B.E.G.

ENVIRONMENT

NEW! NEU! NOUVEAU! ¡NUEVO!

www.beg-luxomat.com

Already heard of it?

News 2014

B.E.G. LUXOMAT®

Discover **energy-savings potentials** with OCCULOG* and convince your clients!

Knowing today about your energy-savings for tomorrow

It is common knowledge that energy can be saved by using occupancy detectors. But until now it was not possible to determine the energy-saving potential, only a rough estimation could be given. In order to be able to inform interested persons more precisely, **B.E.G.** has developed the measuring system OCCULOG*. It records the room occupancy and lighting conditions and enables a detailed evaluation. Hence, the energy-saving potential can be determined, and as a completely free of charge service.

5 steps with OCCULOG*

1 Please contact your **B.E.G.** sales representative for scheduling an on-site appointment.

Micro SD card 1

Motion detector 1 for detecting movements

Light sensor for measuring the artificial light

2

- Installation of the OCCULOG* measuring system on-site in appropriate reference rooms by your **B.E.G.** sales representative

- Mounting of one OCCULOG* motion detector on the ceiling and one detector on any table without drilling holes

- Fixing of a light sensor connected with motion detector 1 at the lights

- Recording of motions and brightness in the room for at least 30 days and storing of the measured values on the micro SD cards
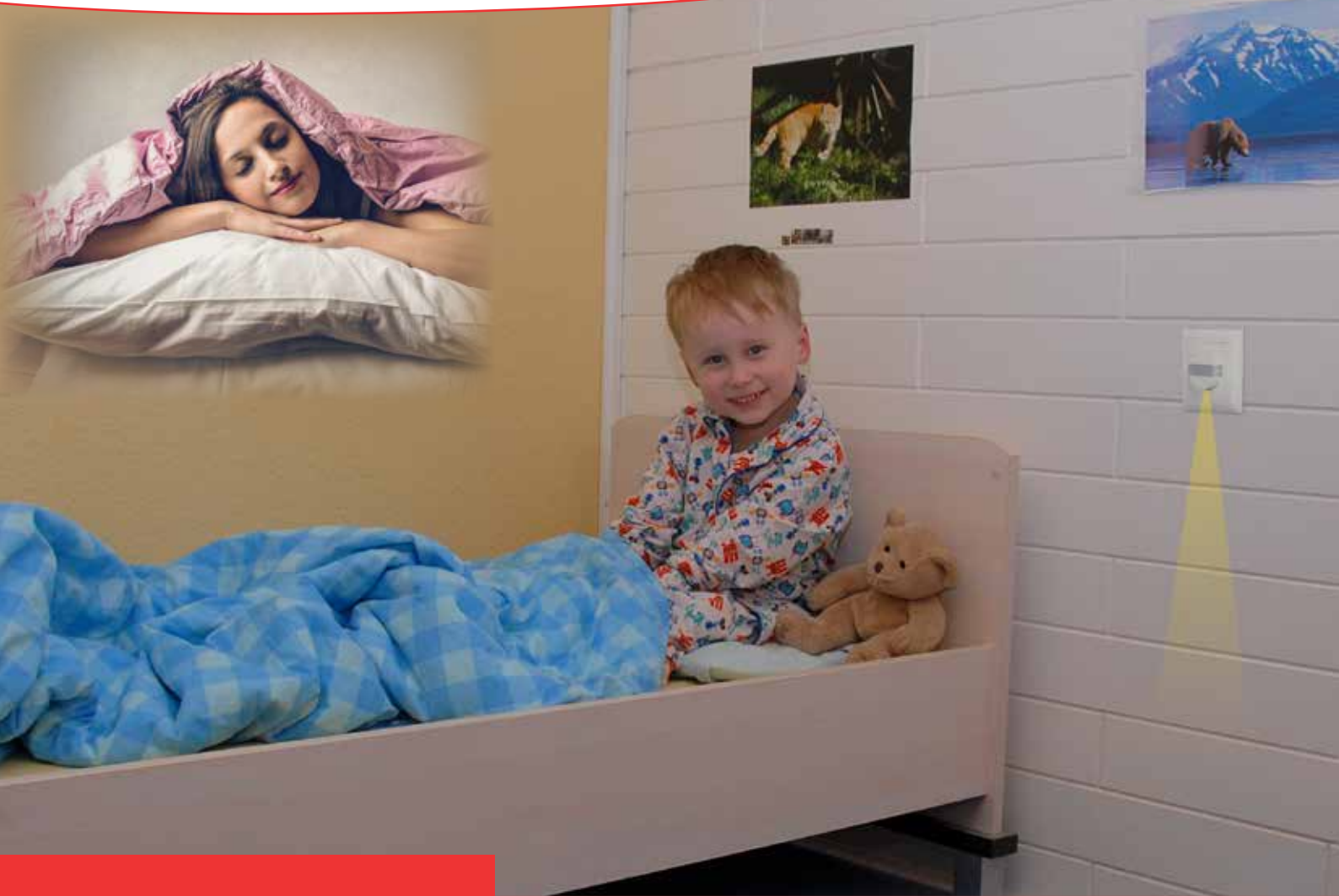
3

Micro SD card 2

Motion detector 2 (optional) for measuring the light level on the working station

4 Removal of the OCCULOG* measuring system by your **B.E.G.** contact person at the end of the measuring period

5 Evaluation of the values stored on the SD cards at **B.E.G.**

Your **B.E.G.** contact person gives you an analysis document and a recommendation on adequate occupancy detectors and energy savings.

