



## WE-EF LEUCHTEN

Installation and Maintenance  
Instructions

Inground Luminaire  
**ETC320-GB LED**



### **Surge Protection**

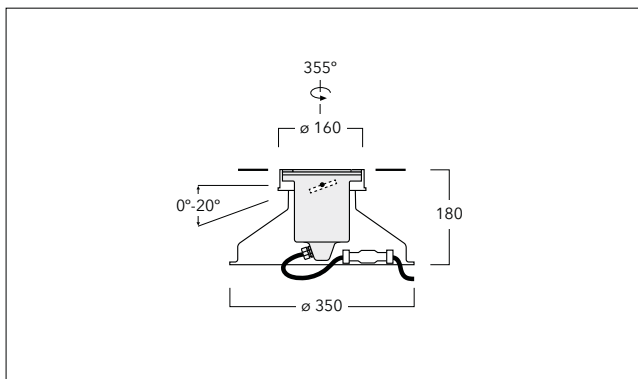
This product features built-in surge protection circuitry in compliance with applicable standards.

For comprehensive protection of a luminaire installation against lightning and electrical surges, it is essential to cover mains supply and data input lines at the distribution board level, by using respective primary (Type 1) and secondary (Type 2) surge arrestors in compliance with EN61643-11/ IEC61643-1.

### **Warning**

Ensure that all required surge protection measures are in place and activated prior to luminaire installation. Also, disconnect luminaires before operating high-power devices such as, for example, electrical arc welders.

# Inground Luminaire



IP69, Class I,  $t_a = 25^\circ\text{C}$

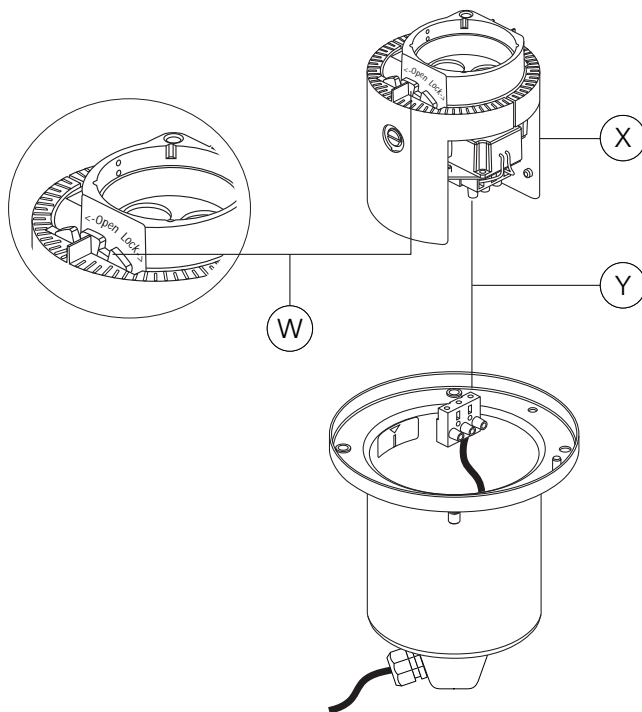


Fig. I

## Light Source

LED

## Maintenance

**Warning:** Do not open luminaire while mains supply is switched on.

- 1) Switch off mains electrical supply.
- 2) Remove cover and lens/gasket assembly. Clean all surfaces and ensure that threaded entries are free from dirt by using a wet cloth with mild detergent.
- 3) Check gasket for damage and replace if necessary.

**Attention:** In case of damage to the lens, the complete lens/gasket assembly must be replaced.

- 4) In case of damage to the LED, the complete gimbal module **X** must be returned to WE-EF for factory-maintenance (contact your authorised WE-EF agent for service). To remove the gimbal module proceed as follows (Fig. I):

a) Rotate wheel **W** (using a standard tool) in the direction of the 'open' mark until the gimbal module can be pulled out of the luminaire housing.

b) Detach terminal connector **Y** and remove gimbal module **X**.

c) Properly package gimbal module **X** and return to WE-EF for factory-maintenance.

