ERCO GmbH
Postfach 2460
58505 Lüdenscheid
Brockhauser Weg 80-82
58507 Lüdenscheid
Germany

Tel.: +49 2351 551 0
Fax: +49 2351 551 300
info@erco.com
www.erco.com

# Effizienzklasse Lichtquelle
# Efficiency class light source
# Classe d'efficacité énergétique de la source lumineuse
# Efficiëntieklasse lichtbron
# Classe di efficienza della sorgente luminosa
# Clase de eficiencia de la fuente de luz
# Ljuskällans energiklass
# Energiklasse lyskilde
# Energieffektivitetsklasse for lyskilden

## Deutsch

Dieses Produkt enthält eine Lichtquelle der Effizienzklasse E.
Aus wärmetechnischen und lichttechnischen Gründen sowie dem Schutz elektronischer Bauteile vor ESD (Electro Static Discharge) kann die Lichtquelle nicht vom Kunden gewechselt werden.

## English

This product contains a light source of efficiency class E.
Due to thermal and photometric properties as well as to protect electronic components from ESD (electrostatic discharge) the light source cannot be changed by the customer.

## Français

Ce produit comprend une source lumineuse de classe d'efficacité énergétique E.
Pour des raisons techniques liées à la chaleur et à l'éclairage, ainsi que pour protéger les composants électroniques contre la décharge électrostatique (DES), la source lumineuse ne peut pas être remplacée par le client.

## Nederlands

Dit product bevat een lichtbron van efficiëntieklasse E.
Om warmtetechnische en lichttechnische redenen almede de bescherming van elektronische componenten tegen ESD (elektrostatische ontlading) kan de lichtbron niet door de klant worden gewisseld.

## Italiano

Questo prodotto contiene una sorgente luminosa con classe di efficienza E.
Per ragioni tecniche di temperatura e illuminazione e la protezione dei componenti elettrici dall'ESD (Electro-Static Discharge), la sorgente luminosa non deve essere sostituita dal cliente.

## Español

Este producto contiene una fuente de luz con clase de eficiencia E.
Por motivos térmicos y luminotécnicos, así como para proteger los componentes electrónicos contra descargas electrostáticas (ESD), no se permite al cliente cambiar la fuente de luz.

## Svenska

Denna produkt innehåller en ljuskälla i energiklass E.
Av värme- och ljustekniska skäl samt avseende skyddet av elektroniska komponenter mot elektrostatiska urladdningar (ESD) kan ljuskällan inte bytas av kunden.

## Norsk

Dette produktet inneholder en lyskilde i energiklasse E.
Av varme- og lystekniske årsaker samt for å beskytte de elektroniske komponentene mot ESD (Electro Static Discharge), er det ikke mulig for kunden å skifte lyskilde.

## Dansk

Dette produkt indeholder en lyskilde i energieffektivitetsklasse E.
Af varmetekniske og lystekniske samt for at beskytte de elektroniske komponenter mod ESD (electrostatic discharge/statiske udledninger) kan kunden ikke selv udskifte lyskilden.

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0522

ERCO GmbH
Postfach 2460
58505 Lüdenscheid
Brockhauser Weg 80-82
58507 Lüdenscheid
Germany

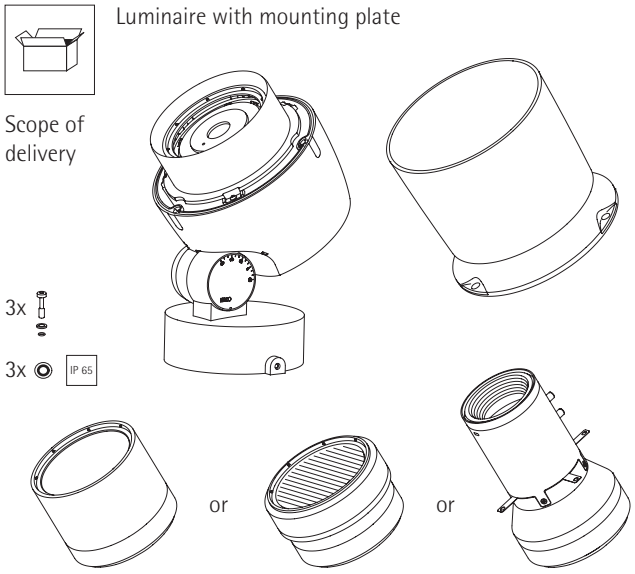
Tel.: +49 2351 551 0
Fax: +49 2351 551 300
info@erco.com
www.erco.com

# Beamer

Mounting instructions

3000069479
0224

## Scope of delivery

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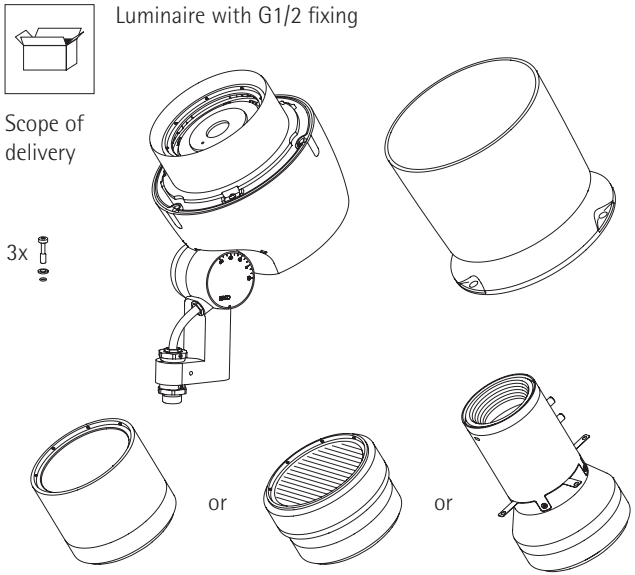
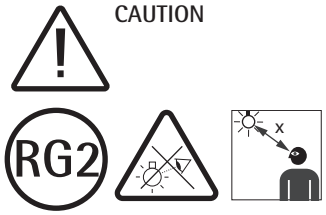



