

Safety Notice

The manufacturer is discharged from liability when damage is caused by improper use or installation.

If any luminaire and/or accessory is subsequently modified, the persons responsible for the modification shall be considered as manufacturer.

we-ef

WE-EF LIGHTING

Installation and
Maintenance Instructions for
Marker Lights
with Installation Blockout

ETC109 LED



we-ef

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ETC109_270422 / 006-0716

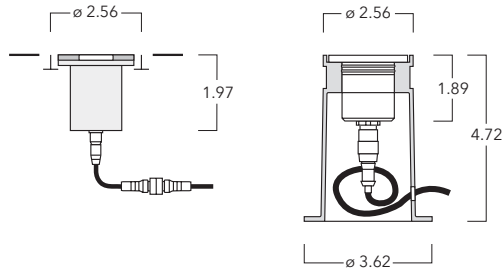
Technical specifications are subject to change.

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Marker Lights with Installation Blockout

IP68, IK09

ETC109



Light Source

1 x 4 LEDs 0,5 VA / 12V DC

unicolour red, green, blue, yellow or white

3 x 4 LEDs 1,2 VA / 12V DC

tricolour red, green and blue

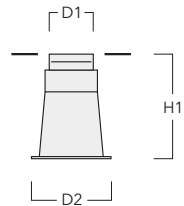
Class III, ta 35°C

Glass surface temperature approx. 3°C above

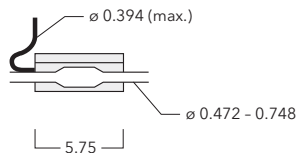
ambient temperature

Installation Accessories

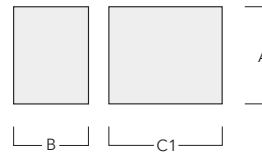
Installation Blockout	lb	Electronic converter	A	B	C1
185-1855 D1 = 2.56 / D2 = 3.74 / H = 4.72	0.66	139-6900 TVE-DC - 12V / 12W	9.14	6.38	5.51
		139-6901 TVE-DC - 12V / 25.5W	9.14	6.38	5.51
Sealable junction box		139-6902 TVE-DC - 12V / 60W	11.50	9.92	8.66
185-1624 SJB130	0.88				



BET - 185-1855



SJB130 - 185-1624



TVE - 139-6900 / 139-6901 / 139-6902

Installation

The luminaire should be installed and maintained by a suitably qualified person in compliance with the latest construction and electrical regulations and relevant legislation.

During checking of the installation location the maximum temperature on the outer lens should be considered. The temperature is shown on the identification label.

Suitable for Drive-over at low speeds and high pressure tires, up to 5 tonnes.

The luminaire should not get covered partially or completely. Dirt on the lens has to get removed.

Do not open the luminaire in humid conditions or during rain. This will result in condensation forming inside the luminaire.

Maintenance

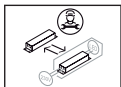
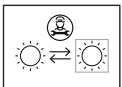
Apart from cleaning the product's exterior surfaces, no special maintenance work is required. Do not use high-pressure cleaners.

Protect our environment: Discard used LEDs in compliance with the most recent environmental legislation.

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.

In case of component failure due to abnormal circumstances or at end of life, replacement must be carried out by a suitably qualified and trained professional.

In case of questions please contact our technical hotline at +1 724 742 0030 (Monday - Friday from 08:00 until 16:00 hours).



Installation Methods with BET

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

- 1) In landscaped areas (soil with gravel base), **fig. 1**
- 2) In paved areas (concrete with gravel base), **fig. 2**

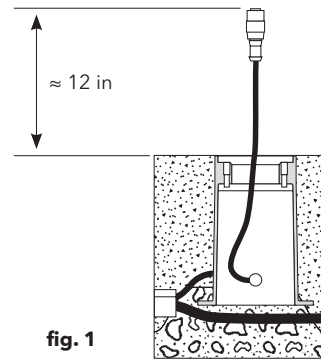


fig. 1

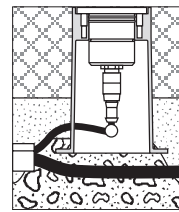
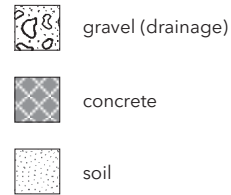


fig. 2



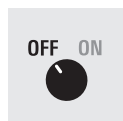
- 3) Determine position of installation blockout **A**.
Ensure the following details:

- a) the connecting cable **B** must be inserted into the installation blockout **A** in that way, that the plug can get extracted out of the installation blockout for approx. 12 in for connection of luminaire.
- b) the upper rim installation blockout **E** must be installed in that way, that it is flush with the soil, basement or similar.

Attention: In case tiles or paving blocks will be paved at a later time, a respective admeasure has to be considered.

