

# Eminere Inground 2 Wireless DMX Eminere Inground 4 Wireless DMX



Version 1.2

**USER MANUAL**

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**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY  
BEFORE POWERING OR INSTALLING YOUR Eminere !  
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 AC power before cleaning, servicing or installing.

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

Do not install the fixture near an open flame.

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.**

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.***

Avoid brute force when installing or operating the fixture.

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.

Dismantling of the unit in case of its repair must not be carried out in rain.

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 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.

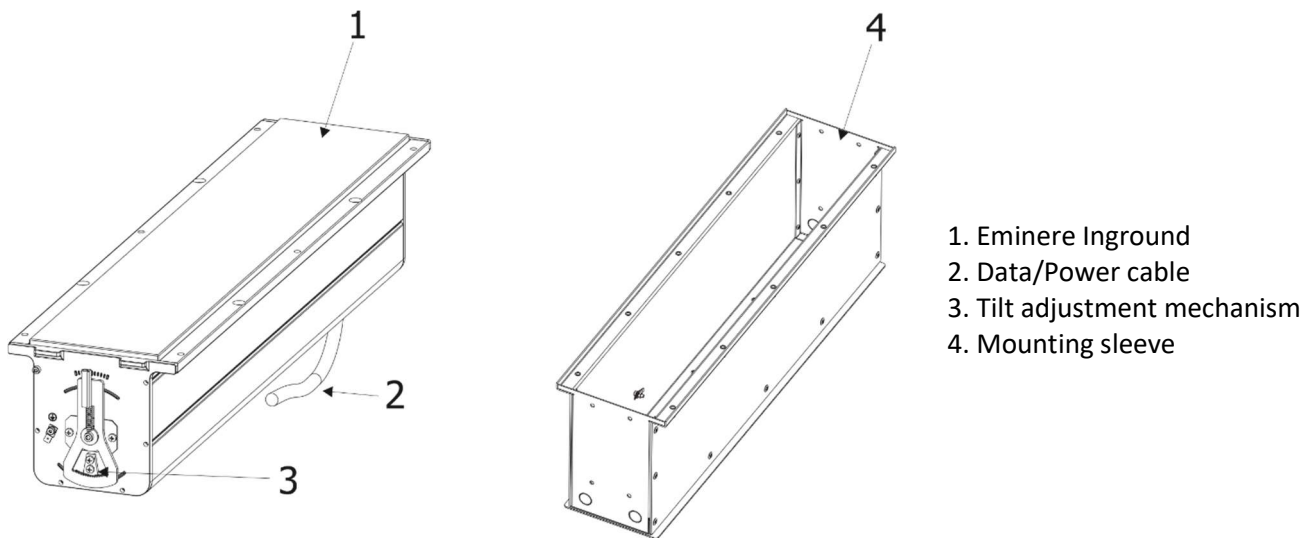
Emission of the equipment complies with the standard EN55032 Electromagnetic compatibility of multimedia equipment – Emission Requirements according to class B.

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

Operate the fixture only after having familiarized yourself with its functions. Do not permit operation by persons not qualified to operate the fixture.

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



## 3. Installation

***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!***

***With respect to the purpose of using the unit, the residual current circuit breaker is highly recommended.***

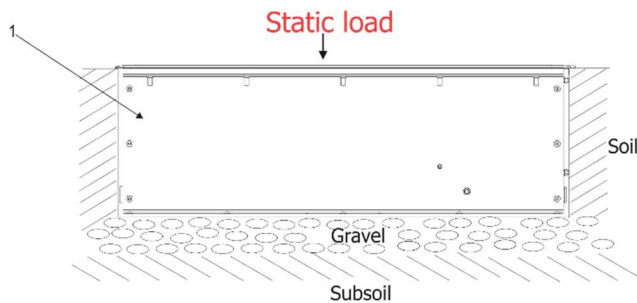
### 3.1 Mounting the Eminere Inground

**Warning!**

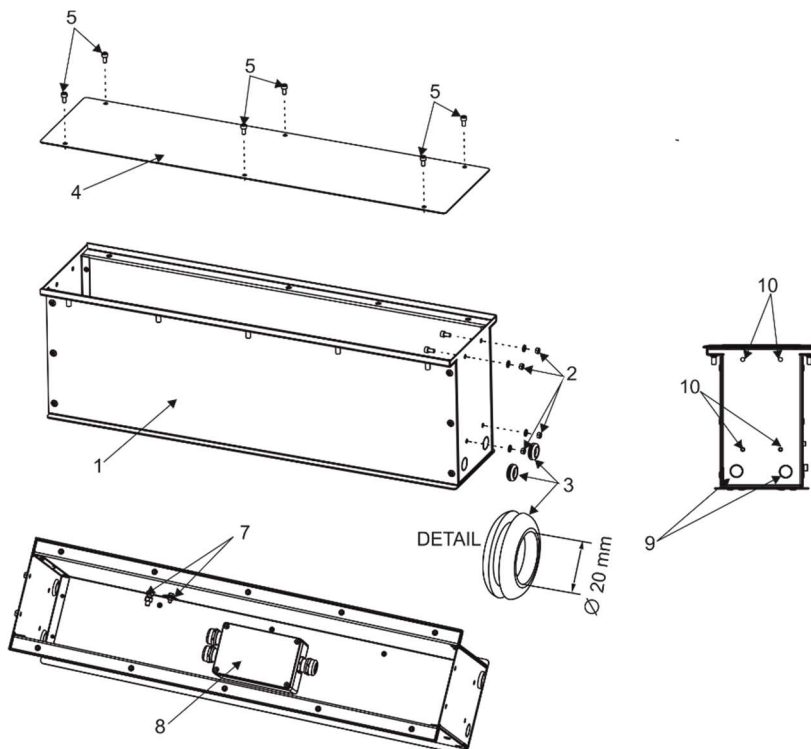
*If the Eminere Inground will be exposed to max. allowed static load, the subsoil under the installation sleeve has to withstand load of: 45kN (standard covering glass)  
23kN (antiskid covering glass).*

