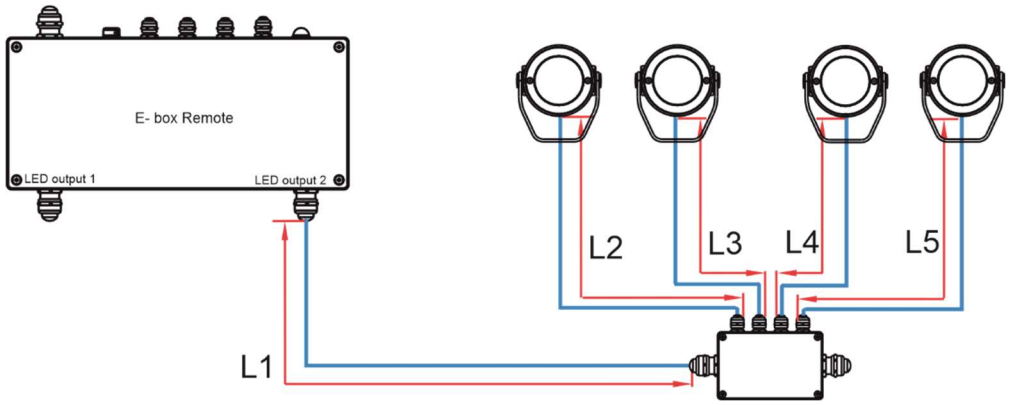
Cable length *	Max. number of Calummas Arts XS
50 m	25 per output, 40 in total
100 m	20 per output, 40 in total

E-box Remote Basic

Cable length *	Max. number of Calummas Arts XS
50 m	25
100 m	20

* Cable length is a total cable length on both LED outputs.

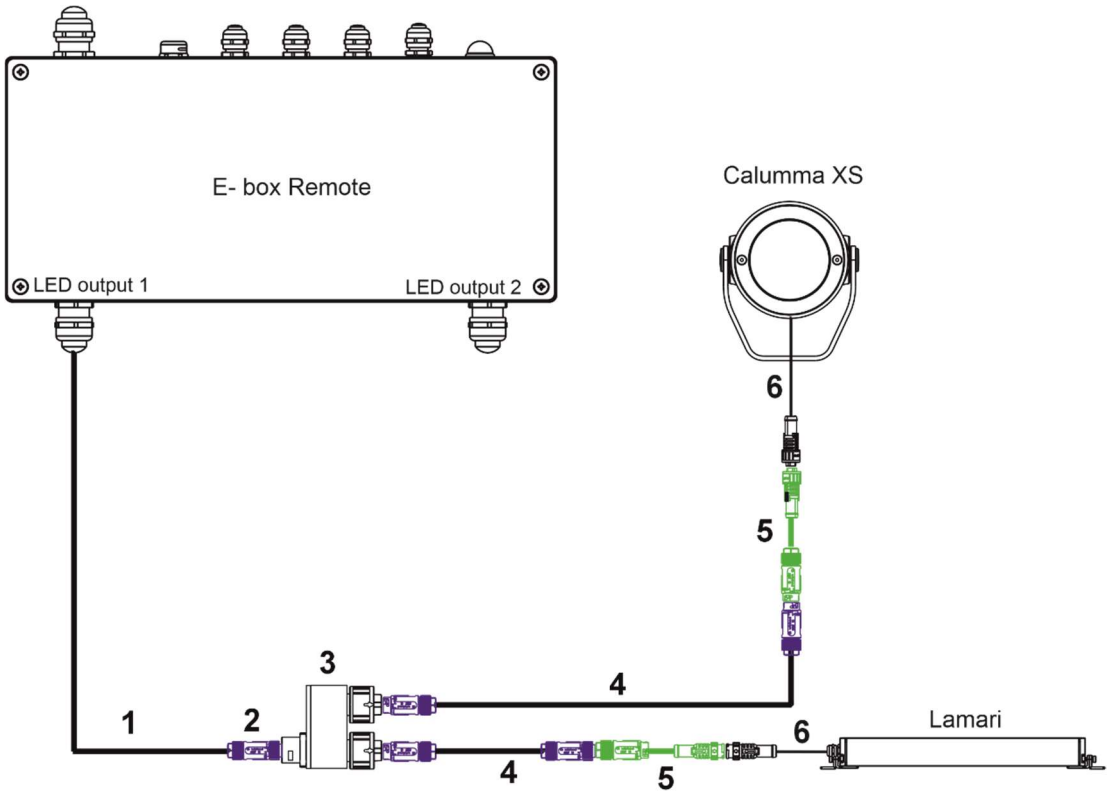
Example:



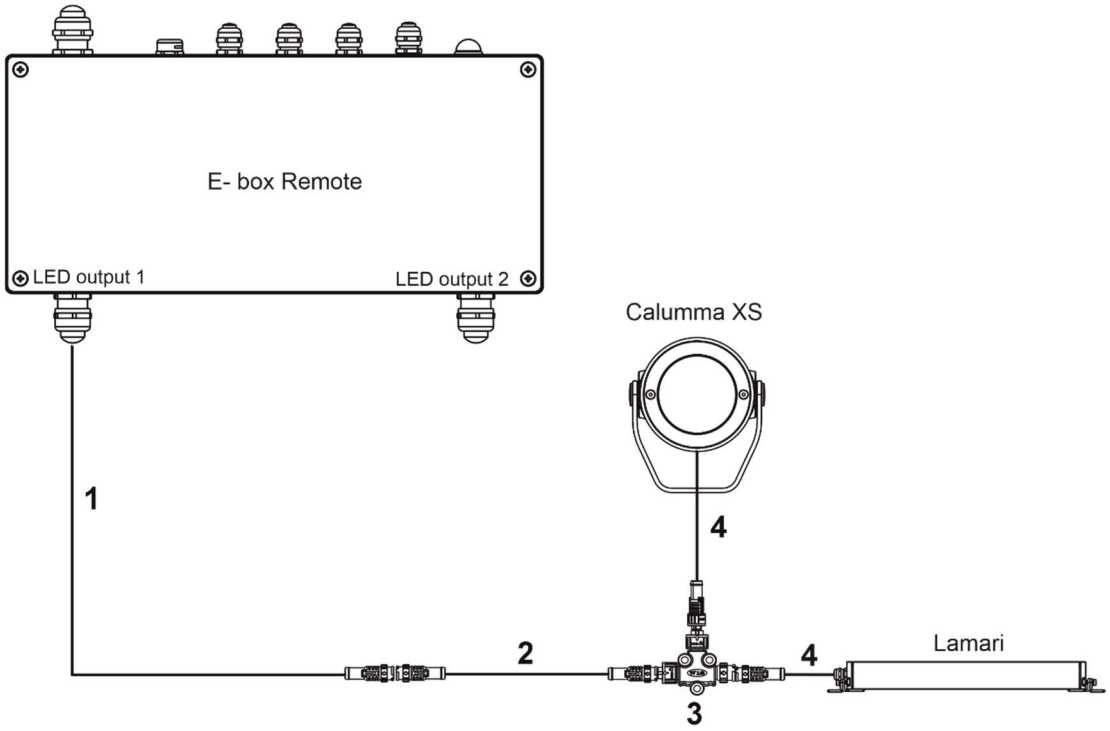
Total cable length=L1+L2+L3+L4+L5

4.1 Combination of Calumma Arts XS and Lamari by using T-connnectors (CE)

Examples of connection - E-box Remote with cable glands:

