B.E.G. LUXOMATIC®

Automatic lights catalogue

LED

RADAR

RG 0

E27

Legend
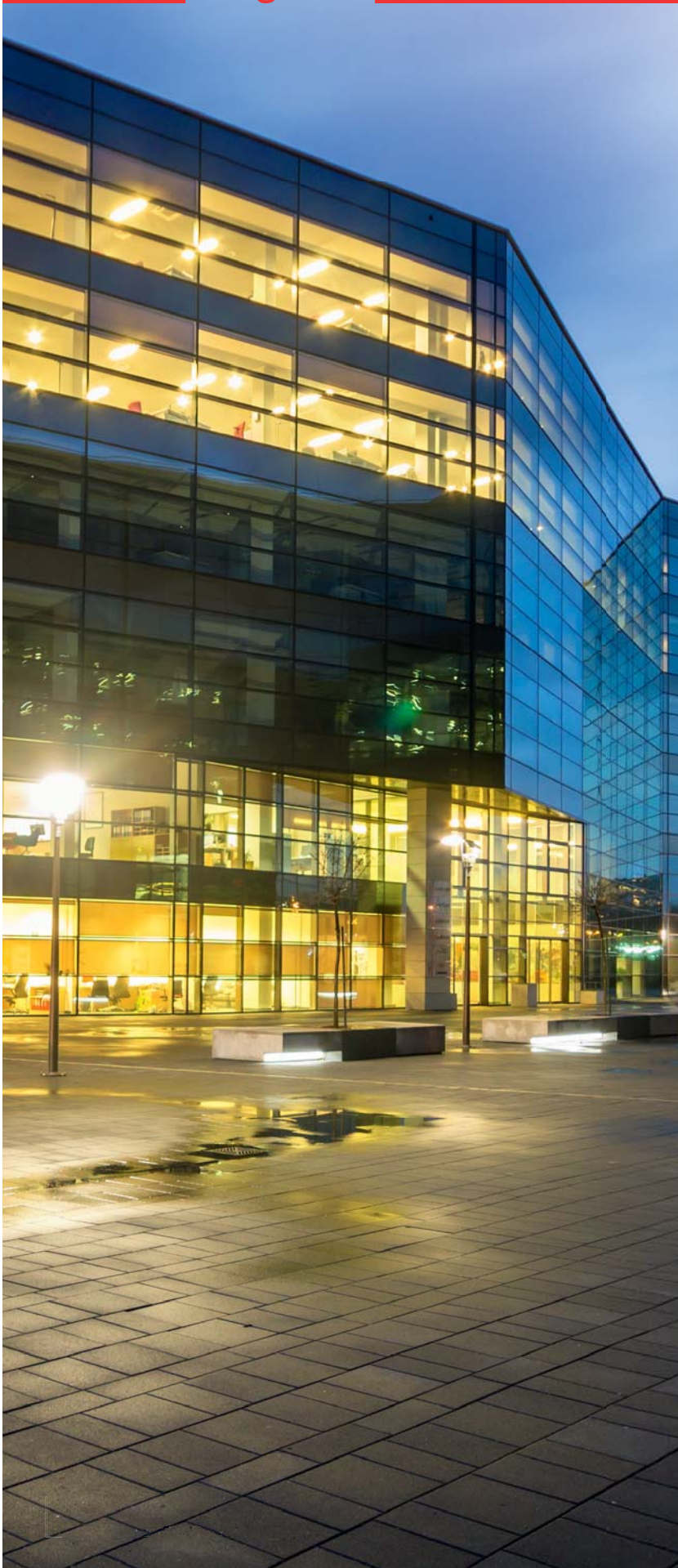
LED	LED light
CRI / TM30	Colour reproduction
⊘	Voltage
⏻	Typ. power input
IP ⏚	Degree of protection class
IK	Impact protection
🌡	Ambient temperature
☐	Housing
∟	Dimensions
RG	Photobiological safety
UGR	Anti-glare
◁	Detection area
📡	Radar / HF technology
△	Range
☀	Switch-on threshold
🕒	Follow-up time
🛜	Remote control-capable
⎓	Micro USB
E27	E27 fitting
/	Switching power
↕	Recommended mounting height
☀%	Orientation light
🔥	Flammability rating

1975

The foundation stone of our comprehensive range was the development and production of emergency lights. Shortly afterwards came the production of complete systems for emergency lighting installations. While B.E.G. still has emergency lighting in its range today, this of course comes with state of the art technology and energy-saving LEDs.

Energy-efficient products combined with tradition

Founded in 1975, family-owned B.E.G., headquartered in Lindlar, Germany, has stood for quality and innovation for over 40 years. From the very beginning, our team's focus has been on satisfying customers. The B.E.G. product range is divided into six product lines: LUXOMAT®, LUXO-MATIC®, LUXOMAT®net, SAFETYLUX®, CHRONOLUX® and B.E.G. SMARTHOME®. B.E.G. offers customers a wide product range, individual solutions, outstanding quality and personal service.

1986

B.E.G. was one of the first companies in Germany to produce motion detectors and automatic lighting. Since then, B.E.G. has produced many generations of motion detectors, which are installed primarily outside buildings, in particular for security.

The rapid growth in building automation and the resultant rise in demand for intelligent control products has led to the continual expansion of the daylight-dependent/occupancy-dependent detection business. The installation of occupancy detectors is being driven not only by convenience, but also now by cost reduction through energy saving, and environmental protection.

2007

On a terrain of almost 4 ha, the current European distribution and logistics centre with adjoining production and development facilities started operation in Lindlar.

4 years later, the logistics centre was extended by several thousand m² to meet the increasing demand.

2017

The former administration building becomes a research and development centre with light laboratory. For some time now, B.E.G. has its focus on networked products (e.g. DALI, LON, KNX). Thanks to the new development centre, B.E.G. is able to react to demands on the market within a short time.

B.E.G. has an ever increasing number of branches and agencies in many countries of the world. Each branch or agency employs well-trained personnel offering the best support possible in all issues with respect to building automation.

2014

The new administration building was build next door to the production and distribution centre. The new building is equipped with modern KNX bus technology and B.E.G.'s own KNX products, which provide for an important cost reduction of the operating costs. These products are also used in a research project of TH Köln (University of Applied Sciences).

B.E.G. detector lights with LED technology

LED Technology

- LED technology is the lighting of the future: This innovative light source is a technically-advanced, economical and exceedingly environmentally-friendly alternative to conventional lighting technology.

- Good quality LEDs are very economical in terms of electricity consumption and have an extremely long life. B.E.G. combines reliable electronics with high quality LED technology. An in-house developed innovative thermal management system prevents overheating of the LEDs and the electronics, thus ensuring a long lifespan.

- LED lights with integrated B.E.G. sensor technology are the most economical solution for your customers. We have fitted our lights and floodlights with motion detectors or microwave detectors for a variety of applications. These are used to activate the lighting only when motion is detected and there is too little daylight. This technology therefore further increases the energy efficiency of the lights.

HF detector technology

- B.E.G. high-frequency microwave motion detectors send and receive radar waves at a frequency of 5.8 GHz.

- Based on the Doppler effect, frequency changes in the waves reflected from a moving object are measured and thus movement is detected. The detection area also depends on the size and speed of the moving object.

- Radar waves can penetrate walls. Therefore clear delineation of a room with microwave technology is only partially possible. We therefore recommend that you check its applicability for your intended use.

- The B.E.G. detector technology used also offers safe and convenient installation. Detectors can be quickly and easily adjusted to on-site requirements. Parameters such as range, switch-on threshold and follow-up time can be controlled via potentiometers.

- Intelligent light switching can make a great contribution to reducing energy consumption. The light is only switched on if it is needed.

LUXOMATIC®

Motion detector technology

- Luminaires and spotlights with high-performance motion detectors are optimised for time-efficient and simple fitting. Detectors are individually adjustable for optimum setup of the detection area, so that for example the street is not covered when installation is on the outside of a property.

- Motion detectors are designed to reliably detect moving sources of heat in their detection area. According to the current ambient light level, they automatically switch the light on when movement is detected. If movement is no longer detected, the detector switches the light off again after the follow-up time previously configured.

- This is made possible by Passive Infrared (PIR) technology: The detection area of the motion detector is divided into many small sub-areas. The detector measures heat radiation in these sub-areas, e.g. the heat given off by a living being. If temperature differences occur in several sub-areas due to movement, these are recognised by the PIR sensor built into the motion detector. The sensor itself does not emit any infrared and is therefore described as passive.

- If requirements should change, settings can be adjusted according to needs. Instead of the potentiometers, it is even easier to adjust the settings using a suitable B.E.G. remote control.

- B.E.G. stands for decades of experience in developing motion detectors and automatic luminiares, and for high levels of quality and reliability. This means B.E.G. lights and spotlights with motion detection technology provide the perfect combination of security, convenience and energy saving.

Biodynamic occupancy detector technology (HCL)

- The PD4-M-HCL bidirectional occupancy detector with integrated DALI controller and "Tunable White" function for "Human Centric Lighting" regulates different lighting groups according to occupancy and daylight levels, and also has daylight-dependent control of brightness and colour temperature using a real-time clock.

BIODYNAMIC LIGHT

7 h 8 h 9 h 10 h 11 h 12 h 13 h 14 h 15 h 16 h 17 h 18 h

In 2002, scientists discovered a third kind of photoreceptor in the retina of the eye. These are not primarily for vision, but are very sensitive to light with a high level of blue in it. Among other things, they regulate the production of hormones that are essential for the human "body clock". This new discovery made sense of many things: for thousands of years, daylight has synchronised the biorhythms of people living predominantly outdoors.

Without daylight, the biorhythms get out of step. Modern humans mostly live in rooms which are not always flooded with sufficient daylight and are generally lit artificially. Therefore, for many hours in the day, daylight's influence on biorhythms is missing, which can have negative effects on our well-being, concentration and health.

HCL lighting, or "Human Centric Lighting", is lighting with humans as its focus. Therefore, lighting must take account of the latest discoveries and not only provide good static light, but also consider biodynamics, in other words the right light for the right time of day.

In practice, this means trying to track daylight as closely as possible by changing the colour temperature and adjusting light output. The lights themselves must therefore be dimmable and must allow for different white tones, known as "Tunable White". Hence daylight can to a certain extent be brought into a building, even if the building's design means little or no true daylight is available. Using lighting to replicate daylight is known as "circadian lighting", from the Latin "circa" for "around" and "dies" = "day". The skill now is to define the right colour temperature and the right light level for every hour of the day. These parameters differ according to latitude, longitude and time of year. The change in lighting should take place as smoothly as possible and should not be noticeable by the user – natural daylight provides the yardstick.

Variation in the white tone can also serve other purposes, e.g. a calming atmosphere can be created by warm white tones. Using high light levels and a greater blue component in the light can produce an increase in the ability to concentrate, a so-called "light shower". There are practically no limits to creativity in this field, and different profiles for different application scenarios are listed in DIN SPEC 67600.

Many studies show that biodynamic lighting / HCL, with colour temperature and lighting levels adjusted to the current situation, generally improves well-being, productivity and health.

LUXOMATIC®

Biodynamic light – the perfect solution

But since HCL usually provides, at least part of the time, a higher minimum lighting level than workplace regulations require, and thus increases the energy consumption of the lighting, the use of occupancy detectors is more important with an HCL installation, in order to save as much energy as possible. Therefore it is not enough to install dimmable and colour-changeable "Tunable White" lighting, but an intelligent lighting control system must be used as well, to make HCL control energy efficient.

With the PD4-M-HCL, B.E.G. offers the ideal solution.

LED panel lights for biodynamic light

PL1-LED-DALI-TW

PL1-LED-DALI-TW

PL1-LED-DALI-TW

PL1-LED-DALI-TW

PL1-LED-DALI-TW

PL1-LED-DALI-TW

Occupancy detectors for biodynamic light

PD4-M-HCL
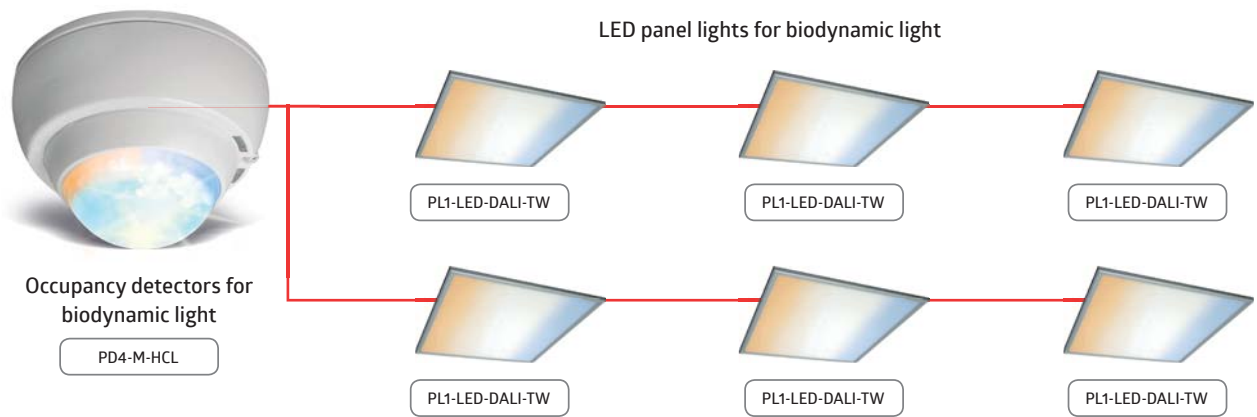
Hospitals

As a rule, staying in hospital means that patients' movements are restricted. Depending on the condition, patients generally have to stay in bed and only rarely get to go outdoors. Not every bed provides sufficient daylight. HCL lighting can support the healing process, by stabilising patients' circadian rhythms and improving their sleep.