2

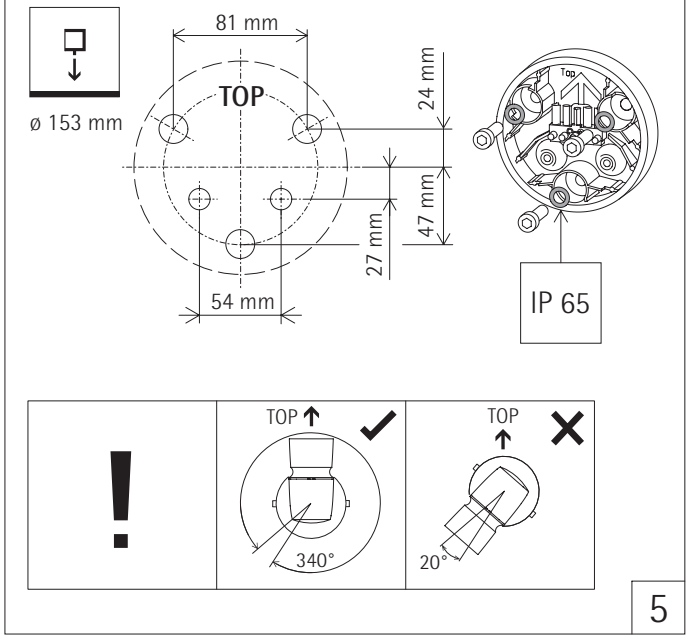
## General safety information
## Luminaire with mounting plate




3

| Size | d x w x h (mm) | A (m²) | max. W (kg) |
|---|---|---|---|
| L | 380 x 193 x 300 | 0.08 | 6.92 |
| L G1/2 | 310 x 193 x 337 | 0.08 | 6.53 |
| L Framing | 471 x 195 x 300 | 0.08 | 8.31 |
| L G1/2 Framing | 401 x 195 x 337 | 0.08 | 7.92 |

4

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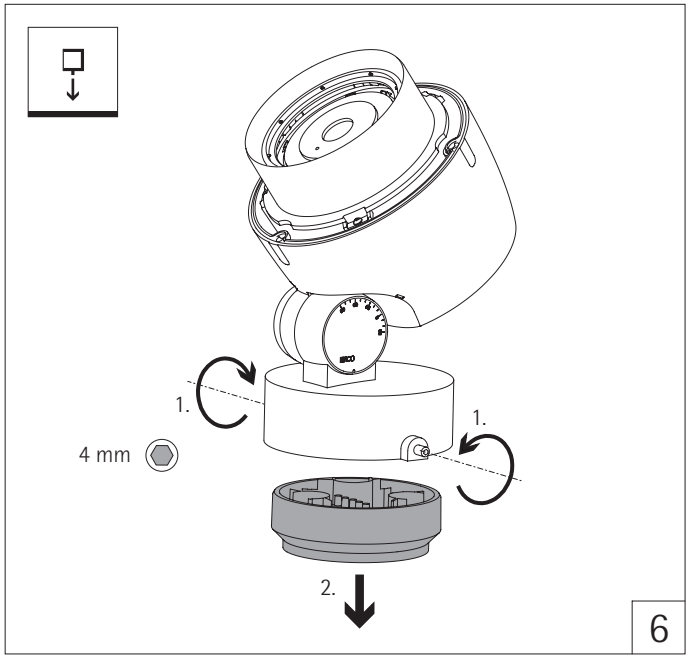
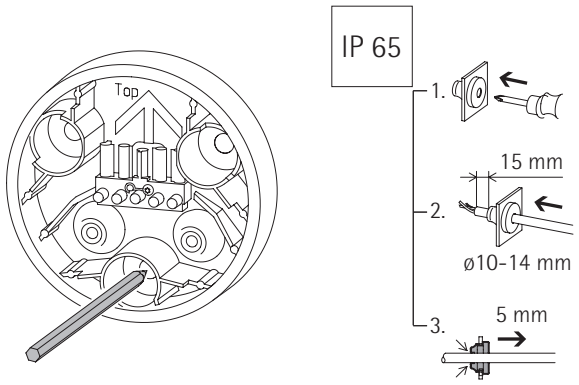
## Luminaire with mounting plate