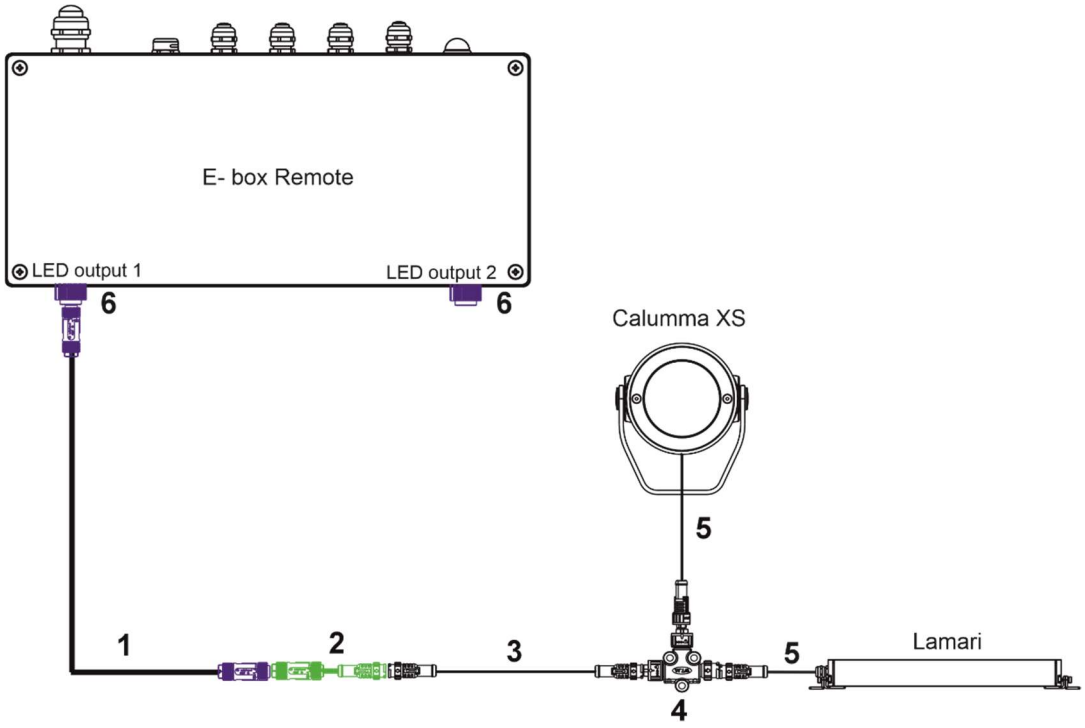


1- Cable SJTW 5x AWG 14 (P/N 13053336), Standard with bare-end, black or cable SJTW 5x AWG 14 (P/N 13053697), with bare-end, white (on request).
Leader cables with connectors:
Leader Cable CE/US FF conMID-05 L=1m (14 AWG), P/N 13054151
Leader Cable CE/US FF conMID-05 L=3m (14 AWG), P/N 13054152
Leader Cable CE/US FF conMID-05 L=5m (14 AWG), P/N 13054153
Leader Cable CE/US FF conMID-05 L=10m (14 AWG), P/N 13054154
2- Connector Wieland MID-05FF (P/N 13154127)
3- Connector T MID-05 MFF Wieland (1 x male, 2 x female) (P/N 13054130)
4- Cable SJTW 5x AWG 14 (P/N 13053336), Standard with bare-end, black or cable SJTW 5x AWG 14 (P/N 13053697), with bare-end, white (on request)
Jumper cables with connectors:
Jumper cable CE/US MID-05FF/MM L=0.5m (14 AWG), P/N 13054131
Jumper cable CE/US MID-05FF/MM L=1m (14 AWG), P/N 13054132
Jumper cable CE/US MID-05FF/MM L=3m (14 AWG), P/N 13054133
Jumper cable CE/US MID-05FF/MM L=5m (14 AWG), P/N 13054134
Jumper cable CE/US MID-05FF/MM L=5m (14 AWG), P/N 13054147
5- Cable reduction MID2MINI (P/N 13054149)
6- Cable (5x AWG20) 0.5m, with Connector MINI-05 MM (P/N 13053935-03)



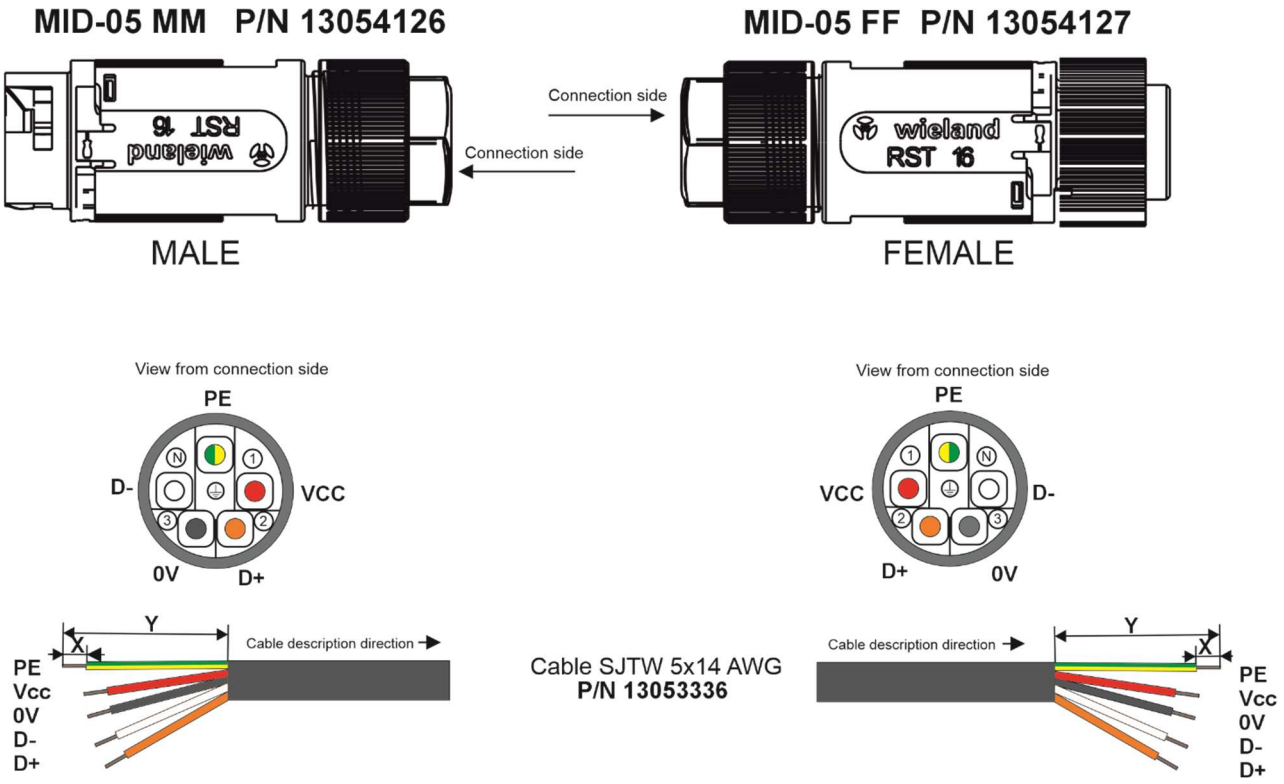
1- Leader CE Cable FF, 0.1 m, MINI-05 (P/N 13053978)
2- Jumper cable (5x AWG20) with Connectors FF-MM
   Jumper cables:
   - Jumper cable, L=0.5M AD-05BMMM + AD-05BFFM (P/N 13053937-02)
   - Jumper cable, L=1M AD-05BMMM + AD-05BFFM (P/N 13053938-02)
   - Jumper cable, L=3M AD-05BMMM + AD-05BFFM (P/N 13053939-02)
   - Jumper cable, L=5M AD-05BMMM + AD-05BFFM (P/N 13053940-02)
   - Jumper cable, L=10M AD-05BMMM + AD-05BFFM (P/N 13054148)
3- Connector T MINI -05 MFF (P/N 13053941-01)
4- Cable (5x AWG20) 0.5m, with Connector MINI-05 MM (P/N 13053935-03)

