Occupancy and motion detectors Catalogue
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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®, LUXOMATIC®, 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.

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.

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 an area 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.

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).

2017

The former administration building becomes a research and development centre with a 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.
## Compact overview

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### Page numbers for twilight switches according to their designation

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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.

- Then the tools for series production are created or existing tools are modified. The use of extremely robust plastics and high-quality electronic components is a cornerstone for the extraordinary longevity of B.E.G. products.
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 luminaires, 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 presence 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.
Service and information for designers

- 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 design 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.
LUXOMAT® Motion detector for outdoor use

Motion detectors with modern sensor technology

LUXOMAT® RC-plusnext and LC-plus280 – these B.E.G. exterior motion detectors offer security and convenience in the areas that they cover. They can quickly and easily be adjusted to requirements on the spot: adjustment elements for mechanical range adaption and potentiometers for lux value (switch-on threshold) and time adjustment are located underneath the sensor head.

Blinds can be used to restrict the detection area so that only the desired area is covered. For example, they can be used to filter out a side road leading past the area. If requirements should change, settings can be altered according to demand.

For more convenience compared to a potentiometer, changes of settings and activation of additional functions can be made by the optional LUXOMAT® IR-RC or IR-LC-plus remote controllers. Changes can therefore be made without the inconvenience of climbing a ladder. Adjustments to changes in requirements can be accomplished with a few button presses.
Detector overview

Overview motion detectors for outdoor use

<table>
<thead>
<tr>
<th>Motion detector</th>
<th>Page</th>
<th>Part number</th>
<th>Wall mounting</th>
<th>Ceiling mounting</th>
<th>Outdoor corner mounting</th>
<th>Motion detection</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Detection angle</th>
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RC-plus next N – The premium class

Mounting types

- Wall mounting
- Ceiling mounting
- Outdoor corner mounting
- Remote control-capable

Special features

- Cover clips and cover
- Concealed potentiometers for follow-up time and lux value as well as mechanical adjustment means for adaption of detection range
- Cable entry from above, below or behind
**Product and accessory**

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**Product Information**

- Motion detector with 130° detection area and anti-creep zone
- Mechanical range adjustment
- Different follow-up time depending on direction of movement
- Uninterrupted parallel circuit detection of several detectors
- Manual switching via push-button possible
- Adjustable ball head
- Immediate operation using factory settings
- Additional functions can be set up using the optional remote control.
- Socket compatible to RC-plus (next) and Vario
- Easy mounting thanks to plug base
- Wall, ceiling and corner mounting
- Factory settings 3 min and 20 lux

**Technical Data**

110 – 240 V AC 50 / 60 Hz (can also be supplied with other operating voltages ON request)
121 × 71 × 85 mm
approx. 0.5 W
horizontal 130°
max. 20 m across; max. 6 m towards;
max. 4 m anti-creep protection
225 m² / 2.5 m mounting height
2 m / 5 m / 2.5 m
IP54 / Class II
-25 °C to +50 °C
Polycarbonate, UV-resistant

**Channel 1 (lighting control)**
3000 W, cos φ = 1; 1500 VA, cos φ = 0.5; 300 W LED;
max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
1x μ-contact, NO contact with tungsten pre-make contact
15 sec – 16 min, Pulse
2 – 2000 Lux
Outdoor motion detectors

**Product and accessory**

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**Product Information**
- Motion detector with 230° detection area and anti-creep zone
- Mechanical range adjustment
- Different follow-up time depending on direction of movement
- Uninterrupted parallel circuit detection of several detectors
- Manual switching via push-button possible
- Adjustable ball head
- Immediate operation using factory settings
- Additional functions can be set up using the optional remote control.
- Socket compatible to RC-plus (next) and Vario
- Easy mounting thanks to plug base
- Wall, ceiling and corner mounting
- Factory settings 3 min and 20 lux

**Technical Data**
- 110 – 240 V AC 50 / 60 Hz (can also be supplied with other operating voltages ON request)
- 121 × 71 × 85 mm
- approx. 0.5 W
- horizontal 230°
- max. 20 m across; max. 6 m towards; max. 4 m anti-creep protection
- 400 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**
- 3000 W, cos ϕ = 1; 1500 VA, cos ϕ = 0.5; 300 W LED
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 860 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 16 min, Pulse
- 2 – 2000 Lux
Outdoor motion detectors

**Product and accessory**

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**Product Information**

- Motion detector with 280° detection area and anti-creep zone
- Mechanical range adjustment
- Different follow-up time depending on direction of movement
- Uninterrupted parallel circuit detection of several detectors
- Manual switching via push-button possible
- Adjustable ball head
- Immediate operation using factory settings
- Additional functions can be set up using the optional remote control.
- Socket compatible to RC-plus (next) and Vario
- Special socket for external corner mounting included
- Easy mounting thanks to plug base
- Special socket for external corner mounting included
- Wall, ceiling and corner mounting
- Factory settings 3 min and 20 lux

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz (can also be supplied with other operating voltages ON request)
- 121 × 71 × 85 mm
- approx. 0.5 W
- horizontal 280°
- max. 20 m across; max. 6 m towards;
- max. 4 m anti-creep protection
- 489 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 3000 W, cos φ = 1; 1500 VA, cos φ = 0.5; 300 W LED;
  - max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 µs) = 800 A
  - 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 16 min, Pulse
- 2 – 2000 Lux
Outdoor motion detectors

**Product and accessory**

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**Product Information**

- Motion detector with downward detection for gapless monitoring
- Adjustable ball head
- Additional functions can be set up using the optional remote control.
- Easy mounting thanks to plug base
- Detection area can be restricted with blinds
- Special socket for external corner mounting included
- Factory settings 3 min and 20 lux

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- 110 x 68 x 78 mm
- approx. 0.24 W
- horizontal 280°
- max. 16 m across; max. 9 m towards
- 313 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 2000 W, cos φ = 1; 1000 VA, cos φ = 0.5; 300 W LED
  - 1x μ-contact, NO contact
  - 15 sec – 16 min, Pulse
- 2 – 2500 Lux
Outdoor motion detectors

**Product and accessory**

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**Product Information**

- Motion detector with 140° detection area and 180° anti-creep zone
- Can be mounted on standard flush-mount boxes
- Adjustable ball head
- Detection area can be restricted with blinds
- Simple mounting thanks to plug base
- Zero crossing switching

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- 103 × 78 × 80 mm
- approx. 0.4 W
- horizontal 140°
- max. 12 m across; max. 4 m towards;
  max. 2 m anti-creep protection
- 176 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2000 W, cos φ = 1; 1000 VA, cos φ = 0.5; 300 W LED
- 1x µ-contact, NO contact
- 4 sec – 20 min
- 2 – 2000 Lux
Outdoor motion detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
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<tbody>
<tr>
<td>LC-Click-N 200 UK 2.000 W</td>
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<td>LC-Click-N 200 UK 2.000 W</td>
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<td>93052</td>
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<tr>
<td>LC-Click-N 200 UK 2.000 W</td>
<td>black</td>
<td>93062</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 164 x 143 mm)</td>
<td>white</td>
<td>92467</td>
</tr>
</tbody>
</table>

**Product Information**

- Motion detector with 200° detection area and 180° anti-creep zone
- Can be mounted on standard flush-mount boxes
- Adjustable ball head
- Detection area can be restricted with blinds
- Simple mounting thanks to plug base
- Zero crossing switching

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- 103 × 78 × 80 mm
- approx. 0.4 W
- horizontal 200°
  - max. 12 m across; max. 4 m towards;
  - max. 2 m anti-creep protection
- 209 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 2000 W, cos φ = 1; 1000 VA, cos φ = 0.5; 300 W LED
  - 1x μ-contact, NO contact
- 4 sec – 20 min
- 2 – 2000 Lux
Outdoor motion detectors

### LC-Mini

**LC-Mini 120**

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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<tr>
<td>Wire basket BSK (Ø 164 x 143 mm)</td>
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<td>92467</td>
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</tbody>
</table>

**Product Information**

- Mini motion detector for exterior use with 120° detection area
- Adjustable ball head
- Detection area can be restricted with blinds

**Technical Data**

- 230 V AC ±10% 50 / 60 Hz
- 80 × 55 × 70 mm
- approx. 0.8 W
- horizontal 120°
- max. 10 m across; max. 4 m towards
- 105 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP44 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- **Channel 1 (lighting control)**
  - 1000 W, cos φ = 1, 500 VA, cos φ = 0.5; 300 W LED
  - μ-contact, 1 × NO contact
- 4 sec – 10 min
- 2 – 2000 Lux

---

Walking across
Walking towards
Outdoor motion detectors

Product and accessory

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<thead>
<tr>
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<tr>
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<td>LC-Mini 180</td>
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<tr>
<td>Wire basket BSK (Ø 164 x 143 mm)</td>
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<td>92467</td>
</tr>
</tbody>
</table>

Product Information

- Mini motion detector for exterior use with 180° detection area
- Adjustable ball head
- Detection area can be restricted with blinds

Technical Data

- 230 V AC ±10% 50 / 60 Hz
- 80 × 55 × 70 mm
- approx. 0.8 W
- horizontal 180°
- max. 10 m across; max. 4 m towards
- 157 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP44 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 1000 W, cos φ = 1; 500 VA, cos φ = 0.5; 300 W LED
  - μ-contact, 1 × NO contact
  - 4 sec – 10 min
  - 2 – 2000 Lux
LUXOMAT® Ceiling-mounted motion detectors for indoor use

Intelligent home – Saving energy made easy

Motion detectors are designed to detect moving sources of heat in their detection area reliably. Upon detected movement, they switch the light automatically according to the ambient light. When no more movement is detected, the detector switches the light off after pre-set follow-up time has expired.

This is achieved by means of passive infrared technology (PIR): the detection area of the motion detector is divided into many smaller subsections. Within these subsections, the detector measures any heat radiation resulting, for example, from a creature. If there are temperature differences in several subsections caused by movement, these are detected by a sensor integrated in the detector. The sensor itself does not emit any radiation and is therefore called “passive”.

Reasonably switching the illumination significantly contributes to reduce power consumption. The light is only switched on when needed.
## Detector overview

### Switching with 1 or 2-channel motion detectors with simple light measurement

<table>
<thead>
<tr>
<th>Motion detector</th>
<th>Page</th>
<th>Simple light measurement</th>
<th>Motion detection</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional function</th>
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<tbody>
<tr>
<td>PD3N-1C</td>
<td>23</td>
<td>92190</td>
<td>92196</td>
<td>92186</td>
<td>Ø 10 m</td>
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<tr>
<td>PD3N-1C Micro</td>
<td>24</td>
<td>92219</td>
<td>92184</td>
<td>92190</td>
<td>Ø 10 m</td>
<td>with acoustic sensor</td>
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<tr>
<td>PD3N-1C-NO-PF</td>
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<td>–</td>
<td>92576</td>
<td>–</td>
<td>Ø 10 m</td>
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<td>Ø 24 m</td>
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<td>max. Ø 40 m corridor detectors</td>
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<tr>
<td>PD9-1C-GH</td>
<td>29</td>
<td>–</td>
<td>92934</td>
<td>–</td>
<td>Ø 3.5 m</td>
<td>large mounting height</td>
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<tr>
<td>PD9-DIGI</td>
<td>30</td>
<td>–</td>
<td>92917</td>
<td>–</td>
<td>Ø 3 m</td>
<td>Installation in light fittings</td>
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<td>–</td>
<td>92198</td>
<td>92188</td>
<td>Ø 10 m</td>
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<tr>
<td>PD3-MIC-2C</td>
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<td>96510</td>
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<td>–</td>
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<td>PD9-1C-12-48 V</td>
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<td>–</td>
<td>92985</td>
<td>–</td>
<td>Ø 10 m</td>
<td>12-48 V</td>
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Ceiling-mounted motion detectors

1-channel

Product and accessory

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<tr>
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<td>PD3N-1C-FM</td>
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<td>92186</td>
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<td>PD3N-1C-FC</td>
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<td>IR-Adapter for Smartphones</td>
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<td>IR-PD3/4N-1C-E</td>
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<td>IR-PD3N</td>
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<tr>
<td>IR-PD-Mini</td>
<td>-</td>
<td>92159</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>Square design frame PD3N-FC</td>
<td>white mat, similar to RAL 9010</td>
<td>92991</td>
</tr>
</tbody>
</table>

Product Information

- Remote control-capable ceiling motion detector
- One channel for light switching
- Special optical system for detection of even the smallest movements
- Uninterrupted parallel circuit detection of several detectors
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 106 x 53 mm
- FM= Ø 106 x 63 mm
- FC= Ø 83 x 81 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- SM= IP44 / Class II
- FM= IP20 / Class II
- FC= IP23 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- 2300 W, cos φ = 1; 1150 VA; cos φ = 0.5; 300 W LED
- max. inrush current $I_p$ (20 ms) = 165 A; max. inrush current $I_p$ (200 $\mu$s) = 800 A
- 1x $\mu$-contact. NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
Ceiling-mounted motion detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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</thead>
<tbody>
<tr>
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<td>IR-Adapter for Smartphones</td>
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<td>92159</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 × 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>Square design frame PD3N-FC</td>
<td>white mat, similar to RAL 9010</td>
<td>92991</td>
</tr>
</tbody>
</table>

**Product Information**

- Remote control-capable ceiling motion detector with integrated acoustic sensor
- One channel for light switching
- Special optical system for detection of even the smallest movements
- Additional functions can be set up using the optional remote control.

