BEGA 85 160 Performance Floodlight Instruction Manual

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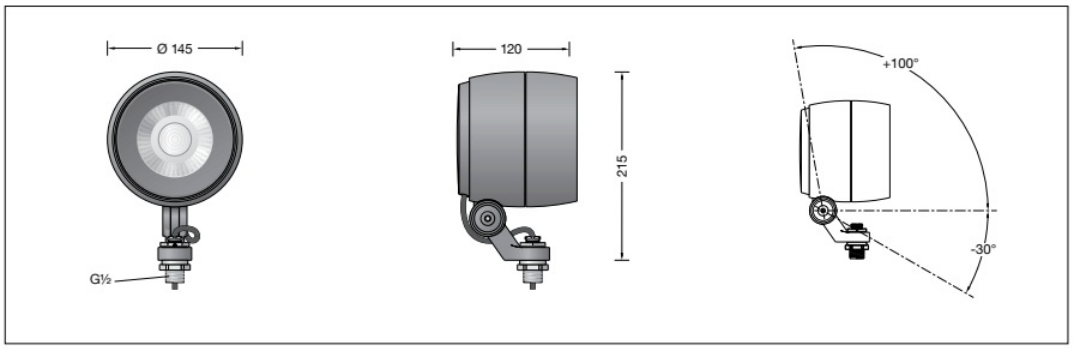
Contents

Performance floodlight



Instructions for use

Application

Performance floodlight with G½ mounting bush.
The floodlight can be bolted together with any female thread G½ 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 Undue® coating technology Color graphite or silver Clear safety glass Silicone gasket Reflector surface made of pure aluminum BEGA Hybrid Optics® Rotation range of floodlight 350° Swivel range -30°/+100° Mounting bracket with G½ threaded connection **Thread length:** 14mm Connecting cable X05BQ-F 5G1mm² Cable length 1m 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 IK06 Protection against mechanical impacts < 1 joule CE – Conformity mark
Wind catching area: 0.021 m² This product contains light sources of energy efficiency class(as) 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.**

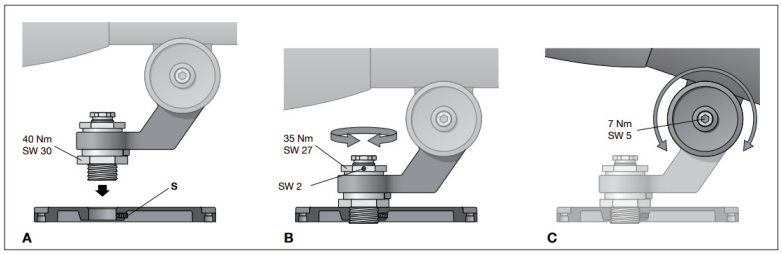
Installation

Screw the floodlight G½ threaded connection firmly into the on-site G½ female thread or BEGA accessory.
G½ threaded connection torque = 40Nm.
Secure the screw connection from loosening on site (if provided with locking screw **S,** see fig. **A).**
Check the earth conductor connection between the G½ threaded connection and the on-site G½ female thread.

Adjust floodlight:

Undo hexagon socket screw (wrench size 5 mm) and hexagon nut (wrench size 27 mm) and set the desired beam direction (see sketch **B, C).** Torque:

Hexagon socket screw = 7 Nm Hexagon nut = 35 Nm Secure bolted connection Gß against loosening by tightening the hexagon socket screws (wrench size 2 mm).



The electrical connection must be carried outwith 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 (1), 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 24.1 W Luminaire connected wattage 26.8 W Rated temperature ta=25 °C Ambient temperature ta max=40 °C

85 160K3
Module designation LED-0800/930 Colour temperature 3000 K Colour rendering index CRI >90 Module luminous flux 3350 lm Luminaire luminous flux 2472 lm Luminaire luminous efficiency 92,2 lm/W

85 160K4
Module designation LED-0800/940 Colour temperature 4000 K Colour rendering index CRI >90 Module luminous flux 3400 lm Luminaire luminous flux 2509 lm Luminaire luminous efficiency 93,6 lm/W

Lighting technology
Symmetrical wide beam light distribution Half beam angle 45° 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 must be checked for external damage and may only be replaced by a qualified electrician.

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 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 counterclockwise.
Replace LED module.
Please follow the installation instructions for the LED module.

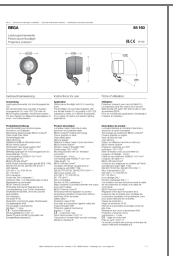
Inspect and, if necessary, replace the luminaire gaskets.
Defective glass must be replaced.
Place trim ring with glass and reflector on the floodlight housing in such a way that the notches in the trim ring and floodlight housing align on top to each other.
Twist on the trim ring clockwise as far as the stop. Tighten locking pin.

Accessories
71 290: Optical filter flat beam
71332: Shield
71 337: 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: Cross beam G½
70 889: Tension belt

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

Spares
Trim ring graphite with glass: 25 000 277
Trim ring silver with glass: 25 000 278
LED power supply unit: DEV-0353/700
LED module: 3000 K LED-0800/930
LED module: 4000 K LED-0800/940
Reflector: 75 005 075
Gasket housing: 83 000 521
Gasket trim ring: 83 001 952

Documents / Resources

	BEGA 85 160 Performance Floodlight [pdf] Instruction Manual 85 160, 85 160 Performance Floodlight, Performance Floodlight, Floodlight

References

- BEGA · Das gute Licht.
- User Manual