#### Example of installation of the Eminere Inground 2

1. Prepare an adequate hole with a good drainage leaving at least 300 mm of gravel on the bottom of the hole for inserting the mounting sleeve (1) into the prepared hole. There must not stay water in the mounting sleeve.

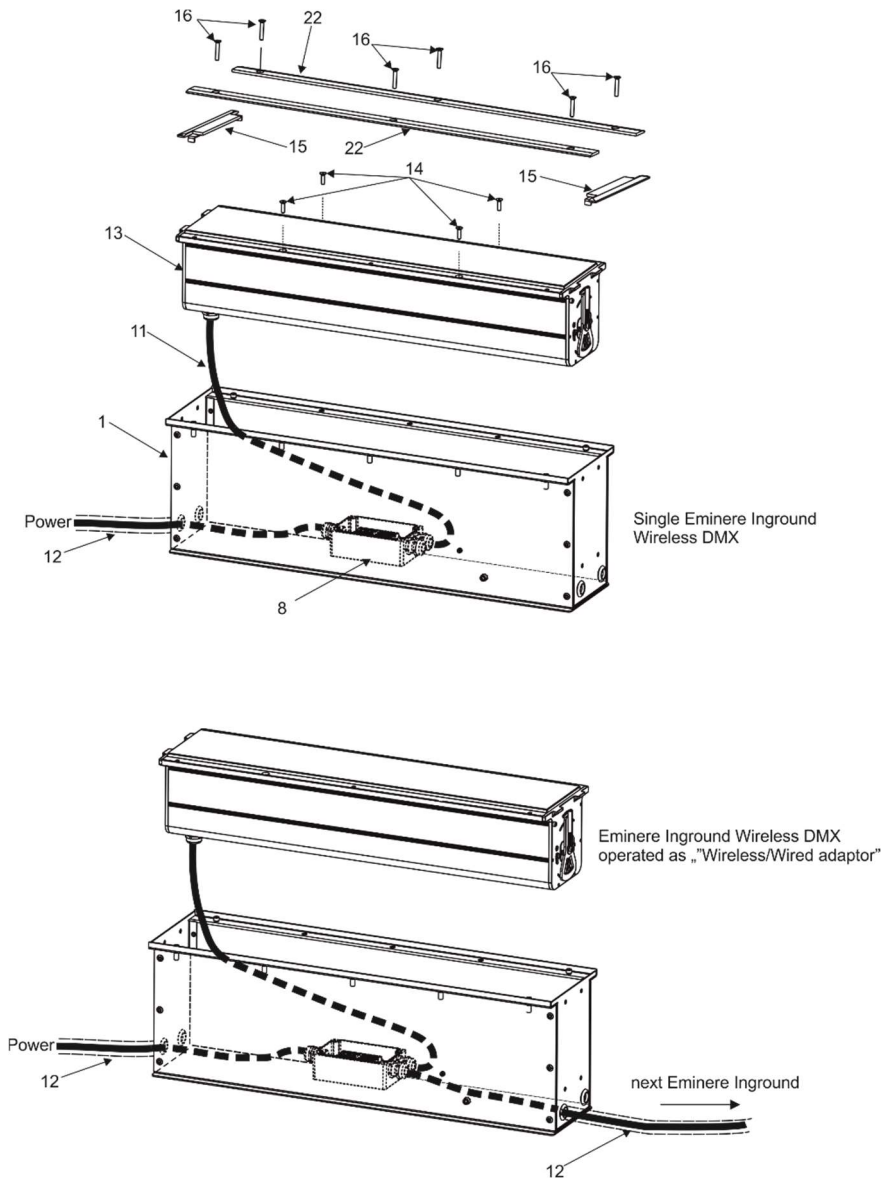


2. Remove the temporary cover (4) from the mounting sleeve (1) by unscrewing the six cap head allen bolts (5).
3. In sleeve that Emineres inground will be installed side by side, the four holes (10) on the side of the mounting sleeve serve for attaching next mounting sleeve by means of the four screws M5x10 (2) (with washer and nuts). Two rubber grommets (3) insert to the holes (9) on the side of the mounting sleeve which you will use for passing cables to next mounting sleeve (the rubber grommets insert to holes after screwing both mounting sleeves together).
4. The connection points (7) serve for grounding the Eminere inground and the mounting sleeves each other.