**Technical Data**

- Remote control-capable ceiling motion detector with integrated acoustic sensor
- One channel for light switching
- Special optical system for detection of even the smallest movements
- Additional functions can be set up using the optional remote control.

- Remote control-capable ceiling motion detector with integrated acoustic sensor
- One channel for light switching
- Special optical system for detection of even the smallest movements
- Additional functions can be set up using the optional remote control.

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- FC= Ø 83 × 81 mm
- SM= Ø 106 × 53 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- FC= IP23 / Class II
- SM= IP44 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2300 W, cos ϕ = 1, 1150 VA, cos ϕ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 30 sec – 30 min, Pulse
- 10 – 2000 Lux
Ceiling-mounted motion detectors

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
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<td>IR-PD-Mini</td>
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<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
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</tr>
<tr>
<td>Square design frame PD3N-FC</td>
<td>white mat, similar to RAL 9010</td>
<td>92991</td>
</tr>
</tbody>
</table>

Product Information

- Remote control-capable ceiling motion detector
- One potential-free (dry) switching contact
- Special optical system for detection of even the smallest movements
- Additional functions can be set up using the optional remote control.

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 83 × 81 mm
- approx. 0.4 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP23 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control, potential-free (dry))
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
  - max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
  - 1x μ-contact, dry NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
Ceiling-mounted motion detectors

Product and accessory

<table>
<thead>
<tr>
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<td>IR-PD-Mini - 92159</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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</table>

Product Information

- Remote-control capable ceiling motion detector with large detection range
- One channel for light switching
- Special optical system for detection of even the smallest movements
- Uninterrupted parallel circuit detection of several detectors
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 109 × 65 mm
- FC= Ø 106 × 90 mm
- FM= Ø 106 × 76 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- SM= IP44 / Class II
- FC= IP23 / Class II
- FM= IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact; NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
1-channel PD4N-1C-C

Ceiling-mounted motion detectors

Product and accessory

<table>
<thead>
<tr>
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<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
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<td>IR-PD3N</td>
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<td>IR-PD3/4N-1C-E</td>
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<tr>
<td>IR-PD-Mini</td>
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<td>92159</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
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</tr>
<tr>
<td>Wall holder PD4-SM</td>
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<td>92441</td>
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</tbody>
</table>

Product Information

- Remote control-capable ceiling motion detector designed for corridors
- One channel for light switching
- Special optical system for detection of even the smallest movements
- Additional functions can be set up using the optional remote control
- Uninterrupted parallel circuit detection of several detectors
- Factory settings 10 min and 500 lux
- There are markings for adjusting the detector

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 109 × 65 mm
- FC= Ø 106 × 90 mm
- approx. 0.4 W
- vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m² / 2.5 m mounting height
- 2.4 m / 2.6 m / 2.5 m
- SM= IP44 / Class II
- FC= IP23 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- 2300 W, cos ϕ = 1; 1150 VA, cos ϕ = 0.5; 300 W LED
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
1-channel

Ceiling-mounted motion detectors

PD9-1C

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
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</tbody>
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**Product Information**

- Mini-motion detector for indoor use
- One channel for light switching
- Easy installation on device
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 37 mm, Power supply: 165 × 24 × 24 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm

**Channel 1 (lighting control)**

- 1000 W, cos φ = 1; 500 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 860 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 30 sec – 30 min. Pulse
- 10 – 2000 Lux
# 1-channel Ceiling-mounted motion detectors

## Product and accessory

<table>
<thead>
<tr>
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<td>pure white mat, similar to RAL 9010</td>
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</table>

## Product Information

- Mini-motion detector especially for large mounting heights
- One channel for light switching
- Easy installation on device
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blind

## Technical Data

- **110 – 240 V AC 50 / 60 Hz**
- Sensor head: Ø 45 × 49 mm,
- Power supply: 165 × 24 × 24 mm
- < 0.5 W
- vertical 360°
- max. Ø 3.5 m across
- 10 m² / 6 m mounting height
- 5 m / 10 m / 6 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm

### Channel 1 (lighting control)

- 1000 W, cos φ = 1, 500 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 µs) = 800 A
- 1x µ-contact, NO contact with tungsten pre-make contact
- 30 sec – 30 min. Pulse
- 10 – 2000 Lux
Ceiling-mounted motion detectors

Product and accessory

<table>
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<tr>
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<th>Colour</th>
<th>Part number</th>
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<tbody>
<tr>
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</table>

Product Information

- Mini-motion detector designed for installation in luminaires
- One channel for light switching
- Switching solely depends on motion
- Manual setting of follow-up time via power supply
- Visible portion of sensor head: Ø 11 x 3 mm

Technical Data

- 230 V AC ±10% 50 / 60 Hz
- Sensor head: Ø 18 × 26 mm
- Power supply: 154 × 40 × 30 mm
- approx. 1.6 W
- vertical 360°
- max. Ø 3 m across
- 7 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm

Channel 1 (lighting control, potential-free [dry])

- 1000 W, cos φ = 1; 500 VA, cos φ = 0.5; 300 W LED
- 1x μ-contact, dry NO contact with tungsten pre-make contact
- 30 sec – 30 min. Pulse
Ceiling-mounted motion detectors

2-channel PD3N-2C

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD3N-2C-FM</td>
<td>white</td>
<td>92188</td>
</tr>
<tr>
<td>PD3N-2C-FC</td>
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<td>92198</td>
</tr>
<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
<td>92726</td>
</tr>
<tr>
<td>IR-PD3N-2C</td>
<td>-</td>
<td>92115</td>
</tr>
<tr>
<td>IR-PD-Mini</td>
<td>-</td>
<td>92159</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>Square design frame PD3N-FC</td>
<td>white mat, similar to RAL 9010</td>
<td>92991</td>
</tr>
</tbody>
</table>

Product Information

- Remote control-capable ceiling motion detector
- One channel for light switching
- One additional potential-free (dry) contact for HVAC
- Additional functions can be set up using the optional remote control.

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- FM: Ø 106 × 63 mm
- FC: Ø 83 × 81 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
  max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- FM: IP20 / Class II
- FC: IP23 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
  max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 30 sec – 30 min, Pulse
- 10 – 2000 Lux

Channel 2 (HVAC control potential-free (dry))

- 3 A / 230 V, cos φ = 1
- 1x dry NO contact
- 5 min – 120 min
2-channel PD3-MIC-2C

Ceiling-mounted motion detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD3-MIC-2C-FC</td>
<td>white</td>
<td>96510</td>
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<tr>
<td>Cover IP23</td>
<td>white</td>
<td>92206</td>
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</tbody>
</table>

**Product Information**

- Ceiling motion detector for indoor use with a 360° detection area
- One channel for light switching
- One additional potential-free (dry) contact for HVAC
- Acoustic sensor independently adjustable

**Technical Data**

- **230 V AC +/- 10%**
  - FC: Ø 84 × 80 mm
  - < 1 W
  - vertical 360°
  - max. Ø 10 m across; max. Ø 6 m towards;
  - max. Ø 4 m seated
  - 79 m² / 2.5 m mounting height
  - 2 m / 5 m / 2.5 m
  - FC: IP20 / Class II
  - -25 °C to +50 °C
  - Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 30 min
- 10 – 2000 Lux

**Channel 2 (HVAC control potential-free (dry))**

- 3 A / 230 V, cos φ = 1
- 1x dry NO contact
- 5 min – 120 min
Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD9-1C-12-48V-FC</td>
<td>white</td>
<td>92985</td>
</tr>
<tr>
<td>Cover PD9 IP65 PD9-Sensor head</td>
<td>transparent</td>
<td>92958</td>
</tr>
<tr>
<td>Square design frame PD9-FC</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92993</td>
</tr>
</tbody>
</table>

Product Information

- Mini-motion detector with operating voltage 12-48 V
- One channel for light switching
- Easy installation on device
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds

Technical Data

- 12 – 48 V AC / DC
- Sensor head: Ø 45 × 37 mm
- Power supply: 165 × 24 × 24 mm
- < 0.25 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm

Channel 1 (lighting control, potential-free (dry))

1000 W, cos ϕ = 1; 300 W LED; max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
1x μ-contact, dry NO contact with tungsten pre-make contact
30 sec – 30 min, Pulse
10 – 2000 Lux
PD2N-M-1C-LED

Professional lighting management for intelligent building automation

- Integrated LED light ring as separately adjustable orientation and night light
- Numerous setting options via the B.E.G. Smartphone app
- Extension of the detection range with up to 5 additional PD2N-M-1C LEDs possible
LUXOMAT® Occupancy detectors for interior ceiling and wall mounting

Motion detectors – occupancy detectors

Motion detectors used to be installed for exterior home illumination primarily for security. In recent years, motion detectors have also been used inside buildings for occupancy detection. When used in this application, they are known as occupancy detectors saving energy and offering more convenience.

Physically motion and occupancy detectors work on the same principle (infrared technology) in that they detect moving heat sources. They differ only in the technical parameters used.

Motion detectors switch the light depending on movements and the ambient light. Occupancy detectors regulate the artificial light in such a way that there is always a constant lux value in the room.

B.E.G. LUXOMAT® detectors have been developed to meet a variety of requirements. The PD2 for standard applications, the PD9 for discreet installation, the PD4 for increased range and many more. B.E.G. provides the best detector for every situation and can provide you with support in choosing the right one.
## Detector overview

**Switching with 1 or 2-channel Master with daylight evaluation**

<table>
<thead>
<tr>
<th>Occupancy detector</th>
<th>Page</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD2-M-1C</td>
<td>37</td>
<td>92550</td>
<td>92565</td>
<td>92555</td>
<td>Ø 10 m</td>
<td>–</td>
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<tr>
<td>PD4-M-1C</td>
<td>38</td>
<td>92580</td>
<td>92585</td>
<td>92575</td>
<td>Ø 24 m</td>
<td>–</td>
</tr>
<tr>
<td>PD4-M-1C-C</td>
<td>39</td>
<td>92587</td>
<td>92586</td>
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<td>–</td>
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<tr>
<td>PD4-M-1C-C-PS</td>
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<td>92480</td>
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<tr>
<td>PD4-M-TRIO-C-3P</td>
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<td>–</td>
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<tr>
<td>PD4-M-1C-GH</td>
<td>42</td>
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<td>Ø 30 m</td>
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<tr>
<td>PD9-M-1C</td>
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<td>–</td>
<td>92900</td>
<td>–</td>
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<td>mini detector</td>
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<tr>
<td>PD9-M-1C-GH</td>
<td>44</td>
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<td>92923</td>
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<td>92912 white</td>
<td>92913 silver</td>
<td>Ø 10 m</td>
<td>mini detector</td>
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<tr>
<td>PD9-M-1C-SDB-IP65-GH</td>
<td>46</td>
<td>–</td>
<td>92931 white</td>
<td>92932 silver</td>
<td>Ø 10 m</td>
<td>mini detector</td>
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<tr>
<td>PICO N-M-1C</td>
<td>47</td>
<td>–</td>
<td>93159</td>
<td>–</td>
<td>Ø 10 m</td>
<td>IP65</td>
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<tr>
<td>PD11-M-1C-FLAT</td>
<td>48</td>
<td>–</td>
<td>92583</td>
<td>–</td>
<td>Ø 9 m</td>
<td>super flat</td>
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<tr>
<td>PD2N-M-1C-LED</td>
<td>49</td>
<td>–</td>
<td>94055</td>
<td>–</td>
<td>Ø 10 m</td>
<td>LED light</td>
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<tr>
<td>PD2-M-2C</td>
<td>50</td>
<td>92150</td>
<td>92165</td>
<td>92155</td>
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<tr>
<td>PD4-M-2C</td>
<td>51</td>
<td>92140</td>
<td>92148</td>
<td>92255</td>
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<td>PD4-M-2C-C</td>
<td>52</td>
<td>92440</td>
<td>92413</td>
<td>92443</td>
<td>max. Ø 40 m</td>
<td>corridor detector</td>
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<td>PD4-M-2C-DS</td>
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<td>–</td>
<td>92760</td>
<td>–</td>
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<td>–</td>
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<tr>
<td>PD9-M-2C</td>
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<td>–</td>
<td>92976</td>
<td>–</td>
<td>Ø 10 m</td>
<td>with HVAC channel</td>
</tr>
<tr>
<td>PD4-M-2C-DUO</td>
<td>55</td>
<td>92158</td>
<td>92251</td>
<td>92252</td>
<td>Ø 24 m</td>
<td>–</td>
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<tr>
<td>PD4-M-3C-TRIO</td>
<td>56</td>
<td>92740</td>
<td>92745</td>
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<td>–</td>
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<tr>
<td>PD2-M-2C-12-48V-3A</td>
<td>57</td>
<td>92154</td>
<td>92164</td>
<td>–</td>
<td>Ø 10 m</td>
<td>3A version</td>
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<tr>
<td>PD2-M-2C-12-48V-RR</td>
<td>58</td>
<td>92305</td>
<td>92306</td>
<td>–</td>
<td>Ø 10 m</td>
<td>with reed relay</td>
</tr>
</tbody>
</table>
**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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</thead>
<tbody>
<tr>
<td>PD2-M-1C-SM</td>
<td>white</td>
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</tr>
<tr>
<td>PD2-M-1C-FM</td>
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<td>92555</td>
</tr>
<tr>
<td>PD2-M-1C-FC</td>
<td>white</td>
<td>92565</td>
</tr>
<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
<td>92726</td>
</tr>
<tr>
<td>IR-PD-IC</td>
<td>-</td>
<td>92520</td>
</tr>
<tr>
<td>IR-PD-1C-E</td>
<td>-</td>
<td>92077</td>
</tr>
<tr>
<td>IR-PD-Mini</td>
<td>-</td>
<td>92159</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>SM socket IP54 PD2/PD4-SM</td>
<td>white</td>
<td>92161</td>
</tr>
</tbody>
</table>