Example of connection - E-box Remote with panel connectors:



1- Cable SJTW 5x AWG14 (P/N 13053336), Standard with bare-end, black or cable SJTW 5x AWG14 (P/N 13053697), with bare-end, white (on request).
   Jumper cables with connectors:
   - Jumper cable CE/US MID-05FF/MM L=0.5m (14 AWG), P/N 13054131
   - Jumper cable CE/US MID-05FF/MM L=1m (14 AWG), P/N 13054132
   - Jumper cable CE/US MID-05FF/MM L=3m (14 AWG), P/N 13054133
   - Jumper cable CE/US MID-05FF/MM L=5m (14 AWG), P/N 13054134
   - Jumper cable CE/US MID-05FF/MM L=5m (14 AWG), P/N 13054147
2- Cable reduction MID2MINI (P/N 13054149)
3- Jumper cable (5x AWG20) with Connectors FF-MM
   Jumper cables:
   - Jumper cable, L=0.5M AD-05BMMM + AD-05BFFM (P/N 13053937-02)
   - Jumper cable, L=1M AD-05BMMM + AD-05BFFM (P/N 13053938-02)
   - Jumper cable, L=3M AD-05BMMM + AD-05BFFM (P/N 13053939-02)
   - Jumper cable, L=5M AD-05BMMM + AD-05BFFM (P/N 13053940-02)
   - Jumper cable, L=10M AD-05BMMM + AD-05BFFM (P/N 13054148)
4- Connector T MINI -05 MFF (P/N 13053941-01)
5- Cable (5x AWG20) 0.5m, with Connector MINI-05MM (P/N 13053935-03)
6- Panel connector MID-05 FF (14-22AWG), P/N 13054129

Wiring of jumper cables Jumper cable CE/US MID-05FF/MM



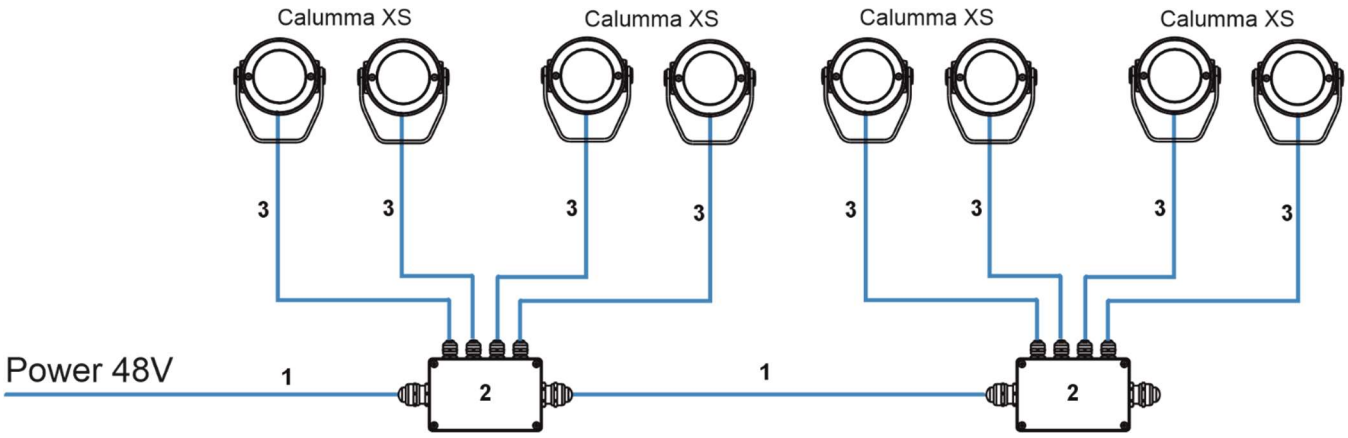
	PE	Vcc, 0V, D-, D+
Cable stripping length **Y** (mm)	30	25
Wire stripping length **X** (mm)	8	

IMPORTANT

Do not bend the cable near to the connector, minimum distance for bending is 50mm.



4.2 Power On/Off



1-Cable UL 20969 5x20 AWG (P/N 13053481), black or on request Cable UL 20969 5x20 AWG (13053696), white.
2-Junction Box Remote (4x Output), Ral 9011 (P/N 10980716).
3- Cable UL 20969 5x20 AWG (P/N 13053481), black or on request Cable UL 20969 5x20 AWG (13053696), white

Note: This type of connection is available for single chip (SC) versions only – pure white or single colour.
Non dimmable.
LEDs Input voltage: 48V

Calumma XS Power On/Off connection
CE

Connector	**Vcc**	**D+**	**D-**	**0V**	⏚
Function	LEDs +	Not connected	Not connected	LEDs -	Not connected
Colour of wire	Red	-	-	Black	Yellow/green

Colours of wires apply to the 5-cored cable UL 20969 5x 20AWG (P/N 13053481).