5. Connect the Eminere Inground (13) and all needed cables to the junction box (8).  
Note: the cable (11) of the Eminere Inground is 2 m long, we recommend to shorten the cable on 1 m.

## Eminere Inground Wireless DMX



The supply cable to the mounting sleeve and power/data cable from the mounting sleeve must be placed in a protective tube (12).

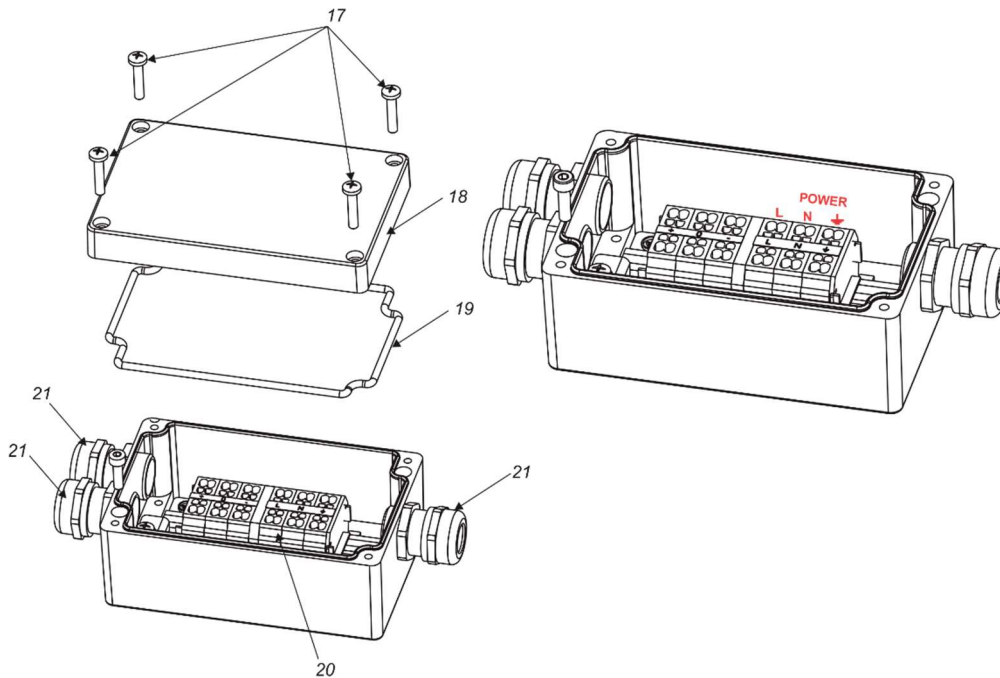
6. After connecting cables to the junction box (8), screw the Eminere Inground (13) to the mounting sleeve (1) by means of the four countersunk-head bolts M5x18 (14). The bolts (14) must be tightened smoothly with torque of 4Nm. Do not use impact wrench.
7. Screw the cover plates (15), (22) on the mounting sleeve (1) by means of the six countersunk-head bolts M5x25 (16). The bolts (16) must be tightened smoothly with torque of 4Nm. Do not use impact wrench.

### Junction box

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

***Do not connect (disconnect) Emineres Inground each other when they are under voltage!***

1. Unscrew the four screws M4x20 (17) on the cover of the junction box and remove this cover (18) with gasket (19) to get access to the connection block (20).



2. Connect cables to the connection block (20).

Wiring of the Eminere cable (CE version):

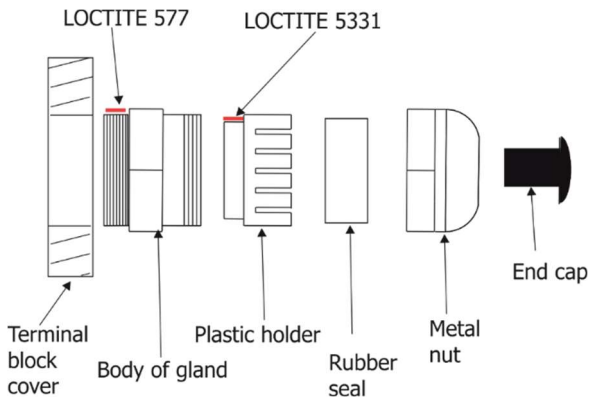
| Core         | Power Connection |
|--------------|------------------|
| Brown        | L                |
| Blue         | N                |
| Yellow/Green | ⏏ (earth)        |

Wiring of the Eminere cable (US version):

| Core  | Power Connection |
|-------|------------------|
| Black | L                |
| White | N                |
| Green | ⏏ (earth)        |

The three cable glands M20 (21) are intended for cable of diameter of 6-12mm.