Retirement homes

As the population becomes ever older, it is important that older people in retirement homes are cared for in the best way possible. With age, people's vision deteriorates, and when people stay for a long time in enclosed rooms, it is possible for their body clock to get out of sync and for residents to wake up in the night more often. HCL solutions help to reset residents' body clocks and support a better quality of sleep.

Offices

Today, the majority of people no longer work in the open air, but in enclosed spaces. The design of the building cannot always provide sufficient daylight in all locations. Using HCL lighting, you can compensate for this deficiency and substantially enhance the workplace.

Development and production

EMC chamber for professional quality assurance

- In our in-house EMC laboratory, the technical team tests products for electromagnetic emission and susceptibility. B.E.G. thus ensures that products do not produce high levels of electromagnetic radiation and that emissions from other devices such as smartphones do not affect the reliability of B.E.G. products.

- In the climate chamber, the B.E.G. quality testers expose products to temperatures from -50 to +50 °C for long periods. This tests the products' temperature resistance under extreme conditions.

- Lastly, a B.E.G. quality product has to undergo impact and IP testing, in which the robustness of the case and the reliability of the seals are examined in minute detail.

- These elaborate test procedures mean that the meticulous experts at B.E.G. can ensure that their products always meet the company's highest quality requirements. On that you can rely!

Flexibility in developing new products

- The B.E.G. CAD department uses 3D printing techniques in the production of prototypes, to develop precise and testable objects.

- Layer by layer, the three-dimensional test models are printed to match the exact specifications of computer-designed objects.

LUXOMATIC®

Quality testing in in-house light lab

- LED technology is the lighting of the future: This innovative light source is a technically-advanced, economical and exceedingly environmentally-friendly alternative to conventional lighting technology.

- In our light lab, we put our lumiaires and spotlights through their paces. One of the things captured by our highly sensitive measuring equipment is colour rendition. Here, our experts test against not one, but three different colour indexes. Measurement also captures colour temperature, beam angle, energy efficiency in watts per lumen and energy consumption.

- In addition, photometric information for the lights is established in our light lab. This can be used in light planning programs such as DIALUX or RELUX.

Colormetrics   2 of 3

4034 K

x: 0.378
y: 0.371   CIE 1931

Delta UV: 0.0020   CIE 1931 ZOOM

TM30: 83,2   CRI: 86,4 (R1-R8)
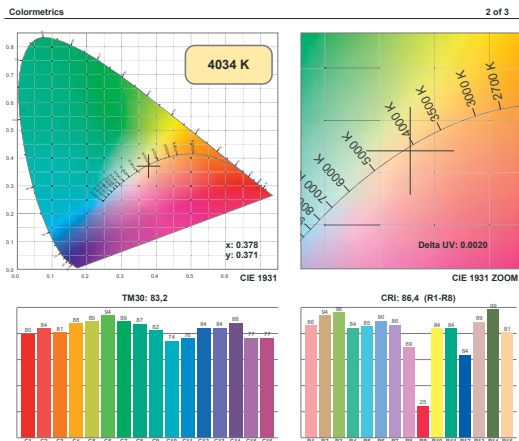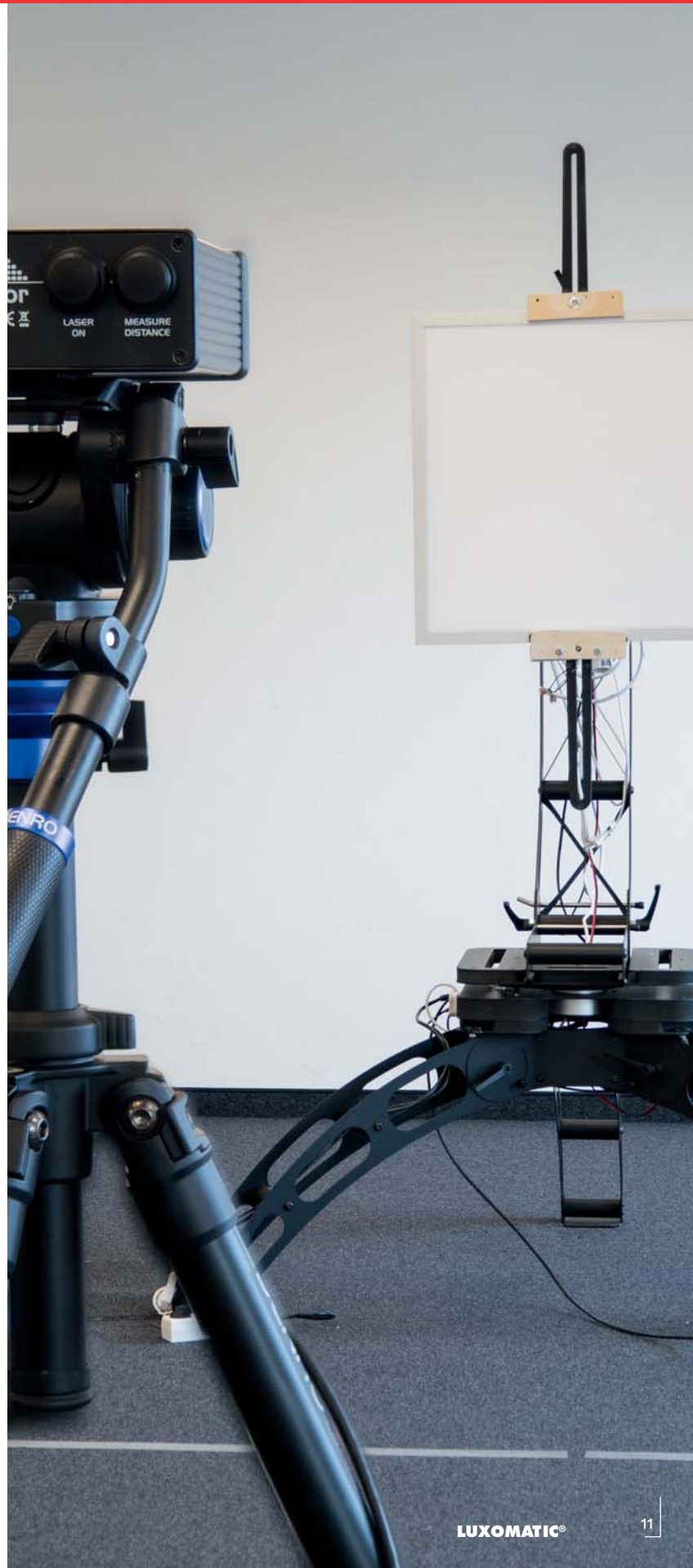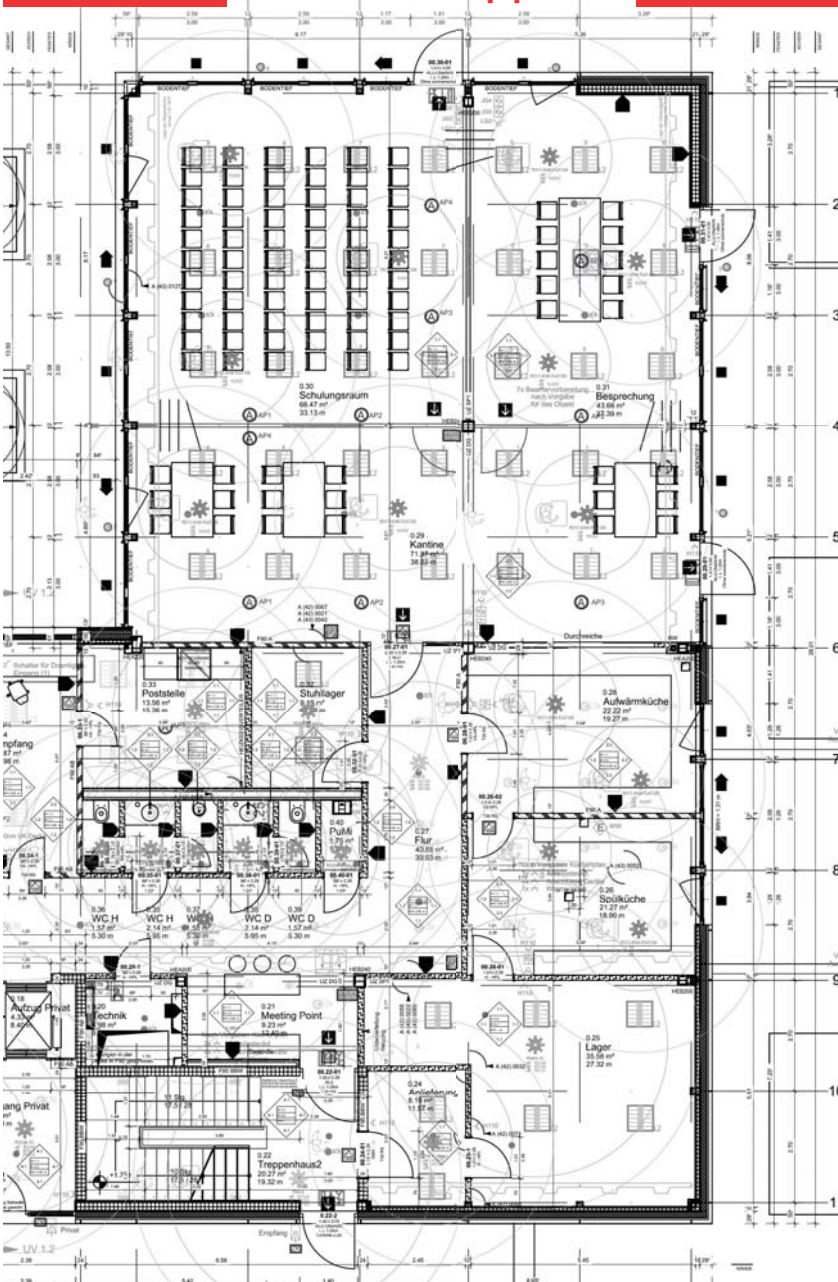
Service and information for planners

- We provide the right solution for a wide range of requirements. If the right product is not available, then we will offer a special solution, tailor-made for your project. Our years of experience and the excellent quality of our products make us the experts in intelligent building automation.

- On our website, you can find the photometric information for all lights in LDT format for import into light planning programs such as DIALUX or RELUX.

- We support you at every stage. Our in-house planning department can produce for you, without obligation, a plan for a suitable lighting control system with specific mounting locations for motion and occupancy detectors.

- Our field operatives are all experts and undergo regular training. Therefore you will always have a capable contact at your side, even beside you on location or at the construction site.

- Our in-house staff are highly trained and will be delighted to give advice regarding your order. And your point of contact will always be happy to discuss product questions and suggest solutions.

- Our products are available exclusively through electrical wholesalers. Thanks to our long-term collaboration, wholesaler staff can in most cases help you with questions on B.E.G. products.

General application – special, property-specific requirements must be observed.

LUXOMATIC®
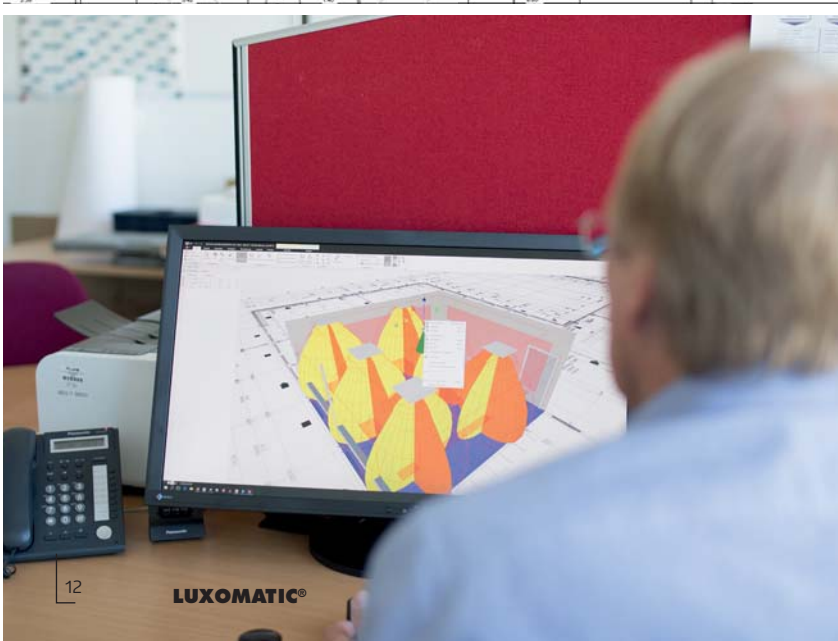
	commercial area							social area			outdoor area			
	Offices	Meeting rooms	Corridors	Staircases	Common areas / WCs	Equipment rooms	Industry	Calssrooms	Patient rooms	Retirement home	Entrance area	Terrace / garden	Parking	Covered areas
Biodynamic light														
PL1-LED-TW – panel lights module 625	X	X	X					X	X	X				
PL1-LED-TW – panel lights module 600	X	X	X					X	X	X				
PL1-LED-TW – panel lights module 312,5 x 1250 mm	X	X	X					X	X	X				
PL1-LED-TW – panel lights module 300 x 1200 mm	X	X	X					X	X	X				
PL2-LED-TW – Pendant 300 x 1200 mm	X	X	X					X	X	X				
LED indoor lights														
AL22-LED-HF – radio-crosslinkable (HF) radar round light			X	X	X	X	X							
L8-LED-HF – (HF) radar round light d=300 mm			X	X	X	X								
L9-LED-HF – (HF) radar round light d=475 mm			X	X	X	X								
AL8-LED-HF – flat (HF) radar round light			X	X	X	X	X							
AL8-LED-3C – flat round light with three light colours			X	X	X	X	X				X	X	X	X
AL8-LED-3C-HF – flat (HF) radar round light with three light colours			X	X	X	X	X							
AL12-LED-3C – Flat square luminiare with three light colours			X	X	X	X	X				X	X	X	X
AL12-LED-3C-HF – flat (HF-) square luminiare with three light colours			X	X	X	X	X							
HF-L7/-L8 – (HF) radar round light d=300 mm E27-socket			X	X	X	X								
HF-L11 – (HF) radar round light d=475 mm E27-socket			X	X	X	X								
HF-L1 – (HF-) radar-glass-round light d=275 mm E27-socket			X	X	X	X								
LED-Downlights														
DL10-LED-3C – Downlight diffusor with three light colours			X	X	X	X			X	X				
DL11-LED-3C – Downlight reflector with three light colours			X	X	X	X			X	X				
DL12-LED-3C – Downlight UGR<19 with three light colours	X	X	X	X	X	X		X	X	X				
LED outdoor lights														
FL2N-LED – LED floodlight 26 W with motion detectors											X	X	X	X
FL3N-LED – LED floodlight 14 W with motion detectors											X	X	X	X
ALC-B/-C – System lights with motion detectors											X	X	X	X
AL1 – Wall light with motion detectors											X	X	X	X
LED lights for moisture-proof applications														
AL60-LED-PD9M – LED lights for moisture-proof application with occupancy detector					X	X	X							X
AL60-LED-HF – LED lights for moisture-proof application with (HF) microwave detector					X	X	X							X

General application – special, property-specific requirements must be observed.