**Product Information**

- Occupancy detector with one potential-free dry contact
- Version as master device
- One channel for light switching
- Extension of the detection area with slave devices possible
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- Factory settings 10 min and 500 lux

**Technical Data**

- **Input:**
  - 110 – 240 V AC 50 / 60 Hz
  - SM= Ø 98 × 47 mm
  - FM= Ø 98 × 65 mm
  - FC= Ø 80 × 85 mm
  - approx. 0.4 W
  - vertical 360°
  - max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
  - 79 m² / 2.5 m mounting height
  - 2 m / 5 m / 2.5 m
  - SM= IP20 / Class II
  - FM= IP20 / Class II
  - FC= IP20 / Class II
  - -25 °C to +50 °C
- **Material:** Polycarbonate, UV-resistant
- **Channel 1 (lighting control, potential-free (dry))**
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED; max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
  - 1x μ-contact, dry NO contact with tungsten pre-make contact
  - 15 sec – 30 min, Pulse
  - 10 – 2000 Lux
  - Mixed light measuring
### 1-channel Ceiling mounted occupancy detectors

#### PD4-M-1C

#### Description

- **Ceiling mounted occupancy detectors**
- **Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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</thead>
<tbody>
<tr>
<td>PD4-M-1C-FM</td>
<td>white</td>
<td>92575</td>
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<td>PD4-M-1C-SM</td>
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</tr>
<tr>
<td>PD4-M-1C-FC</td>
<td>white</td>
<td>92585</td>
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<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
<td>92726</td>
</tr>
<tr>
<td>IR-PD-1C</td>
<td>-</td>
<td>92520</td>
</tr>
<tr>
<td>IR-PD-1C-E</td>
<td>-</td>
<td>92077</td>
</tr>
<tr>
<td>IR-PD-Mini</td>
<td>-</td>
<td>92159</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>SM socket IP54 PD2/PD4-SM</td>
<td>white</td>
<td>92161</td>
</tr>
<tr>
<td>Surface mounting socket (IP65) PD4-SM IP20</td>
<td>white</td>
<td>92375</td>
</tr>
<tr>
<td>Square design frame PD4-FC</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92992</td>
</tr>
</tbody>
</table>

#### Technical Data

- **Occupancy detector with extended detection area**
- **One potential-free (dry) contact**
- **Version as master device**
- **Extension of the detection area with slave devices possible**
- **Manual switching via push-button possible**
- **Additional functions can be set up using the optional remote control**.
- **Factory settings 10 min and 500 lux**

#### Technical Data

- **110 – 240 V AC 50 / 60 Hz**
- **FM= Ø 104 × 70 mm**
- **SM= Ø 98 × 63 mm**
- **FC= Ø 97 × 103 mm**
- **approx. 0.4 W**
- **vertical 360°**
- **max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated**
- **450 m² / 2.5 m mounting height**
- **2 m / 10 m / 2.5 m**
- **FM= IP20 / Class II**
- **SM= IP20 / Class II**
- **FC= IP20 / Class II**
- **-25 °C to +50 °C**
- **Polycarbonate, UV-resistant**

#### Channel 1 (lighting control, potential-free (dry))

- **2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;**
- **max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A**
- **1x μ-contact; dry NO contact with tungsten pre-make contact**
- **15 sec – 30 min, Pulse**
- **10 – 2000 Lux**
- **Mixed light measuring**
Ceiling mounted occupancy detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD4-M-1C-C-FC</td>
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<td>92586</td>
</tr>
<tr>
<td>PD4-M-1C-C-SM</td>
<td>white</td>
<td>92587</td>
</tr>
<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
<td>92726</td>
</tr>
<tr>
<td>IR-PD-1C</td>
<td>-</td>
<td>92520</td>
</tr>
<tr>
<td>IR-PD-1C-E</td>
<td>-</td>
<td>92077</td>
</tr>
<tr>
<td>IR-PD-Mini</td>
<td>-</td>
<td>92159</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>Square design frame PD4-FC</td>
<td>pure white, similar to RAL 9010</td>
<td>92992</td>
</tr>
</tbody>
</table>

**Product Information**

- Occupancy detector designed for corridors
- One potential-free (dry) switching contact
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- Factory settings 10 min and 500 lux
- There are markings for adjusting the detector

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- FC= Ø 97 × 103 mm
- SM= Ø 101 × 76 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m² / 2.5 m mounting height
- 2.4 m / 2.6 m / 2.5 m
- FC= IP20 / Class II
- SM= IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control, potential-free (dry))**

- 2300 W, cos Φ = 1; 1150 VA, cos Φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 µs) = 800 A
- 1x µ-contact, dry NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
- Mixed light measuring
# Ceiling mounted occupancy detectors

## Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
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<tbody>
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<td>PD4-M-1C-PS-SM</td>
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<td>92485</td>
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<td>92726</td>
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<tr>
<td>IR-PD-1C</td>
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<td>92520</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>Square design frame PD4-FC</td>
<td>pure white, similar to RAL 9010</td>
<td>92992</td>
</tr>
</tbody>
</table>

## Product Information

- Occupancy detector with NO contact and safety circuit by NC contact
- Guarantees illumination even if sensor fails
- Designed for corridors
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- Factory settings 10 min and 500 lux
- There are markings for adjusting the detector

## Technical Data

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
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<tbody>
<tr>
<td>Voltage</td>
<td>110 – 240 V AC 50 / 60 Hz</td>
</tr>
<tr>
<td>FC</td>
<td>Ø 97 × 103 mm</td>
</tr>
<tr>
<td>SM</td>
<td>Ø 101 × 76 mm</td>
</tr>
<tr>
<td>Approx. Power</td>
<td>0.7 W</td>
</tr>
<tr>
<td>Vertical Range</td>
<td>360°</td>
</tr>
<tr>
<td>Max. Detection</td>
<td>Ø 40 m across, max. Ø 20 m towards</td>
</tr>
<tr>
<td>Max. Area</td>
<td>250 m² / 2.5 m mounting height</td>
</tr>
<tr>
<td>Max. Height</td>
<td>2.4 m / 2.6 m / 2.5 m</td>
</tr>
<tr>
<td>Protection</td>
<td>FC: IP20 / Class II</td>
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<tr>
<td>SM: IP54 / Class II</td>
<td>-25 °C to +50 °C</td>
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<tr>
<td>Material</td>
<td>Polycarbonate, UV-resistant</td>
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<tr>
<td>Channel 1</td>
<td>LED 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED; max. inrush current Ip (20 ms) = 120 A</td>
</tr>
<tr>
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<td>1x μ-contact, NO contact with tungsten pre-make contact, additional NC-safety contact</td>
</tr>
<tr>
<td></td>
<td>15 sec – 30 min, Pulse</td>
</tr>
<tr>
<td></td>
<td>10 – 2000 Lux</td>
</tr>
</tbody>
</table>

Mixed light measuring
Ceiling mounted occupancy detectors

PD4-M-TRIO-C-3P

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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<tr>
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<tr>
<td>Socket IP54 PD4-TRIO-SM</td>
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Product Information

- 1-channel occupancy detector with two simultaneously operating relay outputs, which enable distribution to different phases.
- The switching channel with the two relay outputs closes when the operating voltage of the detector fails, so the lighting remains on as long as the two phases of the luminaires are supplied with power.
- The device requires an operating voltage. The third phase can be used for this purpose.
- Designed for corridors
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- There are markings for adjusting the detector

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- FC: Ø 117 × 100 mm
- SM: Ø 125 × 85 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m² / 2.5 m mounting height
- 2.4 m / 2.6 m / 2.5 m
- FC: IP20 / Class II
- SM: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control, potential-free (dry))

- 2300 W; cos φ = 1; 1150 VA; cos φ = 0.5; 300 W LED
- 2x μ-contact, dry Contact NC with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
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Product Information

- Occupancy detector designed for high-bay warehouses
- One potential-free (dry) switching contact
- Version as master device
- Extension of the detection area with slave devices possible
- Easy operation with remote control (required)
- Manual switching via push-button possible
- There are markings for adjusting the detector
- When used in high-bay warehouses, care should be taken that, in the cross-aisles of the warehouse, detectors are installed that can detect movement only in the desired aisle locations, by using blinds or other technical arrangements.
- Factory settings 3 min and 1000 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 98 × 63 mm
- approx. 0.5 W
- vertical 360°
- 30 m × 19 m
- 450 m² / 14 m mounting height
- 5 m / 16 m / 14 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control, potential-free (dry))
  - 2300 W, cos φ = 1; 1150 VA; cos φ = 0.5; 300 W LED;
  - max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
  - 1x μ-contact, dry NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 20 – 2000 Lux
- Mixed light measuring
1-channel Ceiling mounted occupancy detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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**Product Information**

- Mini-occupancy detector
- One channel for light switching
- Version as master device
- Extension of the detection area with slave devices possible
- Easy operation with remote control (required)
- Manual switching via push-button possible
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds
- Factory settings 10 min and 500 lux

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 28 mm, Power supply: 165 × 24 × 24 mm
- approx. 0.5 W
- vertical 360°
  - max. Ø 10 m across; max. Ø 6 m towards;
  - max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm, screened

**Channel 1 (lighting control)**

- 2300 W; cos Ø = 1; 1150 VA; cos Ø = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 5 min – 30 min, Pulse
- 20 – 1000 Lux

Mixed light measuring
1-channel

Ceiling mounted occupancy detectors

PD9-M-1C-GH

Product and accessory

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<td>IR-PD-Mini</td>
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<tr>
<td>Square design frame PD9-FC</td>
<td>pure white</td>
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Walking across

Product Information

- Mini-occupancy detector especially for large mounting heights
- One channel for light switching
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching via push-button possible
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Easy operation with remote control (required)
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blind
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 40 mm,
- Power supply: 165 × 24 × 24 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 3.5 m across
- 10 m² / 6 m mounting height
- 5 m / 10 m / 6 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm, screened

Channel 1 (lighting control)
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 5 min – 30 min, Pulse
- 20 – 1000 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

PD9-M-1C-SDB-IP65

Product and accessory

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<tr>
<td>PD9-S-SDB-FC</td>
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</table>

Product Information

- Mini-occupancy detector designed for high-humidity locations
- One potential-free (dry) switching contact
- Version as master device
- One additional Slave device sensor can be directly connected
- Additional functions can be set up using the optional remote control.
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds

Technical Data

- 230 V AC ±10% 50 Hz
- Sensor head: Ø 36 × 28 mm
- Power supply: 154 × 38 × 25 mm
- 2.2 W vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m mounting height
- IP65 / Class III
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 350 cm

Channel 1 (lighting control, potential-free (dry))

- 2300 W, cos ϕ = 1; 1150 VA, cos ϕ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 80 A
- 1x μ-contact, dry NO contact
- 15 sec – 30 min, Pulse
- 20 – 1500 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

1-channel

### Product and accessory

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### Product Information
- Mini-occupancy detector designed for high-humidity locations especially for large mounting heights
- One potential-free (dry) switching contact
- Version as master device
- One additional Slave device sensor can be directly connected
- Additional functions can be set up using the optional remote control.
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blind

### Technical Data
- **230 V AC ±10% 50 Hz**
- Sensor head: Ø 36 × 40 mm, Power supply: 154 × 38 × 25 mm
- 2.2 W
- vertical 360°
- max. Ø 3.5 m across
- 10 m² / 6 m mounting height
- 5 m / 10 m / 6 m
- IP65 / Class III
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 350 cm

**Channel 1 (lighting control, potential-free (dry))**
- 2300 W, cos ϕ = 1, 1150 VA, cos ϕ = 0.5; 300 W LED; max. inrush current Ip (20 ms) = 80 A
- 1x μ-contact, dry NO contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
- Mixed light measuring
1-channel PICO-N-M-1C

Ceiling mounted occupancy detectors

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<th>Product and accessory</th>
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Product Information
- Mini-occupancy detector, no additional power unit, suitable for high-humidity locations
- One channel for light switching
- Manual switching via push-button possible
- Easy operation with remote control (required)
- Version as master device
- Extension of the detection area with slave devices possible
- Mounting with clip ring (included) for lights or with spring clips for suspended ceilings
- Factory settings 10 min and 500 lux

Technical Data
- 110 – 240 V AC 50 / 60 Hz
- Ø 33 × 60 mm
- approx. 0.35 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP65 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 140 cm

Channel 1 (lighting control)
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED
- 1x μ-contact, NO contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
- Mixed light measuring
1-channel

Ceiling mounted occupancy detectors

Product and accessory

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<td>In-wall mounting set 1 / PD11</td>
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<td>In-wall mounting set 2 / PD11</td>
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<td>Square design frame PD11 FC</td>
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</table>