### Cable gland M20:



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 in case that you need to unscrew and remove the cable gland from the housing of the junction box and screw it back to the housing.

Remove end caps from cable glands before passing cables into the junction box.

Fully tighten cable gland nuts and check that cables are properly fastened in the cable glands.

Note: every cable gland has to be covered with the end cap if this cable gland is not used for cable passing.

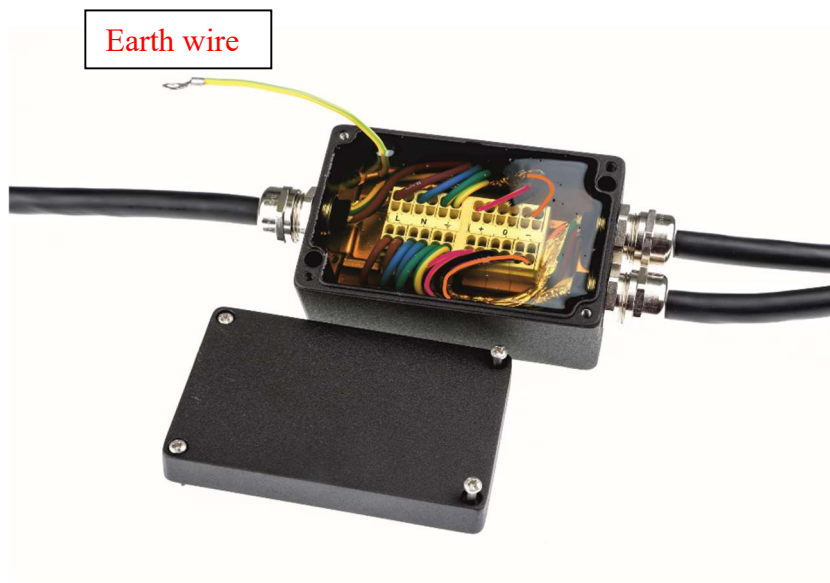
3. After checking all connections, fill the junction box with synthetic resin. Make sure that the End cap is inserted in unused cable gland and the earth wire for cover is pulled out of the junction box before filling it. At filling of the junction box proceed according instructions stated on the bag of the resin. The connection box (20) has to be fully poured in the resin.

Prepared junction box and resin bag.

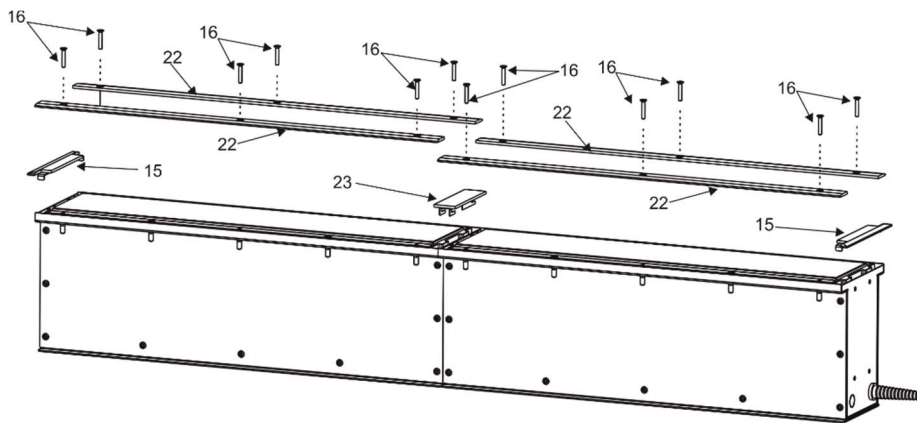


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Junction box filled with resin.

