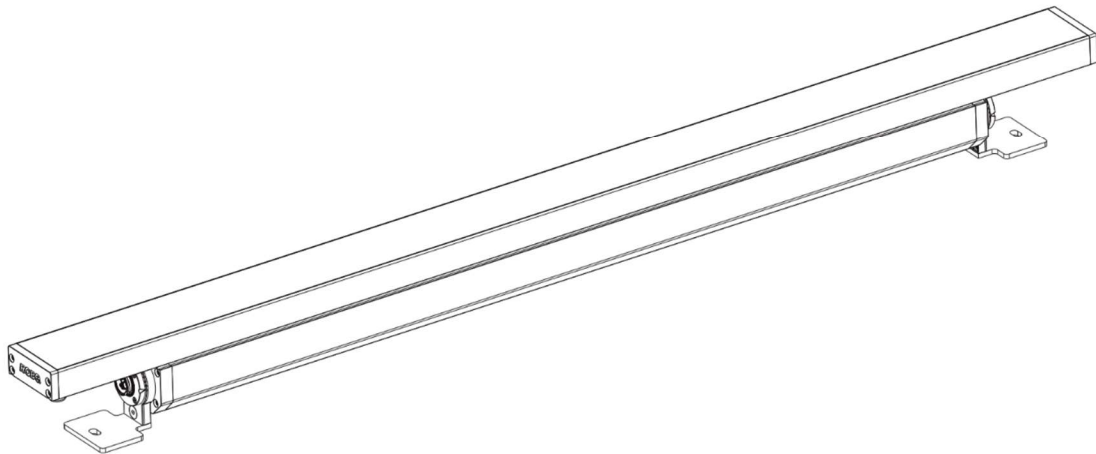


Eminere UV 2 Eminere UV 4



Preliminary version

Table of contents

1. Safety instructions	3
2. Fixture exterior view	5
3. Installation	5
3.1 Mounting the fixture	5
3.2 Connection to mains	5
3.3 The Booster box	9
3.4 The Booster box installation	11
3.5 Jumper cable assembling	13
4. Technical specifications	16
5. Cleaning and maintenance	20
5.1 Disposing of the product	20
6. ChangeLog	20

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE POWERING OR INSTALLING YOUR Eminere UV !
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

**THIS LUMINAIRE IS DESIGNED WITH UV LEDS AND MUST BE INSTALLED IN COMPLIANCE WITH COMPETENT TECHNICAL DIRECTIONS TO PREVENT THE USER'S EYE AND BARE SKIN FROM EXPOSURE TO HARMFUL UV RADIATION.
CE LUMINAIRE EST CONÇU POUR ÊTRE UTILISÉ AVEC DES LED UV ET DOIT ÊTRE INSTALLÉ EN STRICTE CONFORMITÉ AVEC LES INSTRUCTIONS AFIN D'ÉVITER QUE LES YEUX OU LA PEAU L'UTILISATEUR NE SOIENT EXPOSÉS AUX EFFETS NÉFASTES DES RAYONS UV.**

⚠ CAUTION ⚠ ATTENTION ⚠
RISK GROUP 3 RISQUE GROUPE 3

UV light
Do not look directly at light.
Wear proper eye and skin protection.

CAUTION: Radiation exposure may cause blindness and cancer of skin!

Maximum exposure time (minutes) – beam angle 120°		
Distance from UV source	Eminere UV 2	Eminere UV 4
0.8m (2.6ft)	18	-
1m (3.3ft)	28.2	-
1.5m (4.9ft)	63.4	31.7
2m (6.6ft)	112.7	56.4
3m (9.8ft)	253.6	126.8
4m (13ft)	450.8	225.4
5m (16.4ft)	704.4	352.2
6m (19.7ft)	1014.4	507.2
7m (23ft)	1380.7	690.3
8m (26ft)	1803.3	901.7
9m (29.5ft)	2282.3	1141.2
10m (32.8ft)	2817.7	1408.8

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

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 cleaning, servicing or installing.

Make sure the data/power cable is not damaged by sharp edges. Check the fixture and the power cord from time to time.

Do not install the unit near an open flame.

During operation the housing becomes hot.

Refer servicing to qualified service personnel.

This fixture falls under protection class I. Therefore this fixture has to be connected to a mains socket outlet with a protective earthing connection.

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.

Operate the fixture only after having familiarized yourself with its functions. Do not permit operation by persons not qualified to operate the fixture. Most damages are the result of unprofessional operation!

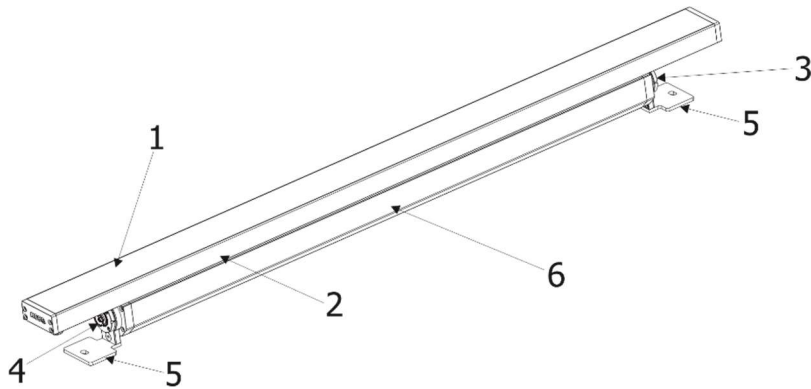
Immunity of the equipment is designed for electromagnetic environments E1, E2, E3 according to the standard EN55103-2 ed.2 Electromagnetic compatibility. Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 2: Immunity.
The product (covers and cables) must not be exposed to a high frequency electromagnetic field higher than 3V/m. The installation company should check levels of possible interferences above the tested levels E1,E2,E3 given by this standard (e.g. transmitters in surrounding area) before installing the equipment.
Emission of the equipment complies with the standard EN55032 Electromagnetic compatibility of multimedia equipment – Emission Requirements according to class B.

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.

2. Fixture exterior view

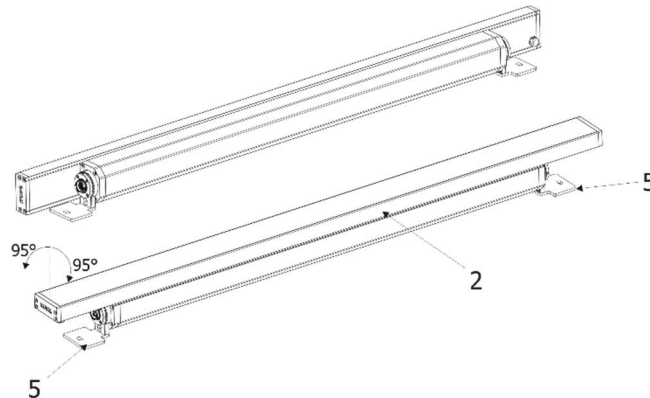


1. Transparent glass cover
2. LED module
3. Output connector
4. Input connector
5. Mounting brackets
6. Aluminium base

3. Installation

3.1 Mounting the fixture

The Eminere UV can be arranged in any orientation on a flat, non-flammable surface by means of two mounting brackets (5), the LED module (2) can be tilted ($+95^\circ/-95^\circ$) to get access to mounting brackets (5).