Application examples

Biodynamic light – commercial application – training room with PL1

Interior lights – commercial area – corridor with AL22

LUXOMATIC®

Exterior lights – exterior application – entrance area with FL2N-LED

Lights for moisture-proof applications – interior application – basement garage with AL60

Product	light					technique		equipment			mounting			classification		
	LED	E27	W	lm	Kelvin	RADAR	PIR	DALI	3C	UGR				IP	IK	RG 0
Biodynamic lights																
PL1-LED-TW – panel lights module 625	X	–	45 W	3550 lm	2700-6500 K			X			X			20		0
PL1-LED-TW – panel lights module 600	X	–	45 W	3550 lm	2700-6500 K			X			X			20		0
PL1-LED-TW – panel lights module 312,5 x 1250 mm	X	–	45 W	4050 lm	2700-6500 K			X			X			20		0
PL1-LED-TW – panel lights module 300 x 1200 mm	X	–	45 W	4050 lm	2700-6500 K			X			X			20		0
PL2-LED-TW – Pendant 300 x 1200 mm	X	–	90 W	8100 lm	2700-6500 K			X					X	20		0
LED indoor lights																
AL22-LED-HF – wireless (HF) radar round light	X	–	21 W	1750 lm	4000 K	X					X			54	06	0
L8-LED-HF – (HF) radar round light d=300 mm	X	–	12 W	1000 lm	4000 K	X					X			40	02	0
L9-LED-HF – (HF) radar round light d=475 mm	X	–	24 W	2200 lm	4000 K	X					X			40	02	0
AL8-LED-HF – flat (HF-) radar round light	X	–	25 W	2100 lm	4000 K	X					X			20	08	0
AL8-LED-3C – flat round light with three light colours	X	–	25 W	2120 lm	3000/4000/5700 K				X		X			54	08	0
AL8-LED-3C-HF – flat (HF) radar round light with three light colours	X	–	25 W	2120 lm	3000/4000/5700 K	X			X		X			20	08	0
AL12-LED-3C – Flat square luminiare with three light colours	X	–	25 W	2120 lm	3000/4000/5700 K				X		X			54	08	0
AL12-LED-3C-HF – flat (HF-) square luminiare with three light colours	X	–	25 W	2120 lm	3000/4000/5700 K	X			X		X			20	08	0
HF-L7/-L8 – (HF) radar round light d=300 mm E27-socket	–	X	max. 23 W	–	–	X					X			40	06	
HF-L11 – (HF) radar round light d=475 mm E27-socket	–	X	max. 2 x 23 W	–	–	X					X			40	02	
HF-L1 – (HF-) radar globe round light d=275 mm E27-socket	–	X	max. 23 W	–	–	X					X			40	02	
LED-Downlights																
DL10-LED-3C – Downlight diffusor with three light colours	X	–	18 W	1950 lm	3000/4000/5700 K				X				X	40		0
DL11-LED-3C – Downlight reflector with three light colours	X	–	18 W	1950 lm	3000/4000/5700 K				X				X	40		0
DL12-LED-3C – Downlight UGR<19 with three light colours	X	–	18 W	1950 lm	3000/4000/5700 K				X	X			X	40		0
LED outdoor lights																
FL2N-LED – LED flood light 26 W with motion detector	X	–	26 W	2100 lm	4000 K		X				X			44	07	0
FL3N-LED – LED flood light 14 W with motion detector	X	–	14 W	1050 lm	4000 K		X				X			44	07	0
ALC-B/-K – System globes with motion detector	–	X	max. 60 W	–	–		X				X			44		
AL1 – Wall light with motion detector	–	X	max. 60 W	–	–		X				X			44		
LED lights for moisture-proof applications																
AL60-LED-PD9M – Lights for moisture-proof with occupancy detector	X	–	35 W	3900 lm	4000 K		X				X			65	06	0
AL60-LED-HF – Lights for moisture-proof with (HF-) microwave detector	X	–	35 W	3900 lm	4000 K	X					X			65	06	0

LUXOMATIC®

Biodynamic light

Tunable white LED panel lights with attractive design

The extremely flat housing of the PL1 and PL2 LED panel lights is suitable for installation in modular ceilings with reduced mounting depth. The diffuser is very evenly illuminated and provides the room with a pleasant distribution of light. The lights are also available with a microprismatic cover, which gives glare suppression to UGR<19.

The LED driver conforms to the latest DALI Device Type 8 standard for Tunable White. Not only can the LED panels be dimmed, but the colour temperature can be set as required from warm white (2700 K) to cool white (6500 K).

These lights are therefore ideal for "Human Centric Lighting" (HCL). This type of control alters the light output as well as the colour temperature over the course of the day. It means that people are in tune with natural daylight. Biodynamic control of these lights is very simple with the B.E.G. HCL occupancy detector (PD4-M-HCL) or with other DALI HCL systems that support Device Type 8.

LED HCL

LED panel light

Product and accessory

Description	Colour	Part number
PL1-625-LED-DALI-TW-S	silver	93681
PL1-625-LED-AG-DALI-TW	white	93094

h (m)	Ø (m)	E (lx)
1.0	1.9	1698
2.0	3.9	425
3.0	5.8	189
4.0	7.8	106
5.0	9.7	68

88.2°
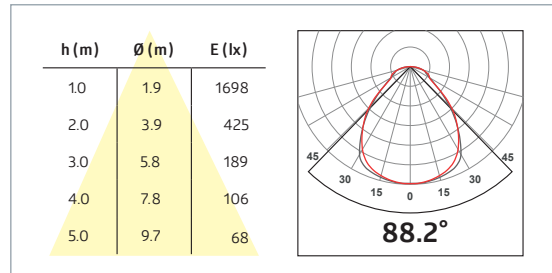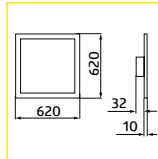
6000 K	4000 K	3000 K

Product information

- Very flat square LED panel light
- For installation into suspended ceilings module 625
- Light colour adjustable from 2900 K to 6800 K
- DALI driver Device Type 8 for controlling the light temperature
- Good glare reduction thanks to microprismatic structure UGR < 19 (93094)
- Very uniform brightness of the luminaire

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (3450 lm, 77 lm/W)
to 6000 K cool white (3550 lm, 79 lm/W)

CRI: 82 / TM30: 81

UGR <19 (93094)

200 - 240 V AC 50/60 Hz

45 W / PF 0.89

IP20 / Class II

-20 °C to +40 °C

white or silver frame
Appearance: plastic diffusor white

620 x 620 x 10 mm

PL1-600-LED

Product and accessory

Description	Colour	Part number
PL1-600-LED-AG-DALI-TW-S	silver	93151
PL1-600-LED-AG-DALI-TW	white	93084

595

595

32

10

h (m)	Ø (m)	E (lx)
1.0	1.9	1698
2.0	3.9	425
3.0	5.8	189
4.0	7.8	106
5.0	9.7	68

88.2°

| 6000 K | 4000 K | 3000 K |

Product information

- Very flat square LED panel light
- For installation into suspended ceilings module 600
- Light colour adjustable from 3000 K to 6000 K
- DALI driver Device Type 8 for controlling the light temperature
- Good glare reduction thanks to microprismatic structure UGR < 19
- Very uniform brightness of the luminaire

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (3450 lm, 77 lm/W)
to 6000 K cool white (3550 lm, 79 lm/W)

CRI: 82 / TM30: 81

UGR <19

200 - 240 V AC 50/60 Hz

45 W / PF 0.89

IP20 / Class II

-20 °C to +40 °C

white or silver frame
Appearance: plastic diffusor white

595 x 595 x 10 mm

LED panel light

Product and accessory

Description	Colour	Part number
PL1-31125-LED-AG-DALI-TW	white	93077

h (m)	Ø (m)	E (lx)
1.0	1.9	1698
2.0	3.9	425
3.0	5.8	189
4.0	7.8	106
5.0	9.7	68

88.2°

6500 K	4000 K	2700 K

Product information

- Very flat LED panel light
- For installation into suspended ceilings module 312
- Light colour adjustable from 2700 K bis 6500 K
- DALI driver Device Type 8 for controlling the light temperature
- Good glare reduction thanks to microprismatic structure UGR < 19
- Very uniform brightness of the luminaire

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
2700 K warm white (3650 lm, 81 lm/W)
to 6500 K cool white (4050 lm, 90 lm/W)

CRI: 82 / TM30: 81

UGR <19

200 - 240 V AC 50/60 Hz

45 W / PF 0.89

IP20 / Class II

-20 °C to +40 °C

white aluminium frame
Appearance: plastic diffusor white

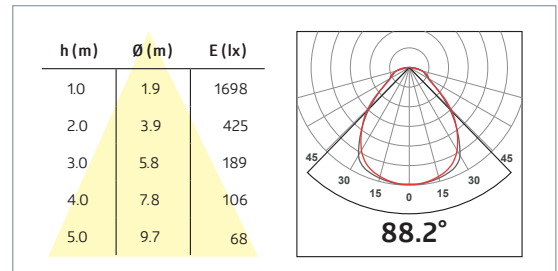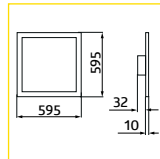PL1-31125: 307 x 1245 x 10 mm (module 312)

PL1-30120-LED

Product and accessory

Description	Colour	Part number
PL1-30120-LED-AG-DALI-TW	white	93066

h (m)	Ø (m)	E (lx)
1.0	1.9	1698
2.0	3.9	425
3.0	5.8	189
4.0	7.8	106
5.0	9.7	68

88.2°

6500 K	4000 K	2700 K

Product information

- Very flat LED panel light
- For installation into suspended ceilings module 300
- Light colour adjustable from 2700 K bis 6500 K
- DALI driver Device Type 8 for controlling the light temperature
- Good glare reduction thanks to microprismatic structure UGR < 19
- Very uniform brightness of the luminaire

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
2700 K warm white (3650 lm, 81 lm/W)
to 6500 K cool white (4050 lm, 90 lm/W)

CRI: 82 / TM30: 81

UGR <19

200 - 240 V AC 50/60 Hz

45 W / PF 0.89

IP20 / Class II

-20 °C to +40 °C

white aluminium frame
Appearance: plastic diffusor white

295 x 1195 x 10 mm
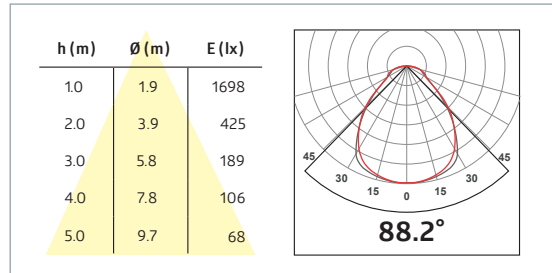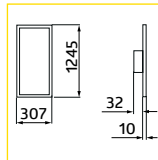
LED panel light

Product and accessory

Description	Colour	Part number
PL2-30120D-LED-AG-DALI-TW	white	93667

h (m)	Ø (m)	E (lx)
1.0	1.9	1698
2.0	3.9	425
3.0	5.8	189
4.0	7.8	106
5.0	9.7	68

88.2°

88.2°
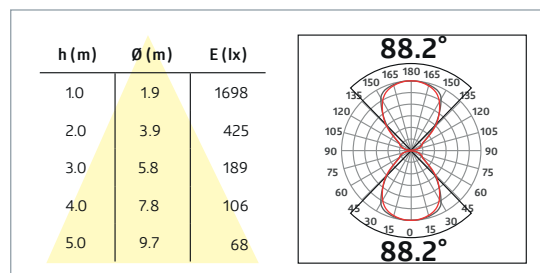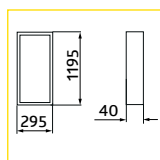
6500 K	4000 K	2700 K

Product information

- Suspended LED panel lights

- Direct and indirect lighting can be controlled separately

- Light colour adjustable from 2700 K to 6500 K

- DALI driver Device Type 8 for controlling the light temperature

- Good glare reduction thanks to microprismatic structure UGR < 19

- Very uniform brightness of the luminaire

Technical data

Leuchte

LED circuit board securely mounted
Selectable colour temperatures:
2700 K warm white (7300 lm, 81 lm/W)
to 6500 K cool white (8100 lm, 90 lm/W)

CRI: 82 / TM30: 81

UGR <19

200 - 240 V AC 50/60 Hz
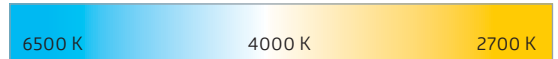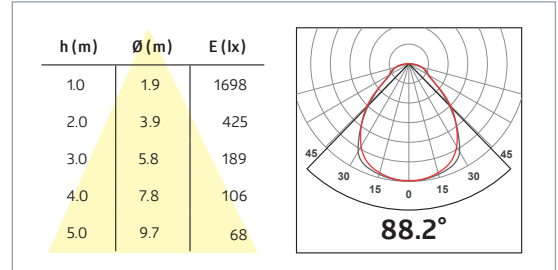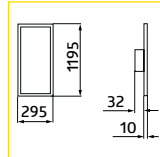
45 W / PF 0.89

