



BEGA 85153K4 Performance Floodlight Instruction Manual

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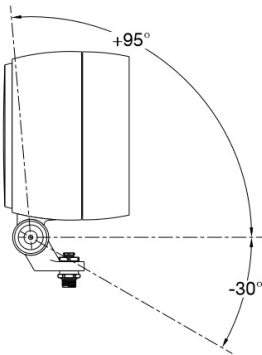
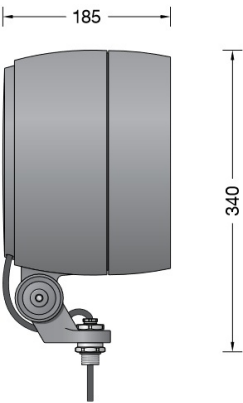
BEGA 85153K4 Performance Floodlight Instruction Manual

BEGA

85 153

Performance floodlight

  IP 65



Instructions for use

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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 aluminium alloy, aluminium and stainless steel

BEGA Unidure® coating technology

Colour graphite or silver

Matt safety glass

Silicone gasket

Reflector surface made of pure aluminium

BEGA Hybrid Optics®

Rotation range of floodlight 350°

Swivel range -30°/+95°

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 in accordance with IEEE 1789,

DIN IEC/TR 63158, DIN IEC/TR 61547-1

LED power supply unit 220-240 V x 0/50-60 Hz

DC 176-264 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 IK08

Protection against mechanical impacts < 5 joule

CE – Conformity mark

Wind catching area: 0.053 m²

Weight: 5.9 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.

Overvoltage protection

The electronic components installed in the luminaire are protected against overvoltage in accordance with DIN EN 61547.

To achieve an 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.

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:

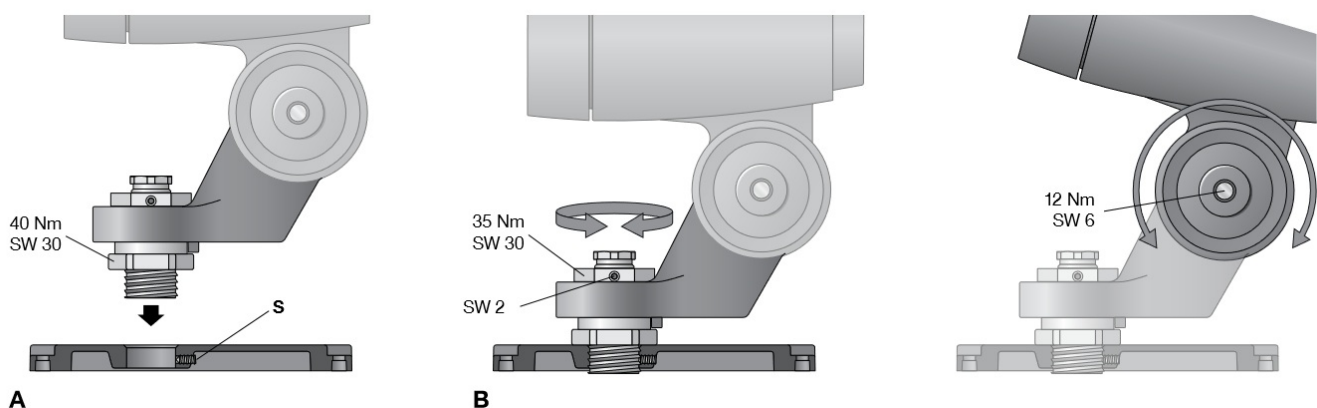
Undo hexagon socket screw (wrench size 6 mm) and hexagon nut (wrench size 30 mm) and set the desired beam direction.

Torque:

Hexagon socket screw = 12 Nm

Hexagon nut = 35 Nm

Secure bolted connection G $\frac{1}{2}$ against loosening by tightening the hexagon socket screw (wrench size 2 mm, see sketch **B**).



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

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

Lamp

Module connected wattage 72.9 W

Luminaire connected wattage 78 W

Rated temperature $t_a = 25\text{ }^{\circ}\text{C}$

Ambient temperature $t_{a\text{ max}} = 35\text{ }^{\circ}\text{C}$

85 153 K3

Module designation LED-0877/930

Colour temperature 3000 K

Colour rendering index CRI > 90

Module luminous flux 9980 lm

Luminaire luminous flux 4987 lm

85 153 K4

Module designation LED-0877/940

Colour temperature 4000 K

Colour rendering index CRI > 90

Module luminous flux 9830 lm

Luminaire luminous flux 5063 lm

Luminaire luminous efficiency 64,9 lm / W

Luminaire luminous efficiency 63,9 lm / W

Lighting technology

Focused light distribution with minimal diffuse light percentage.

Half beam angle 11°

For special lighting applications, an optical filter can be used to change the symmetrical light cone into a flat beam light distribution.

Cleaning · Maintenance

Clean luminaire regularly with solvent-free cleansers from dirt and deposits.

Do not use high pressure cleaners.

Maintenance

The connecting cable between mounting box and floodlight has to be inspected regarding 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 colour and light output of BEGA replacement modules correspond to those of the modules originally fitted. The module can be replaced by qualified persons using standard tools.

Disconnect the system.

Open the floodlight:

Undo locking pin (hexagon socket head wrench size 2.5 mm) on the back side of the floodlight housing.

Remove the trim ring along with the safety glass and reflector by twisting it counter-clockwise.

Replace LED module.

Please follow the installation instructions for the

LED module.

Inspect and, if necessary, replace the luminaire gaskets.

Defective glass must be replaced.

Place trim ring with glass and reflector on the floodlight housing in such a way that the notches in the trim ring and floodlight housing align on top to each other.

Twist on the trim ring clockwise as far as the stop. Tighten locking pin.

Accessories

71 292 Optical filter flat beam

71 334 Shield

71 339 Cylindrical shield

70 214 Pole cap for pole top ø 48 mm

70 248 Pole cap for pole top ø 60 mm

70 249 Pole cap for pole top ø 76 mm

70 229 Pole cap for pole top ø 82 mm

70 245 Mounting box · rectangular

70 280 Tube clamp

70 379 Cross beam

70 889 Lashing strap

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

Spares

Trim ring graphite with glass **25 000 256**

Trim ring silver with glass **25 000 257**

LED power supply unit **DEV-0356/1400i**

LED module 3000 K **LED-0877/930**

LED module 4000 K **LED-0877/940**


Reflector **75 004 998**

Gasket housing **83 001 780**

Gasket trim ring **83 002 225**

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Documents / Resources

	<p>BEGA 85153K4 Performance Floodlight [pdf] Instruction Manual 85153K4, 85153K3, 85153K4 Performance Floodlight, Performance Floodlight, Floodlight</p>
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References

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

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