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

3.2 Connection to mains

***The unit must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.
This device falls under class one and must be grounded!***

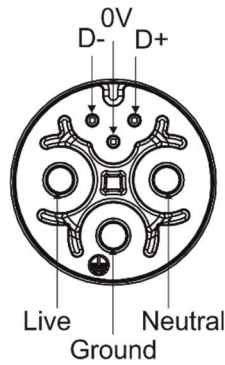
Eminere UV

The Eminere UV is equipped with auto-switching power supply that automatically adjusts to any 50/60Hz AC power source from 120-277 Volts.

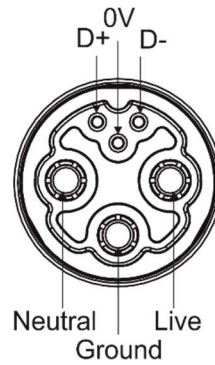
The following wiring of the input/output connectors applies to the fixtures marked **X on their labels only. Older versions of the Eminere UVs have swapped D- and D+ and do not have mark **X** on their labels.**



Input - panel connector
(front view)



Output - panel connector
(front view)



Fixture's Amphenol connectors are dust and water protected according to IP 67 by mating with related Amphenol connectors.

They cannot stay disconnected outdoor.

The output panel connector at last fixture in the Eminere UV chain has to always be covered with the water-tight cap to keep declared IP rating.

The Eminere UV modules should be connected to the E-box which allows power supply of the Eminere UV modules and their control.

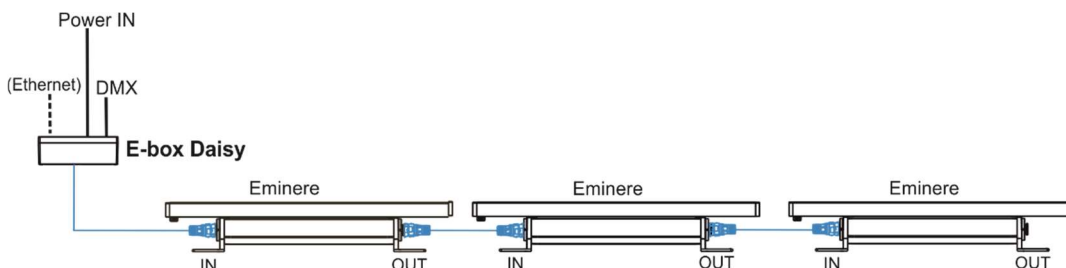
Do not connect (disconnect) Emineres UV to the E-box or Booster box and each other when they are under voltage!

When you change any setting of the E-box, disconnect the E-box from power and connect it to power again to activate changes which you have made.

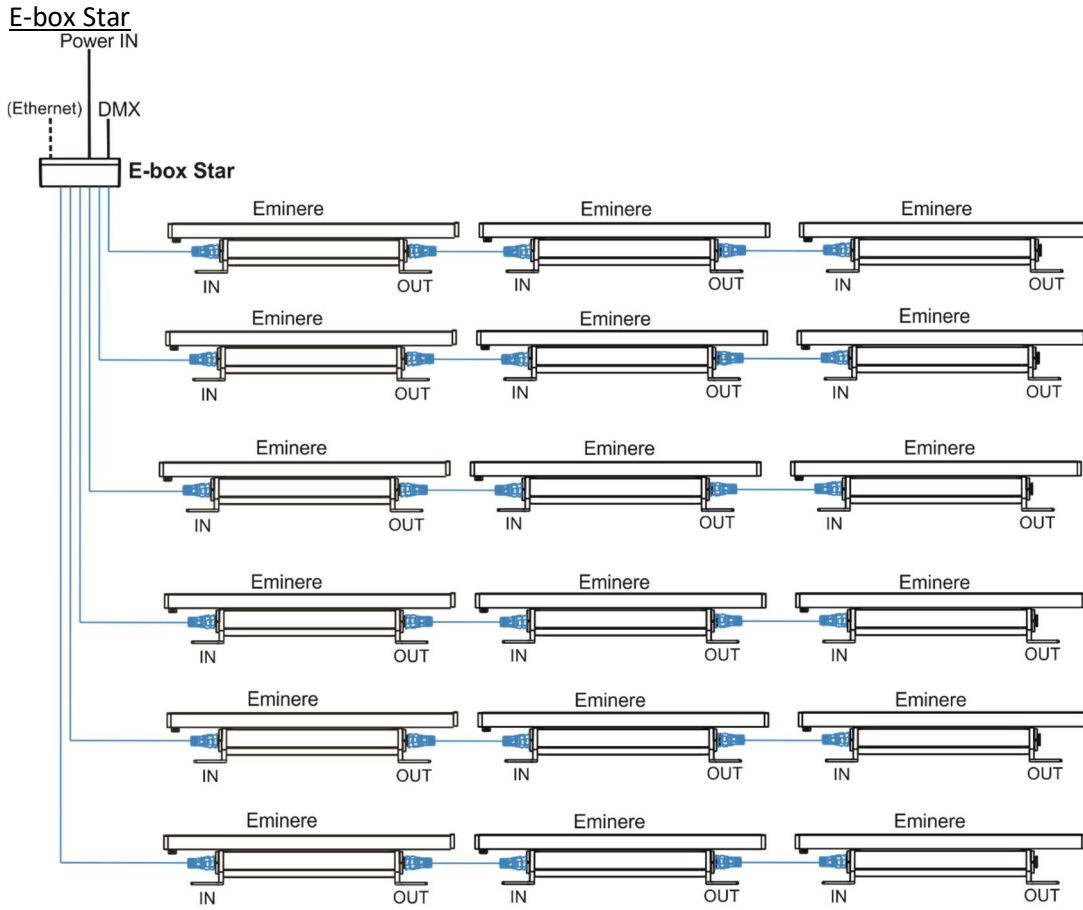
Examples of connection for various versions of the E-box.

Please read the E-box user manual for more information about its setting and connection to Eminere UV modules. Needed cables are stated in the chapter "Technical information".