* Community trademark application pending

B.E.G. LUXOMAT®

Safely find your way – thanks to **orientation light and night light**

Multifunctional wall switch for all demands

The new LUXOMAT® Indoor 140-L incorporates the safety of a night and orientation light and the intelligent switching offered by an occupancy detector in the design of a pushbutton.
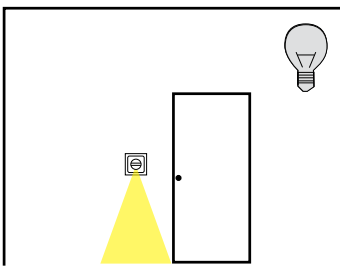
Two powerful and dimmable LEDs are arranged in the lower part of the round design as a downlight. It can be used as night light and as orientation light by individually selecting the desired brightness for both lights.

The night light is used as a constant light, for example for smoothly illuminating corridors in a hotel, in the dark. The integrated light sensor automatically switches the night light: Individually set threshold values indicate the brightness for switching the light on at nightfall and switching the light off at daybreak.
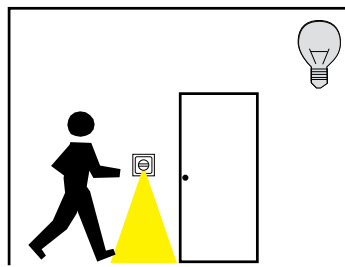
The orientation light is brighter than the night light and can be switched as an alternative to the main light. Thus, in case of a detected motion the orientation light is switched on instead of the main light. The main light can be switched on by means of the integrated pushbutton and automatically switches off after a predetermined lag time.

Of course the occupancy detector can switch the main light instead of the orientation light. This means that the complete illumination is switched on in case of a detected motion. If the main light is switched on, it can be switched off manually using the pushbutton.
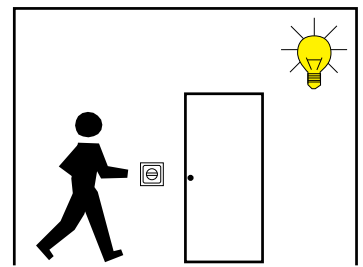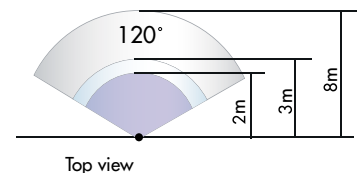
Night light

Orientation light

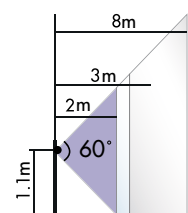**Main light**

Indoor 140-L

- Detection area: 120°
- Recommended mounting height: 1 m to max. 1.2 m
- Power supply: 110-240 V~, 50/60 Hz
- Switching power:
  2000 W, cos φ = 1, 1000 VA, cos φ = 0.5
- Follow-up time: 15 s - 30 min.
- Stand-by power: ca. 0.4 W
  Power consumption night light: ca. 0.8 W
- IP 20, Class II, CE

Part no. 94327

120°

8m

3m

2m

Top view

8m

3m

2m

60°

1.1m

Side view

■ Walking towards
■ Seated activity
■ Walking across

No more stand-by consumption –
**the electronic ballast is
switched off completely!**

The easy way to save energy

The new DALI/DSI occupancy detectors developed by **B.E.G.** contribute considerably to saving energy thanks to their innovative functions:

The electronic ballast is switched off completely

Normally, DALI/DSI ballasts consume energy even when dimmed to 0 %. They remain in stand-by mode and consume approximately 5 W per electronic ballast.

Thanks to the innovative function of the new **B.E.G.** DALI occupancy detectors for totally switching off the electronic ballasts, the switching channel completely switches off the connected ballasts by reaching the dimming value 0 %. Therefore, unnecessary stand-by consumption of energy is avoided.

Delayed HVAC function

Alternatively, the switching channel can be used to control HVAC devices. The selectable delay of the HVAC function ensures that the HVAC channel is not switched on in case of a person being present in the room only for a short time. Only when motion is detected over a determined time period, the relay closes and the heating or air conditioning is activated.
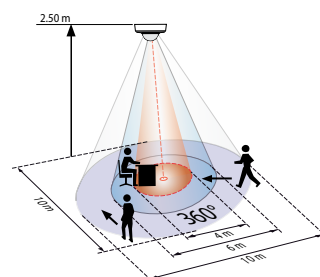
Still, the DALI/DSI ballast is switched on immediately upon detection of motion.