Product Information

- Particularly flat occupancy detector without additional power supply
- Visible portion when built into ceiling: height 0.85 mm
- One channel for light switching
- Manual switching via push-button possible
- Easy operation with remote control (required)
- Version as master device
- Extension of the detection area with slave devices possible
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- With accessories for flush-mounting in ceiling and exposed concrete
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 52 × 60 mm
- approx. 0.3 W
- vertical 360°
- max. Ø 9 m across; max. Ø 6 m towards; max. Ø 3 m seated
- 64 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 5 min – 30 min, Pulse
- 20 – 2000 Lux
- Mixed light measuring
1-channel

Ceiling mounted occupancy detectors

PD2N-M-1C-LED

Product and accessory

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<th>Description</th>
<th>Colour</th>
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<td>IR-PD-Mini</td>
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</tbody>
</table>

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
- Numerous setting and readout 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
- Ø 84 × 85 mm
- approx. 0.3 W / approx. 2 W with LED lighting
- vertical 360°
  - max. Ø 10 m across; max. Ø 6 m towards;
  - max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -20 °C to +40 °C
- PC, with sensor, power supply and LED light
- Semi-automatic mode, Slave mode, Full automatic mode, Fully automatic with Corridor

Channel 1 (lighting control, potential-free (dry))

- 2300 W, cos ϕ = 1; 1150 VA, cos ϕ = 0.5; 300 W LED
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, dry NO contact with tungsten pre-make contact
- 10 sec – 18 h
- 20 – 100 % / OFF / 10 s – 18 h
- 20 – 100 %
- 10 – 2000 Lux
Product and accessory

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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<td>92199</td>
</tr>
<tr>
<td>SM socket IP54 PD2/PD4-SM</td>
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</tbody>
</table>

Product Information

- Occupancy detector with circular detection area
- One channel for light switching
- One additional potential-free (dry) contact for HVAC
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching via push-button possible
- Alarm pulse: the detector triggers only when three movements are detected within 9 seconds
- Additional functions can be set up using the optional remote control.
- Factory settings 10 min and 500 lux (15 min HVAC)
- Zero crossing switching

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 98 × 47 mm
- FM= Ø 98 × 65 mm
- FC= Ø 80 × 85 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- SM= IP20 / Class II
- FM= IP20 / Class II
- FC= IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux

Channel 2 (HVAC control potential-free (dry))

- 3 A / 230 V, cos φ = 1
- 1x μ-contact, dry NO contact
- 5 min – 120 min, Alarm pulse, Pulse
- Mixed light measuring
Ceiling mounted occupancy detectors

Product and accessory

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<th>Colour</th>
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<tr>
<td>Wire basket Ø 200 x 90 mm</td>
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<td>Surface mounting socket (IP65) PD4-SM IPS4</td>
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<td>Square design frame PD4-FC</td>
<td>pure white mat, similar to RAL 9010</td>
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</table>

Product Information

- Occupancy detector with extended detection area
- One channel for light switching
- One additional potential-free (dry) contact for HVAC
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- Alarm pulse: the detector triggers only when three movements are detected within 9 seconds
- Factory settings 10 min and 500 lux (15 min HVAC)
- Zero crossing switching

Technical Data

- 110 – 240 V AC 50 / 60 Hz
  - SM= Ø 101 × 76 mm
  - FC= Ø 97 × 103 mm
  - FM= Ø 104 × 70 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- SM= IP54 / Class II
- FC= IP20 / Class II
- FM= IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
  - 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux

Channel 2 (HVAC control potential-free (dry))

- 3 A / 230 V, cos φ = 1
  - 1x dry NO contact
- 5 min – 120 min, Alarm pulse, Pulse
  - Mixed light measuring
Ceiling mounted occupancy detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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**Product Information**

- Occupancy detector designed for corridors
- One channel for light switching
- One additional potential-free (dry) contact for HVAC
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching via push-button possible
- Alarm pulse: the detector triggers only when three movements are detected within 9 seconds
- Additional functions can be set up using the optional remote control.
- There are markings for adjusting the detector
- Factory settings 10 min and 500 lux (15 min HVAC)

**Technical Data**

- **110 – 240 V AC 50 / 60 Hz**
  - FC= Ø 97 × 103 mm
  - SM= Ø 101 × 76 mm
  - FM= Ø 104 × 70 mm
  - < 0.5 W
  - vertical 360°
  - max. Ø 40 m across; max. Ø 20 m towards
  - 250 m² / 2.5 m mounting height
- **2.4 m / 2.6 m / 2.5 m**
  - FC= IP20 / Class II
  - SM= IP54 / Class II
  - FM= IP20 / Class II
  - -25 °C to +50 °C
- Polycarbonate, UV-resistant
  - Channel 1 (lighting control)
  - 2300 W, cos ϑ = 1; 1150 VA, cos ϑ = 0.5; 300 W LED;
    - max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
    - 1x μ-contact, NO contact with tungsten pre-make contact
    - 15 sec – 30 min, Pulse
    - 10 – 2000 Lux
  - Channel 2 (HVAC control potential-free (dry))
    - 3 A / 230 V; cos ϑ = 1
    - 1x μ-contact, dry NO contact
    - 5 min – 120 min, Alarm pulse, Pulse
    - Mixed light measuring
Ceiling mounted occupancy detectors

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
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</table>

Product Information

- Occupancy detector connectable to two different phases
- 2 channels for switching light: the illumination system can be divided into two separate groups being electrically isolated.
- Version as master device
- Extension of the detection area with one additional PD4-M-2C-DS-FC configured as a Slave device
- Manual switching possible via a shared pushbutton
- Additional functions can be set up using the optional remote control.
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 117 × 100 mm
- < 1.5 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards;
- max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 and Channel 2 (lighting control)

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 2x µ-contact, NO contact with tungsten pre-make contact
- 15 sec – 60 min, Pulse
- 10 – 2000 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

**2-channel**

**PD9-M-2C**

### Product and accessory

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<th>Description</th>
<th>Colour</th>
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### Product Information

- Mini occupancy detector for light switching with additional potential-free (dry) contact
- Version as master device
- Extension of the detection area with slave devices possible
- Easy operation with remote control (required)
- Easy operation with remote control (required)
- Manual switching via push-button possible
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds
- Factory settings 10 min and 500 lux (15 min HVAC)

### Technical Data

- **Channel 1 (lighting control)**
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED
  - max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
  - 1x μ-contact, NO contact with tungsten pre-make contact
  - 5 min – 30 min, Pulse
  - 20 – 1000 Lux

- **Channel 2 (HVAC control potential-free (dry))**
  - 3 A / 230 V, cos φ = 1
  - 1x μ-contact, dry NO contact
  - 5 min – 120 min, Pulse
  - Mixed light measuring
Ceiling mounted occupancy detectors

**PD4-M-2C-DUO**

**Product and accessory**

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**Product Information**

- Occupancy detector for two separate lighting groups
- One common detection area
- Two independent, movable light sensors
- Manual switching via two push-buttons possible
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.
- Factory settings 10 min and 500 lux

**Technical Data**

- **110 – 240 V AC 50 / 60 Hz**
  - SM: Ø 117 × 68 mm
  - FC: Ø 97 × 103 mm
  - FM: Ø 97 × 84 mm
- **approx. 0.5 W**
- **vertical 360°**
- **max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated**
- **450 m² / 2.5 m mounting height**
- **2 m / 10 m / 2.5 m**
- **SM: IP54 / Class II**
- **FC: IP20 / Class II**
- **FM: IP20 / Class II**
- **Polycarbonate, UV-resistant**

**Channel 1 (lighting control)**

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED; max. inrush current Ip [20 ms] = 165 A; max. inrush current Ip [200 μs] = 800 A
- 1μ-contact, NO contact with tungsten pre-make contact
- 1 min – 30 min, Pulse
- 10 – 2000 Lux

**Channel 2 (lighting control potential-free (dry))**

- Switch-on threshold: 10 – 2000 Lux
- 1μ-contact, dry NO contact with tungsten pre-make contact
- Mixed light or daylight measuring
Ceiling mounted occupancy detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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</table>

**Product Information**

- Occupancy detector particularly for classrooms and training classrooms
- Two contacts, one of them dry, for two groups of light, separate switching possible
- One potential-free contact for blackboard illumination or HVAC
- One common detection area
- Two independent, movable light sensors
- Manual switching possible via two or three pushbuttons
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.
- Relay with tungsten pre-make contact, optimised for LED loads

**Technical Data**

- Input voltage: 110 – 240 V AC 50 / 60 Hz
- Dimensions: SM= Ø 124 × 85 mm, FC= Ø 117 × 100 mm
- Power consumption: approx. 0.5 W
- Detection range: vertical 360°, max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- Mounting height: 450 m² / 2.5 m
- Protection rating: SM= IP20 / Class II, FC= IP20 / Class II
- Operating temperature: -25 °C to +50 °C
- Material: Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- Maximum load: 3000 W, cos φ = 1
- Maximum inrush current: 120 A
- Contact type: 1x μ-contact, NO contact with tungsten pre-make contact

**Channel 2 (lighting control potential-free (dry))**

- Switch-on threshold: 10 – 2000 Lux
- Contact type: 1x μ-contact, dry NO contact with tungsten pre-make contact

**Channel 3 (HVAC control or lighting control, potential-free (dry))**

- Switching power: 3000 W, cos φ = 1
- Max. inrush current: 120 A
- Contact type: 1x μ-contact, dry NO contact with tungsten pre-make contact

**Channel 1 to channel 3**

- Time delay: 1 min – 90 min
- Mixed light measuring
Ceiling mounted occupancy detectors

Product and accessory

<table>
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<tr>
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</table>

Product Information

- Occupancy detector with operating voltage of 12-48 V
- Two potential-free (dry) channels
- For channel 1, output of brightness-dependent resistance value also available, for additional analogue connection
- Can be used as either Master device or Slave device
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- Further wiring diagrams see product page on www.beg-luxomat.com
- Factory settings 10 min and 500 lux (15 min HVAC)

Technical Data

- 12 – 48 V AC / DC
- SM: Ø 98 × 47 mm
- FC: Ø 80 × 85 mm
- < 1 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- SM: IP20 / Class II
- FC: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control, potential-free (dry))
  - 3 A; cos φ = 1
  - 1x μ-contact, dry NO contact
  - 15 sec – 30 min, Pulse
  - 10 – 2000 Lux
- Channel 2 (HVAC control potential-free (dry))
  - 5 min – 120 min, Alarm pulse, Pulse
  - Mixed light measuring
Product and accessory

<table>
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<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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Product Information

- Occupancy detector with operating voltage of 12-48 V
- Two potential-free (dry) channels
- For channel 1, output of brightness-dependent resistance value also available, for additional analogue connection
- Can be used as either Master device or Slave device
- Manual switching via push-button possible
- Additional functions can be set up using the optional remote control.
- Further wiring diagrams see product page on www.beg-luxomat.com
- Factory settings 10 min and 500 lux (15 min HVAC)

Technical Data

- 12 – 48 V AC / DC
- SM: Ø 98 × 47 mm
- FC: Ø 80 × 85 mm
- < 1 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- SM: IP20 / Class II
- FC: IP20 / Class II
- -25°C to +50°C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control, potential-free (dry))
  - 0.1 A; cos φ = 1 with Reed relay
  - 1x μ-contact; dry NO contact
  - 15 sec – 30 min, Pulse
  - 10 – 2000 Lux
- Channel 2 (HVAC control potential-free (dry))
  - 5 min – 120 min, Alarm pulse, Pulse
  - Mixed light measuring
Lights controlled by occupancy and daylight!

Dimming technology is also known as 1-10V technology; its purpose is to vary the light intensity of connected lamps or electronic ballasts. So that this can take place automatically, B.E.G. offers dimming occupancy detectors. These enable daylight-dependent lighting regulation via a control output.

