BEGA 85 238 Performance Floodlight With Minimal Diffuse Light Percentage Instruction Manual

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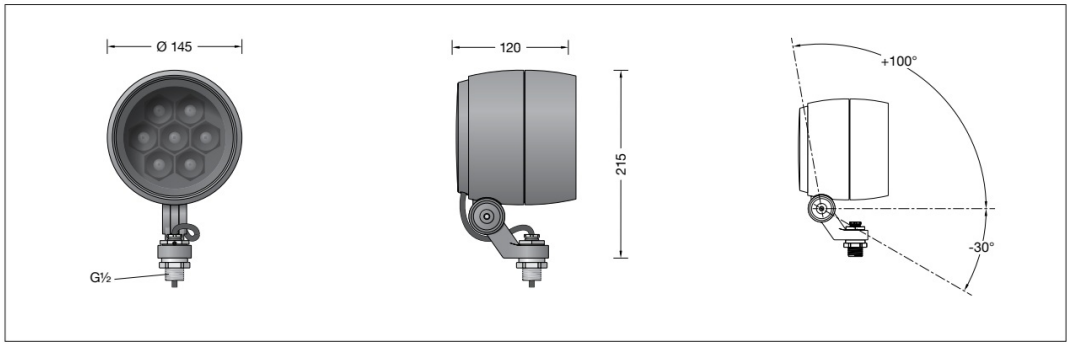
Contents

Instructions for use

Performance floodlight with minimal diffuse light percentage



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.

BEGA Ultradark Optics® offer a maximum of illumination and eye comfort due to a diminished diffuse light percentage and highly efficient glare suppression.

Product description
Luminaire made of aluminium alloy, aluminium and stainless steel BEGA Unidure® coating technology
Colour graphite or silver
Matt safety glass
Internal louvres and polymer lens
BEGA Ultradark Optics®
Louvres and interior surface of anti-glare ring with maximum light-absorbing ultra-black nano-coating
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
c – Conformity mark

Wind catching area: 0.021 m²
This product contains light sources of energy efficiency class(es) E, F

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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 71320.

Please note:
Contact with the inner surface of the luminaire reflector should be avoided in order to permanently protect the special stray lightminimising properties of the nano-coating.

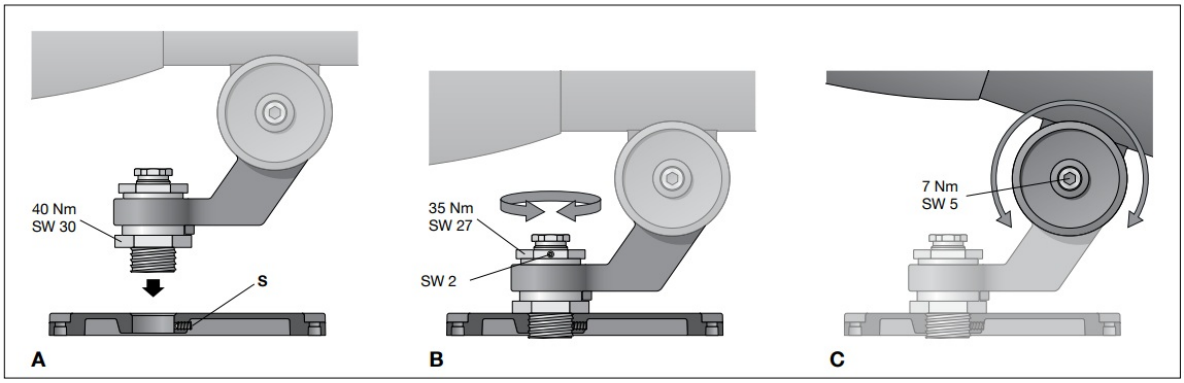
Installation

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 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 (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 : 18.3 W
Luminaire connected wattage : 20.5 W
Rated temperature : ta=25 °C
Service life criteria : 50000 h/L70 85 238K3
Module designation : LED-1254/930
Colour temperature : 3000 K
Colour rendering index : CRI >90
Module luminous flux : 2190 lm
Luminaire luminous flux : 1542 lm

Luminaire luminous efficiency : 75,2 lm/W 85 238K4
Module designation : LED-1254/940
Colour temperature : 4000 K
Colour rendering index : CRI >90
Module luminous flux : 2375 lm
Luminaire luminous flux : 1672 lm
Luminaire luminous efficiency : 81,6 lm/W

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 colour and light output of BEGA replacement modules correspond to those of the modules originally fitted. The module can be replaced by a qualified person using commercially available tools.
Disconnect the system from the power supply.

Open the floodlight:
Loosen the locking pin (hexagon socket wrench SW2.5) on the back of the floodlight housing.
Remove the trim ring along with the safety glass and reflector by twisting it anti-clockwise.

Please note:
Contact with the inner surfaces of the louvres and luminaire reflector should be avoided in order to permanently protect the special stray light-minimising properties of the nano-coating.
Grasp the louvres from the outside and lift them out. Loosen the three mounting screws (Torx drive T20) and lift the lens holder (with the loosely inserted lenses) upward horizontally out of the housing.

Replace LED module.
Please follow the installation instructions for the LED module.
Install in reverse order.
When installing the lens holder, make sure that the LED connecting cable is not pinched.
Inspect and, if necessary, replace the luminaire gaskets.
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. Screw in the locking pin.

Accessories

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

Spare glass internal : 14 001 631
Trim ring graphite with glass : 25 000 277
Trim ring silver with glass : 25 000 278
LED power supply unit : DEV-0485/900i
LED module : 3000 K LED-1254/930
LED module : 4000 K LED-1254/940
Gasket housing : 83 000 521
Gasket trim ring : 83 001 952

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Documents / Resources

	BEGA 85 238 Performance Floodlight With Minimal Diffuse Light Percentage [pdf] Instruction Manual 85238AK4, 85238K3, 85238K4, 85 238 Performance Floodlight With Minimal Diffuse Light Percentage, 85 238, Performance Floodlight With Minimal Diffuse Light Percentage, Minimal Diffuse Light Percentage, Diffuse Light Percentage, Light Percentage

References

- BEGA · Das gute Licht.
- User Manual