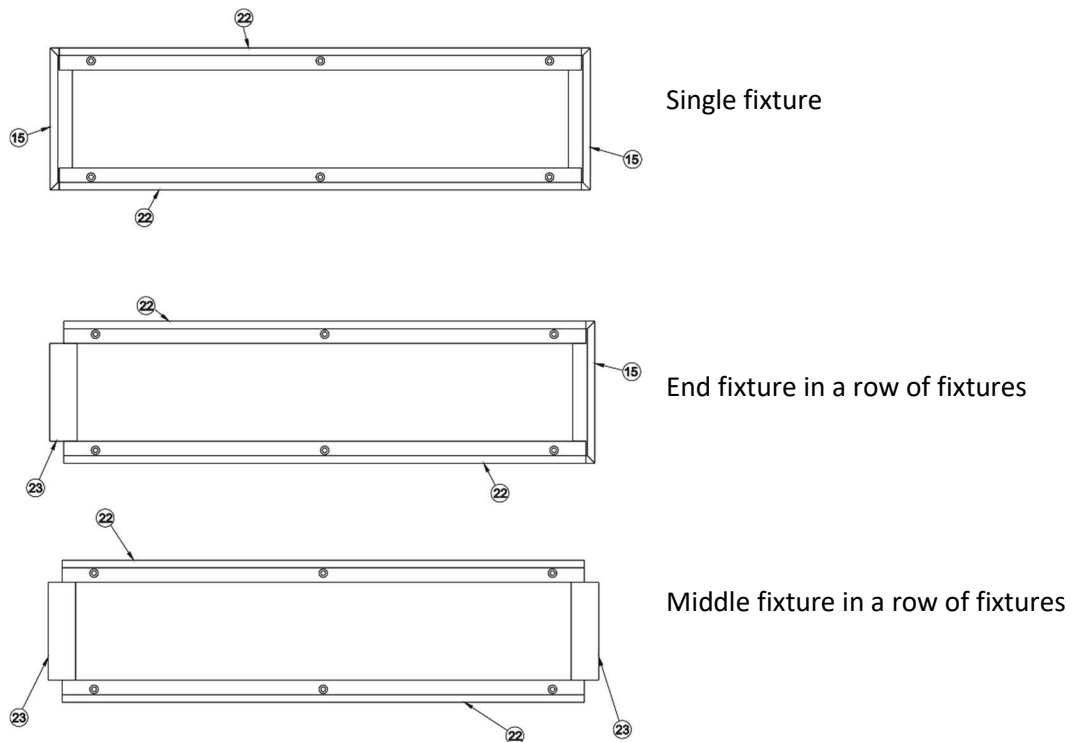


4. Screw the cover (18) with gasket (19) to the junction box by means of the four screws (17) and check they are fully tighten.
8. If you install two or more Emineres Inground side by side, you have to screw three types of the cover plates: end (15), middle (23) and continuous (22). Insert the cover plate middle (23) between two mounting sleeves and screw rest of cover plates to the Emineres Inground by means of the countersunk allen head bolts M5x25 (16).



## Eminere Inground Wireless DMX

### Cover plates overview:

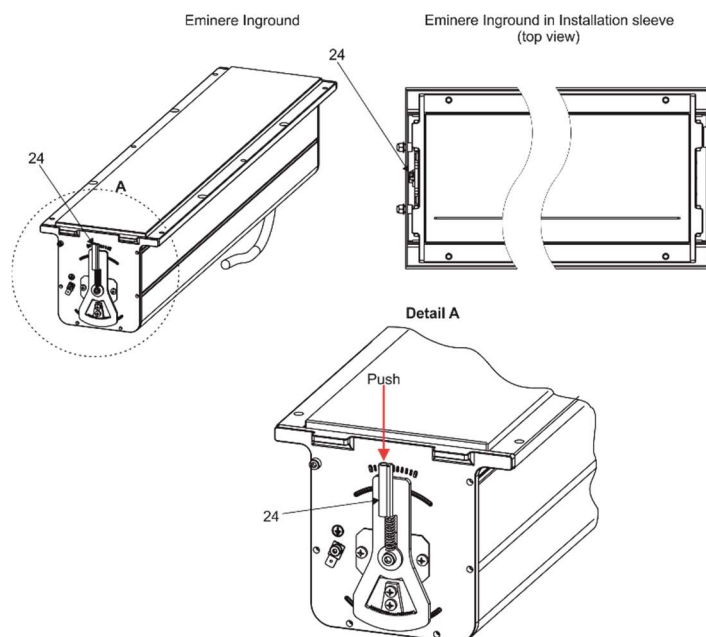


(15)-Cover plate end (optional )

(22)-Cover plate continuous (optional)

(23)-Cover plate middle (one piece is a standard part of fixture)

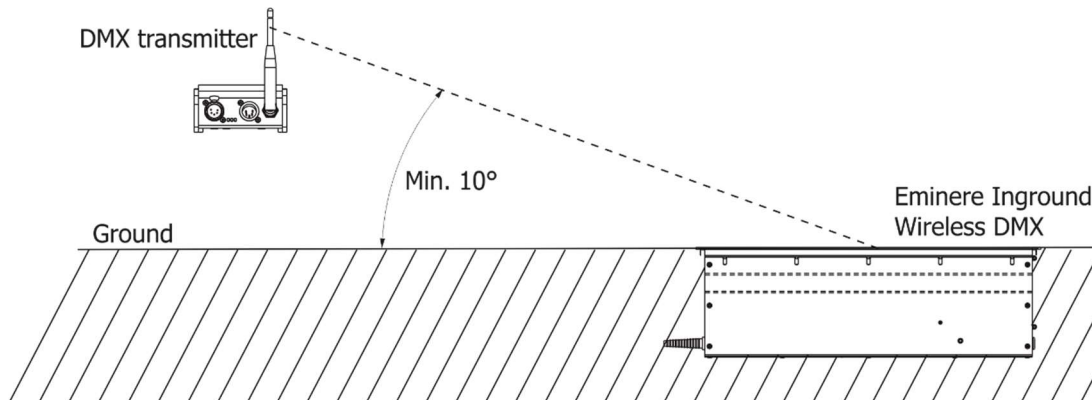
9. Tilt adjustment. The Eminere Inground can be tilted by  $\pm 15^\circ$  after installing it in the mounting sleeve. Push and hold the small tube (24) to release the lock of the Eminere Inground and tilt the device to desired position. Release the small tube (24) to lock the new position of the Eminere Inground.



