B.E.G. LUXOMATIC® LED-RADAR-Lamp

EN

Installation and Operating Instruction for B.E.G. - Radarlamp LUXOMATIC® L8/L9-LEDN/W/-HF

1. Product information

- Light for wall and ceiling mounting
- Built-in LED for engergy-efficient lighting
- Durable housing made of steel, dome made of acrylic glass
- Radar-version with high-frequency motiondetector for switching depending on movement
- temperature-independant detection

2. Function

B.E.G. high-frequency motion detectors transmit and receive waves with a frequency of 5.8 GHz.
Based on the Doppler effect, the change in frequency of the waves reflected by a moving object are measured and the result is used to detect movement. The detection area depends on the size and speed of the moving object.
Since high-frequency waves can pass through walls, when HF technology is used it is not always possible to clearly limit the detection area to one room. As a result, people in adjacent rooms may also be detected and activate the light.
Metal surfaces close to the installation location of the detector can lead to extremely strong reflections of the signal, which may prevent the HF detector from switching reliably and/or change the detection area.

Note: Since this functional principle can affect the detection quality, always check the suitability of this technology for your application.

3. Mounting preparations

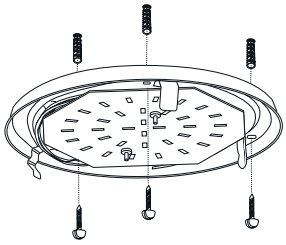
Work on the 230 V mains supply may only be carried out by qualified professionals or by instructed persons under the direction and supervision of qualified skilled electrical personnel in accordance with electrotechnical regulations.

Disconnect supply before installing!

The device is not suited for safe disconnection of the mains supply.

4. Installation

For device installation, the in-house mains fuse must be removed.



Open the light. Lead the mains cable on the back of the light through the rubber bushing. Mark drill holes on the ceiling or wall. Drill suitable holes and push the plugs tightly into the holes. Screw on the light.

For wall mounting, please note:
for optimal thermal management pay attention to the fact that the RF detector is positioned downward.

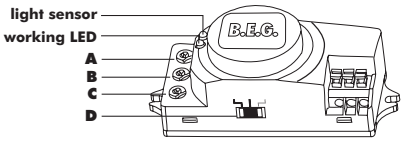
5. Putting into operation / Settings radarlamp

Twilight setting (Rotary control dial **C**)
The chosen light response threshold can be infinitely varied
from approx. 2 - 2000 Lux.
Symbol "**MOON**" = dusk-to-dawn operation
Symbol "**SUN**" = daylight operation

Time setting (Rotary control dial **B**)
The light can be set for a duration of max. 15 minutes. Any movement detected before this time elapses will re-start the timer. There will be no twilight evaluation (daytime operation) for as long as the motion detector is switched on.
Note: After the light switches OFF, it takes approx. 1 sec. before it is able to start detecting movement again.
Attention: We recommend for fluolamps to use a minimal follow-up time of 5 minutes.

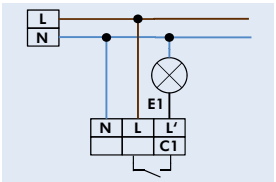
HIGH OFF LOW **Range / Sensitivity** (Switch **D**, Rotary control dial **A**)
Range / sensitivity of the sensor can be reduced over switch **D** and potentiometer **A**.
Switch **D** = **"LOW"**: Range can be adjusted between approx. 0.4 - 8 m Ø.
Switch **D** = **"HIGH"**: Range can be adjusted between approx. 6 - 16 m Ø.
Switch **D** = **"OFF"**: Detector is switched off.
Note: We recommend to adjust the range starting at the maximum and then reducing it, if not time delay may occur while setting the range.

Test setting
In order to adjust the detection range during the day, the twilight value must be set to day ("sun" symbol) and time should be set to the minimum.