6

Protection Class II

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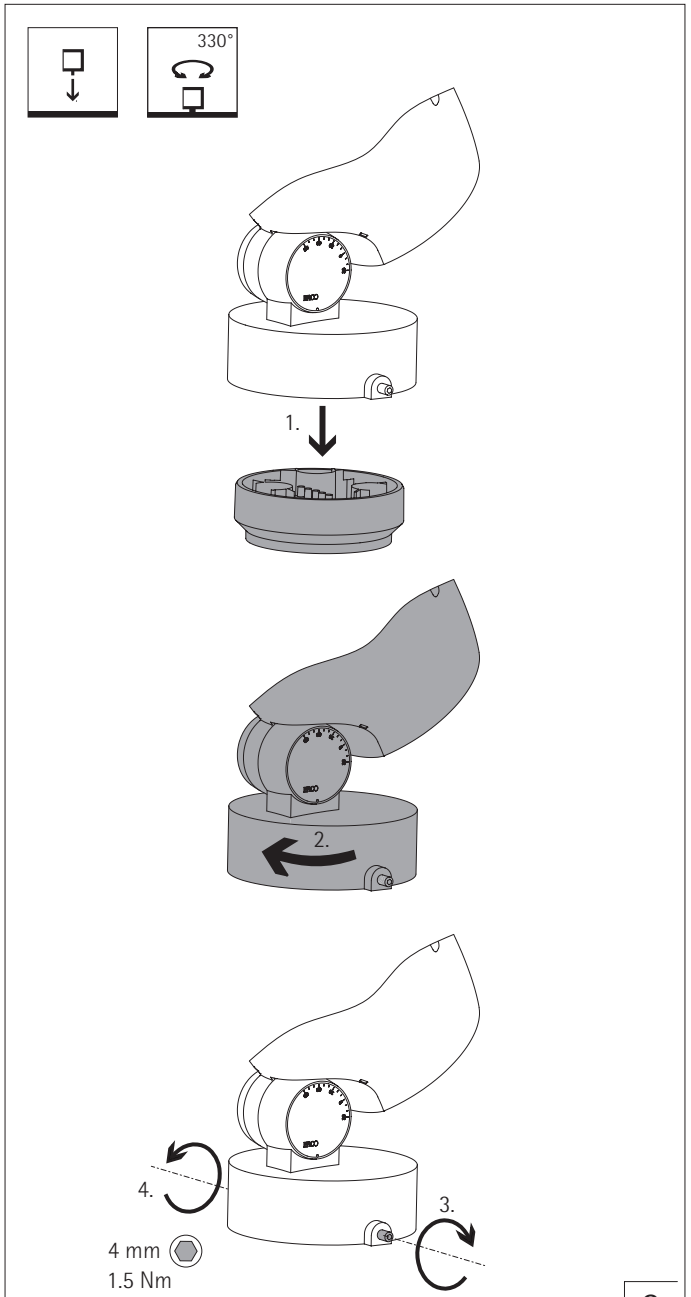
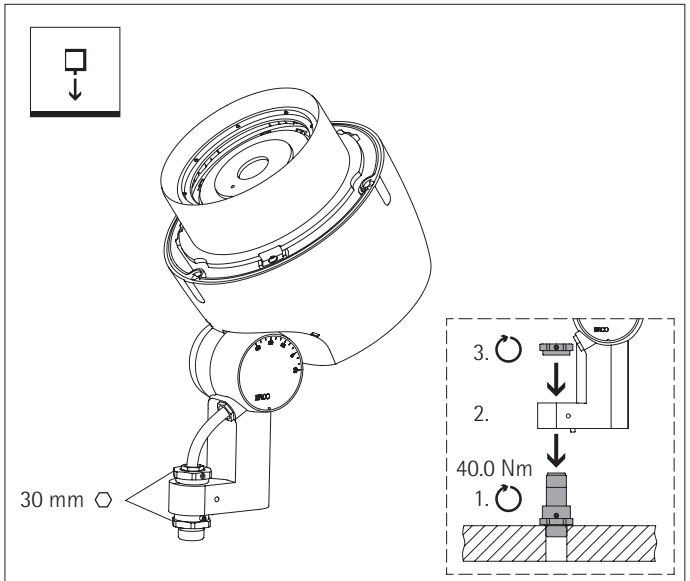
## Luminaire with mounting plate



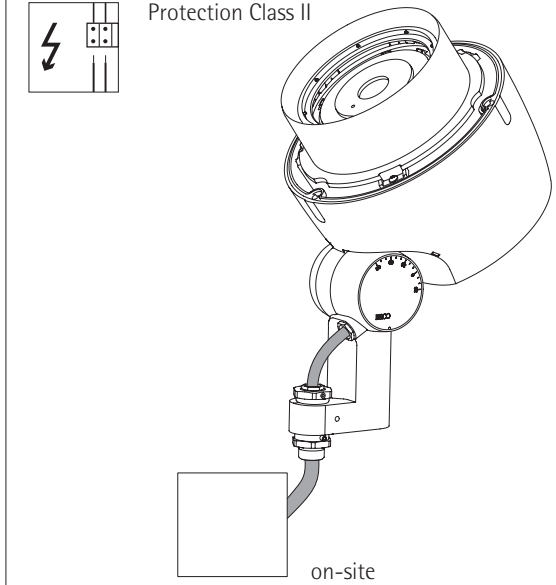

8

## Luminaire with G1/2 connection




9

Protection Class II

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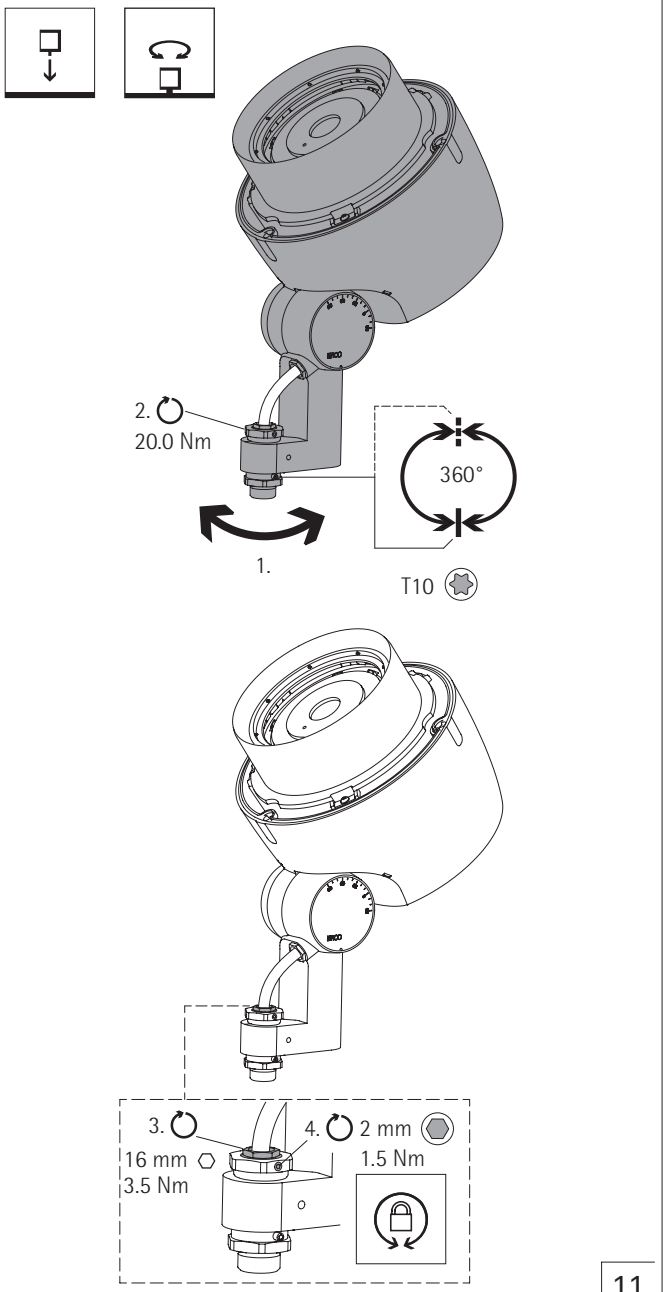
## Luminaire with G1/2 connection