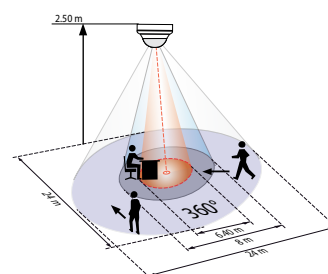**PD2-M-DALI/DSI-1C**
Part no. 92486

- Occupancy detector for daylight-depending illumination control
- 360° Detection area
- DALI/DSI- Interface
- Remote controllable
- One additional switching channel for switching a device or a light
- IP20 / Class II / CE
- Dimensions: Ø 80 x H 84.5 mm

2.50 m
360°

PD4-M-DALI/DSI-1C
Part no. 92488

- Occupancy detector *with large detection* area for daylight-depending illumination control
- 360° Detection area
- DALI/DSI- Interface
- Remote controllable
- One additional switching channel for switching a device or a light
- IP20 / Class II / CE
- Dimensions: Ø 97 x H 103 mm

2.50 m
360°

- Walking across
- Walking towards
- Seated activity

B.E.G. LUXOMAT®

Maximum **safety**

in case of voltage breakdown

Occupancy detector for high safety demands

For use in buildings with elevated safety requirements, such as hospitals or public buildings, **B.E.G.** has developed two special occupancy detectors: *the two-phase and the three-phase detector.* They can be connected to two, respectively three phases and therefore offer a higher safety in case of volltage breakdown, so that an *improved operation is guaranteed.*

The 2-phase detector

The occupancy detector can be connected to two separate circuits of the mains supply. This enables the illumination system to be divided into two separate groups. In case of regular power supply, the system functions just like a normal occupancy detector and the operating voltage is obtained by both phases.
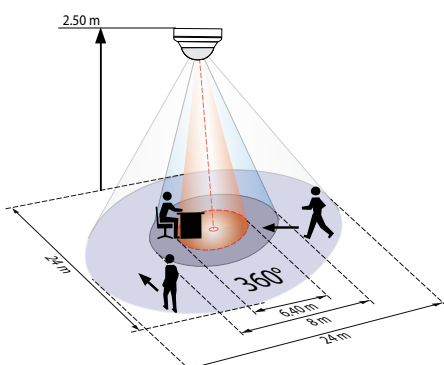
In case one phase breaks down, the PD4-M-2C-DS-FC still switches the devices connected to the other phase. This ensures an "emergency" supply of one group and the illumination does not fail entirely. The detector can be switched manually via pushbutton and can be remote controlled.

The 3-phase detector

This occupancy detector can be connected to three different phases. Further to the 230 V operating voltage, there are two separate channels having relay contacts. These two potential-free channels react on motion and for example switch the light in line with demand.

In case the operating voltage fails, the two switching channels close. Therefore, the illumination is permanently activated as long as the two phases are supplied with current.
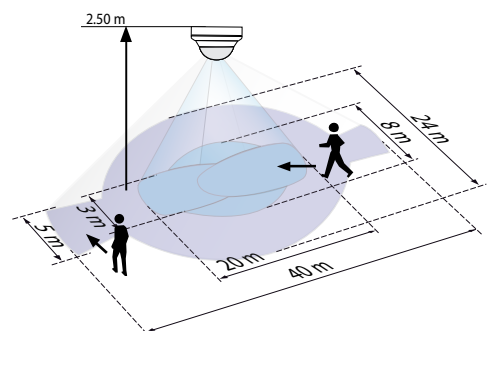
The optical system of the PD4-M-TRIO-3P is especially adapted for corridors. The detection area can be extended by using slave devices. Of course, a switching by means of external pushbuttons is still possible.

PD4-M-2C-DS
Part no. 92760

- 360° Detection area
- Remote controllable
- Detection area can be extended by using slaves
- IP20 / Class II / CE
- Dimensions: Ø 117 x H 100 mm

PD4-M-TRIO-3P
Part no. 92746

- 360° Detection area
- Remote controllable
- Detection area can be extended by using slaves
- IP20 / Class II / CE
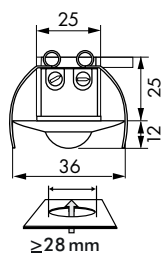- Open contact
- Dimensions: Ø 117 x H 100 mm

Walking across
Walking towards
Seated activity

B.E.G.'s mini occupancy detectors offer a detection range of up to **10 m!**

PD9 - multifunctional

- Family of occupancy detectors with very small sensor head and corresponding power supply

- Available for 230 V, KNX, DALI/DSI and DIM

- Versions, e.g. as Master/Slave, especially for great heights, for wet rooms, or for installation in a light