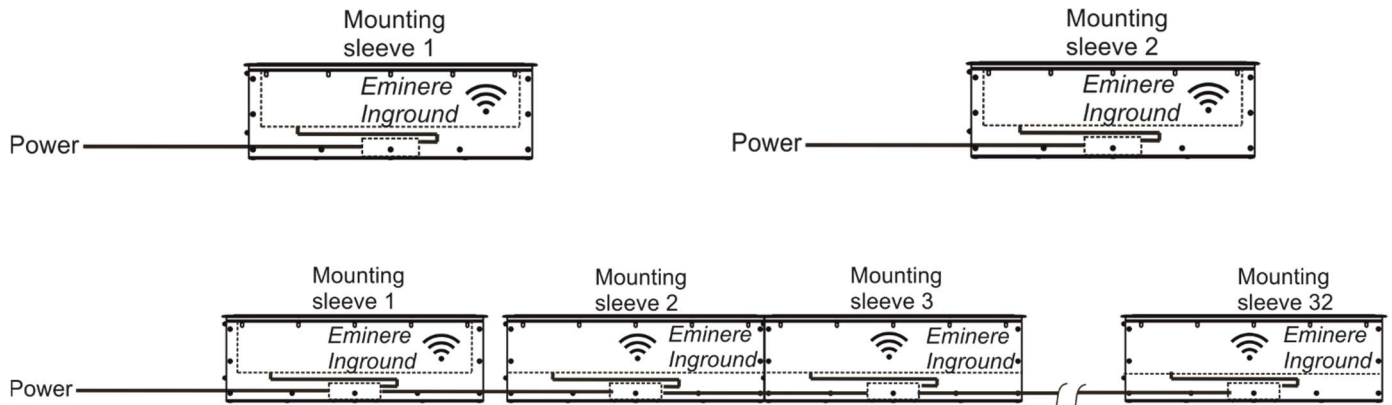
**DMX addressing of connected Emineres Inground has to be done manually by means of the Robe Universal Interface WTX and the software RDM Manager.**

Direct visibility between a transmitter and the Eminere Inground Wireless DMX must be ensured without no obstacles (bildings, trees, cars....).

The angle between the ground with the Eminere Inground Wireless DMX and the transmitter's antenna has to be more than 10°. Distance between a DMX transmitter and the Eminere Inground Wireless DMX depends on transmission range of used DMX transmitter, surrounds etc (we recommend to test behaviour of DMX transmitter with the Eminere Inground Wireless DMX before installation).



## Examples of connection



The Eminere Inground can be only linked to a transmitter by running the link procedure at DMX transmitter .

The Eminere Inground can be unlinked from the transmitter by running the unlink procedure at DMX transmitter or by switching off/on the Eminere Inground three times while the transmitter is switched off.

During off/on unlink procedure, the Eminere Inground has to be switched on for 5 seconds in steps 1-3:

Step 1: Eminere Off, Eminere On (5s)

Step 2: Eminere Off,Eminere On(5s)

Step 3: Eminere Off, Eminere On (5s)

Step 4: Eminere Off, Eminere On

Successful unlink is signaled by flashing LEDs at fourth switching the Eminere inground Off and On. If the LEDs flashing will not appear, probably the 5 seconds period has not been kept and you have to repeat the Off/On procedure to unlink the fixture from the DMX transmitter .

**DMX addressing of connected Emineres Inground has to be done manually by means of the Robe Universal Interface WTX and the software RDM Manager.**

Theoretically up to 32 Emineres Inground can be connected in DMX chain, but number of connected Emineres Inground in series also depends on their cable length, power voltage and type of Emineres Inground.

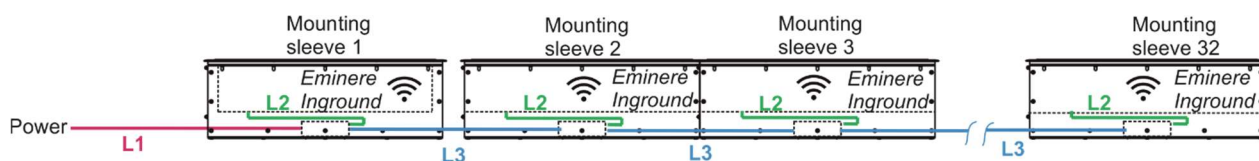
The tables below state max. theoretical number of Emineres connected in series without Booster boxes.

| Eminere Inground 2 Wireles DMX | Voltage |      |      |      |
|--------------------------------|---------|------|------|------|
| Cable length *                 | 120V    | 190V | 230V | 277V |
| 10 m                           | 32      | 32   | 32   | 32   |
| 20 m                           | 32      | 32   | 32   | 32   |
| 30 m                           | 28      | 32   | 32   | 32   |
| 50 m                           | 17      | 32   | 32   | 32   |
| 70 m                           | 12      | 31   | 32   | 32   |
| 100 m                          | 9       | 21   | 32   | 32   |

| Eminere Inground 4 Wireles DMX | Voltage |      |      |      |
|--------------------------------|---------|------|------|------|
| Cable length *                 | 120V    | 190V | 230V | 277V |
| 10 m                           | 21      | 32   | 32   | 32   |
| 20 m                           | 21      | 32   | 32   | 32   |
| 30 m                           | 15      | 32   | 32   | 32   |
| 50 m                           | 9       | 22   | 32   | 32   |
| 70 m                           | 6       | 16   | 23   | 32   |
| 100 m                          | 4       | 11   | 16   | 23   |

\* Cable length is a total cable length among connected Emineres Inground including power cable of the first Eminere Inground.