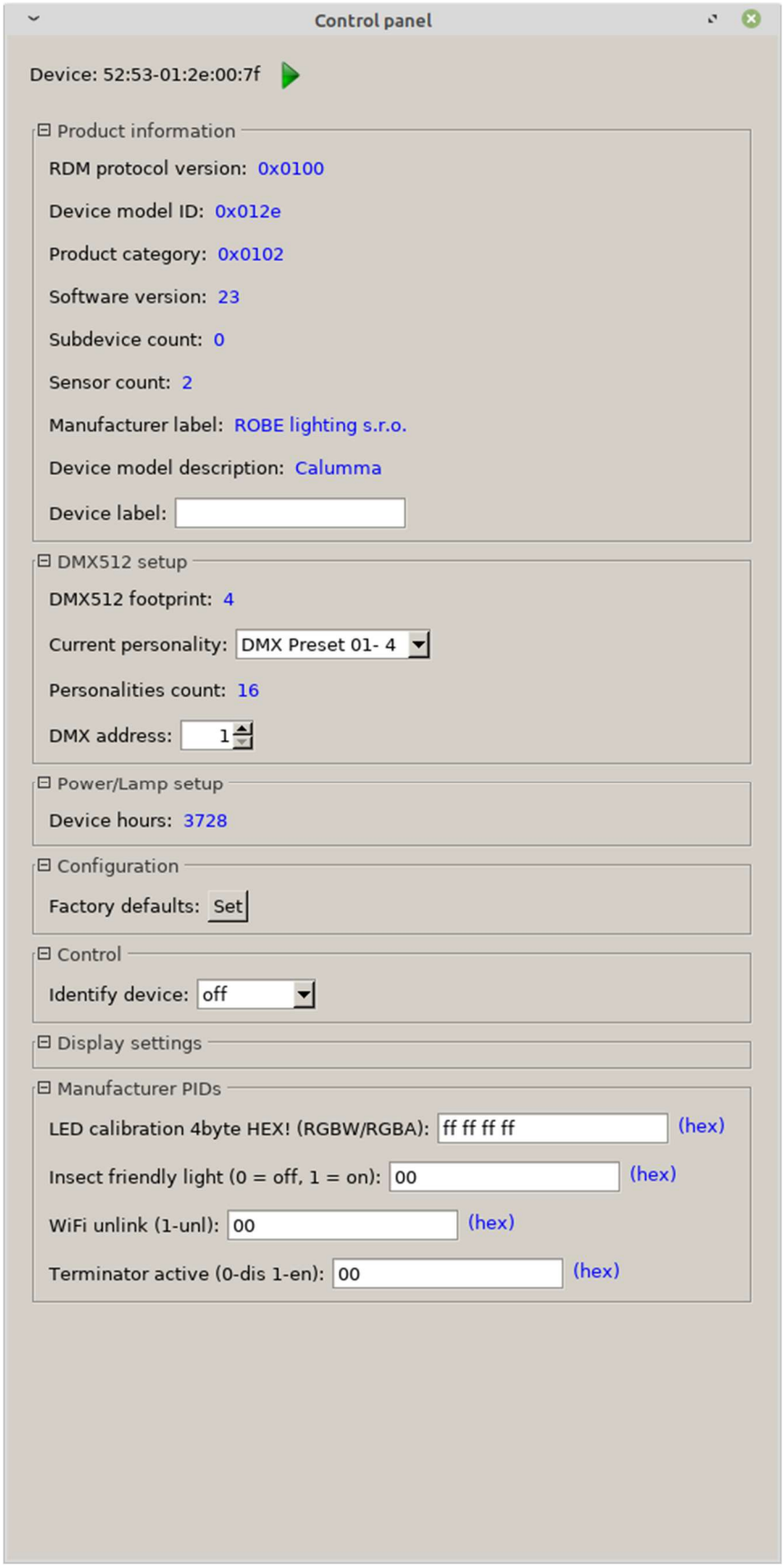
US

Connector	**Vcc**	**D+**	**D-**	**0V**	⏚
Function	LEDs +	Not connected	Not connected	LEDs -	Ground
Colour of wire	Red	-	-	Black	Yellow/green

Colours of wires apply to the 5-cored cable UL 20969 5x 20AWG (P/N 13053481).

4.3 Example of Control panel in RDM manager

The software RDM manager is available on the ROBE website (https://www.robe.cz/support), product RUNIT WTX.



Green arrow ▶ saves changes made in the Control panel to the Calumma Arts.

Manufacturer PIDs

LED calibration 4byte HEX! (RGBW/RGBA) - the item shows 4 bytes of calibration values for calibrated white colours of RGBW(RGBA) Calumma Arts.
E.g.



CTC channel has to be set to some calibrated white colour (21 DMX-1800K, 66 DMX-2700K, 91 DMX-3200K, 141 DMX-4200K, 211 DMX-5600K, 255 DMX-6500K) otherwise the item shows values "ff ff ff ff" (and calibration values cannot be saved to the Calumma Arts).
Warning!
Changing and saving values in this item will affect calibrated white colour(s) of the Calumma Arts .

Insect friendly light - the item effects RGBA Calumma Arts only. If the item is on, blue colour is not used in calibrated white colours. This modification of white lights results in a smaller attraction of white light for insects (mosquitos, moths..). The function is also available from DMX chart (channel Special Function, range 7-10 DMX).

WiFi unlink - the item is inactive for Calumma Arts XS.

Terminator active - the item allows you to terminate line of Calummas Arts XS at last Calumma Arts XS

5. Software update

Software update of Calumma Arts XS modules has to be done by means of the software ROBE Uploader running on PC.
The ROBE Uploader is a software for automatized software update of ROBE fixtures. The ROBE Uploader switches Calummas Arts XS to the update mode automatically.
Please see https://www.robe.cz/robe-uploader/ for more information.

Note: Calumma Arts XS modules in ON/OFF connection cannot be updated.

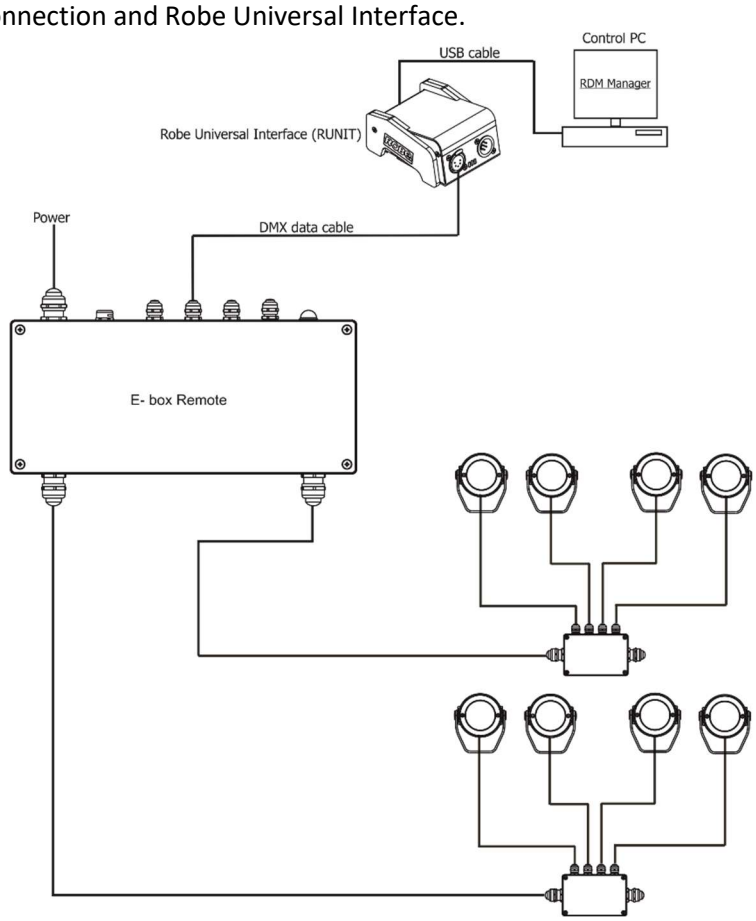
The Calummas Arts XS have to be operated in the Pass-Through mode only.
To update Calummas Arts XS including the E-box Remote.

1. Update connected LED modules by means of the file Calumma.lib in the ROBE Uploader.
2. Set the E-box Remote to the Standard mode and switch it off/on. Use the file EminereEbox.lib in the ROBE Uploader for software update of the E-box Remote.
3. After updating the E-box Remote, set the E-box Remote to the Pass-Through mode and switch it off/on.