- The power supply can be installed through the hole for the sensor head (Ø 34 mm)

- Easy mounting by means of spring fasteners

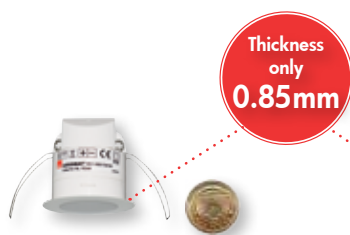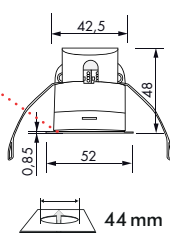- Detection range up to Ø 10 m

PD9

Sensor head PD9-1C-FC

25 · 25 · 12 · 36 · ≥ 28 mm

2.50 m · RJ · 360° · 10 m · 6 m · 10 m

PD9 High elevations

Sensor head PD9-1C-GH-FC

25 · 25 · 24 · 36 · ≥ 28 mm

10.00 m · 6.00 m · RJ · 360° · 3.50 m · 6.00 m · 6.00 m

PD9-DIGI

Sensor head PD9-DIGI-FC

18 · 26 · 11 · 11 mm

2.50 m · 360° · 3.00 m · 3.00 m

- Walking towards
- Walking across
- Smaller movements

PD11 - super flat

- Designed occupancy detector being very flat

- Available as 230V-Master-/Slave and KNX version

- Visible part of the sensor: Ø 52 x 0.85 mm

Thickness only 0.85mm

PD11

PD11 KNX version

42,5 · 48 · 0,85 · 52 · 44 mm

2.50 m · 360° · 9 m · 3 m · 6 m · 9 m

PICO - extremely small

- The entire technology of the mini occupancy detector is arranged in the housing

- IP65 particularly for wet rooms

- Available as master/slave for 230 V

- Visible part of the sensor: Ø 33 x 15 mm

PICO

Ø 24 mm · 45 mm · 15 mm · Ø 33 mm · Ø 25 mm

2.50 m · 360° · 10 m · 4 m · 6 m · 10 m

B.E.G. LUXOMAT®

Super flat occupancy detector
for sophisticated interior design

Thickness only 0.85 mm

Presumably the most flat occupancy detector on the market

Our occupancy detector **LUXOMAT®** PD11 is first choice for design objects: with a thickness of only 0.85 mm it is almost invisible on the ceiling. Additionally to its flat design, it reliably detects within a range of 9 m. Ornamental rings with different colours offer the possibility to live up to the customer's individual demands.

By using motion detection, light evaluation and the internal logic, the occupancy detector has all necessary means for a perfect control of the building illumination. Thanks to its optimised construction, the device is little space consuming and can be installed quickly.

The entire innovative technology is accommodated in the housing of the mini occupancy detector. Integrated spring fasteners allow for an easy mounting. The PD11 can be programmed conveniently using the optional remote control.

PD11-M-1C-FLAT-FC
Part no. 92583

PD11-S-FLAT-FC
Part no. 92593

- Conventional 230 V supply
- 360° Detection area
- Available as Master or Slave version
- Remote controllable
- IP20 / Class II / CE
- Dimensions:
  Ø 52 x H 60 mm

2.50 m

9 m

360°

3 m
6 m
9 m

- Walking across
- Walking towards
- Seated activity

PD11-KNX-FLAT-FC
Part no. 92893

- For KNX BUS technology
- 360° Detection area
- Switching mode, controlling mode, slave mode, permanent dimmer
- 3 HVAC-Channels (1 Bit)
- Remote controllable
- IP20 / Class II / CE
- Dimensions:
  Ø 52 x H 43.3 mm

B.E.G. LUXOMAT®

The **bidirectional** remote control for all new **B.E.G.** occupancy and motion detectors*