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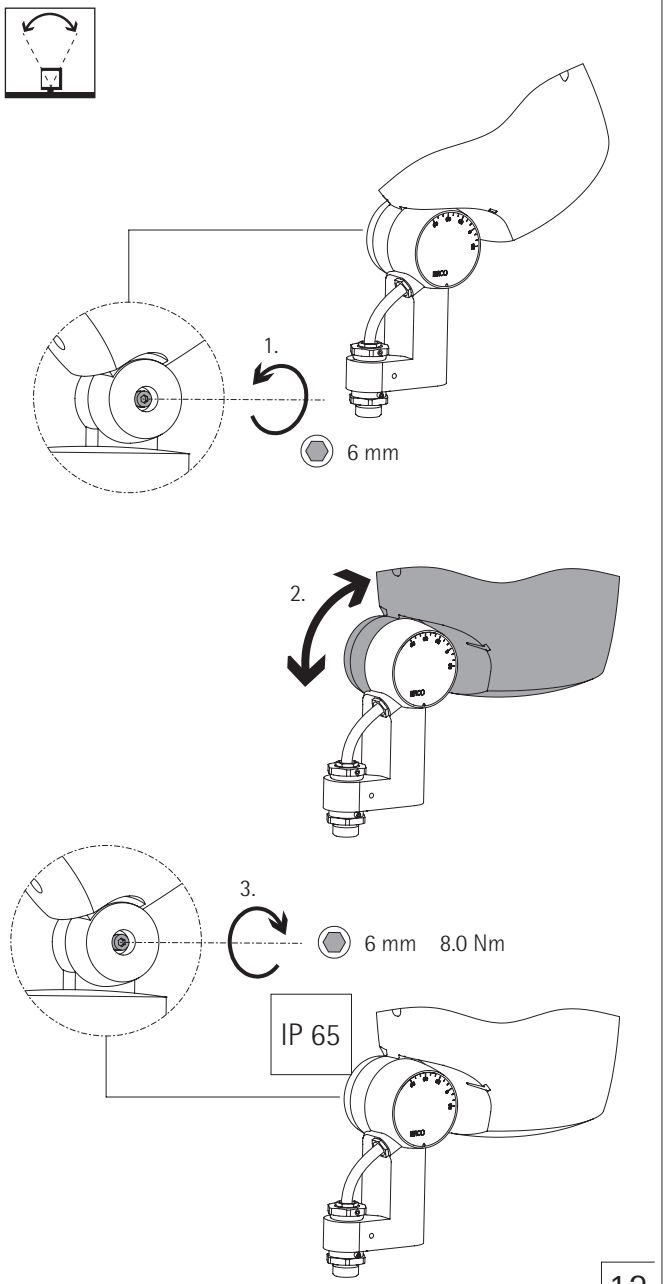
## Swivelling the luminaire

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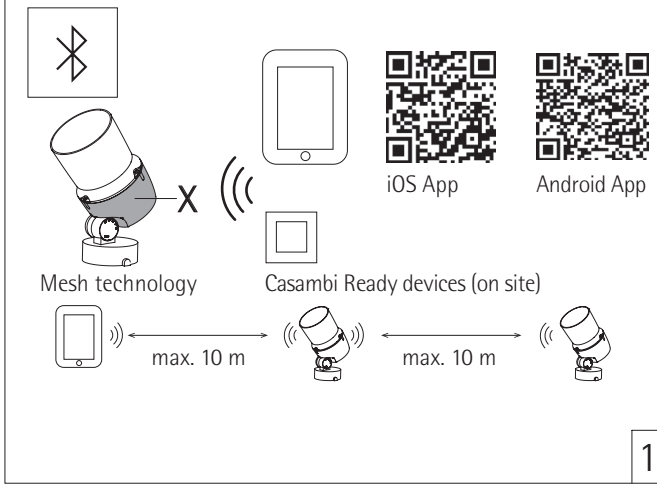
## Casambi Bluetooth
## Mounting the lens unit

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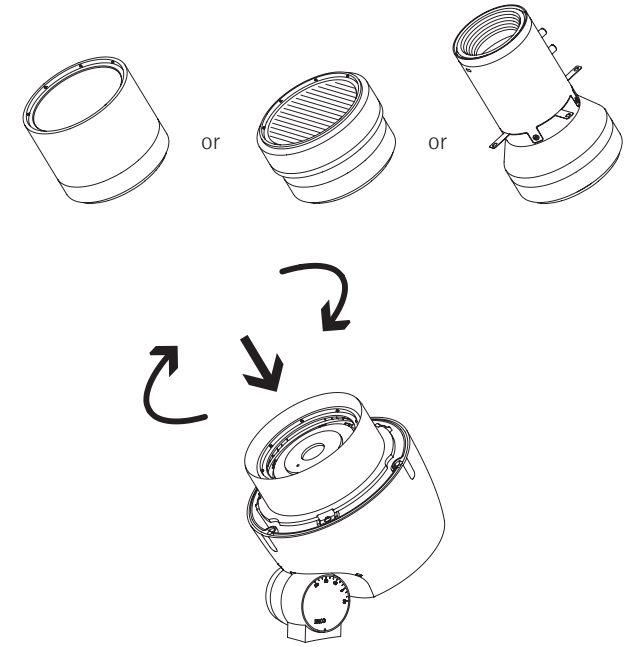