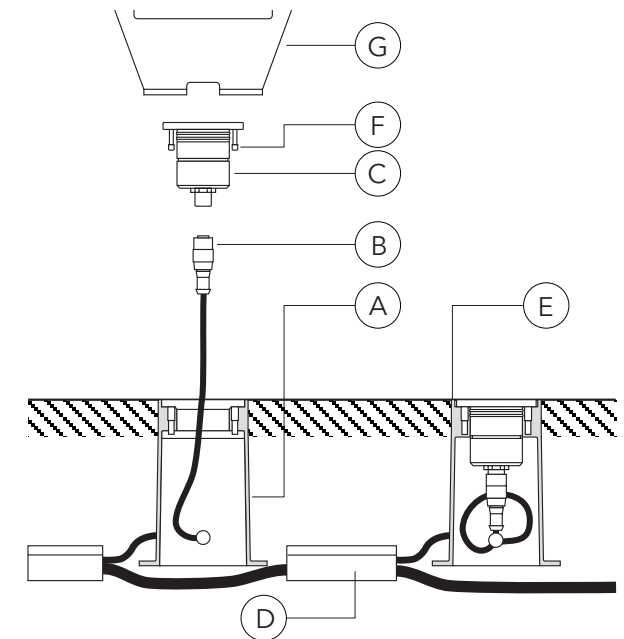
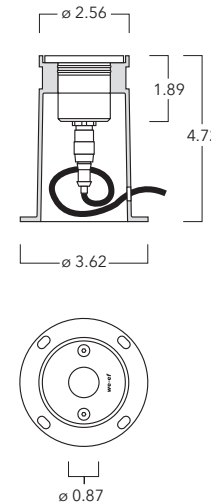
Phase Two (Electrical connection, aiming)

- 4) Switch off mains electrical supply. ⚡



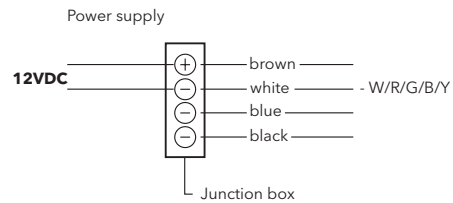
- 5) Check that rating shown on luminaire label conforms with mains electrical supply.

we-ef 02/19 IP68 CE
ETC109 12V DC
185-XXXX → SOE XXXXXXX
LED 0,5 - 1,5W item no. XXX

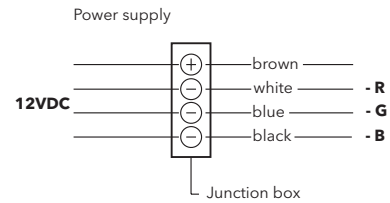


- 6) Connect the connection cable **B** outside of the installation blockout with a sealable junction box (WE-EF 185-1624). Hereby the service conduit gets connected according wiring diagram.

Wiring diagram uni-colour (W/R/R/B/Y)



Wiring diagram multicolour (RGB)



- 7) Inground uplights with LED can get operated with the light control WE-EF CONTROL in combination with the control module UDM. Here the power supply is done via the control module. The luminaire 185-1562 (RGB) shall get operated generally with control module UDM!

All cables must get sealed in the junction box **D** in any case.

In case a 12V DC power supply is available, no power unit is necessary.

- 8) Ensure that installation blockout **A** is protected from damage during continuing earth or masonry works. To avoid dirt close the blockout with the provided blanking plug (WE-EF 185-1850). Only an undamaged blockout guarantees a trouble-free installation of inground uplights.

LED Replacement and Maintenance

Warning: Do not open luminaire while in operation or while mains supply is switched on!

- 1) Switch off the mains electrical supply.
- 2) Loosen screws **F** and pull luminaire out upwards with help of a mounting lever **G** (WE-EF 185-1438). Disconnect luminaire from connection cable **B**. Equip connection cable with a corresponding plug to protect it from dirt.
- 3) Open luminaire only in dry condition Disconnect LEDs from the connection cable and carefully take them out. Insert new circuit board.
- 4) Check gaskets of functionality and exchange if necessary.
- 5) Close luminaire. Connect it to connection cable **B**. Hold down luminaire at the knurling during connection.
- 6) Insert luminaire into the installation blockout as described under phase 3.

Phase 3

(Installation of luminaire)

- 9) Inground uplights are supplied with integrated circuit board, it is not necessary to open the luminaire.
- 10) Remove safety cap from the connection plug **B** and connect it to the luminaire **C**. While tightening of the plug hold down luminaire at knurling.
- 11) Insert the luminaire into the inground uplight **A** in that way, that the fixing screws **F** lock in position inside fixing holes of the inground uplight. Push luminaire inside installation blockout and hand tighten the fixing **F** screws.