**Attention:** During the factory-maintenance period, ensure both the luminaire cover and lens are secured in position.

- 5) To install gimbal module **X**, attach terminal connector **Y**. Set gimbal module **X** into luminaire housing. Rotate wheel **W** in the direction of the 'lock' mark until gimbal module **X** is firmly secure. Follow steps 11-16 to close the luminaire (see: Phase Two - Luminaire Installation, Electrical Connection, and Aiming Procedure).

Damaged mains supply cable: Contact your authorised WE-EF agent for replacement.

## Installation

The product must be installed and maintained by a suitably qualified professional in compliance with latest building/construction and/or electrical regulations and relevant legislation.

**Warning:** Switch off mains electrical supply prior to installing and connecting the luminaire.

**Notice:** If the luminaire is modified by anybody other than the original manufacturer, then the warranty will no longer be valid and shall become the full responsibility of the modifying person/organisation. Claims based on defects attributable to improper installation and/or application, and the consequences thereof, are excluded.

## Installation Methods

For proper installation, use the supplied installation blockout.

Ensure that proper drainage is provided for the shown installation methods:

In landscape/paved areas, sand or concrete with gravel base (Fig. I).

With fully concreted installation, drainage piping must be provided (Fig. II).

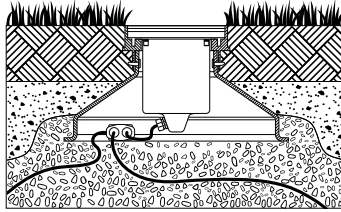


Fig. II

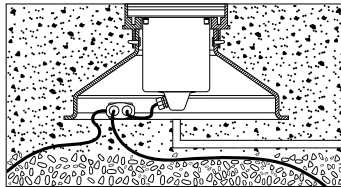


Fig. III

## Phase One

### Blockout Installation Procedure

(during earth or masonry work)

- 1) Ensure that proper drainage is provided for the shown installation methods.
- 2) Ensure a suitable recess is provided to accommodate installation blockout/mounting ring assembly **L/H**.
- 3) Test drainage (ensure water drains within 30 mins,

**Warning:** warranty void if luminaire installed without appropriate drainage).

- 4) Set installation blockout/mounting ring assembly **L/H** in position and ensure that:
  - a) Arrow **R** on mounting ring **H** is pointed towards the object to be illuminated (wall, tree, column).
  - b) Mounting ring **H** is flush with surface **F**.If the floor will be tiled or paved afterwards, leave an appropriate gap.
  - c) Mains supply cable(s) **O** is of sufficient length to connect sealable junction box **J** with cable **N** from luminaire.

- 5) During ongoing earth and/or masonry works, do not remove screws **M** from mounting ring **H**. Ensure that installation blockout/mounting ring assembly **L/H** is not damaged and has maintained its original shape. If necessary use a cover plate.
- 6) Framing should be installed to prevent vegetation from growing over the lens.

## Phase Two

### Luminaire Installation, Electrical Connection, and Aiming Procedure

- 7) Switch off mains electrical supply.
- 8) Check that rating shown on luminaire label conforms with mains electrical supply.
- 9) Remove screws **M** from mounting ring **H**.
- 10) Terminate cable **N** and mains supply cable **O** in sealable junction box **J** and connect leads to respective terminals:
  - a) ON/OFF or wireless (L = Phase, N = Neutral, ⊕ = Earthing)
  - b) 1-10 V/DALI (L = Phase, N = Neutral, ⊕ = Earthing, DA/DA = DALI control line, D-/D+ = 1-10 V control line).Please refer to instruction inside SJB packaging.
- 11) Remove cover **A** and lens/gasket assembly **B** by loosening screws **D**.
- 12) Set cables and sealable junction box **J** inside installation blackout **L**.
- 13) Place luminaire housing **C** into installation blackout/mounting ring assembly **L/H**. Secure luminaire with mounting ring **H** by tightening screws **M**.  
**Warning:** When luminaire is placed inside installation blackout **L**, ensure there is no stress on sealable junction box **J** or electric cables (Fig. IV).