Data

Main menu
Device readout
Detector choice
Overview menu
Send Current Values

read

write

Overview menu
100%
500 lux
10 min
500 lux

Data

PC Software
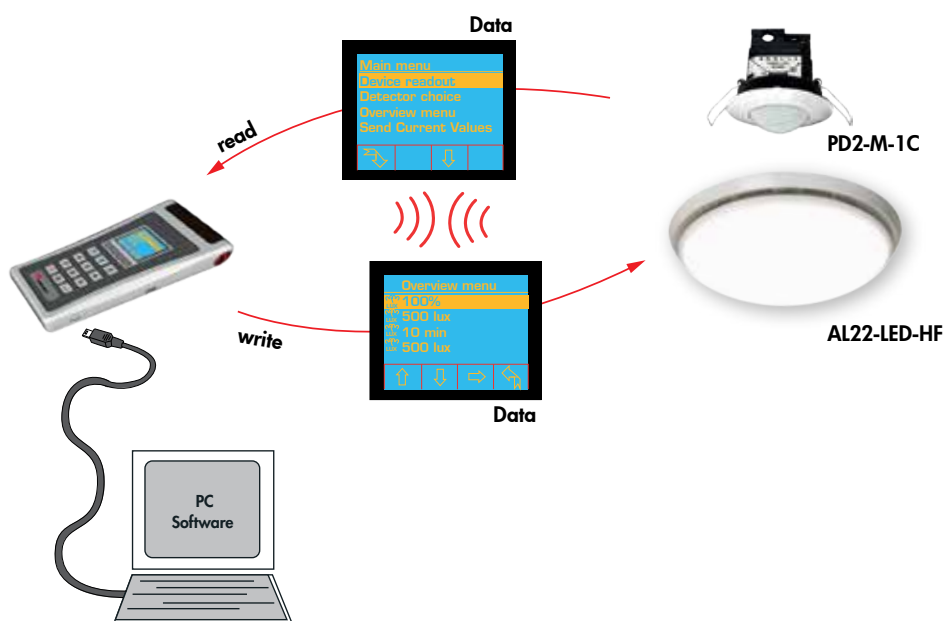
PD2-M-1C

AL22-LED-HF

Bidirectional

■ The UC-IR-HF communicates with the **B.E.G.** occupancy and motion detectors, it transmits and receives information

■ Integrated sensor technology in all occupancy and motion detectors (as from autumn 2014)

■ Recallable parameters: type of detector, master/slave, settings such as lag time and threshold value, and others

■ Communication via infra-red as well as radio transmission, thereby enabling a use even for great heights

Detecting

■ The UC-IR-HF can be used as luxmeter

■ After having connected the light sensor, the light intensity value is displayed on the remote control

■ The light intensity can be measured on the working table or at any other place in the room

■ The lux value can immediately be used as threshold value by transmitting it directly to the motion or occupancy detector

■ The sensors of the remote control are pivotable, enabling to program the detector from any place in the room

Convenient

■ All recalled parameters are displayed conveniently on the screen

■ Amendment of the values by means of arrow navigation and numeric keypad of the remote control

■ New parameters can be sent to the detector individually or as a package

■ Storing the parameters for each detector in the remote control is possible. The stored data can be copied for other detectors of the same type

Strategical

■ The parameters recalled from the occupancy and motion detectors can be stored in the remote control

■ The USB port provides a possibility to exchange data with a PC

■ The corresponding **B.E.G.** Software, also available autumn 2014, allows for data processing

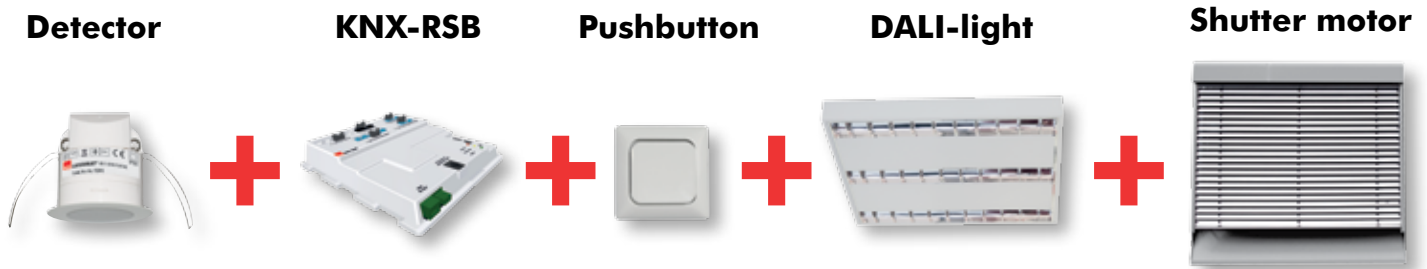■ Installers have the possibility to plan in advance or to store customers' clients' projects

* Available autumn 2014

The new KNX room sensor box with integrated DALI/KNX gateway – save up to 30 % **of the total costs**
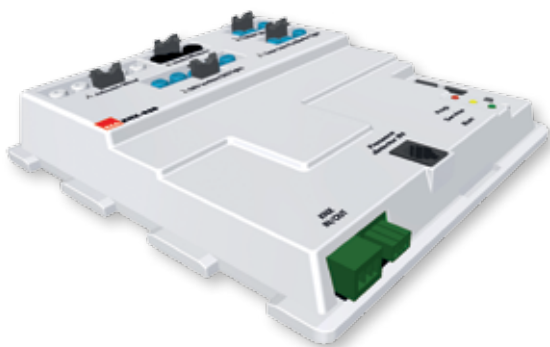
Precise, fast and economic installation

Detector	KNX-RSB	Pushbutton	DALI-light	Shutter motor

+ **+** **+** **+**

The new KNX room sensor box – offers three ways to save costs:

- Costs for mounting: Fast and easy and precise mounting by means of plug connections, no tools are required; up to 90 % less wiring effort!

- Costs for material: DALI lamps and conventional push buttons can be connected directly to the KNX room sensor box. No additional KNX/DALI gateway and push button interface is necessary.