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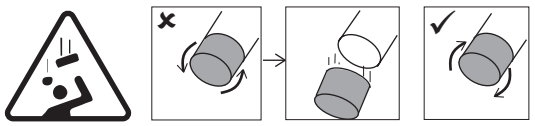
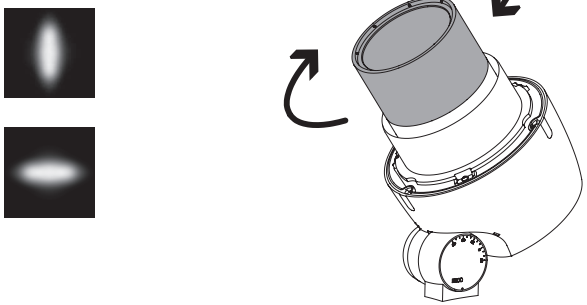
## Rotate light distribution

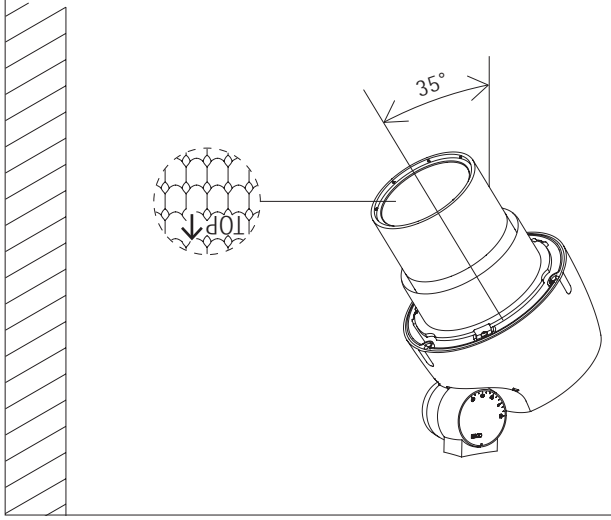


Oval flood
Oval wide flood



15

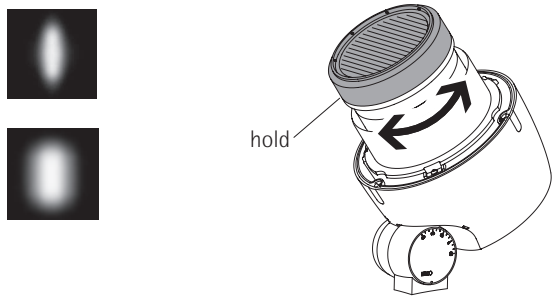
Wallwash

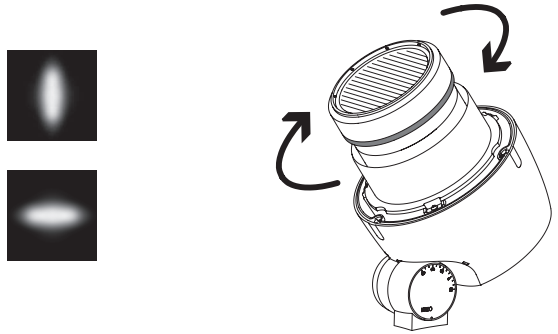



16

## Rotate light distribution

Zoom oval



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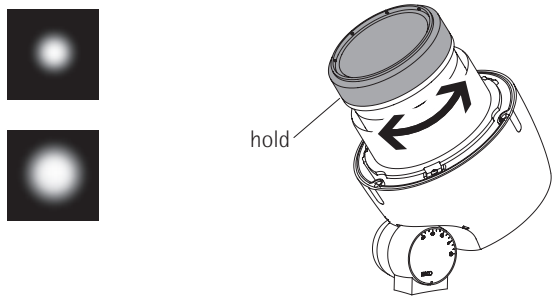
Zoom spot

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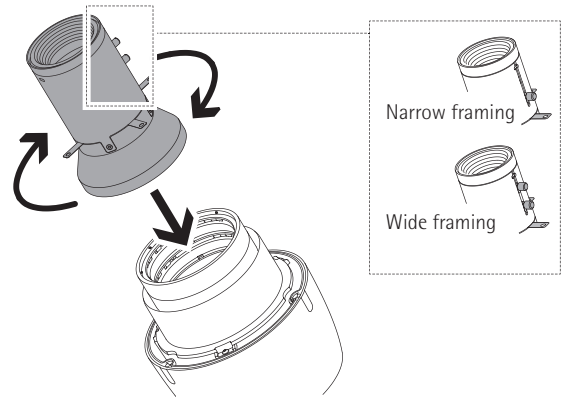
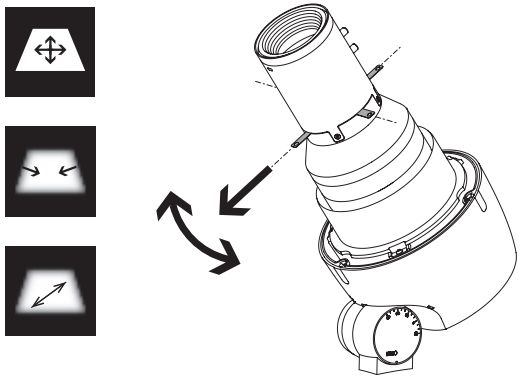
## Contour projector