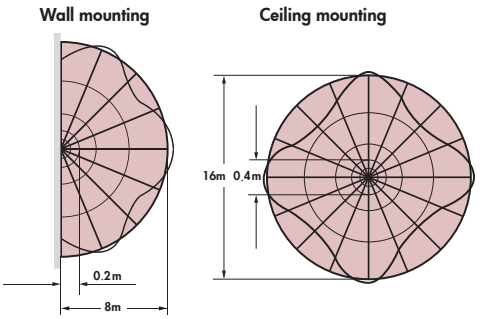


6. Wiring diagram

Standard mode with 1-channel motion detector

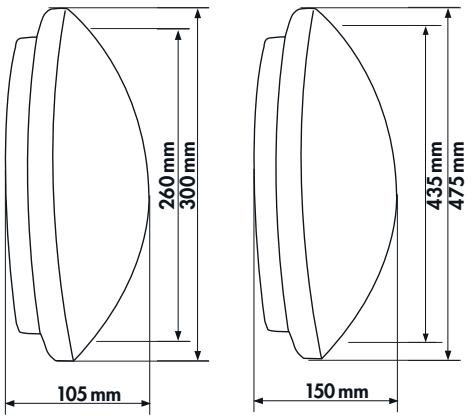


7. Typical detection area [in m]
(Mounting height = 2.50 m / Switch C = "HIGH")



The range depends on the size and speed of the object.

8. Dimensions



L8-LEDN/W/-HF L9-LEDN/W/-HF

9. Article / Part nr.

Type	Part nr.
L8-LEDN-HF – Acrylic glass	94455
L9-LEDN-HF – Acrylic glass	94457
L8-LEDW-HF – Acrylic glass	94465
L9-LEDW-HF – Acrylic glass	94467
L8-LEDN – Acrylic glass	94456
L9-LEDN – Acrylic glass	94458
L8-LEDW – Acrylic glass	94466
L9-LEDW – Acrylic glass	94468

10a. Technical data L8/L9-LEDN/W

- **Power supply:** 230 V~ ±10 % 50/60 Hz
- **Housing:** Base made of steel plate, plastic dome made of acrylic
- **Optic:** Acrylic diffusor
- **Lamp:** LED board fixed mounted
- **Power consumption:**
  L8-LEDN/W 12 W
  L9-LEDN/W 24 W
- **Light colour:**
  L8/L9-LEDN approx. 4000 K, neutral white
  L8/L9-LEDW approx. 3000 K, warm white
- **Luminous flux LED:**
  L8-LEDN/W 1400 lm
  L9-LEDN/W 2800 lm
- **Luminous flux luminaire:**
  L8-LEDN/W 1000 lm
  L9-LEDN/W 2200 lm
- **Energyefficiencyclass:** A+
- **Protection / class:** IP40 / I / CE
- **Ambient temperature:** -20°C to +40°C

10b. Technical data lamps L8/L9-LEDN/W-HF

see L8/L9-LEDN/W, but additional with sensor

Channel 1 (light control)

- **Adjustments:** manually by potentiometers
- **Contact load:** 1200 W, cos φ = 1
  600 VA, cos φ = 0.5 μ-Kontakt
- **HF-transmitter consumption:** 5.8 GHz, < 10 mW
- **Detection area / Range:**
  Wall mounting: r = 0.2 to 8 m
  Ceiling mounting: Ø 0.4 to 16 m
- **Photo electric switch:** 2 - 2000 Lux
- **Time settings:** 5 sec. - 15 min.

Note: When taking the detector into operation or after each power failure, the motion detector will switch on for a duration of 3 seconds.

LED included

EU Declaration of conformity

CE

This product respects the directives concerning
1. electromagnetic compatibility (2014/30/EU)
2. low voltage (2014/35/EU)
3. restriction of the use of certain hazardous substances in electrical and electronic equipment (2011/65/EU)

11. Fault-finding / Troubleshooting

Light not illuminated
Twilight-value not reconcilable with the given situation
Adjust twilight-value with regulating screw

Light illuminated constantly during darkness
Constant movement activity in the area of coverage
If movements caused by sources of interference (animals, ventilation, etc.), remove from area of coverage
Reduce range/sensivity with "SENS" regulating screw

Light illuminated constantly, also during the day
Twilight-value not reconcilable with the given situation
Adjust twilight-value with regulating screw
Check the installation location (see Section 2)

Light will not switch
Photo electric switch has not been reached.
Check bulb
Check connection
Check the installation location (see Section 2)

B.E.G.

MAN 8328 – L8-/L9-LEDN/W/-HF-GB-310516-5