- Costs for installation: The illumination can be activated immediately without ETS programming by means of the installation mode.

Like that, a reduction of the total costs of up to 30 % becomes possible!

KNX room sensor box

- Power supply: 230 V AC / 24 V KNX
- Housing: Polycarbonate
- Connectable: up to 50 DALI ballasts
- Switching power:
  3600 W, $\cos \varphi = 1$, 1800 VA, $\cos \varphi = 0.5$
- Dimensions: L 180 x W 162 x H 45 mm

Part no. 92979

B.E.G. KNX

Even more possibilities with the

KNX application 5.0

Highlights of the application 5.0

- *3 additional switching channels,* which can selectively take into account daylight or not, for controlling lights, heating, ventilation, and air conditioning devices (with time delay), or for reporting the occupancy state

- *New: Remote controllable,* easy programming even without ETS!

- Set values and lag times can be adapted for all channels *during operation* via a communication object

- Activation of a burn-in function with *selectable burn-in time* from 1-100 hours via a communication object and remote control to profit from the complete operating life of the controlled lights

- With *deactivatable motion LED*; deactivatable via ETS parameters, communication object, or remote control

Other new features:

- Structured ETS application surface

- Programming mode can be activated via remote control or communication object

- Test mode can be activated via remote control or communication object

- **B.E.G.** corridor function integrated

- Adaptation of the burn-in function by means of ETS parameters for different types of lights

- Intelligent "central-off-function"

- Optimised semi-automatic mode with more functions

- Operation using scenes possible

Available detectors:

PD9-KNX-FC
Part no. 92890

- 360° Detection area
- Switching mode, controlling mode, slave mode, permanent dimmer
- IP20 / Class II
- Dimensions:
  Detector: Ø 45 x H 28 mm
  Power supply: L 120 x W 29 x H 28 mm

PD2-KNX-FC
Part no.   92881 (FC)
            92880 (SM)
            92882 (FM)

- 360° Detection area
- Switching mode, controlling mode, slave mode, permanent dimmer
- IP20 / Class II
- Dimensions:
  SM: Ø 98 x H 50 mm
  FC: Ø 80 x H 84.5 mm
  FM: Ø 98 x H 65 mm

PD11-KNX-FLAT
Part no.   92893

- Particularly flat KNX occupancy detector
- 360° Detection area
- Switching mode, controlling mode, slave mode, permanent dimmer
- IP20 / Class II
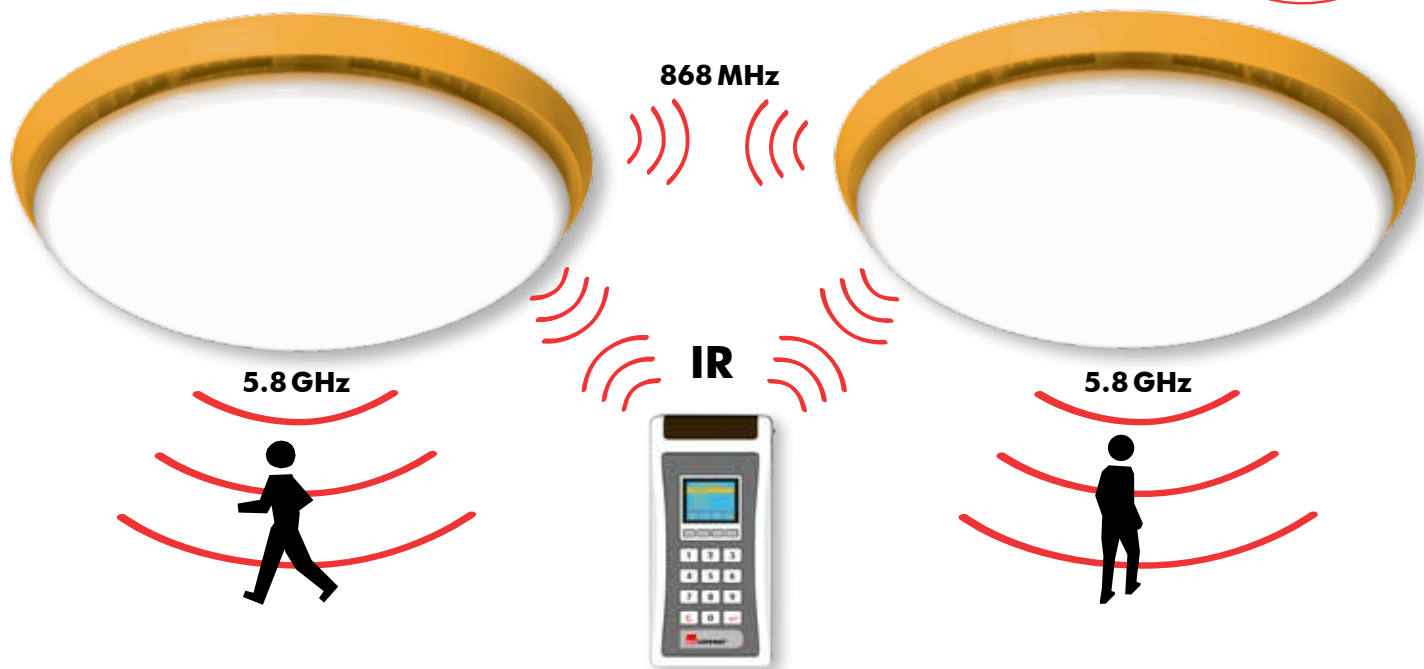- Dimensions:
  Ø 52 x H 43.3 mm