Example of connection:



Total cable length=  $L1 + \sum L2 + \sum L3$ .

**Max. total cable length must not exceed 100m.**

## 4. Technical specifications

### Power supply

- Electronic auto-ranging
- Input voltage: 120 - 277V AC, 50-60 Hz
- Power consumption:
  - Eminere Inground 2: 50W
  - Eminere Inground 4: 90W
- Inrush current:
  - Eminere Inground 2: <70A/250µs
  - Eminere Inground 4: <100A/200µs

### Optic

- Light source:
  - Eminere Inground 2: 24 x high power LEDs
  - Eminere Inground 4: 48 x high power LEDs
- Colour variants: RGBW (W - 6500 K), RGBA, WW (W - 3000 K)
- Beam angles: Symetrical: 9°, 15°, 30°, 50°, 65°, 100°
  - Bi-symetrical: 10° x 30°, 30° x 10°, 10° x 60°, 60° x 10°, 35° x 70°, 70° x 35°, 15° x 90°, 90° x 15°
  - Anti- Skid (symmetrical): 18°, 22°, 35°, 50°, 65°, 100°
  - Anti-Skid (Bi-symmetrical): 20° x 35°, 20° x 65°, 20° x 90°, 40° x 70°
  - Wallwasher, Wide Wallwasher
- Projected lumen maintenance: 60.000 hrs (L70 @ 25 °C / 77 °F)

### Interface Protocol

- USITT DMX512, RDM

### Mounting method

- Inground mount

### Adjustability

- +/- 15° after instalation

### Housing

- High pressure extruded aluminium body
- End caps - Die-Cast Aluminium
- Welded instalation sleeve for pre-instalation
- Tempered glass

### Cooling system

- Convection

### Total heat dissipation

- Eminere Inground 2: 130 BTU/h (calculated)
- Eminere inground 4: 228 BTU/h (calculated)

### Protection factor

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

### Impact rating

- CE: IK09

**Max. static load**

- Standard tempered glass: 45kN
- Antiskid tempered glass: 23kN

**Operating ambient temperature range**

- -20°C /+40°C (-4°F /+104°F)

**Operating temperature**

- +80 °C @ Ambient +40 °C (+176 °F @ Ambient +104 °F)