### Aiming of gimbal

- 14) Insert a standard tool into a slot on locking wheel **W**. Rotate locking wheel **W** in the 'OPEN' direction until gimbal can be moved (Fig. V).  
**To horizontally aim the gimbal**  
(Rotation 355°)  
Hold fins **E** to rotate the gimbal.  
**To vertically aim the gimbal**  
(Tilt 0-20°)
  - a) Insert screw driver into hole **T**.
  - b) Adjust gimbal to desired angle (Refer to protractor scale **U**).**Note:** Angle can be adjusted in 2° increments.
- 15) Insert screw driver into a slot on locking wheel **W**. Rotate locking wheel **W** in the 'LOCK' direction until the gimbal is firmly secured (Fig. V).  
**Warning:** Do not tighten more than necessary to secure gimbal.
- 16) Ensure that all surfaces are clean and dry. Reposition lens/gasket assembly **B**, cover **A** and screws **D** on luminaire housing **C**.  
**Note:** Ensure that orientation pin **P** is align with hole **Q** in gasket (Fig. VI).
- 17) Switch on mains electrical supply and operate light source for approximately 30 minutes to dry any moisture.  
**Attention:** Do not switch off LED before luminaire is properly sealed.
- 18) Secure cover **A** as follow:
  - a) Partially secure screws **D** in criss-cross sequence (Fig. VII) starting from position 1.
  - b) Tighten screws **D** in same sequence.
  - c) Fully tighten screws **D** in same sequence again, using torque 3 Nm.

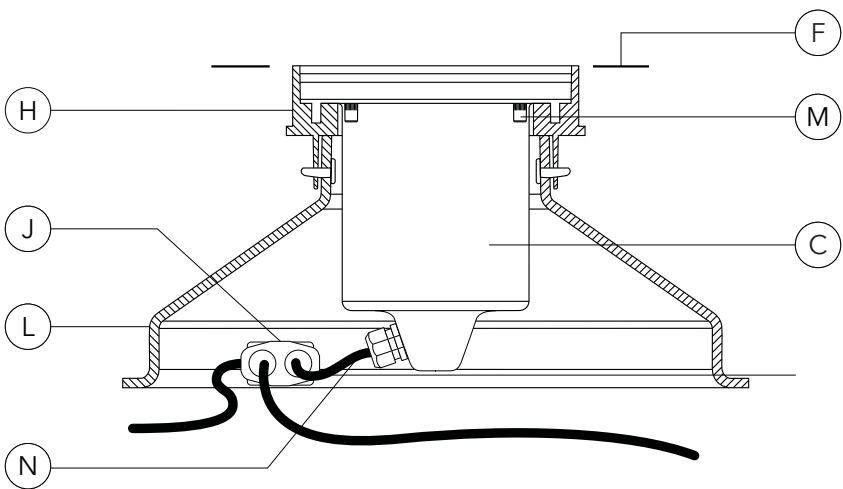
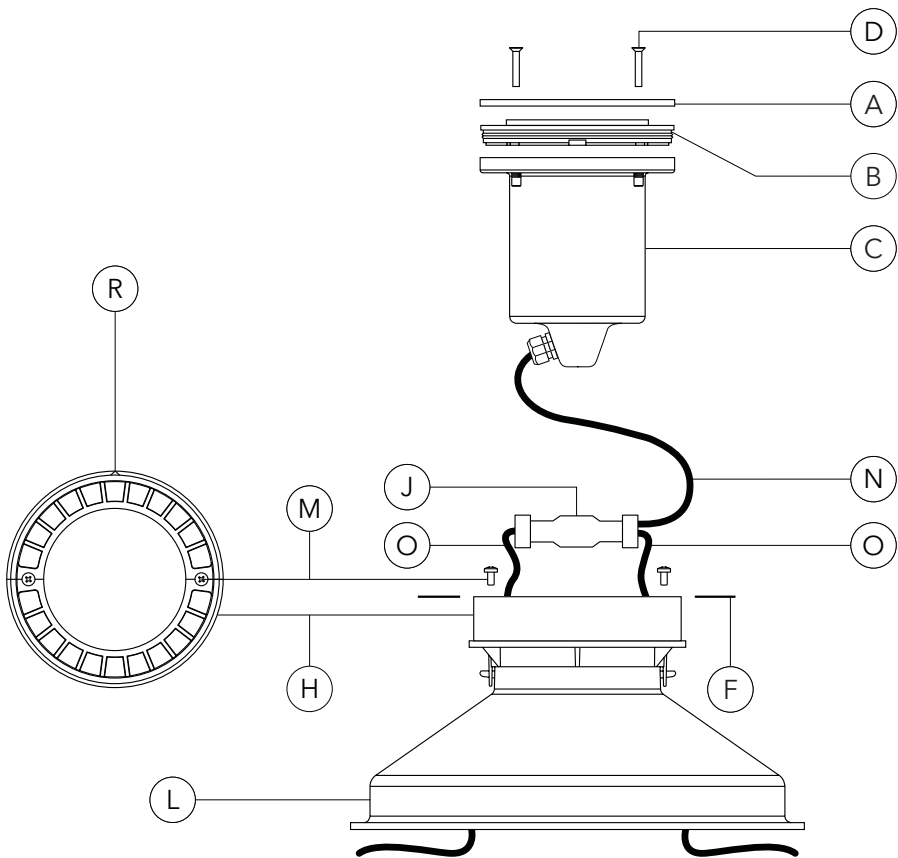