IP20 / Class II

-20 °C to +40 °C

white aluminium frame
Appearance: plastic diffusor white

295 x 1195 x 40 mm

LUXOMATIC®

LED panel light

Product and accessory

Description	Colour	Part number
Securing wires 1000 mm	–	93115
Ceiling mounting frame for modular systems module 600 mm	–	93099
Ceiling mounting frame for modular systems module 625 mm	–	93181
Mounting bracket set 4 pieces	–	93117
Pendant kit, 1000 mm, 1 ceiling rose	–	93090
Pendant kit, 1000 mm, 4 ceiling fastenings	–	93173
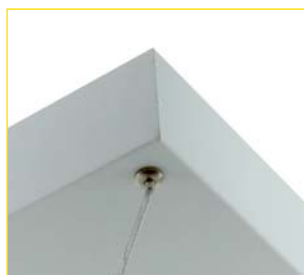
Securing wires

- 1 galvanised steel cable
- Length 1000 mm

■ Can be combined as required with PL1 panel lights

Ceiling mounting frame

- Aluminium white
- 612 x 612 x 60 mm (93099)
  632 x 632 x 60 mm (93181)

■ Can be combined as required with PL1 panel lights

Mounting bracket set

- Galvanised steel
- 4 spring clips

■ Can be combined as required with PL1 panel lights

Pendulum set with ceiling rose

- 4 galvanised steel, ceiling rose, steel case white
- Length 1000 mm,
  Ceiling rose 295 x 295 x 50 mm

■ Can be combined as required with PL1 panel lights

Pendulum set with ceiling fixings

- 4 galvanised steel cables
- Length 1000 mm

■ Can be combined as required with PL1 panel lights

B.E.G. SAFETYLUX®

red, part no. 93121

grey, part no. 93120

Safetylux portable LED

Portable emergency lights with LED technology

- Portable LED safety spotlight with following functions: emergency light | torch | orientation light | warning light with blink function

- Head tiltable through 120°

- Extremely high-performance LED spotlight with range of up to 150 m (>1 lx)

- Environmentally-friendly NiMH battery with deep discharge protection

h (m)	Ø (m)	E (lx)
1.0	0.2	11801
2.0	0.4	2950
3.0	0.6	1311
4.0	0.8	738
5.0	1	472

11.3°

LED
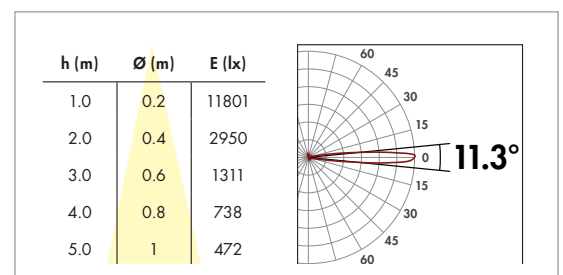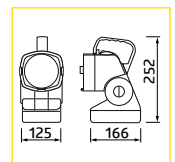
LED Indoor lights

Modern interior lighting

A recent development in the field of motion detection is the use of micro-wave technology for lighting with motion detectors. The use of this technology, at a frequency of 5.8 GHz, offers temperature-independent motion detection with extremely short response times. As detection is also possible through walls, sensor lights of this type lend themselves especially well to applications with no direct line of sight.

B.E.G. LED lights with microwave technology retain their original design, as the integrated motion detector is not visible. The installation procedure for ceiling and wall lights is just as quick as with ordinary lights.

Save energy indoors by using B.E.G. LED lights with microwave technology!

LED | RADAR | RG 0 | E27

Indoor lights

868 MHz

5.8 GHz

IR

5.8 GHz

Intelligent B.E.G. microwave technology

- High-performance intelligent (HF) microwave detector with many adjustment options
- Wireless communication between lights in a group
- Program and read all data of the light via the B.E.G. smartphone app plus IR adapter
- Simple transfer of all selected parameters to additional lights
- Read light and software data
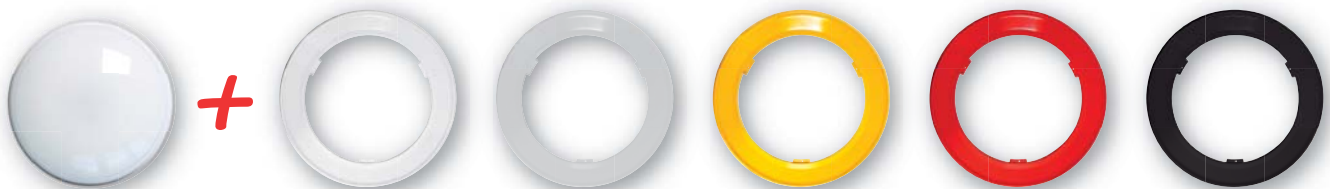
AL22-LED
(Design ring to be
ordered separately)

+

38140   38141   38142   38143   38144

LUXOMATIC®

AL22-LEDN-HF

Product and accessory

Description	Colour	Part number
AL22-LEDN-HFR with (HF-) microwave detector, without design ring	white	91733
AL22-LEDN without (HF-) microwave detector, without design ring	white	91743
AL22-LEDW without (HF-) microwave detector, without design ring	white	91744
Design rings (order separately)	white/ white-aluminium/ melon yellow/ fire red/ anthracite	38140/ 38141/ 38142/ 38143/ 38144
IR-Adapter for Smartphones	black	92726
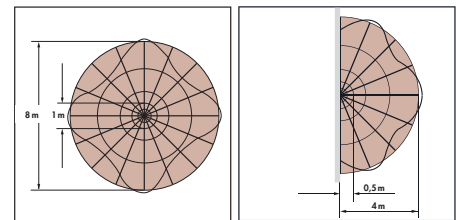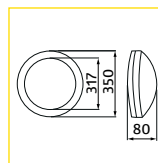
① Walking across or towards
The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3.1	645
2.0	6.1	161
3.0	9.2	72
4.0	12.2	40
5.0	15.3	26

113.5°

Product information

- Flat round LED lights for wall or ceiling mounting with (HF-) microwave radar detector

- Sturdy plastic case

- Replaceable outer ring in five standard colours (order separately)

- Easy mounting of base with electrical connection, insertion of light, secure case closing with special hidden screws

- High energy efficiency and long life using premium-quality LED technology and good thermal management

- Broad light distribution using diffuse light cover

- High-performance intelligent microwave detector with many adjustment options

- Wireless communication between lights in a group

- Program and read all light data via the B.E.G. smartphone app and IR-Adapter

- Activation of orientation light, as well as setting of follow-up time and dimming value

Technical data

Light

LED circuit board securely mounted
Colour temperature:
AL22-LEDN-HFR: 4000 K neutral white
Luminous flux of LED: 2150 lm
Luminous flux of luminaire: 1750 lm
Peak: 646 cd
Efficiency: 83 lm/W

CRI: 84,9 / TM30: 83,8

110 - 240 V AC 50 / 60 Hz

21 W / PF 0.86

IP54 / Class I

IK06 (1,0 Joule)

-20 °C to +40 °C

UV-resistant polycarbonate case, cover and outer ring. Heatsink and LED circuit board consist of aluminum
Appearance: polycarbonate diffuser, white

Ø 350 x 80 mm

Photobiological safety RG0

Microwave detector

vertical 360°

5,8 GHz, wireless communication: 868 MHz

Ø 1 - 8 m

10 - 2000 Lux

Main light: 10 s - 240 min
Orientation light: 0 s - 240 min, Permanent

IR-Adapter for Smartphones (Apple/ Samsung)

LED indoor lights

Product and accessory

Description	Colour	Part number
L8-LEDN-HF with (HF-) microwave detector	white	94455
L8-LEDN without (HF-) microwave detector	white	94456
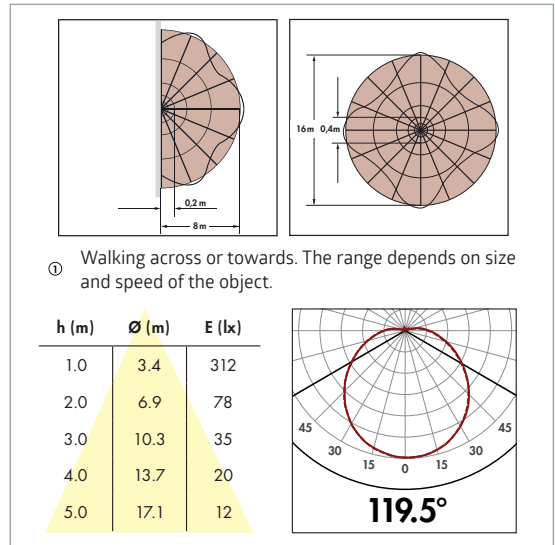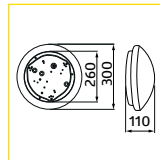
① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3.4	312
2.0	6.9	78
3.0	10.3	35
4.0	13.7	20
5.0	17.1	12

119.5°

Product information

- Round LED light for wall or ceiling mounting with integrated microwave detector
- Good energy efficiency and long life using premium-quality LED technology
- Broad light distribution using diffuse light cover
- Extremely short response time
- Microwave detector not visible from the outside
- Range, switch-on threshold and follow-up time may be set with a potentiometer
- Optional connection of additional lights controlled by the one microwave detector

Technical data

Light

LED circuit board securely mounted
Colour temperature: 4000 K neutral white
Luminous flux of LED: 1400 lm
Luminous flux of light: 1000 lm
Peak: 312 cd

Efficiency: 83 lm/W

CRI: 81,3 / TM30: 80,4

230 V AC +/- 10 % 50 / 60 Hz

12 W / PF 0.94

IP40 / Class I

IK02 (0,2 Joule)

-20 °C to +40 °C

Coated sheet steel case with LED circuit board, plastic cover
Appearance: PMMA diffuser, white

Ø 300 x 110 mm

Photobiological safety RG0

Microwave detector

1200 W, cos phi = 1
600 VA, cos phi = 0.5

vertical 360°

5,8 GHz, <10 mW

Ø 0.4 - 16 m

2 - 2000 Lux

5 s - 15 min

L9-LEDN-HF

Product and accessory

Description	Colour	Part number
L9-LEDN-HF with (HF-) microwave detector	white	94457
L9-LEDN without (HF-) microwave detector	white	94458
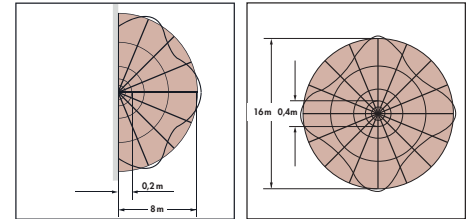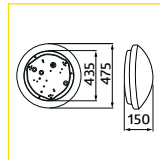
① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3.7	559
2.0	7.5	140
3.0	11.2	62
4.0	15.0	35
5.0	18.7	22
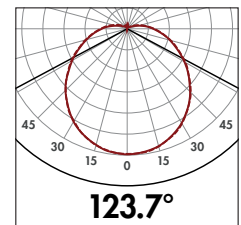
123.7°

Product information

- Round LED light for wall or ceiling mounting with integrated microwave detector
- Good energy efficiency and long life using premium-quality LED technology
- Broad light distribution using diffuse light cover
- Extremely short activation time
- Microwave detector not visible from the outside
- Range, switch-on threshold and follow-up time may be set with a potentiometer
- Optional connection of additional lights controlled by the one microwave detector

Technical data

Light

LED circuit board securely mounted
Colour temperature:
L9-LEDN-HF: 4000 K neutral white
L9-LEDW-HF: 3000 K warm white
Luminous flux of LED: 2800 lm
Luminous flux of luminiare: 2200 lm
Peak: 559 cd

Efficiency: 92 lm/W

CRI 82,1 / TM30: 81.5

230 V AC +/- 10 % 50 / 60 Hz

24 W

IP40 / Class I

IK02 (0,2 Joule)

-20 °C to +40 °C

Coated sheet steel case with LED circuit board, plastic cover
Appearance: PMMA-Diffusor white

Ø 475 x 150 mm

Photobiological safety RG0

Microwave detector

1200 W, cos phi = 1
600 VA, cos phi = 0.5

vertical 360°

5,8 GHz, <10 mW

Ø 0.4 - 16 m

2 - 2000 Lux

5 s - 15 min

LUXOMATIC®

LED indoor lights

Product and accessory

Description	Colour	Part number
AL8-25-300-LEDN-HF	white	93631
AL8 protection ring	white	93014
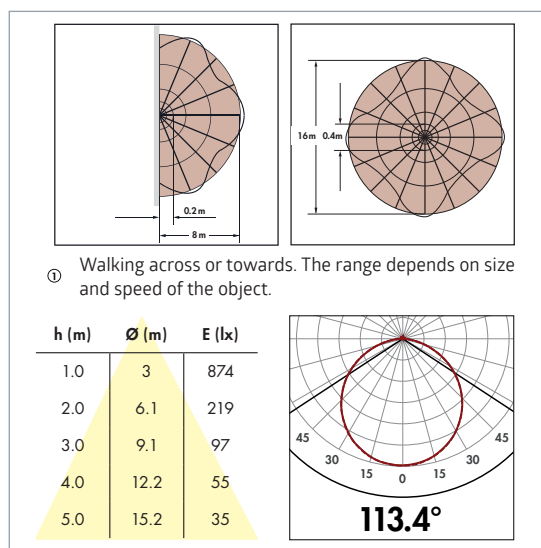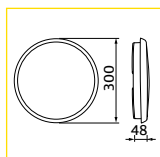
① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3	874
2.0	6.1	219
3.0	9.1	97
4.0	12.2	55
5.0	15.2	35