PD4-KNX-FC
Part no.   92884 (FC)
            92883 (SM)
            92885 (FM)

- 360° Detection area
- Switching mode, controlling mode, slave mode, permanent dimmer
- IP20 / Class II
- Dimensions:
  SM: Ø 98 x H 65 mm
  FC: Ø 97 x H 103 mm
  FM: Ø 97 x H 84 mm

B.E.G. LUXOMATIC

Groupable, energy-efficient

LED light for wall and ceiling mounting

B.E.G. LUXOMATIC

868 MHz

5.8 GHz

IR

5.8 GHz

LED light for sophisticated demands

- Appealing and flat LED light with ornamental outer ring
- Ornamental rings available in five standard colours: White, anthracite grey, red, yellow and aluminium white
- Sturdy housing made of polycarbonate
- Housing reliably locked by means of special screws
- Energy efficient thanks to the use of modern LED technology
- 60 LEDs having 25 W create up to 2000 Lumen
- Colour temperature 4000 K (neutral white)
- An innovative thermal management ensures a long operating life of the LEDs
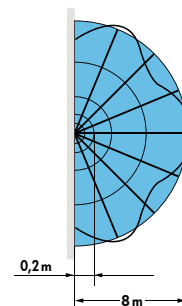
Intelligent microwave technology by B.E.G.

- Powerful HF detector for large detection areas
- DIP switches as well as the **B.E.G.** remote control allow for programming the light
- **The lights can be grouped in up to four groups reacting together**
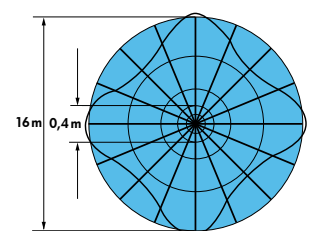- Alternatively switching or dimming the lights when absent

AL22-LED-HF
Part no. 91732
(Please order ornamental rings separately)

Wall mounting

Ceiling mounting

16 m 0,4 m

0,2 m

8 m

Detection area HF detectors

FL2N-LED
Part no. 92598 black
92599 white

- 60 high-power LEDs
- **2100 lm** (neutral-white)
- Power consumption 26 W
- Light pivotable in three axes
- IP44 / Class I
- Dimensions:
  L 190 x W 220 x H 250 mm
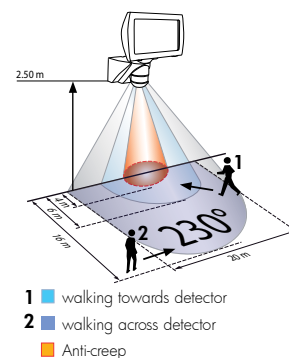
Light distribution FL2N-LED

FL2N-LED-230
Part no. 92626 black
92627 white

With motion detector:

- 230° Detection area
- 360° Anti-creep
- Sensor head pivotable
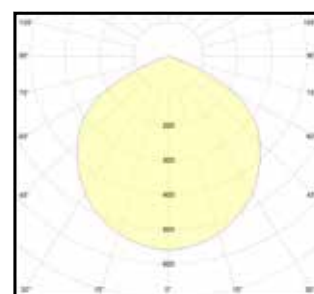- Remote controllable
- Dimensions:
  L 190 x W 220 x H 250 mm

2.50 m

230°

1 ■ walking towards detector
2 ■ walking across detector
■ Anti-creep

FL3N-LED
Part no. 92702 black
92703 white

- 30 high-power LEDs
- **1050 lm** (neutral-white)
- Power consumption 14 W
- Light pivotable vertically
- IP44 / Class I
- Dimensions:
  L 132 x W 125 x H 218 mm
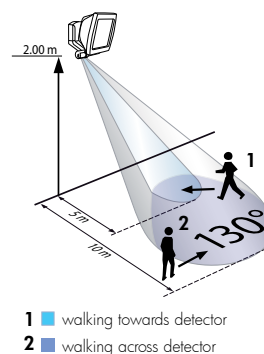
Light distribution FL3N-LED

FL3N-LED-130
Part no. 92628 black
92629 white

With motion detector:

- 130° Detection area
- Sensor head revolvable
- Dimensions:
  L 136 x W 125 x H 218 mm

2.00 m

130°

1 ■ walking towards detector
2 ■ walking across detector

*Compared to conventional floodlights with classic halogen tube of equal brightness

Happy clients **guaranteed**

Linked security

By having a smoke detector in each bedroom and in each corridor your safety is increased significantly in case of an emergency. **B.E.G.** offers stand-alone devices as well as radio interlinkable smoke detectors.