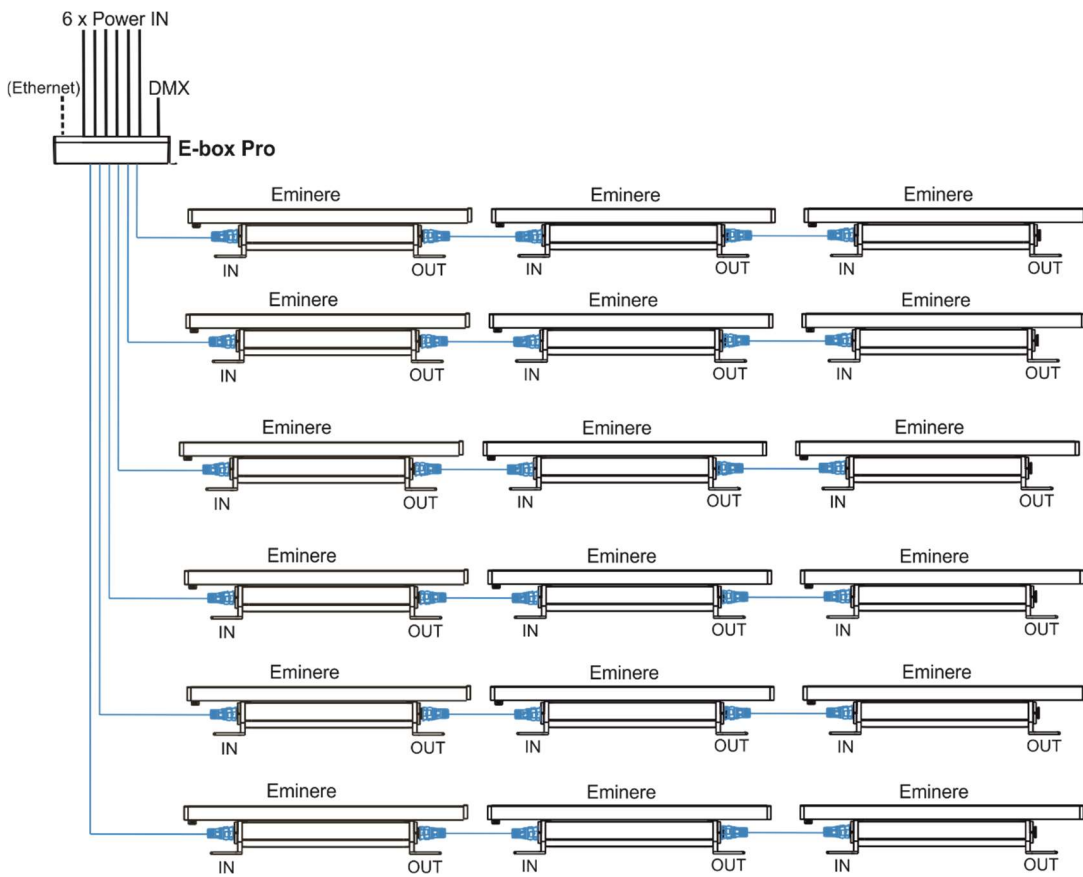
E-box Daisy



Eminere UV

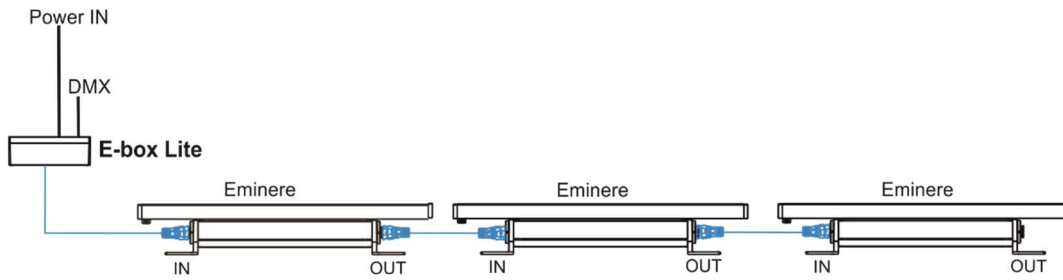


E-box Pro



Eminere UV

E-box Lite



Number of connected Emineres UV to one E-box output depends on a cable length, power voltage, type of Eminere UV and E-box and operation mode.

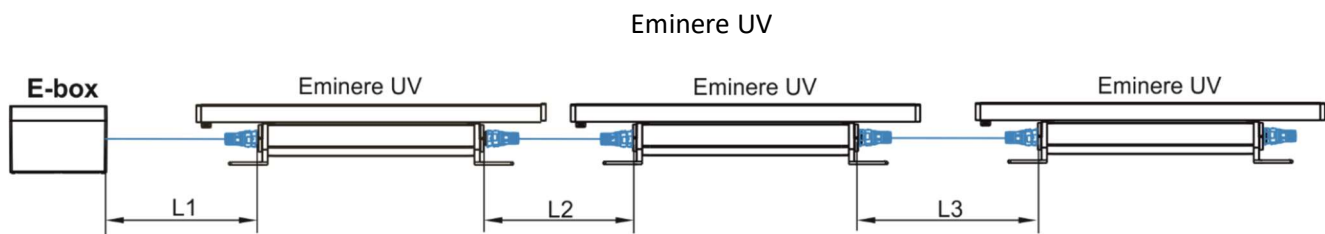
The tables below state max. theoretical number of Emineres UV connected to the one LED output of the E-box without Booster boxes. The following tables apply for the Standard mode of E-boxes.

EMINERE UV 2	Voltage			
	120V	190V	230V	277V
Cable length *				
10 m	41	64	78	94
20 m	41	64	78	94
30 m	28	64	78	94
50 m	17	43	63	91
70 m	12	31	45	65
100 m	9	21	31	46
200 m	4	11	16	23

EMINERE UV 4	Voltage			
	120V	190V	230V	277V
Cable length *				
10 m	21	33	40	48
20 m	21	33	40	48
30 m	15	33	40	48
50 m	9	22	32	47
70 m	6	16	23	38
100 m	4	11	16	23
200 m	2	5	8	12

* Cable length is a total cable length between E-box and last connected Eminere UV.

Example: Total cable length=L1+L2+L3



Notice for the E-box Star: The tables above state max. total number of Emineres UV connected to 6 LED outputs of the E-box Star (or max. number of Emineres UV connected to one output if the rest of outputs is not connected). The E-box Star has only one power input!

3.3 The Booster box

To compensate a voltage drop in large installation, the Booster boxes have to be connected in the chain of Emineres UV at every LED output of the E-box.

The following tables give numbers of Emineres UV after which the Booster box has to be installed in the chain of Emineres UV (at one LED output of the E-box). The following tables apply for the Standard mode of E-boxes.