The dimming B.E.G. occupancy detectors are remote control-capable, offering more convenience for the user. The lux value desired for room illumination is set up on the detector. When movement is detected, the detector regulates the required amount of artificial light to add to the daylight level, in order to achieve this lux value.
**Detector overview**

**Dimming with 1 or 2-channel Master with daylight evaluation**

<table>
<thead>
<tr>
<th>Detector</th>
<th>Page</th>
<th>Page</th>
<th>Page</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
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<td>•</td>
<td>max. Ø 10 m</td>
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Ceiling mounted occupancy detectors

**Product and accessory**

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<td>SM socket IP54 PD2/PD4-SM</td>
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</tr>
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</table>

**Product Information**

- Occupancy detector for daylight-dependent lighting control
- 1-10 V interface for controlling analog, dimmable ballasts
- Additional switching channel for the following function: Cut-Off (complete ECG switch-off to avoid standby losses).
- Orientation light function
- Manual switching and dimming via push button possible
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.
- Relay with tungsten pre-make contact, optimised for LED loads
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4

**Technical Data**

- **110 – 240 V AC 50 / 60 Hz**
- **SM= Ø 98 × 47 mm**
- **FM= Ø 98 × 65 mm**
- **FC= Ø 80 × 85 mm**
- approx. 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- **SM= IP20 / Class II**
- **FM= IP20 / Class II**
- **FC= IP20 / Class II**
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2300 W, cos φ = 1, 1150 VA, cos φ = 0.5;
- max. inrush current IP (20 ms) = 165 A;
- max. inrush current IP (200 μs) = 800 A
- 1x μ-contact. NO contact with tungsten pre-make contact
- 1 – 10 V DC, up to 50 ballasts
- 1 min – 30 min
- 10 – 200 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

**Product and accessory**

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<thead>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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</table>

**Product Information**

- Occupancy detector with large detection area, daylight-dependent lighting control
- 1-10 V interface for controlling analog, dimmable ballasts
- Orientation light function
- Additional switching channel for the following function: Cut-Off (complete ECG switch-off to avoid standby losses).
- Manual switching and dimming via push button possible
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control
- Relay with tungsten pre-make contact, optimised for LED loads
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- SM: Ø 101 × 76 mm
- FC: Ø 97 × 103 mm
- FM: Ø 97 × 84 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- SM: IP54 / Class II
- FC: IP20 / Class II
- FM: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact; NO contact with tungsten pre-make contact
- 1 – 10 V DC, up to 50 ballasts
- 1 min – 30 min
- 10 – 2000 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

**Product and accessory**

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**Product Information**

- Occupancy detector designed for corridors, daylight-dependent lighting control
- 1-10 V interface for controlling analog, dimmable ballasts
- Orientation light function
- Additional switching channel for the following function: Cut-Off (complete ECG switch-off to avoid standby losses).
- Manual switching and dimming via push button possible
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.
- Relay with tungsten pre-make contact, optimised for LED loads
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4
- There are markings for adjusting the detector

**Technical Data**

- **110 – 240 V AC 50 / 60 Hz**
- FC: Ø 97 × 103 mm
- SM: Ø 101 × 76 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m² / 2.5 m mounting height
- 2.4 m / 2.6 m / 2.5 m
- FC: IP20 / Class II
- SM: IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- **Channel 1 (lighting control)**
  - 2300 W, cos ϕ = 1; 1150 VA, cos ϕ = 0.5; 300 W LED
  - max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
  - 1x μ-contact, NO contact with tungsten pre-make contact
  - 1 – 10 V DC, up to 50 ballasts
  - 1 min – 30 min
  - 10 – 2000 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

**Product and accessory**

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<tr>
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<tr>
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<td>pure white mat, similar to RAL 9010</td>
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</table>

**Product Information**

- Mini occupancy detector for daylight-dependent lighting control
- 1 – 10 V interface for controlling analog, dimmable ballasts
- Additional switching channel for the following function: Cut-Off (complete ECG switch-off to avoid standby losses).
- Manual switching and dimming via push button possible
- Orientation light function
- Version as master device
- Extension of the detection area with slave devices possible
- **Easy operation with remote control (required)**
- Relay with tungsten pre-make contact, optimised for LED loads
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 28 mm,
- Power supply: 165 × 24 × 24 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm, screened

**Channel 1 (lighting control)**

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 1-10 V DC, up to 50 ballasts
- 1 min – 30 min
- 10 – 2000 Lux

Mixed light measuring
Ceiling mounted occupancy detectors

**Product and accessory**

<table>
<thead>
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<tr>
<td>Square design frame PD9-FC</td>
<td>pure white mat, similar to RAL 9010</td>
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</tbody>
</table>

**Product Information**

- Mini occupancy detector for daylight-dependent lighting control, especially for large mounting heights
- 1-10 V interface for controlling analog, dimmable ballasts
- Additional switching channel for the following function: Cut-Off (complete ECG switch-off to avoid standby losses).
- Orientation light function
- Manual switching and dimming via push button possible
- Version as master device
- Extension of the detection area with slave devices possible
- Light regulation feasible up to 5 m mounting height
- Relay with tungsten pre-make contact, optimised for LED loads
- Easy operation with remote control (required)
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blind

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 40 mm
- Power supply: 165 × 24 × 24 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 3.5 m across
- 10 m² / 6 m mounting height
- 5 m / 10 m / 6 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm, screened

**Channel 1 (lighting control)**

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1 Χ-μ-contact, NO contact with tungsten pre-make contact
- 1 – 10 V DC, up to 50 ballasts
- 1 min – 30 min
- 10 – 2000 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

**Product and accessory**

<table>
<thead>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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</table>

**Product Information**

- Occupancy detector for two separate lighting groups, for daylight-dependent lighting control
- Two 1-10 V interfaces for control of dimmable electronic ballasts
- One common detection area
- Two independent, movable light sensors
- Manual switching and dimming via push button possible
- Orientation light function
- Relay with tungsten pre-make contact, optimised for LED loads
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- SM: Ø 106 × 95 mm
- FC: Ø 97 × 103 mm
- FM: Ø 97 × 84 mm
- approx. 0.5 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 4.5 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- SM: IP44 / Class II
- FC: IP20 / Class II
- FM: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 and Channel 2 (lighting control)
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
  - max. inrush current IP (20 ms) = 165 A; max. inrush current IP (200 μs) = 800 A
  - 1x μ-contact; NO contact with tungsten pre-make contact
  - 2 dim outputs 1 – 10 V DC, up to 25 ballasts per channel
  - 1 min – 30 min
  - 10 – 2000 Lux
- Mixed light measuring
Ceiling mounted occupancy detectors

**Product and accessory**

<table>
<thead>
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**Product Information**

- Occupancy detector for two separate lighting groups, for daylight-dependent lighting control
- One potential-free switching channel for control of equipment (HVAC) or lighting
- One common detection area
- Two independent, movable light sensors
- Manual switching and dimming via push button possible
- Orientation light function
- Relay with tungsten pre-make contact, optimised for LED loads
- Version as master device
- Extension of the detection area with slave devices possible
- Two 1-10 V interfaces for control of dimmable electronic ballasts
- Additional functions can be set up using the optional remote control.
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 124 × 85 mm
- FC= Ø 117 × 100 mm
- approx. 0.6 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- SM= IP20 / Class II
- FC= IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 and Channel 2 (lighting control)
  - 3000 W, cos φ = 1; 1500 VA, cos φ = 0.5; 300 W LED, max. inrush current Ip (20 ms) = 165 A, max. inrush current Ip (200 μs) = 800 A
  - 1x μ-contact, NO contact with tungsten pre-make contact
- 2 dim outputs 1 – 10 V DC, up to 25 ballasts per channel
- 20 % / OFF / m
- Channel 3 (HVAC control or lighting control, potential-free (dry))
  - Switching power: 3000 W, cos φ = 1
  - 1500 VA, cos φ = 0.5
  - 300 W LED
  - max. inrush current Ip (20 ms) = 165 A
  - max. inrush current Ip (200 μs) = 800 A
  - Type of contact: 1x μ-contact, dry NO contact with tungsten pre-make contact
- Channel 1 to channel 3
  - 1 min – 60 min
  - 10 – 2000 Lux
  - Mixed light measuring
Ceiling mounted occupancy detectors

**Product and accessory**

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<tr>
<td>Square design frame PD4-FC</td>
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</tbody>
</table>

**Product Information**

- Occupancy detector for daylight-dependent lighting control
- 1-10 V interface for controlling analog, dimmable ballasts
- Additional switching channel for the following function: Cut-Off (complete ECG switch-off to avoid standby losses).
- One additional potential-free (dry) contact for HVAC
- Manual switching and dimming via push button possible
- Orientation light function
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.
- Relay with tungsten pre-make contact, optimised for LED loads
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- FC = Ø 97 × 103 mm
- approx. 0.6 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- FC = IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2300 W, \( \cos \varphi = 1 \); 1150 VA, \( \cos \varphi = 0.5 \); 300 W LED;
- max. inrush current \( I_p \) (20 ms) = 165 A; max. inrush current \( I_p \) (200 μs) = 800 A
- 1x µ-contact, NO contact with tungsten pre-make contact
- 1 – 10 V DC, up to 50 ballasts
- 1 min – 30 min
- 10 – 2000 Lux

**Channel 2 (HVAC control potential-free (dry))**

- PD4-M-DIM-HKL-3A-FC: 3 A, 230 V, \( \cos \varphi = 1 \);
- PD4-M-DIM-HKL-16A-FC: 16 A, 230 V, \( \cos \varphi = 1 \)
- dry NO contact
- 5 min – 120 min, Alarm pulse, Pulse
- Mixed light measuring
# Ceiling mounted occupancy detectors

## Product and accessory

<table>
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<tr>
<td>Square design frame PD4-FC</td>
<td>pure white, similar to RAL 9010</td>
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</tbody>
</table>

## Product Information

- Occupancy detector for daylight-dependent lighting control
- 1-10 V interface for controlling analog, dimmable ballasts
- Additional switching channel for the following function: Cut-Off (complete ECG switch-off to avoid standby losses).
- One additional potential-free (dry) contact for HVAC
- Manual switching and dimming via push button possible
- Orientation light function
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.
- Relay with tungsten pre-make contact, optimised for LED loads
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4

## Technical Data

- **Channel 1 (lighting control)**
  - 110 – 240 V AC 50 / 60 Hz
  - FC: ø 97 × 103 mm
  - approx. 0.6 W
  - Vertical 360°
  - max. Ø 24 m across; max. Ø 8 m towards;
  - max. Ø 6.4 m seated
  - 450 m² / 2.5 m mounting height
  - 2 m / 10 m / 2.5 m
  - FC: IP20 / Class II
  - -25 °C to +50 °C
  - Polycarbonate, UV-resistant
- **Channel 2 (HVAC control potential-free (dry))**
  - 1 – 10 V DC, up to 50 ballasts
  - 1 min – 30 min
  - 10 – 2000 Lux
Ceiling mounted occupancy detectors

**Product and accessory**

<table>
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<th>Description</th>
<th>Colour</th>
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<tr>
<td>Cover IP65 PD9-Sensor head</td>
<td>transparent</td>
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<tr>
<td>Square design frame PD9-FC</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92993</td>
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</tbody>
</table>

**Product Information**

- Mini occupancy detector for light switching with additional potential-free (dry) contact
- 1 – 10 V interface for controlling analog, dimmable ballasts
- Orientation light function
- Additional switching channel for the following function:
  - Cut-Off (complete ECG switch-off to avoid standby losses).
- One additional potential-free (dry) contact for HVAC
- Manual switching and dimming via push button possible
- Easy operation with remote control (required)
- Version as master device
- Extension of the detection area with slave devices possible
- Relay with tungsten pre-make contact, optimised for LED loads
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds
- Factory settings 5 min and 300 lux (15 min HVAC)

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 28 mm, Power supply: 165 × 24 × 24 mm
- approx. 0.8 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm, screened

**Channel 1 (lighting control)**

- 2300 W, cos ϕ = 1; 1150 VA, cos ϕ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 1-10 V DC, up to 50 ballasts
- 1 min – 30 min
- 10 – 2000 Lux

**Channel 2 (HVAC control potential-free (dry))**

- 3 A / 230 V, cos ϕ = 1
- μ-contact, dry NO contact
- 5 min – 60 min, Pulse
- Mixed light measuring
Modern lighting control with DALI Compact solutions

Safe planning and calculation with B.E.G. DALI

B.E.G. DALI Compact products are "stand-alone solutions", and work on the single master principle. This means that only the occupancy detector sends the switching/dimming signal to all the lights.

The B.E.G. DALI Compact occupancy detectors combine all the components needed for energy-efficient lighting control in one case: the DALI power supply, push-button control, relay and application controller are housed directly in the detector case. Thanks to the broadcast process and the factory settings for set value brightness (500 lux) and follow-up time (10 minutes), devices can be commissioned quickly. The B.E.G. DALI range contains occupancy detectors to suit almost any requirement: for example with different sizes of detection area, with up to three DALI interfaces, with additional HVAC channel, with special corridor lenses or for high-bay applications. B.E.G. also offers an occupancy detector which can form multiple groups via only one DALI interface by addressing the connected lights.