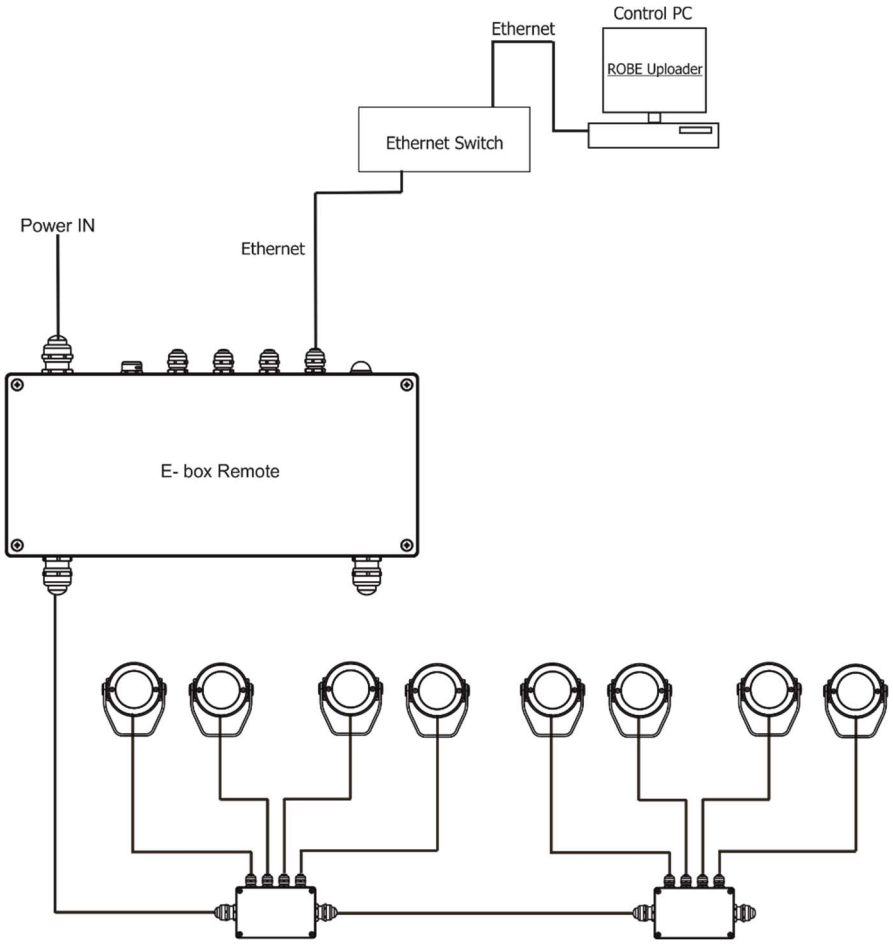
For more information about updating please see the E-box Remote user manual and E-box Remote Base user manual.

Examples of connection for software update

1. By means of DMX connection and Robe Universal Interface.



2. By means of the Ethernet connection



6. Technical specifications

Power supply

- Input voltage: 48 V
- Power consumption:
  Calumma Arts XS MC: 10 W
  Calumma Arts XS SC: 10 W

Optic

- Light source:
  Calumma Arts XS MC: High power multichip LED
  Calumma Arts XS SC: High power single chip LEDs
- Colour variants Calumma Arts XS MC: RGBW (W - 6500 K), RGBA, Pure White (W - 3000 K)
- Colour variants Calumma Arts XS SC: Pure WhiteW (W - 3000 K), Tunable white (2200-3000K)
- Beam Angle Calumma Arts XS MC: 9°, no optics
- Beam Angle Calumma Arts XS SC: 10°, no optics
- Projected Lumen Maintenance: L90B10 >90.000 hrs, Ta = 25°C / 77°F

Compatible drivers

- E-box Remote
- E-box Remote Basic
- E-box Remote Basic Mini

Mounting method

- Via yoke or yoke for pole adaptor
- Adjustability: -180°/+180°

Housing

- High pressure die-cast aluminium body
- Tempered glass

Cooling system

- Convection

Total heat dissipation

- Calumma Arts XS MC: 25 BTU/h (calculated)
- Calumma Arts XS SC: 25 BTU/h (calculated)

Protection factor

- CE: IP67 (fixture), IP65 (tube)
- US: Suitable for wet location

Impact rating

- IK10

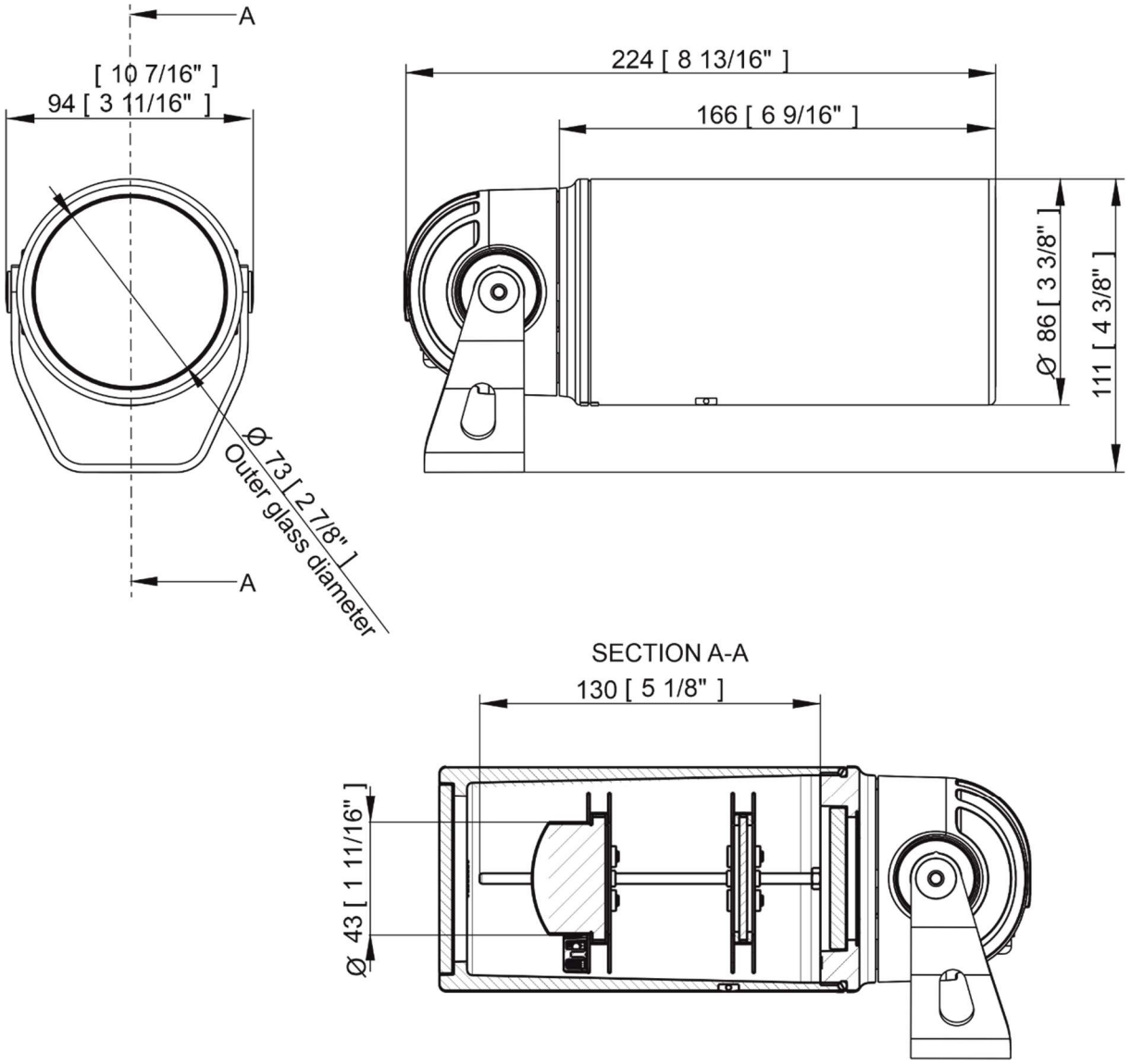
Operating ambient temperature range

- -20°C /+50°C (-4°F /+122°F)