19



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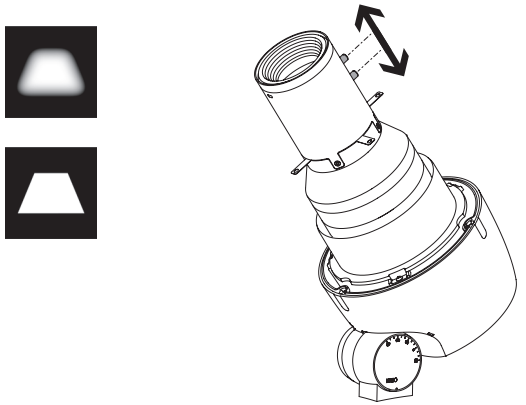
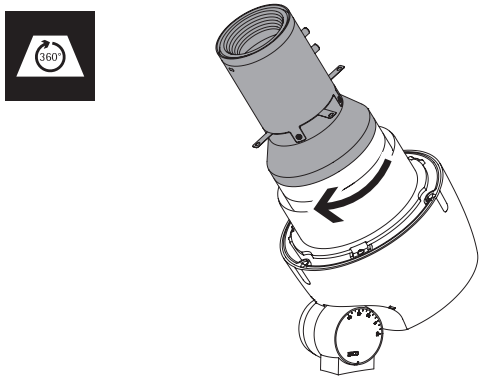


21

## Contour projector



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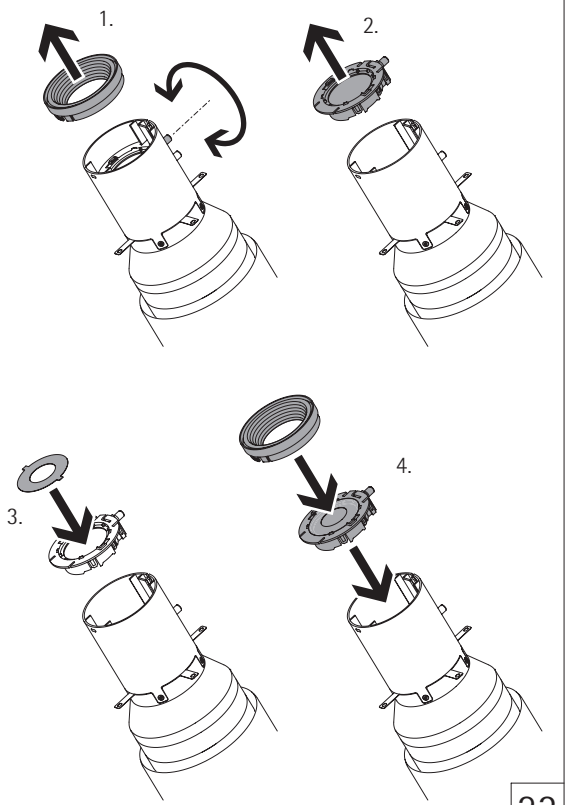
Optional

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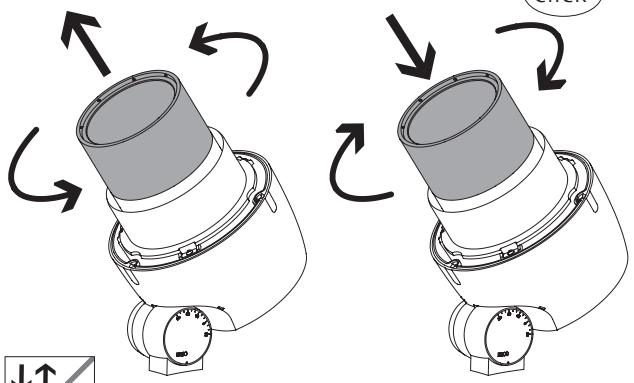
## Accessories

Lens Unit




Lens Unit

Lens units Framing und Narrow spot!

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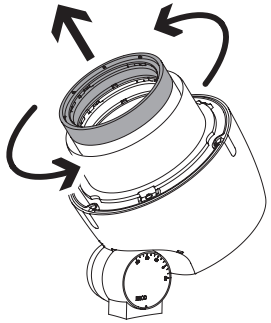
Filter
Lens

Step 1/2

Not needed, when
using filter or lens!



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## Accessories
## Closing the front cover

Filter
Lens

Step 2/2

**All light distributions except Narrow spot / Zoom / Framing:**

Lens: Position B

Filter: Position A
or
Filter: Position B

**Narrow spot / Zoom / Framing:**
Lens: --

Filter: Position A

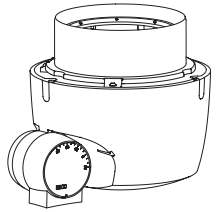
Maximum 1 piece!