113.4°

Product information

- Extremely flat round LED light for wall or ceiling mounting
- Robust plastic case (polycarbonate) with high fire protection rating
- Integrated (HF-) microwave sensor, not visible from the outside, wide detection range
- DIP switches to set follow-up time, switch-on threshold and sensor sensitivity.
- Energy efficient light with long service life >40,000 hours
- Broad light distribution using diffuse light cover
- Simple mounting with separate mounting bracket
- Protector ring against vandalism available as accessory

Technical data

Light

LED — LED circuit board securely mounted
Colour temperature: 4000 K neutral white
Luminous flux of light: 2100 lm
Peak: 864 cd

Efficiency: 84 lm/W

CRI / TM30 — CRI: 84 / TM30: 82

200 - 240 V AC 50 Hz

25 W / PF 0.91

IP20 / Class II

IK08 (5.0 Joule)

Class V0

-15 °C to +35 °C

Impact and UV-resistant polycarbonate
Appearance: polycarbonate diffuser, white

Ø 300 x 48 mm

RG — Photobiological safety RG0

Microwave detector

vertical 360°

5.8 GHz, <10 mW

Ø 2 - 12 m

inactive / 5 - 50 Lux

20 s - 10 min

AL8-25-300-LED-3C

Product and accessory

Description	Colour	Part number
AL8-25-300-LED-3C	white	93621
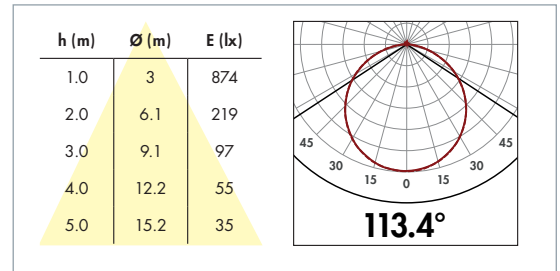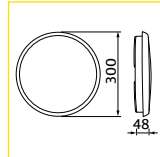
h (m)	Ø (m)	E (lx)
1.0	3	874
2.0	6.1	219
3.0	9.1	97
4.0	12.2	55
5.0	15.2	35

113.4°

5700 K	4000 K	3000 K

Product information

- Extremely flat round LED light for wall or ceiling mounting
- Robust and water-resistant plastic case (polycarbonate) with high fire protection rating
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Energy efficient light with long service life >40,000 hours
- Broad light distribution using diffuse light cover
- Every colour temperature is externally dimmable
- Simple mounting with separate mounting bracket
- Protector ring against vandalism available as accessory

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (2000 lm, 80 lm/W)
4000 K neutral white (2100 lm, 84 lm/W)
5700 K cool white (2120 lm, 85 lm/W)

CRI: 84 / TM30: 82

200 - 240 V AC 50 Hz

25 W PF 0.91

IP54 / Class II

IK08 (5.0 Joule)

Class V0

-15 °C to +35 °C

Impact and UV-resistant polycarbonate
Appearance: polycarbonate diffuser, white

Ø 300 x 40 mm

Photobiologica safety RG0

LED indoor lights

Product and accessory

Description	Colour	Part number
AL8-25-300-LED-3C-HF	white	93141
AL8 protection ring	white	93014

① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3	874
2.0	6.1	219
3.0	9.1	97
4.0	12.2	55
5.0	15.2	35

113.4°

| 5700 K | 4000 K | 3000 K |

Product information

- Extremely flat round LED light for wall or ceiling mounting
- Robust plastic case (polycarbonate) with high fire protection rating
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Integrated (HF-) microwave sensor, not visible from the outside, wide detection range
- DIP switches to set follow-up time, switch-on threshold and sensor sensitivity
- Energy efficient light with long service life >40,000 hours
- Broad light distribution using diffuse light cover
- Easy mounting with separate mounting bracket
- Protector ring against vandalism available as accessory

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (2000 lm, 80 lm/W)
4000 K neutral white (2100 lm, 84 lm/W)
5700 K cool white (2120 lm, 85 lm/W)

CRI: 84 / TM30: 82

200 - 240 V AC 50 Hz

25 W / PF 0.91

IP20 / Class II

IK08 (5.0 Joule)

Class V0

-15 °C to +35 °C

Impact and UV-resistant polycarbonate
Appearance: polycarbonate diffuser, white

Ø 300 x 48 mm

Photobiological safety RG0

Microwave detector

vertical 360°

5.8 GHz, <10 mW

Ø 2 - 12 m

inactive / 5 - 50 Lux

20 s - 10 min

AL12-25-300-LED-3C

LED indoor lights

Product and accessory

Description	Colour	Part number
AL12-25-300-LED-3C	white	93615
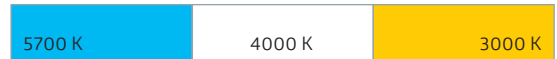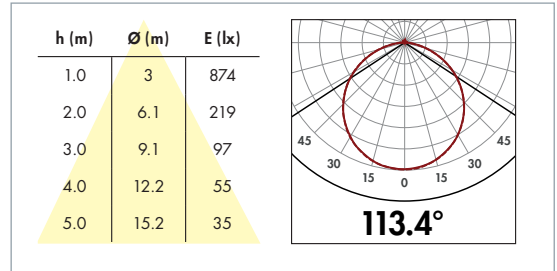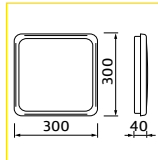
h (m)	Ø (m)	E (lx)
1.0	3	874
2.0	6.1	219
3.0	9.1	97
4.0	12.2	55
5.0	15.2	35

113.4°

5700 K	4000 K	3000 K

Product information

- Extremely flat LED light for wall or ceiling mounting
- Robust plastic case (polycarbonate) with high fire protection rating
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Energy efficient light with long service life >40,000 hours
- Broad light distribution using diffuse light cover
- Every colour temperature is externally dimmable
- Easy mounting with separate mounting bracket

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (2000 lm, 80 lm/W)
4000 K neutral white (2100 lm, 84 lm/W)
5700 K cool white (2120 lm, 85 lm/W)

CRI / TM30: CRI: 84 / TM30: 82

200 - 240 V AC 50 Hz

25 W PF 0.91

IP54 / Class II

IK08 (5.0 Joule)

Class V0

-15 °C to +35 °C

Impact and UV-resistant polycarbonate
Appearance: polycarbonate diffuser, white

300 x 300 x 40 mm

RG Photobiologica safety RG0

LED indoor lights

Product and accessory

Description	Colour	Part number
AL12-25-300-LED-3C-HF	white	93145

① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3	874
2.0	6.1	219
3.0	9.1	97
4.0	12.2	55
5.0	15.2	35

113.4°

5700 K	4000 K	3000 K

Product information

- Extremely flat LED light for wall or ceiling mounting
- Robust plastic case (polycarbonate) with high fire protection rating
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Integrated (HF-) microwave sensor, not visible from the outside, wide detection range
- DIP switches to set follow-up time, switch-on threshold and sensor sensitivity
- Energy-efficient light with a long service life >40,000 h
- Broad light distribution using diffuse light cover
- Easy mounting with separate mounting bracket

Technical data

Light

LED LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (2000 lm, 80 lm/W)
4000 K neutral white (2100 lm, 84 lm/W)
5700 K cool white (2120 lm, 85 lm/W)

CRI/TM30 CRI: 84 / TM30: 82

200 - 240 V AC 50 Hz

25 W / PF 0.91

IP20 / Class II

IK08 (5.0 Joule)

Class V0

-15 °C to +35 °C

Impact and UV-resistant polycarbonate
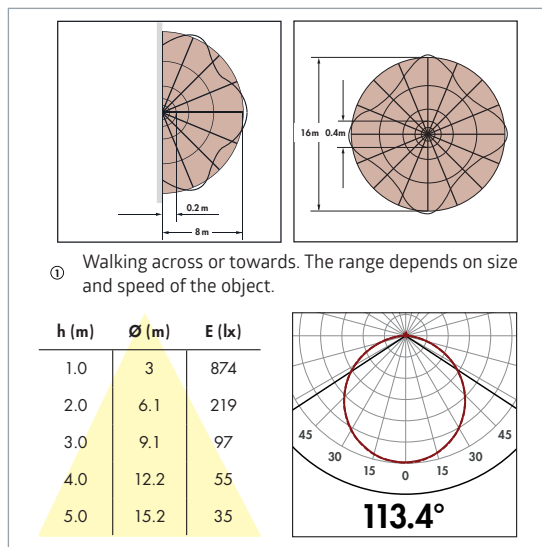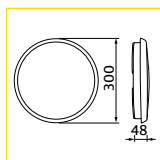Appearance: polycarbonate diffuser, white

300 x 300 x 48 mm

RG Photobiological safety RG0

Microwave detector

vertical 360°

5.8 GHz, <10 mW

Ø 2 - 12 m

inactive / 5 - 50 Lux

20 s - 10 min

HF-L7 and -L8

LED indoor lights

Product and accessory

Description	Colour	Part number
HF-L7 round light PC with (HF-) microwave detector	white	94450
HF-L8 round light PMMA with (HF-) microwave detector	white	94445
L7 round light PC without (HF-) microwave detector	white	94451
L8 round light PMMA without (HF-) microwave detector	white	94446
Energy-saving lamp E27 - 15W (replaces conventional 60W bulb), Energy-class A	-	38158
LED lamp E27 -10W / E27 (replaces conventional 60W bulb), Energy efficiency class A+	-	38157

① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3.7	27
2.0	7.4	7
3.0	11.0	3
4.0	14.7	2
5.0	18.4	1

122.9°
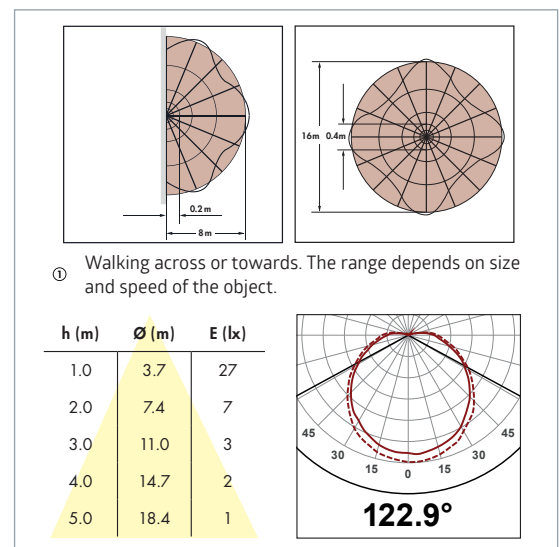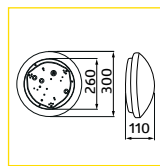
Product information

- Wall and ceiling light with integrated microwave detector
- Range, switch-on threshold and follow-up time may be set with a potentiometer
- Extremely short activation time
- Possibility to connect other lights which are also controlled by the one microwave detector
- Polycarbonate is appropriate for areas where greater impact resistance is required (e.g. schools, public buildings)
- Lamp not included

Technical data

Light

- E27 — max. 23 W with E27 bulb socket
- 230 V AC +/- 10 % 50 / 60 Hz
- IP40 / Class I
- HF-L8: IK02 (0.2 Joule)
  HF-L7: IK06 (1.0 Joule)
- -10 °C to +40 °C
- HF-L8: Acrylic glass
  HF-L7: Polycarbonate
- Ø 300 x 110 mm

Microwave detector

- 1200 W, cos phi = 1
  600 VA, cos phi = 0.5
- vertical 360°
- 5.8 GHz, <10 mW
- Ø 0.4 - 16 m
- 2 - 2000 Lux
- 5 s - 15 min

LED indoor lights

Product and accessory

Description	Colour	Part number
HF-L11 round light PMMA with (HF-) microwave detector	white	94447
L11 round light PMMA without (HF-) microwave detector	white	94448
Energy-saving lamp E27 - 15W (replaces conventional 60W bulb), Energy-class A	-	38158
LED lamp E27 -10W / E27 (replaces conventional 60W bulb), Energy efficiency class A+	-	38157

① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3.9	317
2.0	7.9	79
3.0	11.8	35
4.0	15.7	20
5.0	19.6	13

126°
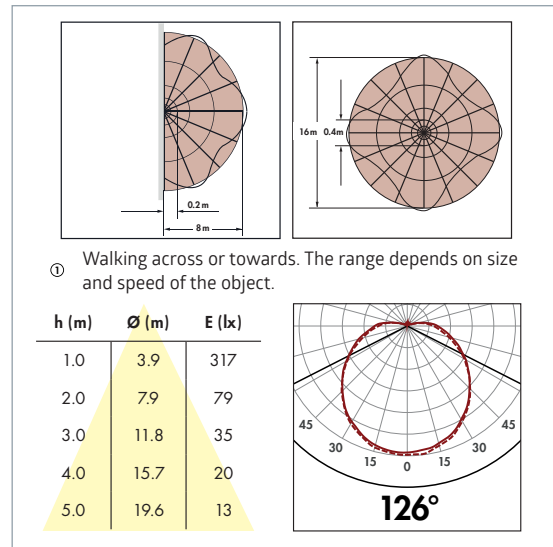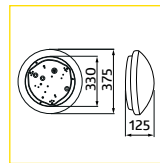
Product information

- Wall and ceiling light with integrated microwave detector
- Range, switch-on threshold and follow-up time may be set with a potentiometer
- Extremely short activation time
- Possibility to connect other lights which are also controlled by the one microwave detector
- Supply without lamp

Technical data

Light

E27 — max. 2x 23 W with E27 bulb sockets

230 V AC +/- 10 % 50 / 60 Hz

IP — IP40 / Class I

IK02 (0.2 Joule)

-10 °C to +40 °C

Acrylic glass

Ø 375 x 125 mm

Microwave detector

1200 W, cos phi = 1
600 VA, cos phi = 0.5

vertical 360°

5.8 GHz, <10 mW

Ø 0.4 - 16 m

2 - 2000 Lux

5 s - 15 min

HF-L1 Glass

Product and accessory

Description	Colour	Part number
HF-L1 round light Glass with (HF-) microwave detector	white	94440
L1 round light Glass without (HF-) microwave detector	white	94453
Sealing ring IP54 HF-L1	-	37849
Energy-saving lamp E27 - 15W (replaces conventional 60W bulb), Energy-class A	-	38158
LED lamp E27 -10W / E27 (replaces conventional 60W bulb), Energy efficiency class A+	-	38157

① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3.6	57
2.0	7.2	14
3.0	10.8	6
4.0	14.4	4
5.0	18.1	2

122.1°

Product information

- Wall and ceiling light with integrated microwave detector
- Range, switch-on threshold and follow-up time may be set with a potentiometer
- Extremely short activation time
- Possibility to connect other lights which are also controlled by the one microwave detector
- Supply without lamp

Technical data

Light

- E27 — max. 23 W with E27 bulb socket
- 230 V AC +/- 10 % 50 / 60 Hz
- IP40 / Class I
- IK02 (0.2 Joule)
- -10 °C to +40 °C
- silk-mat glass
- Ø275 x 85 mm

Microwave detector

- 1200 W, cos phi = 1
  600 VA, cos phi = 0.5
- vertical 360°
- 5.8 GHz, <10 mW
- Ø 0.4 - 16 m
- 2 - 2000 Lux
- 5 s - 15 min

B.E.G. LUXOMAT®

Occupancy detectors for biodynamic light

"

PD4-M-HCL-SM part no. 93007
PD4-M-HCL-FC part no. 93006

All-in-one lighting control system PD4-M-HCL for PL1-LED-DALI-TW

Tunable white panel lights and occupancy detectors

- LED panel lights in very flat design for installation in suspended ceiling systems, with colour temperature adjustable from 2700 K to 6500 K

- Bidirectional occupancy detector with integrated DALI controller for energy-efficient and biologically effective lighting control (Human Centric Lighting)

- HCL technology: Daylight-dependent control of brightness and colour temperature with real-time clock

- Option of "PureColour" external colour temperature light sensor

LED   HCL   DALI

B.E.G. BiRC
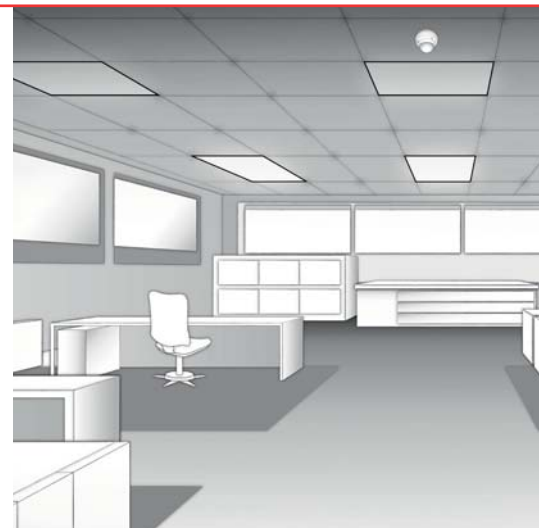
LED-Downlights

Accent lighting with built-in LED downlights

The design of these extremely flat LED downlights for interior use provides an even but accentuated distribution of light in the room, to highlight the features of an architecturally sophisticated setting.

The robust plastic case is splash-resistant on its underside, enabling installation in commercial spaces with high humidity, e.g. shower rooms.

A slide switch on the device offers a choice of three colour temperatures, warm white (3000 K), neutral white (4000 K) or daylight white (5700 K). Each colour temperature is also externally dimmable. Built into the ceiling and suitable for any arrangement of room, they let you create an individual lighting atmosphere.

LED

DL10-18-172-LED-3C

LED Downlights

Product and accessory

Description	Colour	Part number
DL10-18-172-LED-3C	white	93098

h (m)	Ø (m)	E (lx)
1.0	3	828
2.0	6.1	207
3.0	9.1	92
4.0	12.2	52
5.0	15.2	33

96.6°
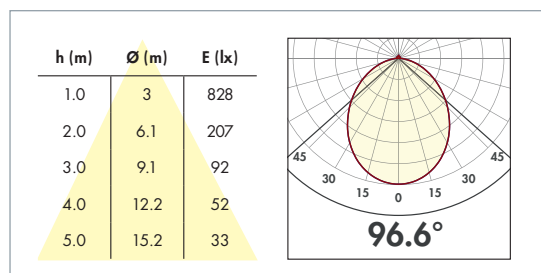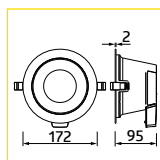
5700 K	4000 K	3000 K

Product information

- LED-Downlight for false ceiling mounting
- Sturdy plastic case with integrated ballast
- Broad light distribution using diffuse light cover
- Very flat, white cover ring
- Splash-proof on the underside (IP54), top housing IP40
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Energy-efficient light with long service life >50,000 hours
- Every colour temperature is externally dimmable
- Simple mounting and electrical connection

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (2000 lm, 80 lm/W)
4000 K neutral white (2100 lm, 84 lm/W)
5700 K cool white (2120 lm, 85 lm/W)
Peak: 830 cd

CRI: 83 / TM30: 81

200 - 240 V AC 50/60 Hz

18 W / PF 0.95

IP40 / Class II

-15 °C to +35 °C

Plastic, Optik: Diffusor white
Ø 172 x 95 mm
Mounting opening Ø 150 - 165 mm

Photobiological safety RG0

LUXOMATIC®

DL11-18-172-LED-3C

Product and accessory

Description	Colour	Part number
DL11-18-172-LED-3C	white	93128

h (m)	Ø (m)	E (lx)
1.0	3	954
2.0	6.1	238
3.0	9.1	106
4.0	12.2	60
5.0	15.2	38

61.5°
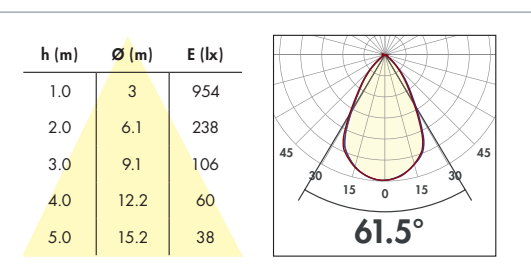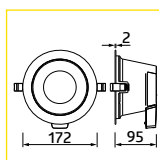
5700 K	4000 K	3000 K

Product information

- LED-Downlight for false ceiling mounting
- Sturdy plastic case with integrated ballast
- Aluminium reflector with good glare reduction UGR<19
- Very flat, white cover ring
- Splash-proof on the underside (IP54), top housing IP40
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Energy-efficient light with long service life >50,000 hours
- Every colour temperature is externally dimmable
- Simple mounting and electrical connection

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (2000 lm, 80 lm/W)
4000 K neutral white (2100 lm, 84 lm/W)
5700 K cool white (2120 lm, 85 lm/W)
Peak: 1530 cd

CRI / TM30: CRI: 83 / TM30: 82

200 - 240 V AC 50/60 Hz

18 W / PF 0.95

IP40 / Class II

UGR < 19

-15 °C to +35 °C

Plastic, Optics: Alumininium reflector
Ø 172 x 95 mm
Mounting opening Ø 150 - 165 mm

RG Photobiological safety RG0

LED Downlights

Product and accessory

Description	Colour	Part number
DL12-18-172-LED-3C	white	93168

h (m)	Ø (m)	E (lx)
1.0	3	954
2.0	6.1	238
3.0	9.1	106
4.0	12.2	60
5.0	15.2	38

83.3°
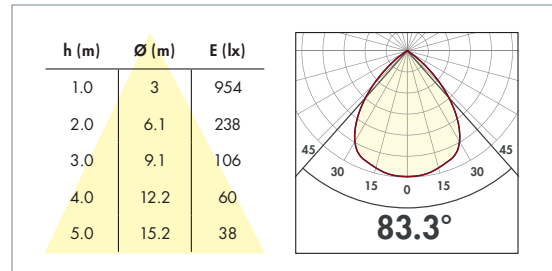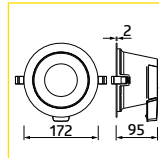
5700 K	4000 K	3000 K

Product information

- LED-Downlight for false ceiling mounting
- Sturdy plastic case with integrated ballast
- Aluminium reflector with facets for good glare reduction
- Very flat, white cover ring
- Splash-proof on the underside (IP54), top housing IP40
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Energy-efficient light with long service life >50,000 hours
- Every colour temperature is externally dimmable
- Simple mounting and electrical connection

Technical data

Light

LED circuit board securely mounted
Selectable colour temperatures:
3000 K warm white (2000 lm, 80 lm/W)
4000 K neutral white (2100 lm, 84 lm/W)
5700 K cool white (2120 lm, 85 lm/W)
Peak: 975 cd

CRI: 83 / TM30: 81

200 - 240 V AC 50/60 Hz

18 W / PF 0.95

IP40 / Class II

-15 °C to +35 °C

Plastic, optics: facetted alumininium reflector
Ø 172 x 95 mm
Mounting opening Ø 150 - 165 mm

Photobiological safety RG0

LED occupancy detector

Motion detection combined with orientation lighting

For the first time, the functionality of a ceiling occupancy detector is being combined with LED orientation lighting in a single housing with this new development. The LED orientation lighting is designed here as an illuminated ring around the sensor lens. After automatic switch-off of the main light, the orientation light can be activated for an adjustable time or even permanently.

The occupancy detector with a detection range of 10 m provides a variety of options for individual adaptation to the local conditions in addition to the integrated daylight control.

All parameters can be set to values suitable to individual needs and read out via compatible smartphones using the B.E.G. remote control app in combination with the IR adapter.

To extend the occupancy detector's range, it can simply be connected to additional PD2N-LED configured as slave devices. The combination of orientation lighting and automatic lighting control provides a considerable increase in comfort and energy savings.

LED

Occupancy detector with LED orientation light

PD2N-M-1C-LED

Product and accessory

Description	Colour	Part number
PD2N-M-1C-LED-FC	white	94055
IR-Adapter for Smartphones	black	92726
RC-Arc extinction kit	white	10880
Mini-RC-Arc extinction kit	black	10882

① Walking across
② Walking towards
③ Smaller mouvements
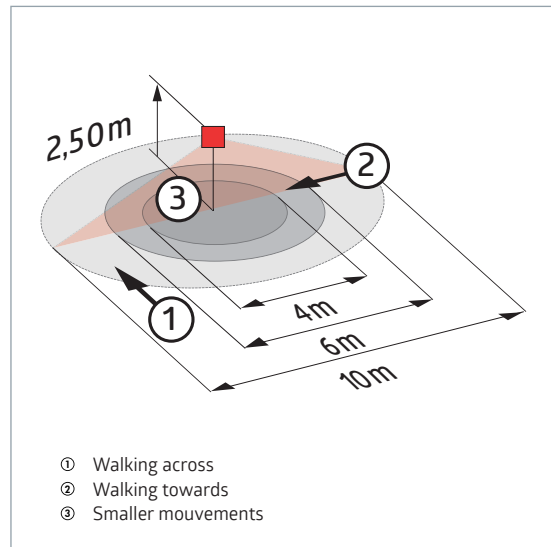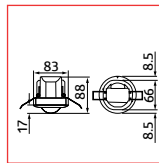
Product information

- Remote control-capable occupancy detector for inside use with circular detection area
- Integrated LED light as separately adjustable orientation- and night light
- One channel for light switching
- Many adjustment and reading options via the bidirectional B.E.G. Smartphone-App
- Extension of the detection range possible by using up to 5 other PD2N-M-1C-LED
- Can be used as either Master device or Slave device

Technical data

∿	110 - 240 V AC 50 / 60 Hz
⏻	approx. 0.3 W / approx. 2 W with LED lighting
	360°
	max. Ø 10 m across
	max. Ø 6 m towards
	max. Ø 4 m smaller mouvements
↕	2.5 m
IP □	IP20 / Class II
🌡	-20 °C to +40 °C
□	PC, with sensor, power supply and LED light
📶	IR-Adapter for Smartphones (Samsung or iPhone only), IR-PD-Mini
⌐	Ø 83 x 88 mm
	Channel 1 (lighting control, potential-free (dry))
	2300 W, cos φ = 1
/	1150 VA, cos φ = 0.5
	max. inrush current IP (20 ms) = 165 A
	1x µ-contact, dry contact NO with tungsten pre-make contact
	10 s - 18 h
☼	10 - 2000 Lux
	LED orientation/-night light
※	20 % - 100 % / OFF / 10 s - 18 h

LED outdoor lights

Optimum illumination for exterior spaces

Whether for house entrances or warehouse loading bays, lighting of exterior spaces makes a major contribution to the safety of properties. For large or small spaces, for more or less light, B.E.G. has the right solution for your project.

With the right technology, LEDs make it possible to achieve a high light output with low energy consumption. The B.E.G. engineers have developed floodlights to take full advantage of this. As usual with us, in addition to energy-saving features, we put the accent on a high level of functionality twinned with easy installation and contemporary design.

The LED floodlights are available with integrated motion detector, which can also be programmed by remote control. Mounting the floodlight is as easy as can be: once the wall socket has been fastened and wired up, the floodlight head can be clipped on by hand, without requiring tools. After mounting, the head can be moved to practically any position.