EMINERE UV 2	Max. number of Emineres UV 2= 94			
	Voltage			
Cable length	120V	190V	230V	277V
10 m	41,82	64	78	-
20 m	41,82	64	78	-
30 m	28,56,84	64	78	-
50 m	17,34,51,68,85	43,86	63	91
70 m	12,24,36,48,60,72,84	31,62,93	45,90	65
100 m	9,18,27,36,45,54,60,72,81,90	21,42,63,84	31,62,93	46,92
200 m	4,8,12,16,20,24,28,32,36,40,44,48,52,56,60,64,68,72,76,80,84,88,92	11,22,33,44,55,66,77,88	16,32,48,64,80	23,46,69,92

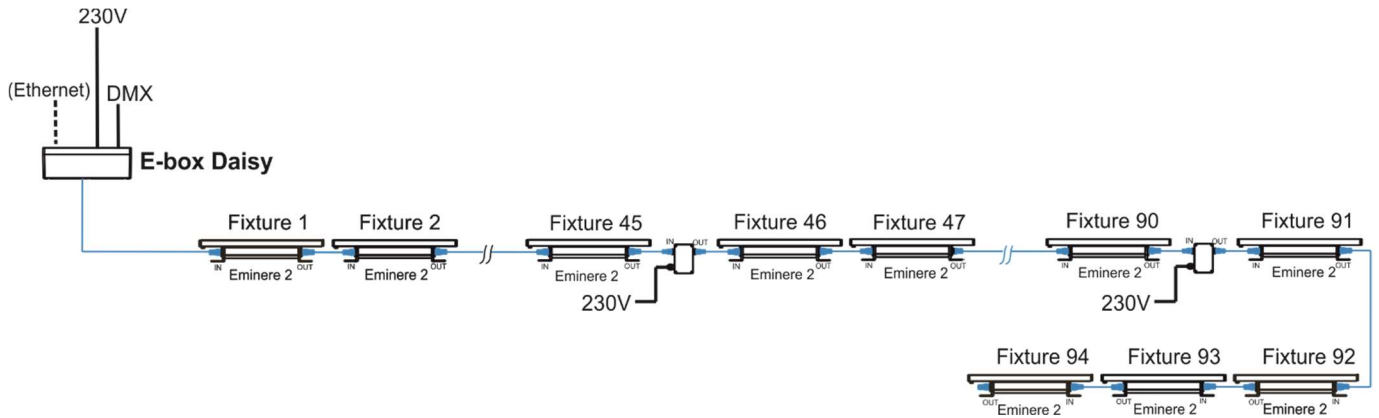
EMINERE UV 4	Max. number of Emineres UV 4= 48			
	Voltage			
Cable length	120V	190V	230V	277V
10 m	21,42	33	40	-
20 m	21,42	33	40	-
30 m	15,30,45	33	40	-
50 m	9,18,27,36,45	22,44	32	47
70 m	6,12,18,24,30,36,42	16,32	23,46	38

Eminere UV

100 m	4,8,12,16,20,24,28,32,36, 40,44	11,22,33,44	16,32	23,46
200 m	2,4,6,8,10,12,14,16,18,20, 22,24,26,28,30,32,34,36,38 40,42,44,46	5,10,15,20,25,30 35,40,45	8,16,24,32,40	12,24,36

Example: E-box Daisy, Power supply= 230V, Cable length=70m, fixture=Eminere UV 2

The Booster box has to be connected after every 45th Eminere UV 2 (fixture 45 and fixture 90) from 94 fixtures.

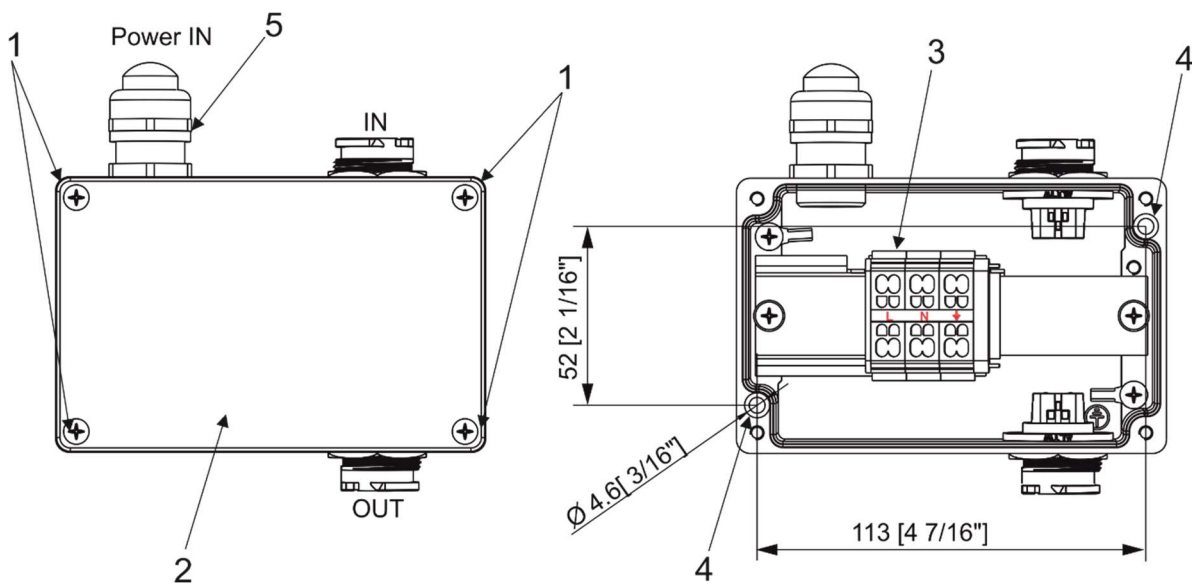


3.4 The Booster box installation

ALWAYS DISCONNECT THE EMINERES UV FROM MAINS BEFORE CONNECTING/DISCONNECTING THE BOOSTER BOX.

The Booster box falls under protection class I. Therefore, every Booster box has to be connected to a mains socket outlet with a protective earthing connection.

1. Unscrew the four screws (1) from the cover (2) on the Booster box to get access to the terminal block (3) and two mounting holes of diameter of 4.6 mm (4).
2. Screw the Booster box on a non-flammable flat surface and connect cables.



