

BEGA 85 154 Performance Floodlight



BEGA 85 154 Performance Floodlight Instruction Manual

[Home](#) » [BEGA](#) » BEGA 85 154 Performance Floodlight Instruction Manual 

Contents

- [1 BEGA 85 154 Performance Floodlight](#)
- [2 Product Usage Instructions](#)
- [3 DIMENSION](#)
- [4 Instructions for use](#)
- [5 Product Description](#)
- [6 Safety](#)
- [7 Installation](#)
- [8 SPECIFICATION](#)
- [9 Cleaning and Maintenance](#)
- [10 Replacing the LED module](#)
- [11 Accessories](#)
- [12 FAQ](#)
- [13 Documents / Resources](#)
 - [13.1 References](#)
- [14 Related Posts](#)

BEGA

BEGA 85 154 Performance Floodlight



Specifications

- Luminaire made of aluminum alloy, aluminum, and stainless steel
- Silicone gasket with reflector surface made of pure aluminum
- **LED power supply unit:** 220-240 V x 0/50-60 Hz DC 176-280 V
- DALI-controllable with one DALI address
- Safety class I, Protection class IP 65
- Impact strength IK06
- **Weight:** 1.3 kg
- **Energy efficiency class:** E

Product Usage Instructions

Safety Precautions

The installation and operation of the luminaire must adhere to national safety regulations. Only a qualified electrician should handle installation and commissioning to prevent damage due to improper use or installation. Any modifications made to the luminaire should be the responsibility of the modifier.

Mounting Instructions

Ensure proper torque for connections to prevent loosening. Secure screw connections and check the earth conductor connection.

Anzugsdrehmomente: Innensechskantschraube = 7 Nm, Sechskantmutter = 35 Nm. Torque hexagon socket screw = 7 Nm.

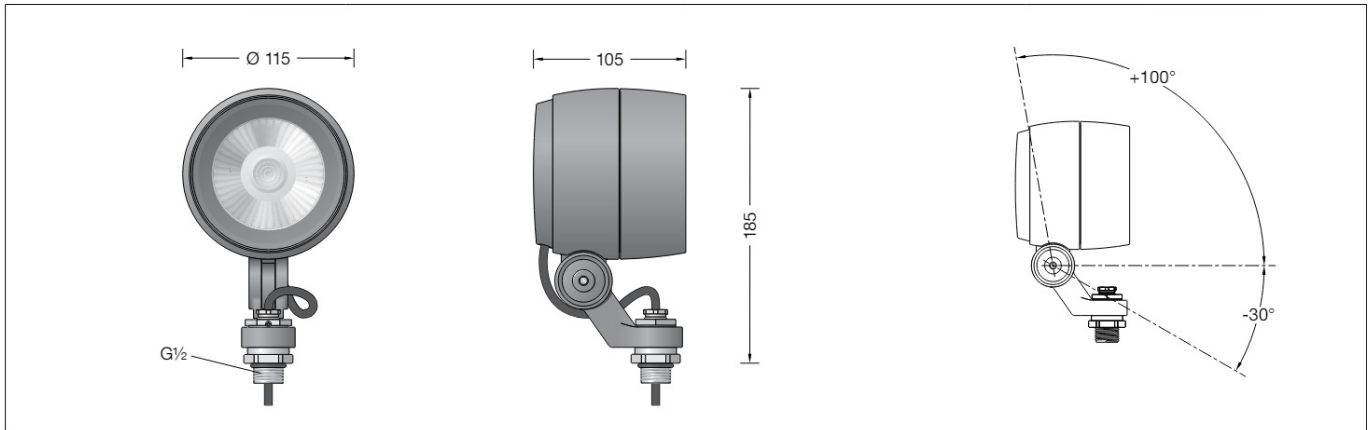
Electrical Connection:

Connect the electrical components with matching protection class and safety class. Ensure strain relief and use suitable connection terminals at the luminaire power supply cable. Follow the correct wire configuration: green-yellow (1) for the earth conductor, brown (L) for phase, and blue (N) for the neutral conductor.

Control Cables Connection:

Connect control cables using leads marked with DALI. If unused, secure them appropriately to prevent any hazards.

DIMENSION



Instructions for use

Application

Performance floodlight with G $\frac{1}{2}$ mounting bush.

The floodlight can be bolted together with any female thread G $\frac{1}{2}$ according to ISO 228 supplied by others or to BEGA accessories. For a variety of interior and exterior lighting applications.