The area to be monitored is enlarged cost-effectively using slave devices.
## Detector overview

### Presence detector for DALI/DSI (DALI compact)

<table>
<thead>
<tr>
<th>Occupancy detector</th>
<th>Page</th>
<th>Page</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
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<td>73</td>
<td>92280</td>
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<td>–</td>
<td>Ø 10 m</td>
<td>–</td>
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<td>PD4-M-DALI/DSI</td>
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<td>with HVAC channel</td>
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<td>Ø 24 m</td>
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<td>DALI slave detector</td>
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<td>PD4-M-HCL</td>
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<td>–</td>
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1-channel Broadcast

Occupancy detectors DALI Compact

Product and accessory

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<th>Description</th>
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<th>Part number</th>
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<td>IR-PD-DALI-E</td>
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<tr>
<td>IR-PD-DALI-Mini</td>
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<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<tr>
<td>SM socket IP54 PD2/PD4-SM</td>
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</table>

Product Information

- Occupancy detector for daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Manual switching and dimming via push button possible
- Switching between DALI and DSI programming possible with DIP switch and remote control
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.
- Orientation light function
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- FC: Ø 80 x 85 mm
- SM: Ø 98 x 47 mm
- approx. 1 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- FC: IP20 / Class II
- SM: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- up to 50 DALI / DSI-EB
- 1 min – 30 min
- 10 – 30 % / OFF / 5 min – 60 min / =
- 10 – 2000 Lux
- Mixed light measuring
## Product and accessory

<table>
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## Product Information

- Occupancy detector with large detection area, daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Switching between DALI and DSI programming possible with DIP switch and remote control
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control.
- Orientation light function
- Factory settings 10 min and 500 lux

## Technical Data

- **110 – 240 V AC 50 / 60 Hz**
- **FC**: Ø 97 × 103 mm
- **SM**: Ø 98 × 63 mm
- approx. 1 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- **FC**: IP20 / Class II
- **SM**: IP20 / Class II
- -25 °C to -50 °C
- Polycarbonate, UV-resistant

### Channel 1 (lighting control)

- up to 50 DALI / DSI-EB
- 1 min – 30 min
- 10 – 30 % / OFF / 5 min – 60 min / ∞
- 10 – 2000 Lux
- Mixed light measuring
**Product and accessory**

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<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<tr>
<td>SM socket IP54 PD2/PD4-SM</td>
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<tr>
<td>Wall holder PD4-SM</td>
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**Product Information**

- Occupancy detector designed for corridors, daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Switching between DALI and DSI programming possible with DIP switch and remote control
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control.
- Orientation light function
- There are markings for adjusting the detector
- Factory settings 10 min and 500 lux

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- FC: Ø 97 x 103 mm
- SM: Ø 98 x 63 mm
- approx. 1 W
- vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m² / 2.5 m mounting height
- 2.4 m / 2.6 m / 2.5 m
- FC: IP20 / Class II
- SM: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - up to 50 DALI / DSI-EB
  - 1 min – 30 min
  - 10 – 30 % / OFF / 5 min – 60 min / =
  - 10 – 2000 Lux
- Mixed light measuring
1-channel Broadcast

Occupancy detectors DALI Compact

Product and accessory

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Product Information

- DALI occupancy detector for surface mounting in large mounting heights
- External telescopic light sensor for a mounting height between 5 and 16m (mechanically adjustable) for measuring the light according to the application.
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control.
- Logical switching or control output
- Permanent or time-limited orientation light
- There are markings for adjusting the detector
- When used in high-bay warehouses, care should be taken that, in the cross-aisles of the warehouse, detectors are installed that can detect movement only in the desired aisle locations, by using blinds or other technical arrangements.
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 101 × 76 mm
- 4 mA
- 0.9 W
- vertical 360°
- 30 m × 19 m
- 450 m² / 14 m mounting height
- 5 m / 16 m / 14 m
- IP54 / Class II
- -25 °C to -50 °C
- Polycarbonate. UV-resistant
- Channel 1 (lighting control)
- up to 50 DALI / DSI-EB
- 1 min – 30 min
- 5 – 100 % / 1 min – 120 min / m
- 10 – 2500 Lux
- Mixed light measuring
Occupancy detectors DALI Compact

**Product and accessory**

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**Product Information**

- Mini occupancy detector for daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Switching between DALI and DSI possible with remote control
- Manual switching and dimming via push button possible
- Version as master device
- Orientation light function
- Extension of the detection area with slave devices possible
- Easy operation with remote control (required)
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Includes 45 mm cover ring and blinds
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Factory settings 10 min and 500 lux

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 28 mm
- Power supply: 165 × 24 × 24 mm
- approx. 1 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm

**Channel 1 (lighting control)**

- up to 50 DALI / DSI-EB
- 1 min – 30 min
- 10 – 30 % / OFF / 5 min – 60 min / =
- 10 – 2000 Lux
- Mixed light measuring
Product and accessory

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<td>Square design frame PD9-FC</td>
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Product Information

- Mini occupancy detector for daylight-dependent lighting control, especially for large mounting heights
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Switching between DALI and DSI possible with remote control
- Orientation light function
- Version as master device
- Extension of the detection area with slave devices possible
- Light regulation feasible up to 5 m mounting height
- Easy operation with remote control (required)
- Manual switching and dimming via push button possible
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blind
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 41 mm,
- Power supply: 165 × 24 × 24 mm
- approx. 1 W
- vertical 360°
- max. Ø 3.5 m across
- 10 m² / 6 m mounting height
- 5 m / 10 m / 6 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm

Channel 1 (lighting control)

- up to 50 DALI / DSI-EB
- 1 min – 30 min
- 10 – 30 % / OFF / 5 min – 60 min / ∞
- 10 – 2000 Lux
- Mixed light measuring
## Occupancy detectors DALI Compact

### Product and accessory

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### Product Information

- Occupancy detector for daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Additional switching channel for one of the following two functions:
  - Cut-Off (complete ECG switch-off to avoid standby losses) or HVAC (for the energy-efficient control of heating, air-conditioning or ventilation systems or for displaying occupancy)
  - Switching between DALI and DSI programming possible with DIP switch and remote control
- Orientation light function
- Relay with tungsten pre-make contact, optimised for LED loads
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4
- Factory settings 10 min and 500 lux

### Technical Data

- **110 – 240 V AC 50 / 60 Hz**
- **FC**: Ø 80 × 85 mm
- **SM**: Ø 102 × 58 mm
- **approx. 1 W**
- **vertical 360°**
- **max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated**
- **79 m² / 2.5 m mounting height**
- **2 m / 5 m / 2.5 m**
- **FC**: IP20 / Class II
- **SM**: IP54 / Class II
- **-25 °C to +50 °C**
- **Polycarbonate, UV-resistant**
- **Channel 1 (lighting control)**
  - up to 50 DALI / DSI-EB
  - 1 min – 30 min
  - 10 – 30 % / OFF / 5 min – 60 min / =
  - 10 – 2000 Lux
- **Channel 2 (HVAC or lighting control)**
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
  - max. inrush current Ip (20 ms) = 165 A
  - 1x μ-contact, N0 contact with tungsten pre-make contact
  - 5 min – 120 min, Alarm pulse, Pulse
  - Mixed light measuring
Product and accessory

<table>
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<th>Description</th>
<th>Colour</th>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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Product Information

- Occupancy detector for daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Additional potential-free switching channel for one of the following two functions:
  Cut-Off (complete ECG switch-off to avoid standby losses) or HVAC (for the energy-efficient control of heating, air-conditioning or ventilation systems or for displaying occupancy).
- Alarm pulse: the detector triggers only when three movements are detected within 9 seconds
- Switching between DALI and DSI programming possible with DIP switch and remote control
- Orientation light function
- Relay with tungsten pre-make contact, optimised for LED loads
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control.
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 80 × 85 mm
- approx. 1 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - up to 50 DALI / DSI-EB
  - 1 min – 30 min
  - 10 – 30 % / OFF / 5 min – 60 min / ∞
  - 10 – 2000 Lux
- Channel 2 (HVAC or lighting control, potential-free (dry))
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
  - max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 µs) = 800 A
  - 1x µ-contact, dry NO contact with tungsten pre-make contact
  - 5 min – 120 min, Alarm pulse, Pulse
  - Mixed light measuring
# Occupancy detectors DALI Compact

## Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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## Product Information

- Occupancy detector with large detection area, daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Additional switching channel for one of the following two functions:
  - Cut-Off (complete ECO switch-off to avoid standby losses) or HVAC (for the energy-efficient control of heating, air-conditioning or ventilation systems or for displaying occupancy)
  - Switching between DALI and DSI programming possible with DIP switch and remote control
- Orientation light function
- Relay with tungsten pre-make contact, optimised for LED loads
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control.
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4
- Factory settings 10 min and 500 lux

## Technical Data

- **110 – 240 V AC 50 / 60 Hz**
- **Ø 101 × 76 mm**
- **approx. 1 W**
- **vertical 360°**
- max. Ø 24 m across; max. Ø 8 m towards;
- max. Ø 6.4 m seated
- **450 m² / 2.5 m mounting height**
- **2 m / 10 m / 2.5 m**
- **IP20 / Class II**
- **-25 °C to +50 °C**
- Polycarbonate, UV-resistant
- **Channel 1 (lighting control)**
  - up to 50 DALI / DSI-EB
  - 1 min – 30 min
  - 10 – 30 % / OFF / 5 min – 60 min / =
  - 10 – 2000 Lux
- **Channel 2 (HVAC or lighting control)**
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
  - max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
  - 1x μ-contact, NO contact with tungsten pre-make contact
  - 5 min – 120 min, Alarm pulse, Pulse
  - Mixed light measuring
2-channel Broadcast

Occupancy detectors DALI Compact

Product and accessory

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Product Information

- Occupancy detector with large detection area, daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Switching between DALI and DSI programming possible with DIP switch and remote control
- Additional potential-free switching channel for one of the following two functions: Cut-Off (complete ECG switch-off to avoid standby losses) or HVAC (for the energy-efficient control of heating, air-conditioning or ventilation systems or for displaying occupancy).
- Alarm pulse: the detector triggers only when three movements are detected within 9 seconds
- Orientation light function
- Relay with tungsten pre-make contact, optimised for LED loads
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control.
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4
- Factory settings 10 min and 500 lux

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 97 × 103 mm approx. 1 W
- vertical 360° max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control) up to 50 DALI / DSI-EB 1 min – 30 min 10 – 30 % / OFF / 5 min – 60 min / ∞ 10 – 2000 Lux
- Channel 2 (HVAC or lighting control, potential-free (dry)) 2300 W, cos ϕ = 1; 1150 VA, cos ϕ = 0.5; 300 W LED; max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A 1x μ-contact, dry NO contact with tungsten pre-make contact
- 5 min – 120 min, Alarm pulse, Pulse Mixed light measuring
### Product and accessory

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### Product Information

- Occupancy detector for two separate lighting groups, for daylight-dependent lighting control
- One common detection area
- Two independent, movable light sensors
- 2 DALI/DSI interfaces for control of digital dimmable electronic ballasts as a group
- Switching between DALI and DSI programming possible with DIP switch and remote control
- Version as master device
- Extension of the detection area with slave devices possible
- Additional functions can be set up using the optional remote control.
- Manual switching and dimming via push button possible
- Orientation light function

### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 97 × 103 mm
- approx. 1 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- max 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 and Channel 2 (lighting control)
- up to 25 DALI / DSI-EB per channel
- 1 min – 30 min
- 20 / 5 s – 60 min / ∞
- 10 – 2000 Lux
- Mixed light measuring
### Product and accessory

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### Product Information

- Occupancy detector for two lighting groups for daylight-dependent lighting regulation
- Control of up to 25 digital dimming electronic ballasts and control modules as a group per DALI output 1 and 2, and up to 10 for DALI output 3
- Two independent, movable light sensors
- One common detection area
- Switching between DALI and DSI possible with remote control
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control.
- Orientation light function

### Technical Data

- **Input Voltage:** 110 – 240 V AC 50 / 60 Hz
- **SM:** Ø 124 × 85 mm
- **FC:** Ø 117 × 100 mm
- **Approx. Power Consumption:** 2.2 W
- **Vertical Field of View:** 360°
- **Max. Detection Area:**
  - Walking across: max. Ø 24 m
  - Walking towards: max. Ø 8 m
  - Seated: max. Ø 6.4 m
- **Building Area:** 450 m²
- **Mounting Height:** 2.5 m
- **SM:** IP20 / Class II
- **FC:** IP20 / Class II
- **Operational Temperature Range:** -25 °C to +50 °C
- **Material:** Polycarbonate, UV-resistant

**Channel 1 and Channel 2 (lighting control)**

- Up to 25 DALI / DSI-EB per channel
- 10 – 30 % / OFF / 1 min – 60 min / ∞

**Channel 3 (lighting control)**

- Switching power: up to 10 DALI / DSI-EB

**Channel 1 to channel 3**

- 1 min – 60 min
- 40 – 1200 Lux

Mixed light measuring
## Product and accessory

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**Product Information**

- Occupancy detector for two separate lighting groups, for daylight-dependent lighting control
- One potential-free switching channel for control of equipment (HVAC) or lighting
- Two independent, movable light sensors
- One common detection area
- 2 DALI/DSI interfaces for control of digital dimmable electronic ballasts as a group
- Switching between DALI and DSI possible with remote control
- Orientation light function
- Relay with tungsten pre-make contact, optimised for LED loads
- Version as master device
- Extension of the detection area with slave devices possible
- Manual switching and dimming via push button possible
- Additional functions can be set up using the optional remote control.

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- SM: Ø 124 × 85 mm
- FC: Ø 117 × 100 mm
- approx. 2 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- SM: IP20 / Class II
- FC: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 and Channel 2 (lighting control)**

- up to 25 DALI / DSI-EB per channel
- 10 – 30 % / OFF / 1 min – 60 min =

**Channel 3 (HVAC control or lighting control, potential-free (dry))**

- Switching power: 3000 W, cos φ = 1
- 1500 VA, cos φ = 0.5
- max. inrush current Ip (20 ms) = 165 A
- max. inrush current Ip (200 μs) = 800 A
- Type of contact: 1x μ-contact, dry NO contact with tungsten pre-make contact

**Channel 1 to channel 3**

- 1 min – 60 min
- 10 – 2000 Lux

Mixed light measuring
3-channel Broadcast

Occupancy detectors DALI Compact

**Product and accessory**

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**Product Information**

- Occupancy detector with large detection area, daylight-dependent lighting control
- DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- One potential-free switching channel for control of equipment (HVAC) or lighting
- Two independent, movable light sensors
- Switching between DALI and DSI possible with remote control
- Version as master device
- Manual switching and dimming via push button possible
- Extension of the detection area with slave devices possible
- Orientation light function
- Additional functions can be set up using the optional remote control.