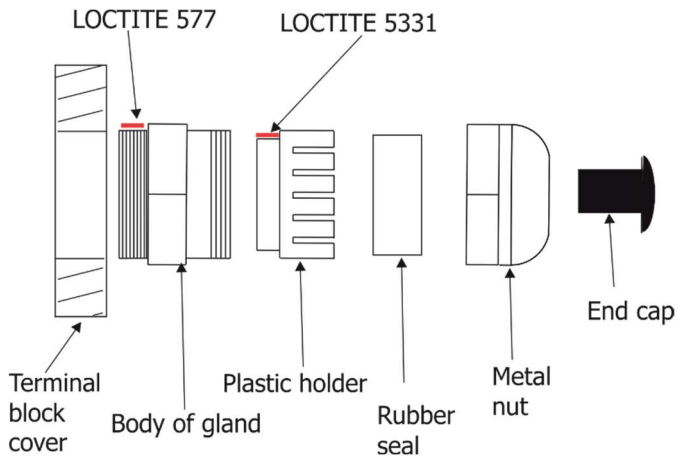
The Cable gland M20x1.5 for Power IN (5) is intended for a cable of a diameter of 7-13mm. Remove the end cap from the cable gland before passing the cable.

Power connection

	L	N	⏏ (earth)
Core (EU)	Braun	Blue	Green/yellow
Core (US)	Black	White	Green

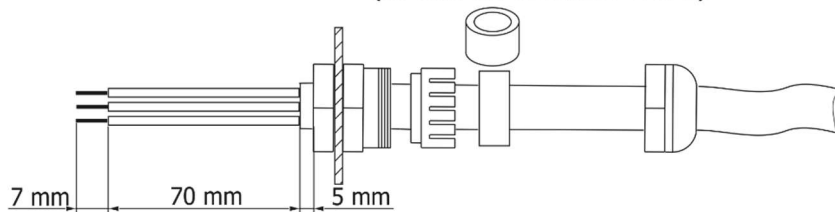
We recommend to apply an adequate layer of the paste LOCTITE 5331 on the plastic holder of the cable gland before inserting it into the body of the gland and an adequate layer of the paste LOCTITE 577 on the thread of the gland body.

Cable gland M20 MS:

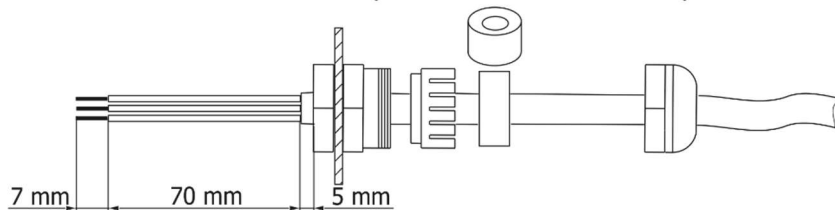


The cable gland M20 MS with a standard seal serves for a cable of diameter of 6-12mm, for smaller diameter of cable (4-8mm) you have to remove the original seal from the cable gland M20 and use the enclosed reducing seal instead of it. The reducing seal for diameter of cable 4-8mm (P/N 13051388) is enclosed in the Booster box.

1 x standard seal - part of cable gland M20 MS
(for diameter of cable: 6-12mm)



1 x reducing seal (P/N 13051388) - enclosed, standard seal
has to be removed before installing this seal.
(for diameter of cable: 4-8mm)