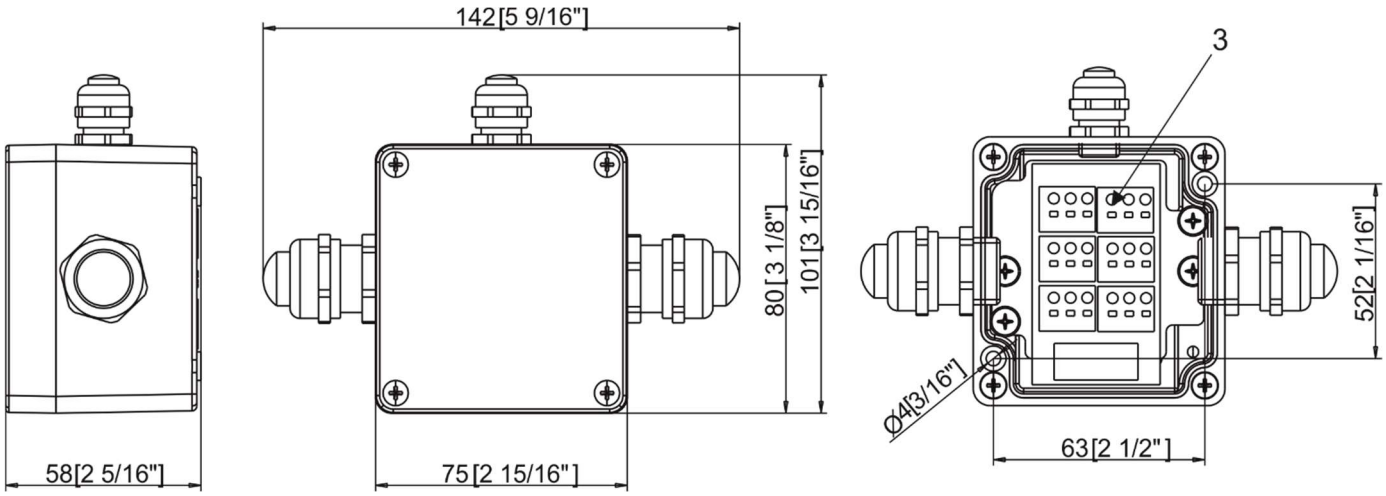
Weight

- Calumma Arts XS MC: 1.4 kg (3.1 lbs)
- Calumma Arts XS SC: 1.4 kg (3.1 lbs)

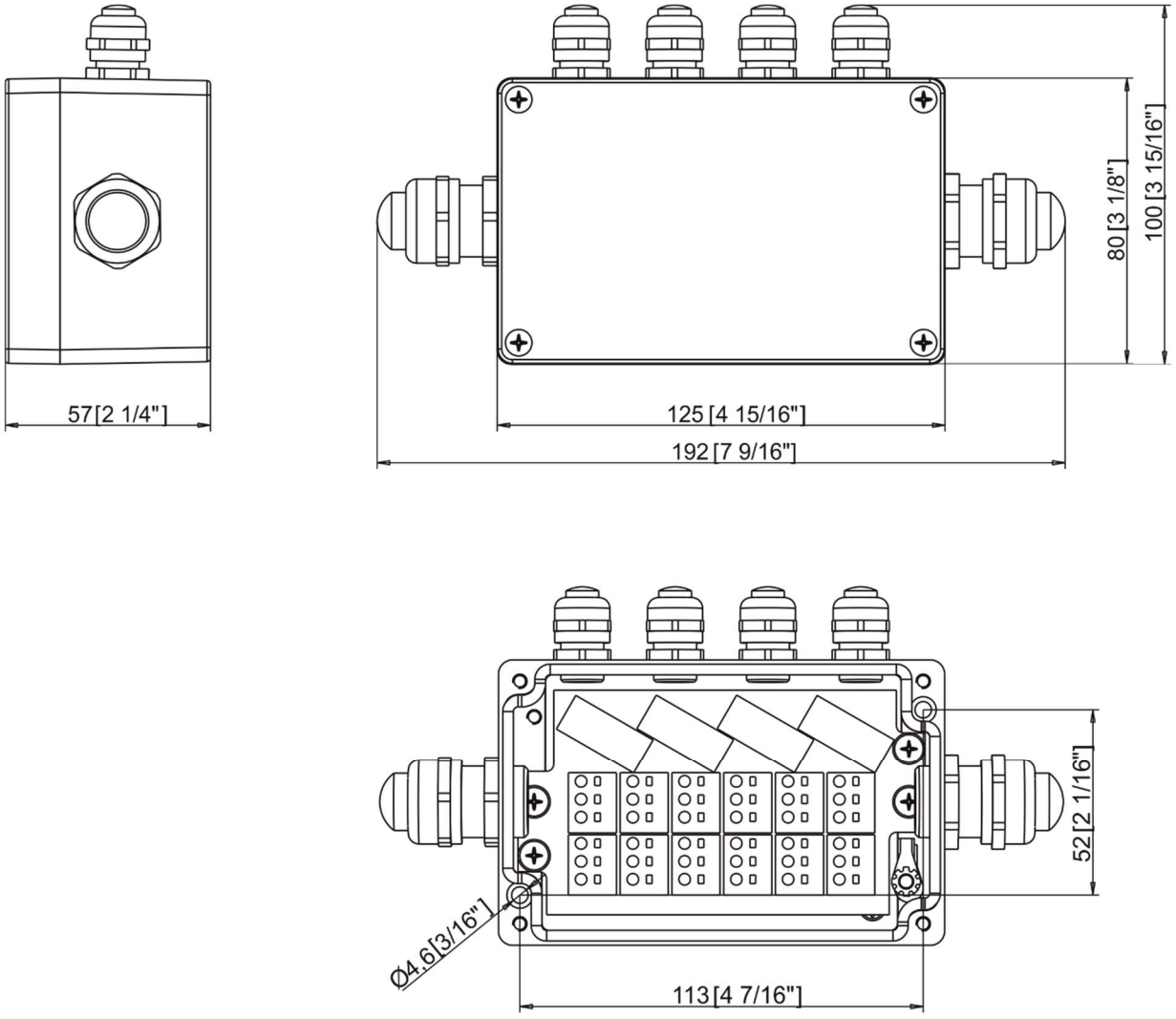
Dimensions (All dimensions in mm [inch])