Product Description

- Luminaire made of aluminum alloy, aluminum, and stainless steel
- BEGA Unidure® coating technology
- Color graphite or silver
- Clear safety glass
- Silicone gasket
- Reflector surface made of pure aluminum BEGA Hybrid Optics®
- The rotation range of floodlight is 350°
- Swivel range -30°/+100°
- Mounting bracket with G $\frac{1}{2}$ threaded connection
- Thread length: 14 mm
- Connecting cable X05BQ-F 5 G 1 mm²
- Cable length 1 m
- BEGA Ultimate Driver®
- Complies with flicker requirements by IEEE 1789,
- DIN IEC/TR 63158, DIN IEC/TR 61547-1 LED power supply unit 220-240 \sim x 0/50-60 Hz
- DC 176-280 V
- DALI-controllable

- Number of DALI addresses: 1
- Basic insulation is provided between the mains and control cables
- BEGA Thermal Control®
- Temporary thermal regulation to protect temperature-sensitive components without switching off the luminaire
- Safety class I
- Protection class IP 65
- Dust-tight and protection against water jets Impact strength IK06
- Protection against mechanical
- impacts < 1 joule
- CE Conformity mark
 - **Wind catching area:** 0.014 m²
 - **Weight:** 1.3 kg
- This product contains light sources of energy efficiency class(es) E

Safety

- The installation and operation of this luminaire are subject to national safety regulations. Installation and commissioning may only be carried out by a qualified electrician.
- The manufacturer accepts no liability for damage caused by improper use or installation. If subsequent modifications are made to the luminaire, the person responsible for these modifications shall be considered the manufacturer.

Installation

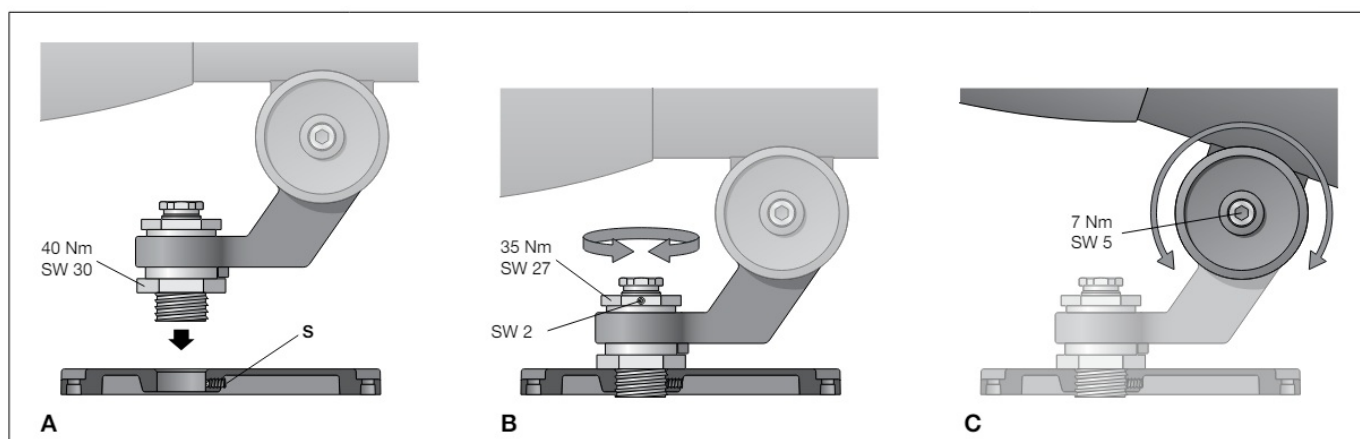
- Screw the floodlight G $\frac{1}{2}$ threaded connection firmly into the on-site G $\frac{1}{2}$ female thread or BEGA accessory.
- G $\frac{1}{2}$ threaded connection torque = 40 Nm. Secure the screw connection from loosening on site (if provided with locking screw S, see fig. A).
- Check the earth conductor connection between the G $\frac{1}{2}$ threaded connection and the on-site G $\frac{1}{2}$ female thread.

Adjust floodlight

- Undo the hexagon socket screw (wrench
- size 5 mm) and hexagon nut (wrench
- size 27 mm) and set the desired beam direction (see sketches B, and C).

Torque

- **Hexagon socket screw** = 7 Nm
- **Hexagon nut** = 35 Nm
- Secure bolted connection G $\frac{1}{2}$ against loosening by tightening the hexagon socket screws (wrench size 2 mm).