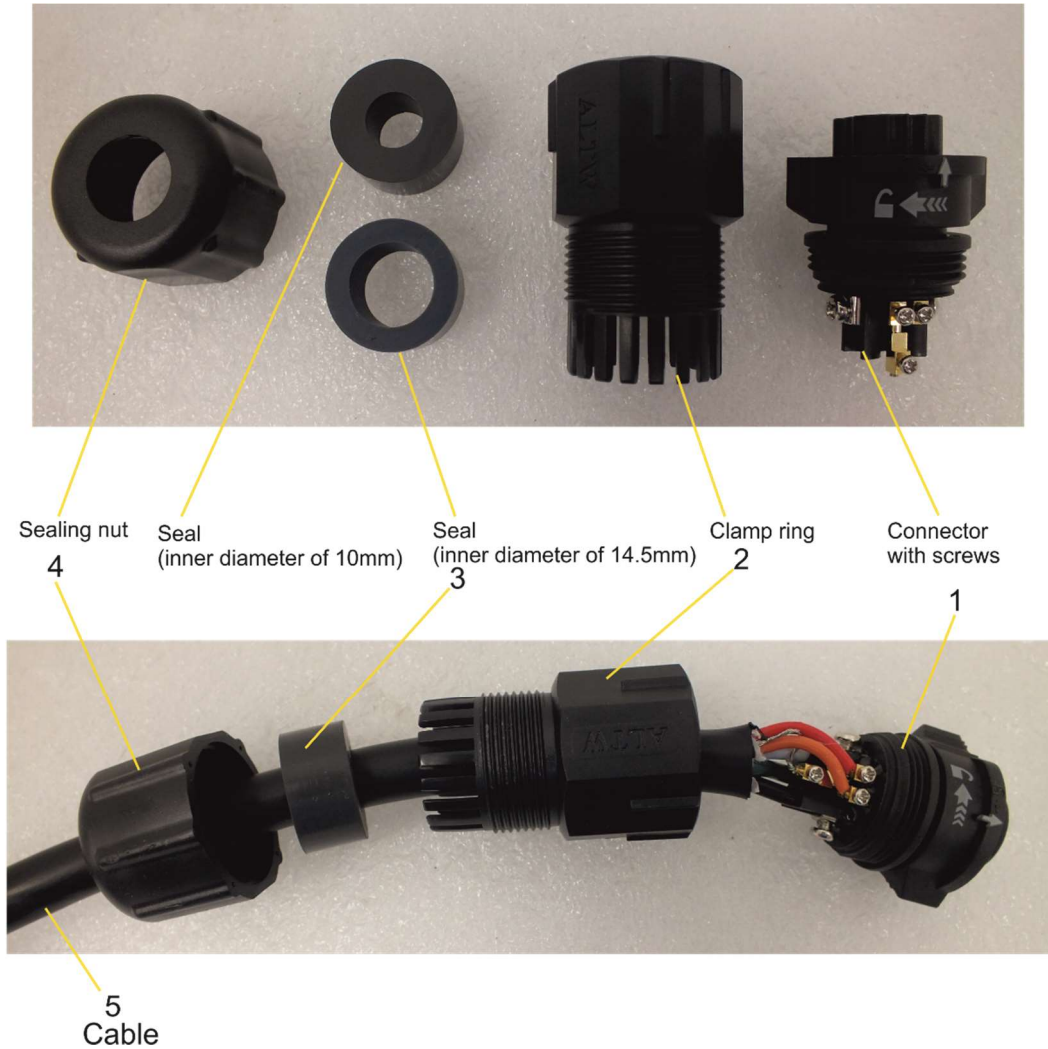


3. Screw the cover (2) back on the Booster box.

3.5 Jumper cable assembling

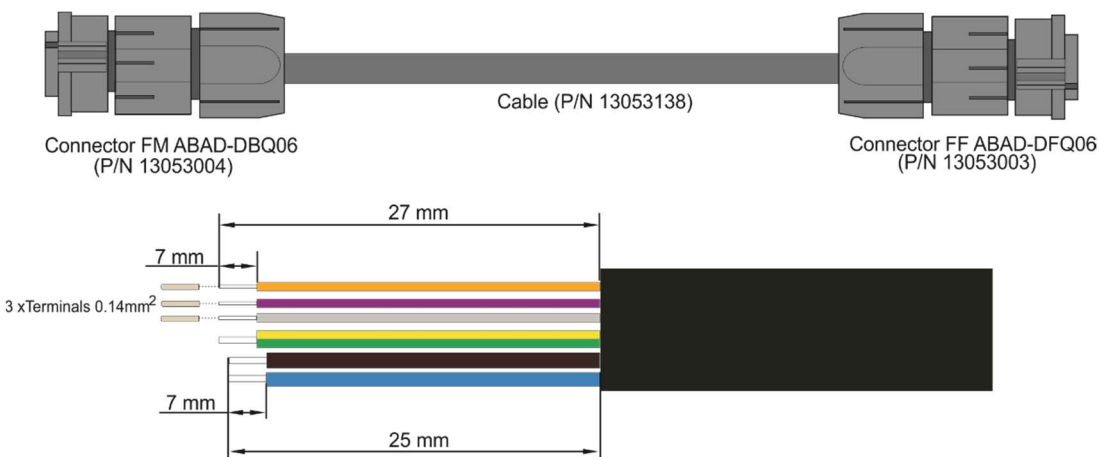
1. Dismantle the connector and slide its parts onto the cable (6).
Use the seal with inner diameter of 14.5 mm for the Anolis cable (P/N 13053138 or P/N 13053139).
The seal with inner diameter of 14.5 mm serves for cable of diameter 10-14.5mm.
The seal with inner diameter of 10 mm serves for cable of diameter 8-10mm.

Parts of the connector



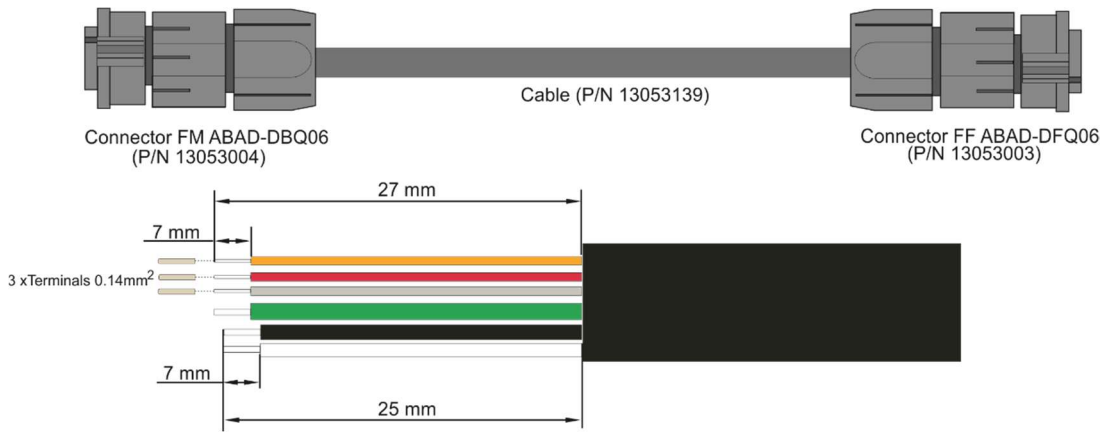
2. Remove insulation from the cable (5) and from individual wires and fasten three terminals on data wires.