**Technical Data**

- **110 – 240 V AC 50 / 60 Hz**
- Ø 117 × 100 mm
- < 1 W
- circular 360°
  - max. Ø 24 m across; max. Ø 8 m towards;
  - max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- up to 25 DALI / DSI-EB
- 15 sec – 30 min
- 10 – 30 % / OFF / 1 min – 60 min / ∞
- 10 – 2000 Lux

**Channel 2 (lighting control)**

- 2300 W, \( \cos \varphi = 1 \)
- 1150 VA, \( \cos \varphi = 0.5 \)
- 1x \( \mu \)-contact, NO contact with tungsten pre-make contact
- 15 min – 30 min, semi-automatic, full automatic
  - (in common with channel 1)

**Channel 3 (HVAC control or lighting control, potential-free (dry))**

- Switching power: 700 W, \( \cos \varphi = 1 \)
- 350 VA, \( \cos \varphi = 0.5 \)
- Type of contact: \( \mu \)-contact dry NO contact with tungsten pre-make contact
- Mixed light measuring
Addressable

Occupancy detectors DALI Compact

Product and accessory

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Product Information

- Flexible DALI Compact solution designed for conference rooms, training rooms and classrooms
- High-sensitivity occupancy detector with the capability to address up to 64 DALI electronic ballasts (EB) automatically, with segmented control via 4 groups
- Quick commissioning and maintenance processes via Smartphone/Tablet App (Android, iOS) - No PC-Tool required
- 3 lighting zones:
  A for main lighting with segmented constant light regulation via 3 DALI groups and offset control,
  B for lectern or blackboard lighting via separate DALI group,
  C for lectern or blackboard lighting by integrated relay
- Powerful switching relay for different operating modes, e.g. Cut-off function for DALI ballasts, HVAC, blackboard illumination.
- Manual switching or dimming via conventional pushbuttons
- Detection area can be extended with up to four Slave devices of type PD4-S-DAA4G
- Complete range of functions can only be activated using the B.E.G. IR-Adapter or the BLE-IR-Adapter and a compatible Smartphone or Tablet (Android, iOS).
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 124 × 85 mm
- FC= Ø 117 × 100 mm
- approx. 0.4 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards;
- max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- SM= IP20 / Class II
- FC= IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- DALI Control
- up to 64 DALI / DSI-EB, can be grouped into 3 DALI groups plus blackboard lighting or HVAC control
- 1 min – 150 min (Light zones)
- 10 – 30 % / OFF / 5 min – 60 min / =
- 10 – 2000 Lux
- Relay (dry NO)
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED
- 5 s – 120 min (HVAC)
  Mixed light measuring

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Occupancy detectors DALI Compact

**Product and accessory**

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<thead>
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<th>Description</th>
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**Product Information**

- DALI bus operated slave device
- For extension of the detection area of a master device PD4-M-DAA4G / PD4-M-HCL
- Trigger pulse to master device upon detected movement independent of the ambient light level
- Automatic test mode via master device
- Plug & Play – no parameterisation required
- Easy to mount
- False ceiling or surface mount version available

**Technical Data**

- 22 V DC via DALI Bus
- FC: Ø 98 x 96 mm
- SM: Ø 103 x 76 mm
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards;
- max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- FC: IP20 / Class II
- SM: IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate. UV-resistant
- up to 4 slave devices in combination with one PD4-M-DAA4G
- Pulse interval: 30 sec (in test mode 2 sec during 3 min)
**Occupancy detectors DALI Compact**

**Product and accessory**

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**Product Information**

- Bidirectional occupancy detector with integrated DALI controller for an energy-efficient and biologically effective light control (Human Centric Lighting).
- Very sensitive occupancy detector with the ability to address up to 64 DALI-DT8 Tunable White luminaires approved by B.E.G. and to control them in groups.
- The integrated real time clock regulates automatically the colour temperature and the brightness level in such a way that the human circadian rhythm is supported.
- 3 light zones:
  - A for the main light with segmented HCL control via 3 groups and offset control,
  - B for desk or accentuated illumination via a separate DALI group,
  - C for desk or accentuated illumination via integrated relay.
- Pure Colour: An outdoor colour temperature light sensor, available as an accessory, can be used to measure / transmit the current daylight value.
- Manual switching or dimming via conventional pushbuttons.
- Powerful switching relay for different operating modes, e.g. Cut-off function for DALI ballasts, HVAC, blackboard illumination.
- Quick commissioning and maintenance processes via Smartphone/Tablet App (Android, iOS) - No PC-Tool required.
- Detection area can be extended with up to four Slave devices of type PD4-S-DAA4G.
- Complete range of functions can only be activated using the B.E.G. IR-Adapter or the BLE-IR-Adapter and a compatible Smartphone or Tablet (Android, iOS).
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4.

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- FC: Ø 117 × 100 mm
- SM: Ø 124 × 85 mm
- approx. 0.3 W
- circular 360°
- max. Ø 24 m across; max. Ø 8 m towards;
- max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- FC: IP20 / Class II
- SM: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- DALI Control
  - up to 64 DALI-ballasts, can be grouped into 3 DALI groups plus blackboard lighting or HVAC control
  - 1 min – 150 min (Light zones)
  - 10 – 2500 Lux
- Relay (dry NO)
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED
  - 1x μ-contact, NO contact
  - 5 s – 120 min (HVAC)
DALI LINK multiroom solution

- Starterset – all in one box
- Addressable multi-master Lighting Control System
- Supports DALI and DALI-2 luminaires
- Ideal for retrofitting
- Super flat multisensor
- Simple, intuitive operation
- Free Bluetooth app with 2 functions:
  - Scene control for end customer
  - Commissioning tool for installers
Simple and expandable lighting control

With three components, user-friendly automation in the room is realized – from any smartphone it can be addressed quickly and easily via Bluetooth. The DALI LINK Starter Set contains all the components you need to implement lighting automation for your DALI luminaires:

The super-flat, high-performance PD11 multisensor reliably detects brightness and movement in the room and thus enables intelligent lighting control. The innovative push-button interface is not only used to override the automatic control but also houses a Bluetooth interface. Via this interface, the room system can be controlled via smartphone or tablet. The power supply enables the system to be operated.

The economical and flexible multiroom solution – DALI LINK
Detector overview

**Occupancy detectors for DALI LINK**

<table>
<thead>
<tr>
<th>Occupancy detector</th>
<th>Page</th>
<th>Page_1</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
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**Accessories for DALI LINK**

DALI LINK Bluetooth pushbutton interface
- Parameterisation via B.E.G. BLE-App
- Voltage: 16 VDC DALI-BUS
- Cable length: max. 50 cm
- Follow-up time:
  1 min - 150 min (staircase mode only)
- Can be combined with all 1 to 4-part switch surfaces of common manufacturers

DALI LINK Power supply
- Voltage: 230 V AC
- Dimensions: 165 x 24 x 24 mm
- Short-circuit detection and overheating protection
Control devices

**Product and accessory**

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<tr>
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<td>In-wall mounting set 1 / PD11</td>
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<td>In-wall mounting set 2 / PD11</td>
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</tr>
<tr>
<td>Cover ring PD11 Ø 52 mm</td>
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<tr>
<td>Cover ring PD11 Ø 100 mm</td>
<td>white</td>
<td>92692</td>
</tr>
<tr>
<td>Square design frame PD11-FC</td>
<td>white mat, similar to RAL 9010</td>
<td>92994</td>
</tr>
</tbody>
</table>

**Product Information**

- Particularly flat, addressable DALI multi sensor with a visible height of only 0.85 mm and with integrated DALI application controller.
- Seamless integration in DALI lighting control B.E.G. LUXOMAT®net DALI LINK as modular multimaster option for seamless integration in B.E.G. LUXOMAT®net DALISYS.
- Addressable, group communication.
- Functions amongst others: presence-dependent and daylight-dependent switching and regulation, Guided Light, orientation light PLUS and Soft-Start PLUS.
- Full range of functions can only be activated with other products of the product group B.E.G. LUXOMAT®net DALI LINK.
- Works out-of-the-box for easy installation check.
- Parameterisation of the DALI LINK solution via Bluetooth with a smartphone and the B.E.G. BLE App.
- Spring clips for quick and easy installation in suspended ceilings.
- Includes blinds and clamp ring for installation in lights.
- With accessories for flush-mounting in ceiling and exposed concrete.

**Technical Data**

- 16 V DC via DALI Bus
- Ø 52 × 48 mm
- 2 mA
- 0.1 W
- Vertical 360°
- max. Ø 9 m across; max. Ø 6 m towards; max. Ø 3 m seated
- 64 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Connections and wires: for solid conductors 0.5 – 2.5 mm²
- 1 sec – 120 min
- 5 – 100 % / 1 min – 120 min / ∞
- 10 – 2500 Lux
Control devices

DALI LINK

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
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<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<tr>
<td>SM socle mounting set IP54 PD2N/4N-FM</td>
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</table>

Product Information

- Wide motion detection range DALI multisensor
- Seamless integration in DALI lighting control B.E.G. LUXOMAT®net DALI LINK as modular multimaster option
- Seamless integration in B.E.G. LUXOMAT®net DALISYS
- Multimaster-capable with slave function
- Mixed light measurement with internal and external light sensor
- Semi-automatic, full-automatic or twilight switch mode
- Integrated daylight harvesting circuit (or switch output)
- Guided Light, Soft-Start PLUS, Orientation light PLUS
- Works out-of-the-box for easy installation check
- Full range of functions can only be activated with other products of the product group B.E.G. LUXOMAT®net DALI LINK

Technical Data

- 10 – 22 V DC via DALI Bus
- Ø 106 x 68 mm
- Settings: Smartphone with DALI LINK App (iOS / Android)
- 7 mA
- Vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- IP20 / Class II
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- 1 sec – 120 min
- 5 – 100 % / 1 min – 120 min / ∞
- 10 – 2500 Lux
- Mixed light measuring
Control devices

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
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Product Information

- Mini DALI multisensor with only 11mm installation depth for installation in luminaires
- Powered via DALI bus
- Seamless integration in DALI lighting control B.E.G. LUXOMAT®net DALI LINK as modular multimaster option for
- Seamless integration in B.E.G. LUXOMAT®net DALISYS
- Multimaster-capable with slave function
- Semi-automatic, full-automatic or twilight switch mode
- Integrated daylight harvesting circuit (or switch output)
- Guided Light, Soft-Start PLUS, Orientation light PLUS
- Works out-of-the box for easy installation check
- Full range of functions can only be activated with other products of the product group B.E.G. LUXOMAT®net DALI LINK

Technical Data

- 10 – 22 V DC via DALI Bus
- Ø 33 × 27 mm
- 2 mA
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP20 / Class II
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- 5 – 2500 Lux
Product and accessory

<table>
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Product Information

- DALI pushbutton module with 4 binary inputs and integrated Bluetooth gateway for hidden mounting behind flush mount switches.
- Parameterisation of the DALI LINK solution via Bluetooth with a smartphone and the B.E.G. BLE App.
- 4 inputs for conventional push buttons, freely configurable
- Seemless integration in DALI lighting control B.E.G. LUXOMAT®net DALI LINK as modular multimaster option for
- Operating modes: Standard, staircase or scene mode
- Integrated buzzer to determine location of installed device
- Full range of functions can only be activated with other products of the product group B.E.G. LUXOMAT®net DALI LINK

Technical Data

- 16 V DC via DALI Bus
- 38 × 38 × 14 mm
- 7 mA
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate
- max. 50 cm
- 1 min – 150 min (staircase mode only)
BMS multisensors for all your detection needs

Multifunctional light management

The BMS multisensors offer the advantage over standard 24V multisensors that the 2-core DALI bus, which often exists already for the lighting, can be used.

The new DALI-2 standard offers the possibility to send sensor information such as movement, occupancy and light values without cyclical query in multi-master mode.

This information is standardised so that B.E.G.’s BMS multisensors can be used with all multimaster capable application controllers which support multisensors according to IEC 62386 parts 101, 103, 303 and 304.

Equipped with modern digital passive infrared sensors, the multisensors offer an excellent detection quality for movement and occupancy. The various multisensors, e.g. the small mini sensor “PICO” with an installation depth of only 11 mm, the super-flat PD11, or the high-bay detector PD4-BMS-GH a suitable detector for almost every application is available.