The electrical connection must be carried out with matching protection class and safety class, strain-relieved, with suitable connection terminals (not included in the scope of delivery) at the luminaire power supply cable.

Note the correct configuration of the main supply cable. The earth conductor is connected at the green-yellow (⏚), the phase to the brown (L), and the neutral conductor to the blue (N) marked wire.

The connection of the control cables is achieved using both leads marked with DALI. In case these leads are not used the luminaire will be operated at full light output.

Overvoltage protection

- The electronic components installed in the luminaire are protected against overvoltage under DIN EN 61547.
- To achieve additional protection against e. g. transients, etc. we recommend separate overvoltage protection components.
- You can find them on our website at: www.bega.com.
- The ideal protection of all electronic components installed in the luminaires is achieved by using bounce-free switching contacts such as an electronic relay (solid-state relay), e.g. BEGA 71 320.

SPECIFICATION

Lamp

- Module connected wattage 10.2 W
- Luminaire connected wattage 11.8 W
- Rated temperature $t_a = 25\text{ °C}$
- Ambient temperature $t_a \text{ max} = 50\text{ °C}$

85 154 K3

- Module designation LED-1148/930
- Color temperature 3000 K
- Color rendering index CRI > 90
- Module luminous flux 1500 lm
- Luminaire luminous flux 1098 lm
- Luminaire luminous efficiency 93,1 lm / W

85 154 K4

- Module designation LED-1148/940
- Color temperature 4000 K
- Color rendering index CRI > 90
- Module luminous flux 1575 lm
- Luminaire luminous flux 1153 lm
- Luminaire luminous efficiency 97,7 lm / W

Light technique

- Symmetrical wide beam light distribution Half beam angle 20°
- For special lighting applications, an optical filter can be used to change the symmetrical light cone into a flat beam light distribution.

Cleaning and Maintenance

- Clean the luminaire regularly with solvent-free cleansers from dirt and deposits.
- Do not use high-pressure cleaners.

Maintenance

The connecting cable between the mounting box and floodlight has to be inspected for obvious damages and has to be replaced by a qualified electrician only

Please note

- Do not remove the desiccant bag from the luminaire housing.
- It is needed to remove residual moisture.

Replacing the LED module

- The designation of the LED module is noted on a separate label in the luminaire or on the underside of the specific LED module.
- The light color and light output of BEGA replacement modules correspond to those of the modules originally fitted. The replacement can be carried out by a qualified person using standard tools.
- Disconnect the system from the power supply. Open the floodlight:
- Remove the trim ring along with the safety glass and reflector by twisting it anti-clockwise. Replace the LED module.
- Please follow the installation instructions for the LED module.
- Inspect and, if necessary, replace the luminaire gaskets.
- The defective glass must be replaced.
- Place the trim ring with glass and reflector on the floodlight housing so that the notches in the trim ring and luminaire housing sit on top of each other.
- Twist on the trim ring clockwise as far as the stop.

Accessories

- 71 289 Optical filter flat beam
- 71 331 Shield
- 71 336 Cylindrical shield
- 70 214 Pole cap for pole ø 48 mm
- 70 248 Pole cap for pole ø 60 mm
- 70 245 Mounting box
- 70 252 General fastener
- 70 280 Tube clamp G½
- 70 283 Screw clamp
- 70 379 Crossbeam G½
- 70 889 Tension belt

For the accessories, separate instructions for use can be provided upon request.

Spares

- Trim ring graphite with glass 25 000 273
- Trim ring silver with glass 25 000 274
- LED power supply unit DEV-0515/300i
- LED module 3000 K LED-1148/930
- LED module 4000 K LED-1148/940
- Reflector 75 005 130
- Gasket housing 83 000 486
- Gasket trim ring 83 002 169

MORE INFORMATION

- BEGA Gantenbrink-Leuchten KG · Postfach 31 60
- 58689 Menden
- info@bega.com
- www.bega.com

FAQ

- **Q: Can the luminaire be used for both interior and exterior lighting applications?**
 - A: Yes, the luminaire is suitable for a variety of interior and exterior lighting applications.
- **Q: What is the weight of the luminaire?**
 - A: The luminaire weighs 1.3 kg.

Documents / Resources



[BEGA 85 154 Performance Floodlight](#) [pdf] Instruction Manual
85154K3, 85154K4, 85 154 Performance Floodlight, 85 154, Performance Floodlight, Floodlight

References

- BEGA **[BEGA · Das gute Licht.](#)**
- **[User Manual](#)**

[Manuals+](#), **[Privacy Policy](#)**

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.