**Connection**

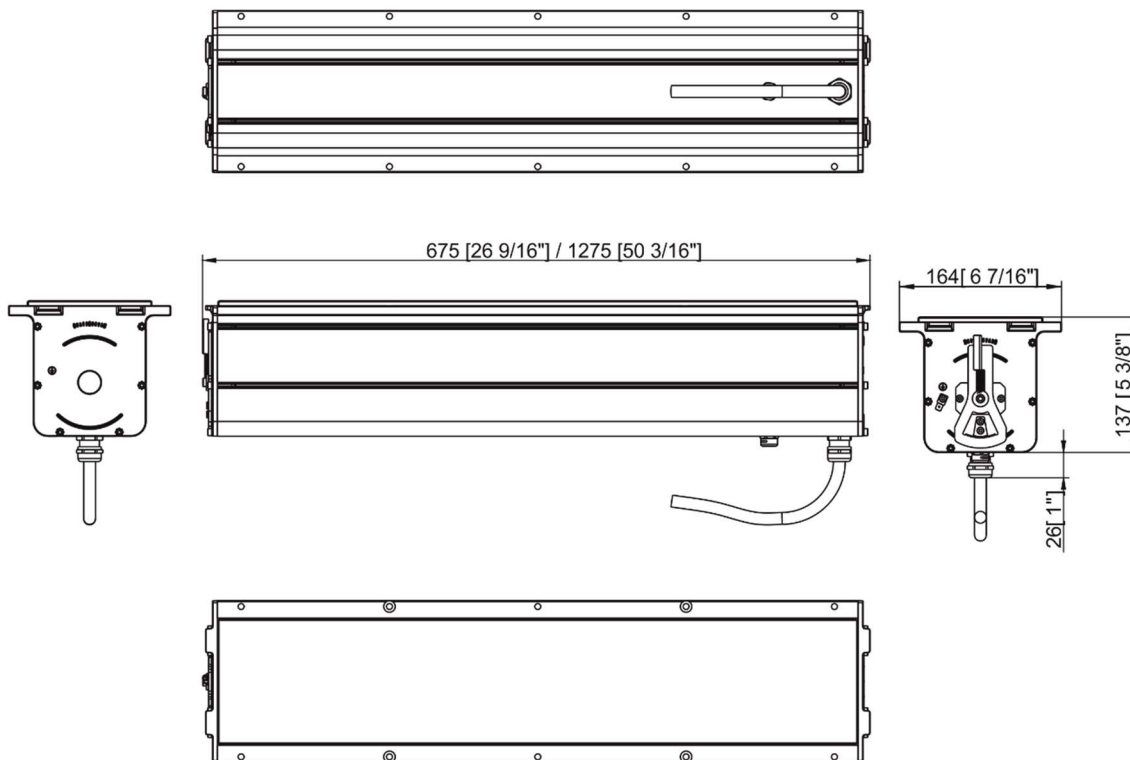
- Junction box

**Weight**

- Eminere Inground 2: 23.6 kg / 52 lbs (12.2 kg / 26.9 lbs Eminere Inground 2 Fixture, 11.4 kg / 25 lbs install. Sleeve)
- Eminere Inground 4: 43.85 kg/ 96.67 lbs (22.65 kg / 49.93 lbs Eminere Inground 4 Fixture, 21.2 kg / 46.74 lbs Install. Sleeve)

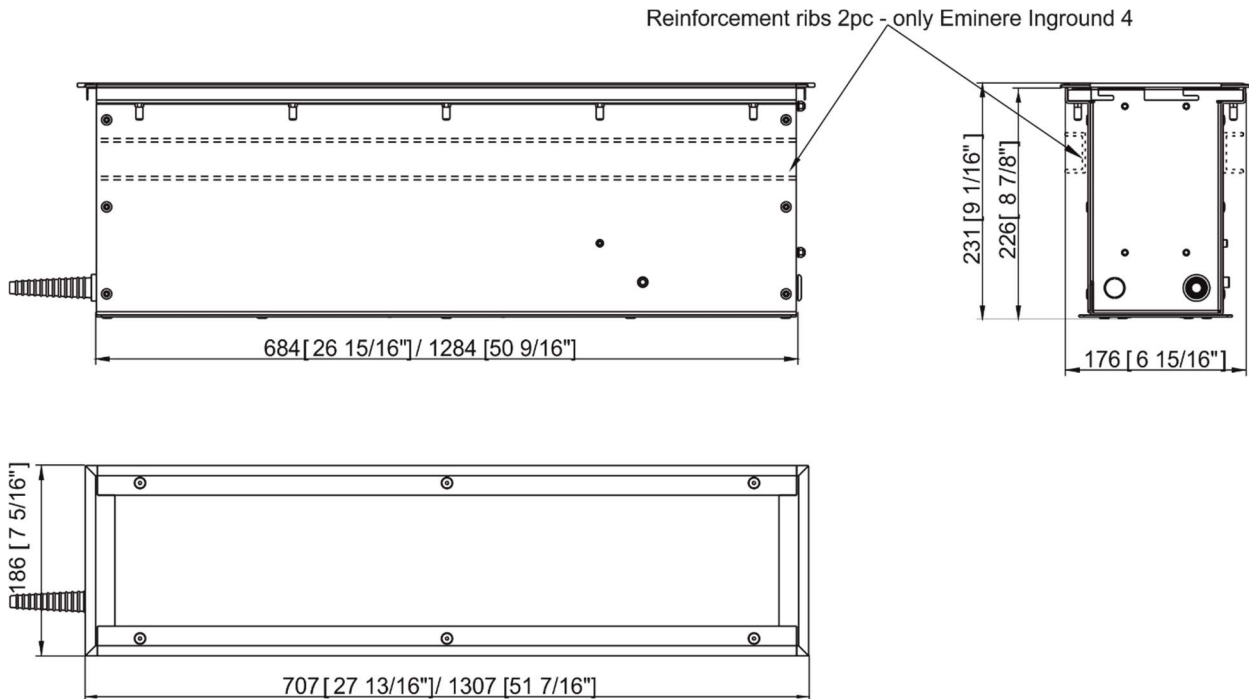
**Dimensions (All dimensions in mm [inch])**

- Eminere Inground 2/Eminere Inground 4



**Dimensions with mounting sleeve (All dimensions in mm [inch])**

- Eminere Inground 2/Eminere Inground 4



**Included items**

- 1 x Eminere Inground
- 1 x mounting sleeve
- 1 x User manual

**Optional accessories**

- P/N 10980506 Eminere Inground 2 Mounting Sleeve
- P/N 10980508 Eminere Inground 2 cover plate continuous
- P/N 10980539 Eminere Inground 4 Mounting Sleeve
- P/N 10980526 Eminere Inground 4 cover plate continuous
- P/N 10980509 Eminere Inground cover plate end

## 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 the manual | Date of issue | Description of changes                   |
|-----------------------|---------------|------------------------------------------|
| 1.1                   | 08/09/2021    | Option Wireless DMX to wired DMX removed |
| 1.2                   | 19/10/2021    | Technical specifications changed         |

*Specifications are subject to change without notice.*

*October 19, 2021*

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