LED · ☀ · IK · RG 0

LED outdoor lights

Product and accessory

Description	Colour	Part number
LED floodlight FL2N-LED-230 with motion detector	white	92627
LED floodlight FL2N-LED-230 with motion detector	black	92626
LED floodlight FL2N-LED without motion detector	white	92599
LED floodlight FL2N-LED without motion detector	black	92598
IR-RC	–	92000
IR-RC-Mini	–	92090
IR-Adapter for Smartphones	black	92726
Diffusion lens set FL2N	transparent/opal	38003

① Walking across
② Walking towards
③ Anti-creep protection

h (m)	Ø (m)	E (lx)
1.0	3.1	745
2.0	6.2	186
3.0	9.3	83
4.0	12.4	47
5.0	15.4	30

114.1°
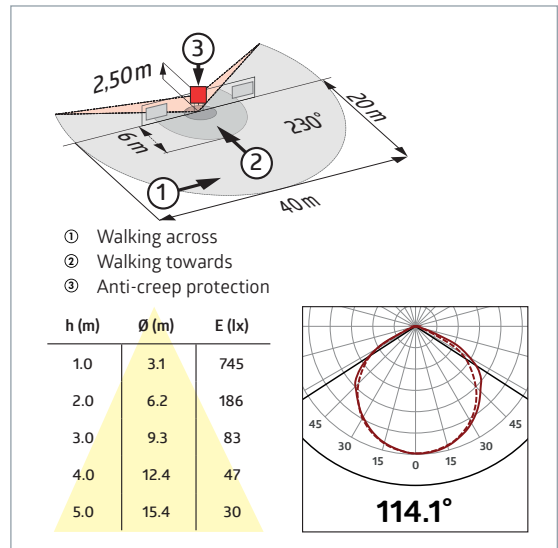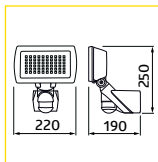
Product information

- Pivoable LED floodlight with motion detector for exterior wall mounting

- Floodlight can be pivoted on three axes, direction can be fixed with locking device

- Highly robust cast aluminium case with corrosion-resistant stainless steel screws

- Easy mounting of base with electrical connection, insertion of light, and locking of floodlight

- High energy efficiency and long life using premium-quality LED technology and good thermal management

- Broad light distribution for even illumination of large surfaces

- PIR detector with large detection area and anti-creep zone

Technical data

Light

LED circuit board securely mounted
Colour temperature: 4000 K neutral white
Luminous flux of light:2100 lm
Peak: 1006 cd

Efficiency: 81 lm/W

CRI: 84.1 / TM30: 82.8

110 - 240 V AC 50 / 60 Hz

26 W / PF 0.89

IP44 / Class I

IK07 (2.0 Joule)

-20 °C to +40 °C

Case die-cast aluminum, lower section UV-resistant polycarbonate
Appearance: glass cover, clear

220 x 190 x 250 mm

Photobiologica safety RG0

Motion detector

2300 W, cos phi = 1
1150 VA, cos phi = 0.5

horizontal 230°

max. 20 m across
max. 6 m towards
max. 4 m Anti-creep able

2 - 2000 Lux

15 s - 16 min, pulse

IR-Adapter for Smartphones, IR-RC, IR-RC-Mini

LUXOMATIC®

FL3N-LED-130

Product and accessory

Description	Colour	Part number
LED floodlight FL3N-LED-130 with motion detector	white	92629
LED floodlight FL3N-LED-130 with motion detector	black	92628
LED floodlight FL3N-LED without motion detector	white	92703
LED floodlight FL3N-LED without motion detector	black	92702
Diffusion lens set FL3N	transparent/opal	38004

① Walking across
② Walking towards

h (m)	Ø (m)	E (lx)
1.0	3.1	745
2.0	6.2	186
3.0	9.3	83
4.0	12.4	47
5.0	15.4	30

114.1°
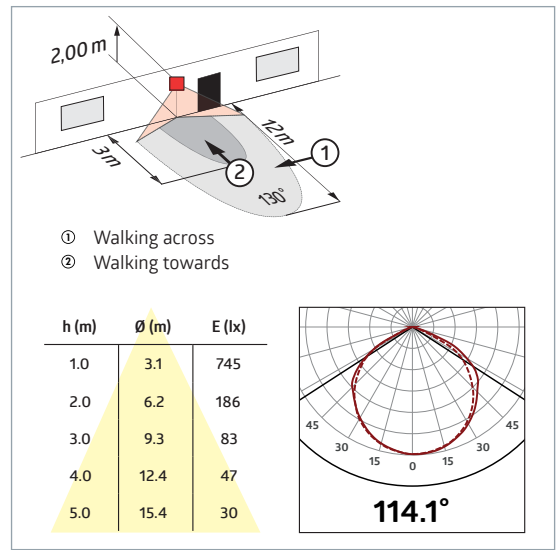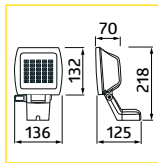
Product information

- Pivoting LED floodlight with motion detector for exterior wall mounting
- Direction can be fixed with locking device
- Highly robust cast aluminium case with corrosion-resistant stainless steel screws
- Easy mounting of base with electrical connection, insertion of light, and locking of floodlight
- High energy efficiency and long life using premium-quality LED technology and good thermal management
- Broad light distribution for even illumination of large surfaces
- Integrated motion detector with narrow detection area for pathes and staircases
- Additional lights can be switched simultaneously by the one motion detector
- Settings via potentiometers

Technical data

Light

LED circuit board securely mounted
Colour temperature: 4000 K neutral white
Luminous flux: 1050 lm
Peak: 539 cd

Efficiency: 75 lm/W

CRI: 82.8 / TM30: 82.7

110 - 240 V AC 50 / 60 Hz

14 W / PF 0.7

IP44 / Class I

IK05 (0.7 Joule)

-20 °C to +40 °C

Case die-cast aluminum, lower section UV-resistant polycarbonate
Appearance: glass cover, clear

136 x 125 x 218 mm

Photobiological safety RG0

Motion detector

1000 W, cos phi = 1
500 VA, cos phi = 0.5

horizontal 130°

max. 10 m across
max. 3 m towards

5 - 2000 Lux

30 s - 30 min, pulse

LUXOMATIC®

LED outdoor lights

Product information and accessory

Description	Colour	Part number
ALC-B-360 SLU with motion detector	white	91301
ALC-B-360 SLU with motion detector	black	91321
ALC-K-360 with motion detector incl. system glass Crystal	white	91306
ALC-K-360 with motion detector incl. system glass Crystal	black	91326
ALC-ES corner socket	white	91305
ALC-ES corner socket	black	91325
Energy-saving lamp E27 - 15W (replaces conventional 60W bulb), Energy-class A	–	38158
LED lamp E27 -10W / E27 (replaces conventional 60W bulb), Energy efficiency class A+	–	38157
Spare glass for ALC-K	–	94115

① Walking across
② Walking towards
③ Anti-creep protection

h (m)	Ø (m)	E (lx)
1.0	–	51
2.0	–	13
3.0	–	6
4.0	–	3
5.0	–	2

230.8°
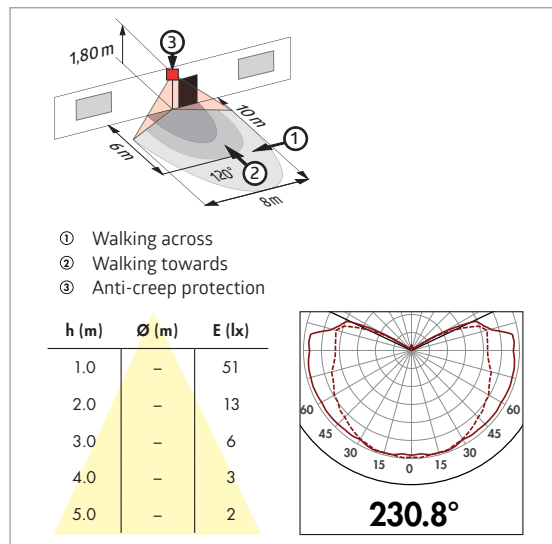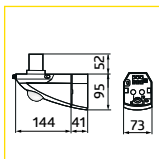
Product information

- System light lower sections ALC-B / -K with motion detector and photoelectric switch
- Can be used as photoelectric switch thanks to holiday and comfort function
- ALC-B combinable with various system glasses. ALC-K includes system glass Crystal!
- Wall or outer corner installation
- Time-saving single-handed plug-in base installation
- Optional connection of additional lights switched by the one motion detector
- Supply without lamp

Technical Data

Light

- E27   max. 100 W with E27 bulb socket
- 230 V AC +/- 10 % 50 / 60 Hz
- IP44 /Class II
- -10 °C to +40 °C
- Polycarbonate, UV-resistant
- 73 x 95 x 185 mm

Motion detector

- 1000 W, cos phi = 1
  500 VA, cos phi = 0.5
- horizontal 180°
- max. 10 m across
  max. 6 m towards
  max. 4 m anti-creep zone
- 2 - 1000 Lux
- 4 s - 10 min

LUXOMATIC®

System globes

Product and Accessory

Description	Colour	Part number
SG Vienna- white	white	94113
SG Crystal- transparent	transparent	94100
SG Oslo - transparent	transparent	94101
SG Paris - transparent /white	transparent /white	94111

SG Vienna

Opal - glossy

Ø 200 x H 210 mm
support opening Ø 82 mm

■ For combination with system light lower section LUXOMATIC® ALC-B-360.

SG Crystal

Bubble shade glass - graphit

Ø 215 x H 220 mm
support opening Ø 82 mm

■ For combination with system light lower section LUXOMATIC® ALC-B-360.

SG Oslo

Bubble shade glass - Crystal

Ø 215 x H 220 mm
support opening Ø 82 mm

■ For combination with system light lower section LUXOMATIC® ALC-B-360.

SG Paris

Crystal - white

Ø 215 x H 245 mm
support opening Ø 82 mm

■ For combination with system light lower section LUXOMATIC® ALC-B-360.

LED outdoor lights

Product and Acessory

Description	Colour	Part number
AL1-130 with motion detector	white	91400
AL1-130 with motion detector	black	91402
AL1-130 with motion detector	brown	91401
Energy-saving lamp E27 - 15W (replaces conventional 60W bulb), Energy-class A	–	38158
LED lamp E27 -10W / E27 (replaces conventional 60W bulb), Energy efficiency class A+ ■ –		38157

① Walking across
② Walking towards

h (m)	Ø (m)	E (lx)
1.0	6.1	36
2.0	12.2	9
3.0	18.3	4
4.0	24.4	2
5.0	30.5	1

143.7°
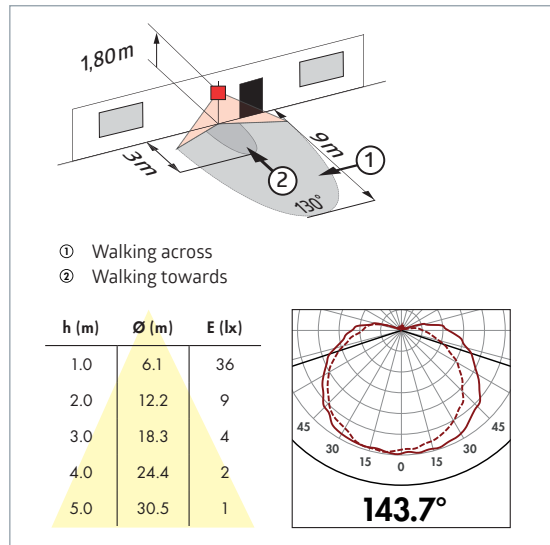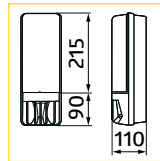
Product information

- ■ AL1 all-purpose light with 130° motion detector
- ■ Additional lights can be switched simultaneously by the one motion detector
- ■ Potentiometer for adjustment of follow-up time and switch-on threshold behind detachable cover
- ■ Supply without lamp

Technical data

Light

- E27   max. 60 W with E27 bulb socket
- 230 V AC +/- 10 % 50 / 60 Hz
- IP44 / Class II
- -10 °C to +40 °C
- Polycarbonate, UV-resistant
- 110 x 95 x 315 mm

Motion detector

- 1000 W, cos phi = 1
  500 VA, cos phi = 0.5
- horizontal 130°
- max. 9 m across
  max. 3 m towards
- 2 - 1000 Lux
- 4 s - 10 min

LUXOMATIC®

LED moisture-proof lights

Safe lighting in moisture-proof applications (IP65)

In many applications, lighting must meet high levels of safety, for example in laboratories, swimming pools or underground garages. Our LED lights for moisture-proof applications have a robust, water-resistant case (protection class IP65). They are therefore highly suitable for installation in demanding environments.

As well as simple lights for moisture-proof applications, B.E.G. also offers models for fast lighting automation, which are equipped with either microwave or PIR motion detectors. This improves efficiency, as lighting is only activated when movement is detected.

The use of microwave detectors allows temperature-independent detection of movements with a very short response time. As detection is also possible through walls, they are especially suitable for applications with no direct line of sight. The HF detectors are integrated into the light and are invisible from the outside.