Fig. IV

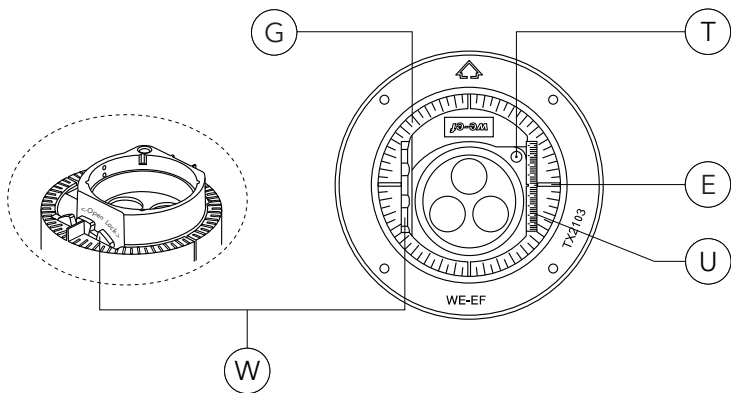


Fig. V

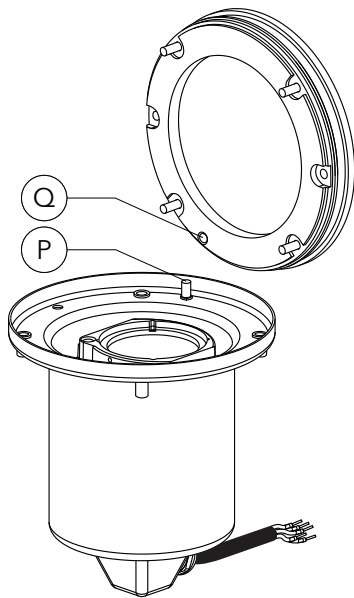


Fig. VI

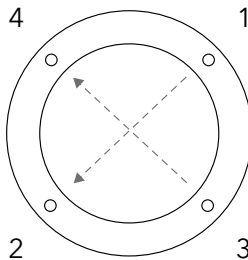


Fig. VII



# **we-ef**

**www.we-ef.com**

## **WE-EF LEUCHTEN**

Germany

Tel +49 5194 909 0

Fax +49 5194 909 299

info.germany@we-ef.com

## **WE-EF LUMIERE**

France

Tel +33 4 74 99 14 44

Fax +33 4 74 99 14 40

info.france@we-ef.com

## **WE-EF SWITZERLAND**

Switzerland

Tel +41 22 752 49 94

Fax +41 22 752 49 74

info.switzerland@we-ef.com

## **WE-EF LIGHTING**

Thailand

Tel +66 2 738 9610

Fax +66 2 175 2174

info.asiapacific@we-ef.com

## **WE-EF LIGHTING**

Australia

Tel +61 3 8587 0444

Fax +61 3 8587 0499

info.australia@we-ef.com

## **WE-EF LIGHTING**

United States of America

Tel +1 724 742 0030

Fax +1 724 742 0035

info.usa@we-ef.com

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Technical specifications are  
subject to change.