With the radio interlinkable smoke detectors SD2-RF, a network can be established in an easy way. By simply pressing the programming button, the smoke detectors are connected to one another.

Up to 16 SD2-RF can be grouped in one radio system without difficulty. In case of an alarm, not only one smoke detector warns but gradually all linked smoke detectors.

As a result, the possibility of the alarm to be heard is significantly improved.

SD2-RF

- Radio interlinkable smoke detector

- Operating voltage: 9 VDC
  Lithium battery, U9VL-J-P,
  min. 1200 mAh, included

- For our radio system, the **B.E.G.** SD2, which is certified by VdS, has been equipped with a radio transmission and receiving module. The smoke detector is tested according to EN 14604

- Durability of the Lithium battery: approx. 1 year

- Signal sound intensity: > 85 dB/ 3 m

- Protection type: IP20 / Class II / CE

- Ambient temperature: +5 °C to +45°C

- Dimensions: Ø 114 x H 43 mm

- 230 V version in preparation

Mobile Control

The mobile central monitoring and control unit MyControl-SD is a touch-screen displaying the connected smoke detectors. The battery state of the devices can be checked easily and a test alarm can be triggered.

The touch-screen MyControl-SD is clearly structured using individual icons, each representing one detector. All devices can be monitored at a glance.

In case one smoke detector indicates an alarm, gradually all other smoke detectors in the network sound the alarm, too. The smoke detector is displayed on the touch-screen with its icon and ID number. Furthermore, stored emergency telephone numbers are shown, allowing to act fast.

MyControl-SD

- Central unit for smoke detectors with 3.5" touch-screen

- Power supply: external mains adapter 100 - 240 V AC; 50/60 Hz (Input) 5 V DC; 2 A (Output)

- Battery: integrated rechargeable battery / max. 1 A charging current

- Protection type: IP20 / Class III / CE

- Number of users (recommended): Up to 30 smoke detectors

- USB port for update function

- Dimensions: L 100 x W 20 x H 85 mm

As promotion packet

1 x *Central unit for smoke detectors MyControl-SD*

+

2 x *Radio interlinkable smoke detector SD2-RF*

Article	Part no.
MyControl-SD / black	90188
MyControl-SD / silver	90189
MyControl-SD / white	90187
SD2-RF	94205

Packet	Part no.
2 x SD2-RF + 1 MyControl-SD black	40235
2 x SD2-RF + 1 MyControl-SD silver	40236
2 x SD2-RF + 1 MyControl-SD white	40234

B.E.G. SMARTHOME

Switch loads only in case of persons **being present:**

B.E.G.'s radio system

For a safe, energy-efficient and comfortable home

The product range **B.E.G.** SMARTHOME offers possibilities for an intelligent linking of various building functions. The radio and powerline based system is easy to install, not only in new buildings but also for retrofitting old buildings.

The devices can be operated immediately without requiring additional software: Actuators and sensors having a radio interface are connected to each another with one single key stroke. **B.E.G.** SMARTHOME actuators are available as flush-mount, surface-mount (internal and external use) and adapter plug versions. All actuators are available as radio and powerline version.

The various **B.E.G.** radio actuators receive an encoded radio signal from a radio occupancy detector or the mobile central system unit MyControl, acknowledge receipt and switch the connected loads (illumination, heating, ventilation, and air conditioning) correspondingly.
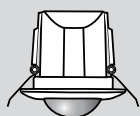
The radio motion and occupancy detectors are of the **B.E.G.** quality you already know. With one simple key stroke, they can be connected to one or more radio actuators and afterwards switch them.

The modular system can be extended any time by other components of the **B.E.G.** SMARTHOME product family.

- **Modern radio protocol:** Bidirectional radio transmission based on the international Z-WAVE protocol using the 868 MHz band.

- **Simple learning:**

- **Easy to install:** Many devices do not require additional cables or wires. Therefore, walls and papers will not be damaged.
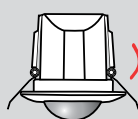

Transmitter Conncection   **Receiver** Confirmation

- **Extending the wireless range:** Repeater allow for an extension of the wireless range. Signals can be transmitted between transmitter and receiver via up to four stations. This function is also integrated in the radio actuators.

Detector   **Repeater**   **Actuator**   **Actuator**

RC-plus next 230 ZW
Part no. 92066 white

PD3N-FC-ZW
Part no. 92071

PD3N-SM-ZW
Part no. 92072

A-ST-ZW
Part no. 92817

A-SM-ZW
Part no. 92807

A-FM-ZW
Part no. 92805

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