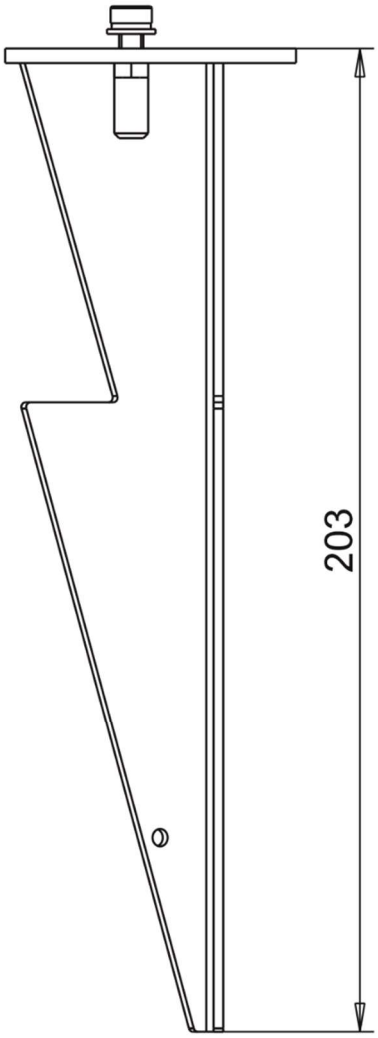
Junction box with one output

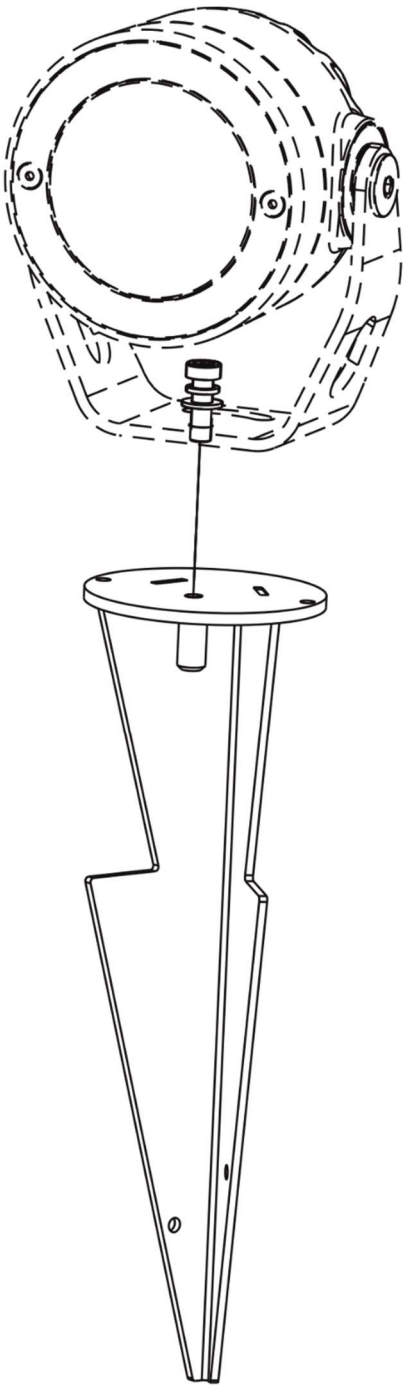


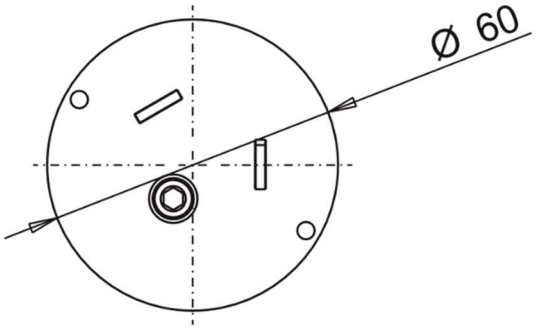
Junction box with four outputs



Land Spike







Included items

- 1 x Calumma Arts XS MC / Calumma Arts XS SC
- 1 x User manual

Optional accessories

Tenon Adaptor for Calumma XS
Pole Mount Bracket for Calumma XS
Junction Box for Calumma XS, 4x Output, Ral 9011 (P/N 10980716)
Junction Box for Calumma XS, 1x Output, Ral 9011 (P/N 10980715)
Land Spike for Calumma XS RAL6008 (P/N 10981031)

Jumper cable CE/US MID-05FF/MM L=0.5m (14 AWG), P/N 13054131
Jumper cable CE/US MID-05FF/MM L=1m (14 AWG), P/N 13054132
Jumper cable CE/US MID-05FF/MM L=3m (14 AWG), P/N 13054133
Jumper cable CE/US MID-05FF/MM L=5m (14 AWG), P/N 13054134
Jumper cable CE/US MID-05FF/MM L=5m (14 AWG), P/N 13054147

Leader Cable CE/US FF conMID-05 L=1m (14 AWG), P/N 13054151
Leader Cable CE/US FF conMID-05 L=3m (14 AWG), P/N 13054152
Leader Cable CE/US FF conMID-05 L=5m (14 AWG), P/N 13054153
Leader Cable CE/US FF conMID-05 L=10m (14 AWG), P/N 13054154

Cable SJTW 5x AWG 14 (P/N 13053336), Standard with bare-end, black
Connector Wieland MID-05FF (P/N 13154127)
Connector T MID-05 MFFT Wieland (1 x male, 2 x female) (P/N 13054130)
Cable SJTW 5x AWG 14 (P/N 13053697), with bare-end, white
Cable reduction MID2MINI (P/N 13054149)
Cable (5x AWG20) 0.5m, with Connector MINI-05 MM (P/N 13053935)

Box with Silicagel (P/N 99020048)

Twin Wall Cover Calumma XS, RAL 9011 (P/N 10980859)
Lenses for Calumma Arts XS:
PC Lens, RAL 9011 (P/N 10981464)
Fractal Lens, RAL 9011 (P/N 10981465)
ARC Lens, RAL 9011 (P/N 10981466)
Line Lens, RAL 9011 (P/N 10981467)

Textured Glass for Calumma Arts XS (RAL 9011):
Hammer Glass (P/N 10981586)
Diamond Glass (P/N 10981595)
Matrix Glass (P/N 10981589)
Cube Glass (P/N 10981478)
DewDrop Glass (P/N 10981475)
Florentine Glass (P/N 10981476)
Cathedral Glass (P/N 10981500)
Ripple Glass (P/N 10981477)
Stream Glass (P/N 10981535)
Aerolite Glass (P/N 10981474)
Flutes Glass (P/N 10981592)
Listral Glass (P/N 10981566)

7. Cleaning and maintenance

DANGER !
Disconnect from the mains before starting any maintenance or cleaning work

Rinse off loose dirt with low pressure water spray. Wash the housing with a soft brush or sponge and a mild, non-abrasive washing detergent. Rinse it.
Maintenance and service operations are only to be carried out by a qualified person.
Should you need any spare parts, please use ROBE OEM parts.

7.1 Disposing of the product

To preserve the environment please dispose or recycle this product at the end of its life according to the local regulations and codes.

8. ChangeLog

This section summarizes changes in the user manual.