The PIR detectors are extremely small, but have a large detection area. The detector is fitted with an IP65 cover only 4 cm in diameter, integrated into the case.
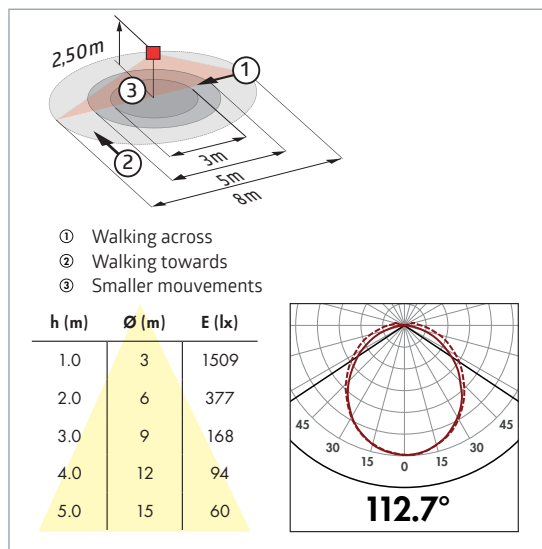
LED   RADAR   IK   RG 0   E27

Moisture-Proof LED lights

AL60-LEDN-PD9M

Product and accessory

Description	Colour	Part number
Moisture-Proof light AL60-LEDN-PD9M with motion detector	grey	91751
Moisture-Proof light AL60-LEDN without motion detector	grey	91746
IR-PD-Mini	–	92159
IR-PD-1C	–	92520
IR-PD-1C-E	–	92077
IR-Adapter for Smartphones	black	92726

① Walking across
② Walking towards
③ Smaller mouvements

h (m)	Ø (m)	E (lx)
1.0	3	1509
2.0	6	377
3.0	9	168
4.0	12	94
5.0	15	60

112.7°
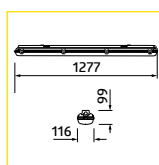
Product information

- LED light for moisture-proof applications with integrated PIR occupancy detector
- Stainless steel clips make the light easy to open
- Wall or ceiling mounting - attach to supplied metal bracket or use screws through the case
- Good energy efficiency and long life using premium-quality LED technology
- Good heatsink capability via solid aluminium mounting plate
- Broad light distribution using diffused light covers
- Mini occupancy detector included, power unit integrated into light
- Easy control using required remote control, manual switching possible via push buttons
- Blinds included, can be installed from outside the device
- Additional lights can be controlled simultaneously by the one occupancy detector

Technical data

Light

LED circuit board securely mounted
Colour temperature: 4000 K neutral white
Luminous flux of LED: 4400 lm
Luminous flux of luminaire: 3900 lm
Peak: 1509 cd

Efficiency: 111 lm/W

CRI: 83.7 / TM30: 82.3

230 V AC +/- 10 % 50 / 60 Hz

35 W / PF 0.94

IP65 / Class I

IK06 (1,0 Joule)

-20 °C to +40 °C

Shock-resistant polycarbonate case.
LED circuit board on aluminum mounting plate
Cover: PMMA diffuser, white

1277 x 116 x 99 mm

Photobiological safety RG0

Occupancy detector

2300 W, cos phi = 1
1150 VA, cos phi = 0.5

vertical

max. Ø 8 m across
max. Ø 5 m towards
max. Ø 3 m smaller movements

10 - 2000 Lux

5 min - 30 min, pulse

IR-Adapter for Smartphones, IR-PD-1C, IR-PD-Mini

LUXOMATIC®

AL60-LEDN-HF

Moisture-Proof LED lights

Product and accessory

Description	Colour	Part number
Moisture-Proof light AL60-LEDN-HF	grey	91747
Moisture-Proof light AL60-LEDN without motion detector	grey	91746

1277
99
116
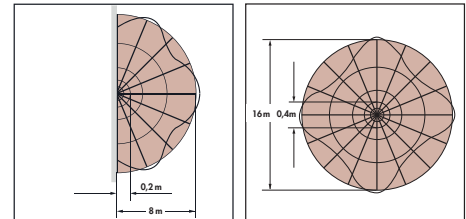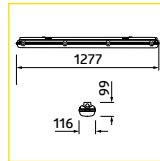
① Walking across or towards. The range depends on size and speed of the object.

h (m)	Ø (m)	E (lx)
1.0	3	1509
2.0	6	377
3.0	9	168
4.0	12	94
5.0	15	60

112.7°
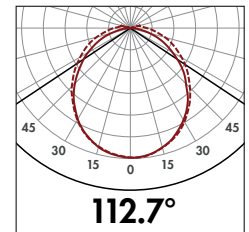
Product information

- LED light for moisture-proof applications with integrated microwave detector
- Stainless steel clips make the light easy to open
- Wall or ceiling mounting - attach to supplied metal bracket or use screws through the case
- Good energy efficiency and long life using premium-quality LED technology
- Good heatsink capability via solid aluminium mounting plate
- Broad light distribution using diffused light covers
- Adjustments via potentiometers at the microwave detector
- Additional lights can be controlled simultaneously by the one microwave detector

Technical data

Light

LED circuit board securely mounted
Colour temperature: 4000 K neutral white
Luminous flux of LED: 4400 lm
Luminous flux of luminaire: 3900 lm
Peak: 1509 cd

Efficiency: 111 lm/W

CRI: 83.7 / TM30: 82.3

230 V AC +/- 10 % 50 / 60 Hz

35 W / PF 0.94

IP65 / Class I

IK06 (1.0 Joule)

-20 °C to +40 °C

Shock-resistant polycarbonate case. LED circuit board on aluminum mounting plate
Cover: PMMA diffuser, white

1277 x 116 x 99 mm

Photobiological safety RG0

Microwave detector

1200 W, cos phi = 1
600 VA, cos phi = 0.5

vertical 360°

5.8 GHz, <10 mW

Ø 0.4 - 16 m

10 - 2000 Lux

5 s - 15 min

B.E.G. SAFETYLUX®

Controlled safety

"

DT32/6/3SC-LED part no. 1207
DT32/6/3DALI-LED part no. 1210

2DN14/6/3SC-LED part no. 1200
2DN14/6/3DALI-LED part no. 1201
2DN32/6/3SC-LED part no. 1206
2DN32/6/3DALI-LED part no. 1215

Series Diamant DT32 LED and Classic-2DN LED

Intelligent emergency lights with LED technic

- LED escape sign luminaire with single battery

- Bidirectional remote control with B.E.G. smartphone app

- Automatic self-test with two coloured status LEDs

- Optionally with central monitoring B.E.G. DALISYS

DATA CONTROL N part no. 93805

LED

Self Test

beg-luxomat.com

B.E.G. BiRC

Remote controls

The B.E.G. IR-adapter for smartphones, the universal alternative to B.E.G. remote controls

Almost 15 years ago, B.E.G. was the first to offer a remote control-capable motion detector. Nowadays, almost all B.E.G. occupancy and motion detectors are remote control-capable. To make things easier, B.E.G. offers the remote control app.

What you need is a compatible Smartphone with internet connection and the B.E.G. LUXOMAT® remote control app, which is downloadable in the Google Play Store or the Apple Store. The update service ensures that the app is always up to date.

The app contains all current B.E.G. remote controls and therefore replaces more than 40 remote controls. The userfriendly navigation offers the possibility to search for the product to program or the respective remote control by name or part number. Therefore, the installer (or the user) quickly finds the right user interface.

The required B.E.G. IR-Adapter for Smartphones is simply plugged into the audio jack of the smartphone and establishes the communication with the respective detector. The battery is environmentally friendly thanks to being rechargeable and is charged via USB cable.
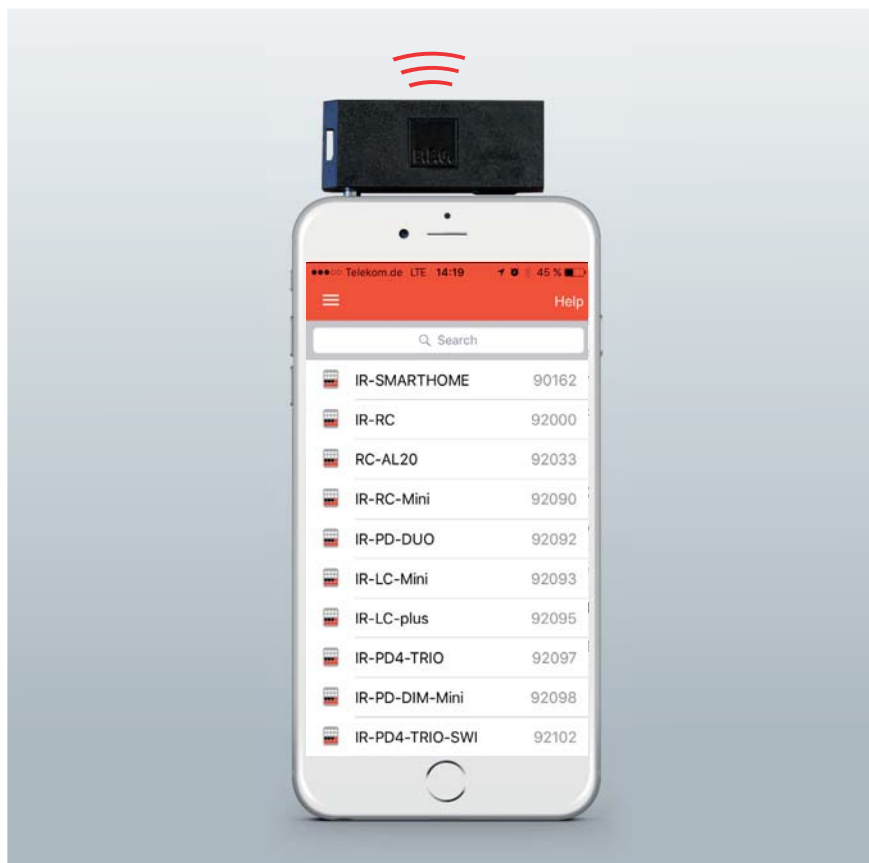
Remote controls

IR-Adapter for Smartphones

- Suitable for all lights and floodlights with integrated receiver diode

Description	Colour	Part number
IR-Adapter für Smartphones	black	92726
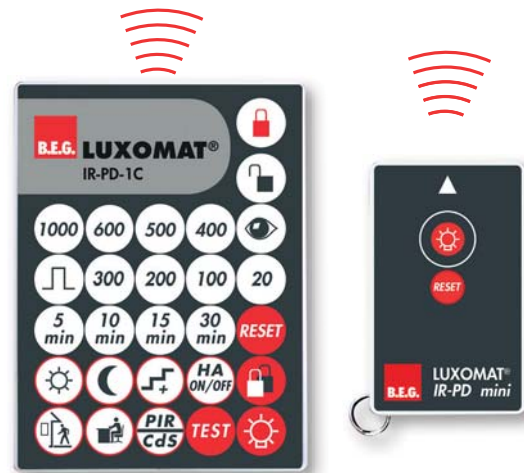
IR-PD-1C / IR-PD-Mini

- Suitable for AL60-LEDN-PD9M

Description	Colour	Part number
IR-PD-1C	–	92520
IR-PD-Mini	–	92159

IR-RC / IR-RC-Mini

- Suitable for FL2N-LED-230

Description	Colour	Part number
IR-RC	–	92000
IR-RC-Mini	–	92090

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Part No.	Description	Prod./Gr.	Page
10880	RC-Arc extinction kit	06	44
10882	Mini-RC-Arc extinction kit	06	44
37849	Sealing ring IP54 HF-L1	06	37
38003	Sealing ring FL2N	06	46
38004	Sealing ring FL3N	06	47
38140	Outer ring white	28	26
38141	Outer ring aluminium-white	28	26
38142	Outer ring yellow	28	26
38143	Outer ring red	28	26
38144	Outer ring anthracite	28	26
38157	LED lamp E27 -10W / E27 (replaces conventional 60W bulb), Energy efficiency class A+	06	35
38158	Energy-saving lamp E27 - 15W (replaces conventional 60W bulb), Energy-class A	06	35
91301	ALC-B-360 SLU white	02	48
91305	ALC-ES corner socket white	06	48
91306	ALC-K-360 white	02	48
91321	ALC-B-360 SLU black	02	48
91325	ALC-ES corner socket black	06	48
91326	ALC-K-360 black	02	48
91400	AL1 130 white	02	50
91401	AL1 130 brown	02	50
91402	AL1 130 black	02	50
91733	AL22-LEDN-HFR, without design ring white	28	27
91743	AL22-LEDN, without design ring white	28	27
91744	AL22-LEDW, without design ring white	28	27
91746	AL60-LEDN	02	52
91747	AL60-LEDN-HF	02	53
91751	AL60-LEDN-PD9M	02	52
92000	IR-RC	09	56
92077	IR-PD-1C-E	09	52
92090	IR-RC-Mini	09	56
92159	IR-PD-Mini	09	56
92520	IR-PD-1C	09	56
92598	FL2N-LED black	03	46
92599	FL2N-LED white	03	46
92626	FL2N-LED-230 black	03	46

Part No.	Description	Prod./Gr.	Page
92627	FL2N-LED-230 white	03	46
92628	FL3N-LED-130 black	03	47
92629	FL3N-LED-130 white	03	47
92702	FL3N-LED black	03	47
92703	FL3N-LED white	03	47
92726	IR-Adapter for Smartphones	09	56
93014	AL8-protection ring	06	30
93066	PL1-30120-LED-AG-DALI-TW	29	21
93077	PL1-31125-LED-AG-DALI-TW	29	20
93084	PL1-600-LED-AG-DALI-TW	29	19
93090	Suspension cable set PL1-LED canopy	06	23
93094	PL1-625-LED-AG-DALI-TW	29	18
93098	DL10-18-172-LED-3C	28	40
93099	Ceiling mounting frame for Module 600	06	23
93115	Securing wires 1000 mm	06	23
93117	Mounting bracket set 4 pieces	06	23
93128	DL11-18-172-LED-3C	28	41
93141	AL8-25-300-LEDN-3C-HF	28	32
93145	AL12-25-300-LEDN-3C-HF	28	34
93151	PL1-600-LED-AG-DALI-TW-S	29	19
93168	DL12-18-172-LED-3C	28	42
93173	Pendulum set 1000 mm with 4 ceiling mountings	06	23
93181	Ceiling mounting frame for 625 mm modular systems	06	23
93615	AL12-25-300-LED-3C	28	33
93621	AL8-25-300-LEDN-3C	28	31
93631	AL8-25-300-LEDN-HF	28	30
93667	PL2-30120D-LED-AG-DALI-TW	29	22
93681	PL1-625-LED-DALI-TW-S	29	
94055	PD2N-M-1C-LED-FC	13	44
94100	SG Kristall - transparent	11	49
94101	SG Oslo - transparent	11	49
94111	SG Paris - transparent/white	11	49
94113	SG Wien - white	11	49
94115	Spare glass for ALC-K	11	48
94440	HF-L1	28	37
94445	HF-L8	28	35

PRODUCT LISTING

Part No.	Description	Prod./Gr.	Page
94446	L8	28	35
94447	HF-L11	28	36
94448	L11	28	36
94450	HF-L7	28	35
94451	L7	28	35
94453	L1	28	37
94455	L8-LEDN-HF	28	28
94456	L8-LEDN	28	28
94457	L9-LEDN-HF	28	29
94458	L9-LEDN	28	29

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B.E.G. operates a policy of continuous product improvement and development.
And reserve the right to change the product specifications of any time. Errors excepted.

LUXOMATIC®

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