CE version



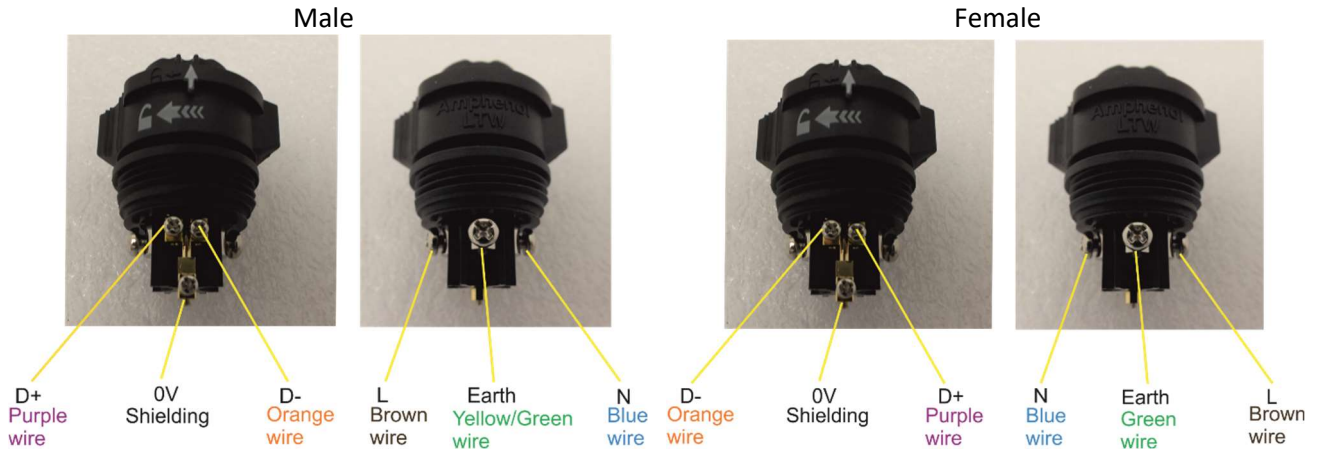
Eminere UV

US version

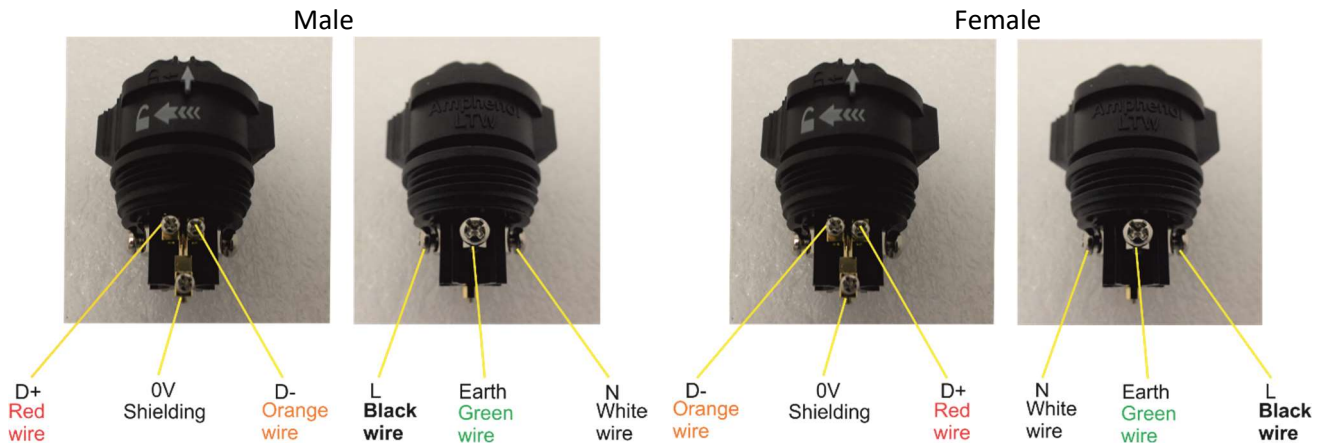


3. Put parts of the connector on the cable (5) and connect wires to the connector. First connect power wires (L,N, Earth) and after that data wires (D+, D-, 0V). Avoid excessive torsion of data wires!

CE version



US version



4. After connecting wires to the connector, tighten the three data wires (D+,D-, 0V) by means of the cable binder (6).



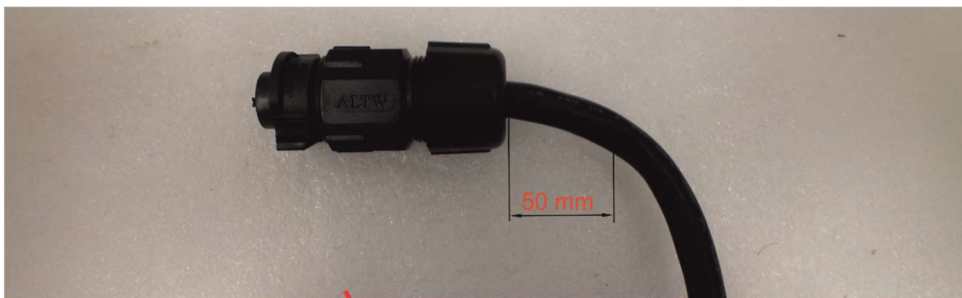
6
Cable binder

5. Screw the clamp ring (2) to the connector (1), insert the seal (3) to the clamp ring (2) and tighten the sealing nut (4) enough. During the steps DO NOT TWIST the cable (5).

6. Use the same procedure to assemble the connector on the second end of the cable.

IMPORTANT

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



4. Technical specifications

Power supply

- Electronic auto-ranging
- Input voltage: 120 - 277V AC, 50/60 Hz
- Power consumption:
 - Eminere UV 2: 45W
 - Eminere UV 4: 85W
- Inrush current:
 - Eminere UV 2: <70A/250µs
 - Eminere UV 4: <100A/200µs

Optic

- Light source:
 - Eminere UV 2: 16 x UV LEDs
 - Eminere UV 4: 32 x UV LEDs
- UV LEDs Wave Length: 365nm
- Beam Angle:
- Projected LEDs Life: 10.000 Hrs

Compatible drivers

- E-box Daisy
 - 1 Output
 - 1 Main power Input
 - Control: DMX, Art-Net, sACN , W-DMX control, RDM
 - Pixel control (1px= 1ft)
 - 120-277V Input
 - Connection via terminal blocks, inlets via grommet
 - IP67
- E-box Star
 - 6 outputs
 - 1 Main power Input
 - Control: DMX, Art-Net, sACN , W-DMX control, RDM
 - Pixel control (1px= 1ft)
 - 120-277V Input
 - Connection via terminal blocks, inlets via grommet
 - IP67
- E-box Pro
 - 6 outputs
 - 6 Main power Inputs
 - Control: DMX, Art-Net, sACN , W-DMX control, RDM
 - Pixel control (1px= 1ft)
 - 120-277V Input
 - Connection via terminal blocks, inlets via grommet
 - IP67
- E-box Lite
 - 1 output
 - 1 Main power Input
 - Control: DMX, W-DMX control, RDM
 - Pixel control (1px= 1ft)

Eminere UV

120-277V Input

Connection via screw terminal blocks, inlets via grommet

IP67

Mounting method

- Via two L-shape brackets
- LED module “tilt” adjustment range: -95°/+95°

Sizes

- Eminere UV 2 (600mm / 2ft)
- Eminere UV 4 (1200mm / 4ft)

Housing

- Aluminium extruded body with die-casted end caps
- Tempered glass

Cooling system

- Convection

Total heat dissipation

- Eminere UV 2: 113 BTU/h (calculated)
- Eminere UV 4: 214 BTU/h (calculated)

Protection factor

- CE: IP 67
- US: Suitable for wet location

Impact rating

- CE: IK06

Operating ambient temperature range

- -20°C /+40°C (-4°F /+104°F)

Operating temperature

- +67°C @ Ambient +40°C (+153°F @ Ambient +104°F)