Version of manual	Date of issue	Description of changes

Specifications are subject to change without notice.
November 2, 2026
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DMX protocol for Calumma - All sizes - MC and SC

Version: 1.3 (16 modes in total)

Mode/Channels in all							
1	*2*	*3*	*4*	*5*	*6*	*7*	*8-10*
4	3	12	3	6	8	15	Reserved

Mode 1- RGBW(A)-8bit, Mode 2- RGB 8-bit, Mode 3- full RGBW(A)
Mode 4- White-full control, Mode 5- Reduced RGBW(A)
Mode 6- Reduced RGBW(A)+white control, Mode 7- Full control
Mode 7-Full RGBW(A)+virt. Colour wheel

RGBW/RGBA/RGB modes

Mode/channels							DMX Value	Function	Type of control
1	*2*	*3*	*4*	*5*	*6*	*7*			
-	-	-	-	-	-	1		**Special functions**	
							0	No function	step
								To activate following functions , stop in DMX value for at least 3 sec.	
							1-2	Save current DMX values to fixture as initial DMX values.	step
							3-4	Show saved initial DMX values	step
							5-6	Run factory demo sequences at switching fixture on (without DMX)	step
							7-8	Insect friendly light On (RGBA version only)	step
							9-10	Insect friendly light Off (RGBA version only)	step
							11-255	Reserved	
1	1	1	-	1	1	2		**Red**	
							0 - 255	Red LEDs saturation control (0-100%)	proportional
-	-	2	-	-	-	3		**Red Fine**	
							0 - 255	Red LEDs saturation control fine	proportional
2	2	3	-	2	2	4		**Green**	
							0 - 255	Green LEDs saturation control (0-100%)	proportional
-	-	4	-	-	-	5		**Green Fine**	
							0 - 255	Green LEDs saturation control fine	proportional
3	3	5	-	3	3	6		**Blue**	
							0 - 255	Blue LEDs saturation control (0-100%)	proportional
-	-	6	-	-	-	7		**Blue Fine**	
							0 - 255	Blue LEDs saturation control fine	proportional
4	-	7	-	4	4	8		**White (Amber)**	
							0 - 255	White LEDs saturation control (0-100%)	proportional
-	-	8	-	-	-	9		**White (Amber) Fine**	
							0 - 255	White LEDs saturation control fine	proportional
-	-	9	1	-	5	10		**Green correction**	
							0	Uncorrected white	step
							1-127	Minus green - uncorrected white	proportional
							128	Uncorrected white (128=default)	step
							129-255	Uncorrected white - Plus green	proportional
-	-	10	2	-	6	11		**Colour temperature correction (CTC)**	
							0	No function	step
							1 - 10	Tungsten dimming 2700 K	step
							11 - 20	Tungsten dimming 3200 K	step
							21-255	Colour temperature changing from 1800 K --> 6500 K	proportional
								(21-1800K, 66-2700K, 91-3200K,141-4200K, 211-5600K, 255-6500K)	
-	-	-	-	-	-	12		**Virtual Colour Wheel**	
							0	No function	step

Mode/channels							DMX Value	Function	Type of control
1	*2*	*3*	*4*	*5*	*6*	*7*			
							1-2	White 1800 K	step
							3-4	White 2700 K	step
							5-6	White 3200 K	step
							7-8	White 4200 K	step
							9-10	White 5600 K	step
							11-12	White 6500 K	step
							13	Blue (Blue=full, Red+Green+White/Amber=0)	step
							14-23	Red=0, Green->up,Blue =full, White/Amber=0	proportional
							24	Cyan (Red=0, Green=full, Blue =full, White/Amber=0)	step
							25-34	Red=0, Green=full, Blue->down, White/Amber=0	proportional
							35	Green (Red=0, Green=full, Blue =0, White/Amber=0)	step
							36-45	Red->up, Green=full, Blue=0, White/Amber=0	proportional
							46	Yellow (Red=full, Green=full, Blue=0, White/Amber=0)	step
							47-56	Red=full, Green->down, Blue=0, White/Amber=0	proportional
							57	Red(Red=full, Green=0, Blue=0, White/Amber=0)	step
							58-67	Red=full, Green=0, Blue->up, White/Amber=0	proportional
							68	Magenta (Red=full, Green=0, Blue=full, White/Amber=0)	step
							69-78	Red -> down, Green=0, Blue=full, White/Amber=0	proportional
							79	Blue (Red=0, Green=0, Blue=full, White/Amber=0)	step
								Transition effects	
							80-87	Rainbow effect (with fade time) from slow-> fast	proportional
							88-95	Rainbow effect (without fade time) from slow-> fast	proportional
							96-103	Full dynamic white (1800K->6500K->1800K) (with fade time) from slow-> fast	proportional
							104-111	Full dynamic white (1800K->6500K->1800K) (without fade time) from slow-> fast	proportional
							112-119	Dynamic warm white (1800K-3000K-1800K) (with fade time) from slow-> fast	proportional
							120-127	Dynamic warm white (1800K-3000K-1800K) (without fade time) from slow-> fast	proportional
							128-135	Rainbow effect + full dynamic white (with fade time) from slow-> fast	proportional
							136-143	Rainbow effect + full dynamic white (without fade time) from slow-> fast	proportional
							144-151	Blue/Green effect (with fade time) from slow-> fast	proportional
							152-159	Blue/Green effect (without fade time) from slow-> fast	proportional
							160-167	Red/Blue effect (with fade time) from slow-> fast	proportional
							168-175	Red/Blue effect (without fade time) from slow-> fast	proportional
							176-183	Green/Red effect (with fade time) from slow-> fast	proportional
							184-191	Green/Red effect (without fade time) from slow-> fast	proportional
							192-199	Blue/4000K effect (with fade time) from slow-> fast	proportional
							200-207	Blue/4000K effect (without fade time) from slow-> fast	proportional
							208-215	Green/4000K effect (with fade time) from slow-> fast	proportional
							216-223	Green/4000K effect (without fade time) from slow-> fast	proportional
							224-231	Red/4000K effect (with fade time) from slow-> fast	proportional
							232-239	Red/4000K effect (without fade time) from slow-> fast	proportional
						13		**Shutter/Strobe**	
							0-31	Shutter closed	step
							32-63	Shutter open	step
							64-95	Strobe-effect from slow to fast	proportional

Mode/channels							DMX Value	Function	Type of control
1	*2*	*3*	*4*	*5*	*6*	*7*			
							96-127	Shutter open	step
							128-143	Opening pulse in sequences from slow to fast	proportional
							144-159	Closing pulse in sequences from fast to slow	proportional
							160-191	Shutter open	step
							192-223	Random strobe-effect from slow to fast	proportional
							224-255	Shutter open	step
-	-	**11**	**3**	**5**	**7**	**14**		**Dimmer**	
							0 - 255	Light intensity coarse (0-100%)	proportional
-	-	**12**	-	**6**	**8**	**15**		**Dimmer Fine**	
							0 - 255	Light intensity fine	proportional

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All Specifications subject to change without notice

DMX protocol for Calumma - All sizes - MC and SC

Version: 1.3 (16 modes in total)

Mode/Channels in all				TW Modes: Mode 11- White selection + Dimmer, Mode 12- WW + CW
11	*12*	*13*	*14-16*	PW Mode: Mode 13- Dimmer
3	4	2	Reserved	

TW and PW modes

Mode/channels			DMX Value	Function	Type of control
11	*12*	*13*			
1	-	-		**White colour selection**	
			0 - 255	White from 2700 K - 6500 K	proportional
-	**1**	-		**Warm White**	
			0 - 255	Warm White LEDs saturation control (0-100%)	proportional
-	**2**	-		**Cool White**	
			0 - 255	Cool White LEDs saturation control (0-100%)	proportional
2	**3**	**1**		**Dimmer**	
			0 - 255	Light intensity coarse (0 - 100%)	proportional
3	**4**	**2**		**Dimmer Fine**	
			0 - 255	Light intensity fine	proportional

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