**Position**

B

Lens unit

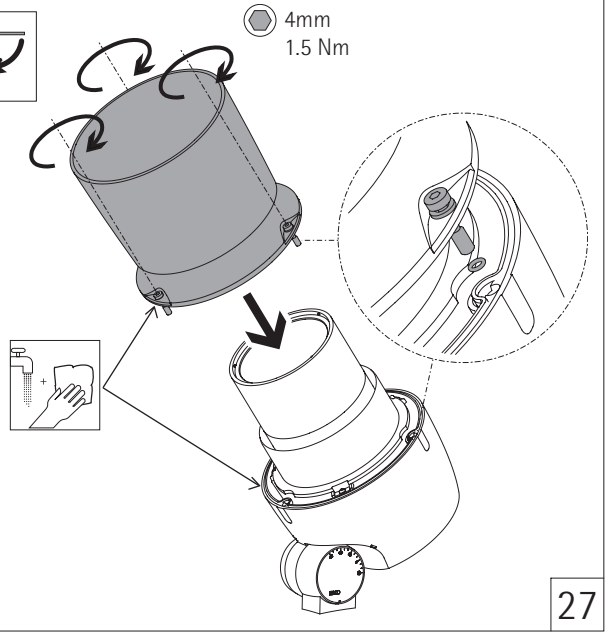
A



26

Nm

4mm
1.5 Nm



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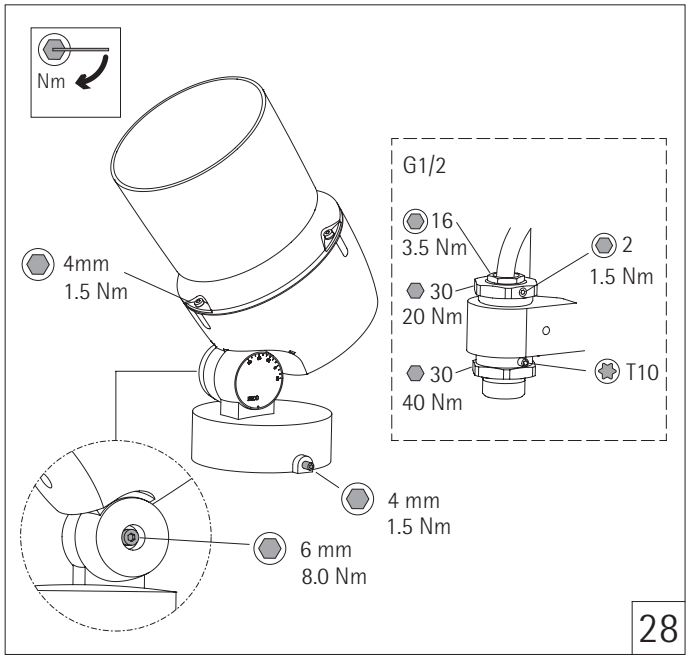
## Torques




## English

Follow all enclosed instructions during installation.

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Brockhauser Weg 80-82
58507 Lüdenscheid
Germany

Tel.: +49 2351 551 0
info@erco.com
www.erco.com

# Beamer

## Mounting instructions

3000070012
0326

## English

Follow all enclosed instructions during installation.

Read the instructions carefully before installation and commissioning!

Leave the instructions for users/ customers for future reference!

### General safety information

*Warning!*
*Risk of electric shock!*

Before carrying out maintenance and installation on the luminaire, disconnect from the mains supply and also from any other DALI control wiring, and ensure that all power is switched off.
- When mounting accessories, only use ERCO approved accessories and mount in the specified sequence. Otherwise, there is a risk of water entering the luminaire, causing a risk of electric shock and damaging the luminaire.
- Never operate luminaires with damaged connection cables. The connection cable may only be replaced by the manufacturer.
- Operating luminaires with damaged or missing protective glasses is not permitted.

*Warning! Danger from falling parts!*

Before working on the luminaire, ensure that no people are directly underneath it.

*Caution!*
*Blue light hazard!*

Position a luminaire marked with one of these pictograms so that extended gazing into the luminaire from a distance of less than xm should not be expected. Find the value for x in Figure 3.

*Attention!*
- The LED module and control gear of this luminaire may only be replaced or repaired by the manufacturer. In case of damage or failure of the LED module or control gear, the complete luminaire must be sent back to the factory.
- When installing, always observe the national installation and accident prevention regulations.

### Intended use

The luminaire is suitable for indoor and outdoor use and is approved for a mounting height greater than 15m. Dimensions (D), max. reference surface for wind loads (A) and weight (W) are documented in Figure 4.

### Scope of delivery (Figs. 1, 2)

1 luminaire, 1 lens unit, 1 attachment with safety glass, 3 sealing rings (only for luminaires with mounting plate)

### Choosing the mounting location

Position the luminaire so as to avoid operation in direct sunlight or near other sources of heat. High ambient temperatures can reduce the life and efficiency of the control gear or LED module.

### Overvoltage protection

ERCO uses electronic control gear with overvoltage protection in accordance with DIN EN 61547. If additional protection from spikes is required, e.g. When switching off inductive loads, separate overvoltage protection units should be installed.

### Notes on corrosion protection

Ensure that the powder coating is not damaged during installation or maintenance work. Any damage, which becomes wet, can result in corrosion occurring. In aggressive environments, the installation and maintenance of all parts will require the appropriate protective measures. Chemicals damage the corrosion protection.

### Torques

Do not exceed the maximum torques indicated in the drawings otherwise the luminaire may be damaged. Fig. 28 contains an overview.

### Luminaire with DALI control gear

- All cables, materials and devices used must be suitable for mains voltage, as the DALI signal is not transmitted using safety extra low voltage (SELV).
- The DALI control lines and mains cable are basic insulated from each other. Maintaining the designated insulation barriers of the luminaire or device may also depend on components/products externally connected to the control bus. This is the responsibility of the control system designer and not the luminaire or device manufacturer.

### Luminaire with Casambi Bluetooth (Figure 13)

- ERCO GmbH hereby declares that the luminaires with Casambi Bluetooth control are compliant with Directive 2014/53/EU and the UK SI 2017 No. 1206 - The Radio Equipment Regulations 2017. Radio operation is implemented on frequency bands 2402 – 2480 MHz with maximum transmission power of 4/8 dBm. The complete text of the certificates is available at the following internet address: www.erco.com/ article number
- For control of the luminaire you need a Bluetooth 4.0-capable smartphone or tablet and the Casambi app for iOS or Android downloadable for free in the specific app stores.
- Dense foliage or similar conditions impairs the Bluetooth signal and should be taken into account during planning. The area marked "x" in the illustration is not metallic. Do not cover this area for a good Bluetooth signal range.
- In typical applications, ERCO luminaires with Casambi achieve a range of d = 10m; under favourable conditions, ranges of up to 30m are possible. The range of the Casambi signal and the possible spacing between luminaires within a Casambi network depend on various factors, including obstacles, installation conditions, network parameters, other radio signals, luminaire orientation and weather conditions. Thanks to the Casambi mesh network, every active ERCO luminaire within the network acts as a signal repeater. As the number of Casambi luminaires increases, so too do the stability and range of the overall system. The permissible spacing between luminaires and the proper functioning of the Casambi network must be verified before installation. Owing to the factors mentioned above, ERCO cannot provide any guarantee in this regard.
- Information on the features, commissioning, programming and operation of a Casambi network is available at: https://support.casambi.com/support/home

We will be pleased to support you with your project. Please do not hesitate to contact us.