Connection

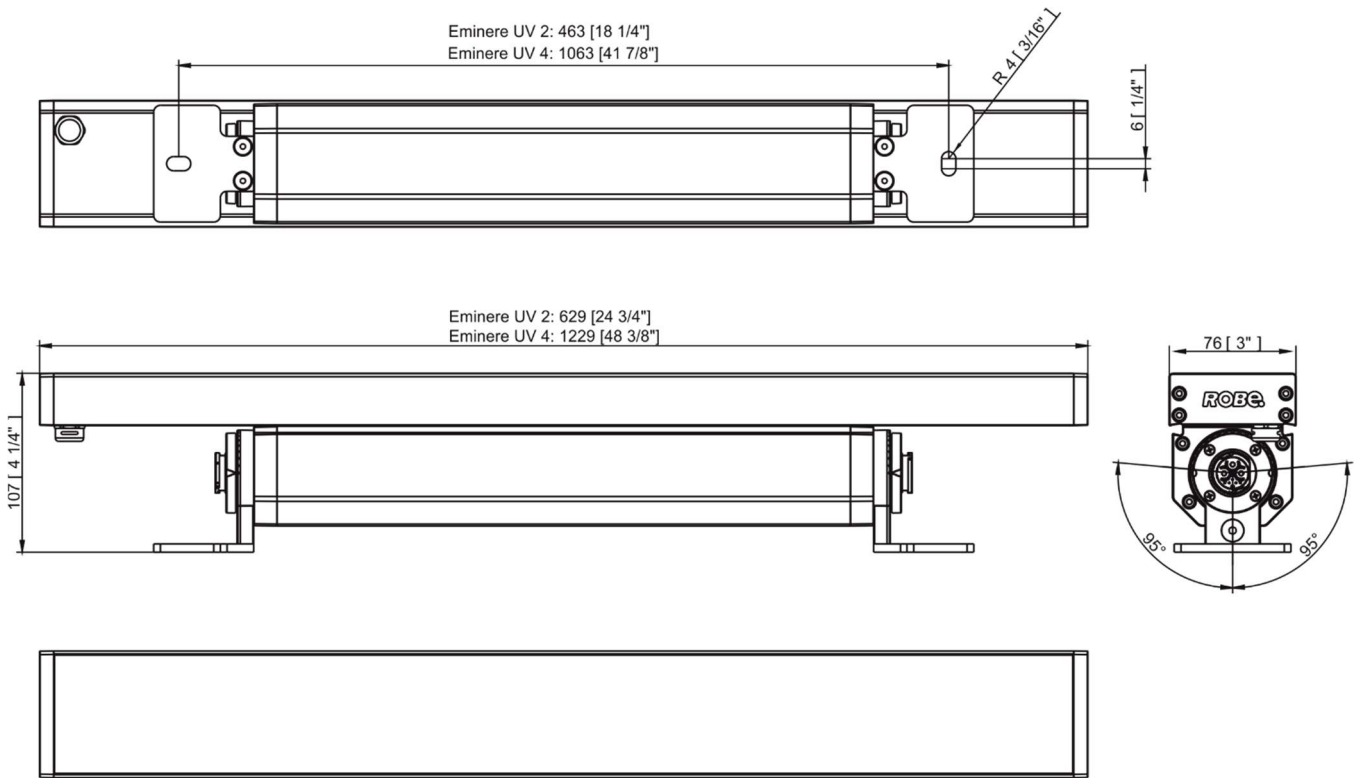
- Input: panel connector Amphenol ABAB-DMQ06000021-IN (P/N13052952)
- Output: panel connector Amphenol ABAB-DAQ06000021 (P/N13052953) + water-tight cap

Weight

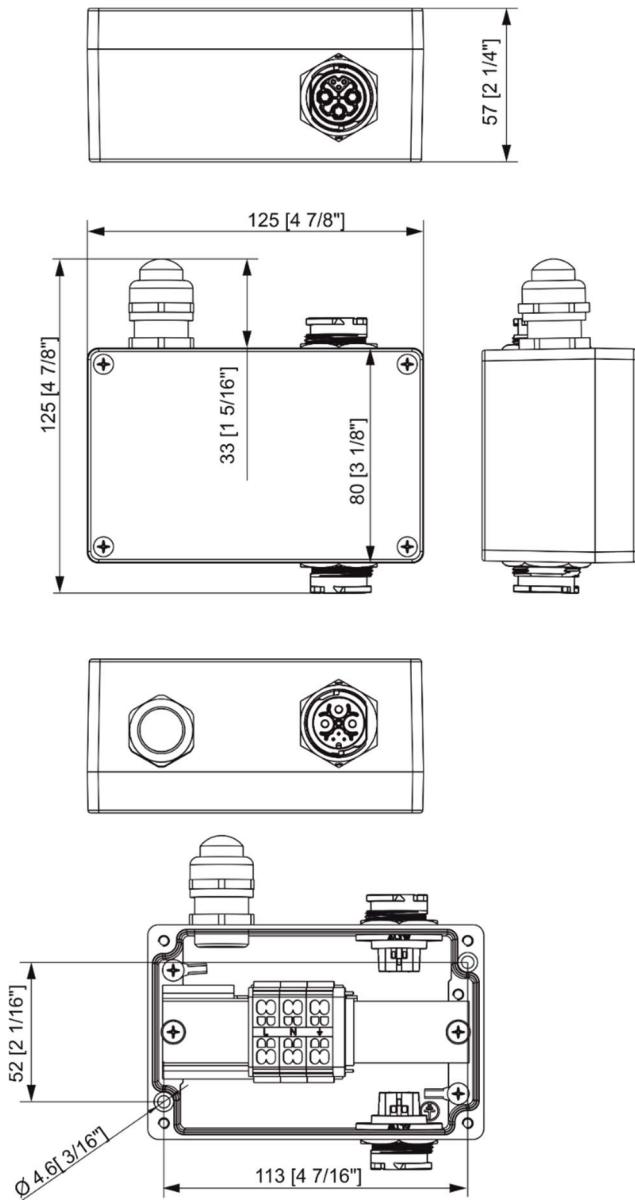
- Eminere UV 2: 4.05 kg (8.92 lbs)
- Eminere UV 4: 7.68 kg (16.93 lbs)

Eminere UV

Dimensions (All dimensions in mm [inch])



• Booster box



Included items

- 1 x Eminere UV
- 1 x User manual

Optional accessories

CE Leader Cables FF:

- Leader Cable FF 2m (P/N 13053005)
- Leader Cable FF 5m (P/N 13053006)
- Leader Cable FF 10m (P/N 13053007)
- Leader Cable FF 25m (P/N 13053008)
- Leader Cable FF 50m (P/N 13053009)

US Leader Cables FF:

- Leader Cable FF 2m (P/N 13053010)
- Leader Cable FF 5m (P/N 13053011)
- Leader Cable FF 10m (P/N 13053012)
- Leader Cable FF 25m (P/N 13053013)

Leader Cable FF 50m (P/N 13053014)

Jumper Cables FF/FM:

- Jumper Cable FF/FM 0,25m (P/N 13053052)
- Jumper Cable FF/FM 0,5m (P/N 13053053)
- Jumper Cable FF/FM 1m (P/N 13053054)
- Jumper Cable FF/FM 2m (P/N 13053055)
- Jumper Cable FF/FM 3m (P/N 13053056)
- Jumper Cable FF/FM 5m (P/N 13053057)
- Jumper Cable FF/FM 10m (P/N 13053058)

- Waterproof Cover Cap FM ZAHB-0006 (P/N 17031173)
- Field Installable Connector FF (P/N 13053003)
- Field Installable Connector FM (P/N 13053004)

E-boxes:

- E-box Daisy (P/N 10063655)
- E-box Daisy/W (P/N 10063638)
- E-box Lite (P/N 10063657)
- E-box Lite/W (P/N 10063653)
- E-box Star (P/N 10063656)
- E-box Star/W (P/N 10063644)

Booster box (P/N 10063712)

- Cable Cover for Eminere 2 RAL9011 (P/N 10980485)
- Cable Cover for Eminere 4 RAL9011 (P/N 10980487)

- Shield for Eminere 2 RAL9011 (P/N 10980489)
- Shield for Eminere 4 RAL9011 (P/N 10980491)

5. 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.

5.1 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.

6. 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.

January 6, 2022

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