### Luminaires with RGBW / Tunable white

- Control via Casambi Bluetooth or DALI. A DALI system with colour management (device type 8) is required for control via DALI.
- When Tunable white luminaires are dimmed below 3% brightness, visible colour differences between individual luminaires may occur.

### Luminaire with mounting plate (Figs. 5-8)

The luminaire has different mounting options. It can be mounted directly on a load-bearing substratum. A wide range of accessories is also available for mounting, e.g. fixing parts for mast mounting or ground mounting.

*Mounting on concrete base*

See the drawn instructions.
Attention! When selecting the fixing material observe national standards and regulations valid for the installation location. Depending on the environment, also take corrosion resistance into account.
When fixing the luminaire on the mounting plate, do not exceed the maximum torque specified for stud bolts.

*Electrical connection*

Connect the plug connection according to the labelling.
Free terminals can be used for e.g. through-wiring.

*Rotating the luminaire (Fig. 8)*

*Warning! Danger from falling parts!*

Loosening the threaded pins may completely detach the luminaire from the mounting plate. To avoid accidents or damage, always hold the luminaire when the threaded pins are loosened.
For reasons of electrical safety, the luminaire can be rotated approx. 330°. Observe the graphical information in Fig. 5.

### Luminaire with G1/2 connection (Figs. 9-11)

The luminaire provides different mounting options. It has a ½" connection thread according to ISO 228 through which the connection cable can also be routed. Nuts or other mounting accessories must be provided on site.
The luminaire can be mounted directly on load-bearing substrata using the connection thread; mounting on masts and beams is also possible.

*Mounting*

See the drawn instructions.
1. Loosen the connection thread from the luminaire by unscrewing the upper nut.
2. Screw the dismantled connection thread firmly to a suitable base (on site) or to a mast (on site), as shown in Fig. 9. It is recommended to provide a screw lock (on site). Observe the specified torques.
3. Now put the luminaire back in place, align it approximately and fasten it with the upper fastening nut.
Note: The stud bolts in the upper fastening nut secure the fastening nuts against unintentional loosening. After screwing in the stud bolts, the fastening nut is very difficult to loosen. Therefore, do not screw in the stud bolts until the luminaire has been correctly aligned.
4. Guide the connection cable through the nut of the screw connection and the connection thread itself, or alternatively, insert it directly into a suitable connection box provided on site (Fig. 10). The connection cable is strain-relieved in the luminaire head. If necessary, provide strain relief at the connection box (on site). Ensure that the cable between the luminaire head and the connection thread is long enough for the luminaire head to move freely.
5. Make the electrical connection.
Assignment of the connection cable:
Brown - phase
Blue – neutral
Black and grey - DALI

*Rotating the luminaire (Fig. 11)*

1. Loosen the fastening nut slightly and turn the luminaire in the desired direction.
Note: If the rotation limitation prevents the desired alignment, it is possible to offset the lower stud screw by 180°.
2. Tighten the nut of the screw connection to the specified torque.

*Securing the luminaire head against unintentional rotation*
The stud bolts in the upper fastening nut secure the fastening nuts against unintentional loosening. After screwing in the stud bolts, the fastening nut is very difficult to loosen. Therefore, do not screw in the stud bolts until the luminaire has been correctly aligned.

Swivelling the luminaire (Fig. 12)
Loosen the screw on the joint and rotate the luminaire into the desired position. To ensure that the luminaire is watertight and to avoid unintentional displacing of the luminaire, tighten the screw to the specified torque.

Adjusting the lighting technology (Figs. 14-27)
Start with mounting the lens unit (Fig. 14).
The light distribution can be changed, framing, zoom and oval flood distributions can be set and filters can be mounted.
*Opening the luminaire*
In dry surroundings, remove the front cover with protective glass (Fig. 27).
Attention! Moisture penetration can destroy the electronic components and cause the inside of the cover glass to mist up when the luminaire is in operation.
*Changing the lens unit*
- Change the lens unit as shown in Fig. 24. The spacer ring must remain in position between the luminaire head and the lens unit. It ensures that the light emitted by the lens units comes as close as possible to the protective glass. If the spacer ring is omitted, the light distribution changes.
- Wallwasher lens unit: for optimum light distribution, ensure that the arrow mark on the lens always points towards the mounting plate (Fig. 16).
- Lens unit framing:
For settings see Figs. 19-22.
For sharp edges you may mount the included aperture (Fig. 23).
*Mounting filters*
Attention! Mount a maximum of one filter or lens, otherwise the luminaire cover can no longer be fitted watertight.
The spacer ring is not required when mounting filters or lenses.
For mounting and mounting position, see Figs. 25, 26.
*Closing the luminaire (Fig. 27).*
The cover and the lens unit or accessories must not touch each other.
Do not exceed the maximum torques indicated in the drawings, otherwise the luminaire head may be damaged.

Flashing of the LED module
It is normal for the LED module to flicker when switching on and off.

Cleaning
Always clean carefully using a soft cloth and a commercially available, ph-neutral, alcohol-free, non-abrasive cleaning agent. The powder coating must not be damaged.

Disposal
In accordance with EU Directive WEEE (Waste Electrical and Electronic Equipment), luminaires must not be disposed of with other household waste. At the end of their life, luminaires must be taken to the appropriate local facility available for the disposal or recycling of electronic products.