Light measurement with B.E.G.’s external light sensor is very reliant, and with the PD4-BMS-GH a constant light regulation is possible up to a mounting height of 16 m.
## Detector overview

### Occupancy detectors for BMS

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<th>Page 99337</th>
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<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
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<tr>
<td>PD2N-BMS</td>
<td>99</td>
<td>–</td>
<td>99329</td>
<td>99337</td>
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<tr>
<td>PD4N-BMS</td>
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<td>99332</td>
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<td>PD4-BMS-C</td>
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<td>Ø 40 m</td>
<td>corridor detectors</td>
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<td>PD4-BMS-GH</td>
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<td>93025</td>
<td>–</td>
<td>–</td>
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<td>•</td>
<td>Ø 30 m</td>
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<td>PICO-BMS</td>
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<td>–</td>
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## Product and accessory

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<td>PD2N-BMS-FM</td>
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<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<td>SM socle mounting set IP54 PD2N/4N-FM</td>
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</table>

## Product Information

- Wide motion detection range DALI multisensor
- Powered via DALI bus
- DALI multimaster technology according to IEC 62386 part 103
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Instance 1 provides LUX values for the DALI-Bus according to IEC 62386 part 304
- Parameterisation is possible via mandatory Multimaster-Application-Controller of any manufacturer. This controller must support IEC 62386 parts 101/103/303/304.
- Mixed light measurement with internal and external light sensor

## Technical Data

- 9.5 – 22.5 V DC (typical 16V) via DALI Bus
- FC: Ø 83 × 55 mm
- FM: Ø 106 × 42 mm
- Settings: via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304
- 6 mA
- Vertical 360°
- Max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- FC: IP20 / Class II
- FM: IP20 / Class II
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- 5 – 1000 Lux
**MultiSensor PD4N-BMS**

### Product and accessory

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<td>SM socle mounting set IP54 PD2N/4N-FM</td>
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### Technical Data

- 9.5 – 22.5 V DC (typical 16V) via DALI Bus
- Ø 106 × 68 mm
- Settings: via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304
- 7 mA
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- IP20 / Class II
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- 10 – 2500 Lux

### Product Information

- Wide motion detection range DALI multisensor
- Powered via DALI bus
- DALI multimaster technology according to IEC 62386 part 103
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Instance 1 provides LUX values for the DALI-Bus according to IEC 62386 part 304
- Parameterisation is possible via mandatory Multimaster-Application-Controller of any manufacturer. This controller must support IEC 62386 parts 101/103/303/304.
- Mixed light measurement with internal and external light sensor
Multisensor PD4-BMS-C

Product and accessory

<table>
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<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<tr>
<td>Wall holder PD4-SM</td>
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Product Information

- Wide motion detection range DALI multisensor with a special lens for corridor applications
- False ceiling or surface mount version available
- Powered via DALI bus
- DALI multimaster technology according to IEC 62386 part 103
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Instance 1 provides LUX values for the DALI-Bus according to IEC 62386 part 304
- Parameterisation is possible via mandatory Multimaster-Application-Controller of any manufacturer. This controller must support IEC 62386 parts 101/103/303/304.
- There are markings for adjusting the detector

Technical Data

- 9.5 – 22.5 V DC (typical 16V) via DALI Bus
- FC: Ø 96 x 96 mm
- SM: Ø 103 x 76 mm
- Settings: via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304
- 7 mA
- vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m² / 2.5 m mounting height
- 2.4 m / 2.6 m / 2.5 m
- FC: IP20 / Class II
- SM: IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 5 – 1000 Lux
**Multisensor PD4-BMS-GH**

### Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>PD4-BMS-GH-SM</td>
<td>white</td>
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### Product Information
- DALI multisensor for surface mounting in large mounting heights
- External telescopic light sensor for a mounting height between 5 and 16m (mechanically adjustable) for measuring the light according to the application.
- Designed as multimaster device
- Powered via DALI bus
- Bright LED indication for commissioning
- Addressable according to IEC 62386 Part 103 (control device)
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Instance 1 provides LUX values for the DALI-Bus according to IEC 62386 part 304
- Parameterisation is possible via mandatory Multimaster-Application-Controller of any manufacturer. This controller must support IEC 62386 parts 101/103/303/304.
- There are markings for adjusting the detector
- When used in high-bay warehouses, care should be taken that, in the cross-aisles of the warehouse, detectors are installed that can detect movement only in the desired aisle locations, by using blinds or other technical arrangements.

### Technical Data
- 9.5 – 22.5 V DC (typical 16V) via DALI Bus
- Ø 101 x 76 mm
- Settings: via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304
- 7 mA
- vertical 360°
- 30 m x 19 m
- 450 m² / 14 m mounting height
- 5 m / 16 m / 14 m
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 10 – 2500 Lux
Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
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Product Information

- Mini DALI multisensor with only 11mm installation depth for installation in luminaires
- Powered via DALI bus
- DALI multimaster technology according to IEC 62386 part 103
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Parameterisation is possible via mandatory Multimaster-Application-Controller of any manufacturer. This controller must support IEC 62386 parts 101/103/303/304.
- Instance 1 provides LUX values for the DALI-Bus according to IEC 62386 part 304

Technical Data

- 9.5 – 22.5 V DC (typical 16V) via DALI Bus
- Ø 33 × 27 mm
- Settings: via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304
- 2 mA
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP20 / Class II
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- 5 – 1000 Lux
Product and accessory

<table>
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<tr>
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<tr>
<td>In-wall mounting set 2 / PD11</td>
<td>white</td>
<td>92833</td>
</tr>
<tr>
<td>Cover ring PD11 Ø 52 mm</td>
<td>black</td>
<td>92537</td>
</tr>
<tr>
<td>Cover ring PD11 Ø 100 mm</td>
<td>white</td>
<td>92692</td>
</tr>
<tr>
<td>Square design frame PD11-FC</td>
<td>white mat, similar to RAL 9010</td>
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</tbody>
</table>

Product Information

- Low profile DALI multisensor (visible height: 0.85 mm)
- Powered via DALI bus
- DALI multimaster technology according to IEC 62386 part 103
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Instance 1 provides LUX values for the DALI-Bus according to IEC 62386 part 304
- Parameterisation is possible via mandatory Multimaster-Application-Controller of any manufacturer. This controller must support IEC 62386 parts 101/103/303/304.
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- With accessories for flush-mounting in ceiling and exposed concrete

Technical Data

- 9.5 – 22.5 V DC (typical 16V) via DALI Bus
- Ø 52 x 48 mm
- Settings: via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304
- 4 mA
- vertical 360°
- max. Ø 9 m across; max. Ø 6 m towards; max. Ø 3 m seated
- 64 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 5 – 1000 Lux
Multisensor

<table>
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<tr>
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<tr>
<td>Indoor 180-BMS covering not included</td>
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<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
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<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
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<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
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</table>

**Product Information**

- DALI multisensor designed for in-wall mounting
- Powered via DALI bus
- DALI multimaster technology according to IEC 62386 part 103
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Instance 1 provides LUX values for the DALI-Bus according to IEC 62386 part 304
- Parameterisation is possible via mandatory Multimaster-Application-Controller of any manufacturer. This controller must support IEC 62386 parts 101/103/303/304.
- Measuring of mixed light thanks to internal light sensor
- Detection area can be restricted with blinds
- For use with covering (interior cover dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available
- Please order cover frame separately, available in various colours

**Technical Data**

- 9.5 – 22.5 V DC (typical 16V) via DALI Bus
- 70 x 70 x 61 mm
- Settings: via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304
- 3 mA
- approx. 0.5 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 1.1 m
- IP20 / Class II
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- 10 – 2500 Lux
- Mixed light measuring
Networkable, modular multimaster design
Combines management of normal lighting and emergency lighting, control of blinds and HVAC functions on one platform
Decentralised control with distributed Intelligence, to provide a high level of operational reliability

- B.E.G. multisensors have no power supply, and are master and slave in one unit
- Wide range of multisensors (also for outdoor applications)
- Planning, commissioning and maintenance by B.E.G.

Further information can be found in our DALI catalogue.
Cost reduction by using slave detectors

Slave detectors – great potential for energy savings

The detection range of a master occupancy detector can be extended cost-efficiently with slave detectors.

Slave detectors do not measure light, but send a switching pulse to the master device when movement is detected.

With a master-slave combination, the master device as the light controller is always placed at the darkest point of the room.

The B.E.G. LUXOMAT® slave detectors were developed to meet different requirements. The PD2 for standard applications, the PD4 for long ranges and many more. B.E.G. offers the right detector for every requirement and will be happy to assist you in your selection.
## Detector overview

### Cost-effective extension of detection area with slave devices

<table>
<thead>
<tr>
<th>Occupancy detector</th>
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<th>92152</th>
<th>92166</th>
<th>92156</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
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<tr>
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<td>109</td>
<td></td>
<td></td>
<td></td>
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<td>–</td>
<td>Ø 10 m</td>
<td></td>
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<tr>
<td>PD4-S</td>
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<td>–</td>
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<td>–</td>
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</tr>
<tr>
<td>PD4-S-C</td>
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<td>92444</td>
<td>92445</td>
<td>–</td>
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<td>max. Ø 40 m</td>
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<tr>
<td>PD4-S-GH</td>
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<td>92265</td>
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<tr>
<td>PD4-S-DAA4G</td>
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<td>92759</td>
<td>92721</td>
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<tr>
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<td>92905</td>
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<td>Ø 10 m</td>
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</tr>
<tr>
<td>PD9-S-GH</td>
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<td>92928</td>
<td>–</td>
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<td>Ø 6 m</td>
<td>large mounting height</td>
</tr>
<tr>
<td>PD9-S-SDB</td>
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<td>PD11-S</td>
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<td>Ø 9 m</td>
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<tr>
<td>Indoor 180-S</td>
<td>161</td>
<td>–</td>
<td>92135</td>
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<td>max. r = 10 m</td>
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</table>


Slave devices

Ceiling mounted occupancy detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD2-S-SM white</td>
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<td>92152</td>
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<tr>
<td>PD2-S-FM white</td>
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<td>92156</td>
</tr>
<tr>
<td>PD2-S-FC white</td>
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<td>92166</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm) white</td>
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<td>92199</td>
</tr>
<tr>
<td>SM socket IPS4 PD2/PD4-SM</td>
<td></td>
<td>92161</td>
</tr>
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</table>

**Product Information**

- Slave device detector with circular detection area
- For extending the detection area of a Master device
- Trigger pulse to master device upon detected movement independent of the ambient light level
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 98 × 50 mm
- FM= Ø 98 × 65 mm
- FC= Ø 80 × 85 mm
- approx. 0.2 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- SM= IP20 / Class II
- FM= IP20 / Class II
- FC= IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Pulse interval: 2 or 9 sec
Ceiling mounted occupancy detectors

## Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD4-S-SM</td>
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<td>92142</td>
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<tr>
<td>PD4-S-FM</td>
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<td>92163</td>
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<tr>
<td>PD4-S-FC</td>
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<td>92254</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<tr>
<td>Surface mounting socket (IP65)</td>
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<td>92376</td>
</tr>
</tbody>
</table>

### Product Information

- Slave device detector with extended detection area
- For extending the detection area of a Master device
- Trigger pulse to master device upon detected movement independent of the ambient light level
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.

### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM: Ø 101 × 76 mm
- FM: Ø 97 × 84 mm
- FC: Ø 97 × 103 mm
- approx. 0.2 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- SM: IP54 / Class II
- FM: IP20 / Class II
- FC: IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Pulse interval: 2 or 9 sec
Ceiling mounted occupancy detectors

Slave devices

PD4-S-C

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD4-S-C-SM</td>
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<td>PD4-S-C-FC</td>
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<td>PD4-S-C-FM</td>
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<td>92445</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<td>92199</td>
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<tr>
<td>Wall holder PD4-SM</td>
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<td>92441</td>
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<td>Surface mounting socket (IP65) PD4-SM IPS4</td>
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</table>

Product Information

- Slave device detector designed for corridors
- For extending the detection area of a Master device
- Trigger pulse to master device upon detected movement independent of the ambient light level
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.
- There are markings for adjusting the detector

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 101 × 76 mm
- FC= Ø 97 × 103 mm
- FM= Ø 97 × 84 mm
- approx. 0.2 W
- Vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m² / 2.5 m mounting height
- 2.4 m / 2.6 m / 2.5 m
- SM= IP54 / Class II
- FC= IP20 / Class II
- FM= IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Pulse interval: 2 or 9 sec
Slave devices

Ceiling mounted occupancy detectors

### Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD4-S-GH-SM</td>
<td>white</td>
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</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>Surface mounting socket (IP65) PD4-SM IP54</td>
<td>white</td>
<td>92376</td>
</tr>
</tbody>
</table>

### Product Information

- Slave device for high-bay applications
- For extending the detection area of a Master device
- Trigger pulse to master device upon detected movement independent of the ambient light level
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.
- There are markings for adjusting the detector
- When used in high-bay warehouses, care should be taken that, in the cross-aisles of the warehouse, detectors are installed that can detect movement only in the desired aisle locations, by using blinds or other technical arrangements.

### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 101 × 76 mm
- approx. 0.2 W
- vertical 360°
- 30 m × 19 m
- 450 m² / 14 m mounting height
- 5 m / 16 m / 14 m
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Pulse interval: 2 or 9 sec
Ceiling mounted occupancy detectors

Slave devices

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
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<tbody>
<tr>
<td>PD9-S-FC</td>
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<td>Cover IP65 PD9-Sensor head</td>
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</tr>
<tr>
<td>Square design frame PD9-FC</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92993</td>
</tr>
</tbody>
</table>

**Product Information**

- Mini slave device for extending the detection area of a master device
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø)
- Trigger pulse to master device upon detected movement independent of the ambient light level
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 28 mm, Power supply: 165 × 24 × 24 mm, approx. 0.2 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm
- Pulse interval: 9 sec
### Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
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<tbody>
<tr>
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<td>Square design frame PD9-FC</td>
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<td>92993</td>
</tr>
</tbody>
</table>

### Product Information

- Mini slave device especially for large mounting heights, for extending the detection area of a master device.
- Trigger pulse to master device upon detected movement independent of the ambient light level.
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.
- Power supply passes through the hole in the ceiling for the detector (34 mm Ø).
- Spring clips for quick and easy installation in suspended ceilings and light fittings.
- Includes 45 mm cover ring and blind.

### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Sensor head: Ø 45 × 41 mm.
- Power supply: 165 × 24 × 24 mm
- approx. 0.3 W
- vertical 360°
- max. Ø 3.5 m across
- 10 m² / 6 m mounting height
- 5 m / 10 m / 6 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm
- Pulse interval: 9 sec
Slave devices

Ceiling mounted occupancy detectors

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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<tr>
<td>PD9-S-SDB-FC</td>
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<tr>
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<td>Square design frame PD9-FC</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92993</td>
</tr>
</tbody>
</table>

Product Information

- Slave device sensor especially for moisture-proof applications, suitable to miniature occupancy detector PD9-M-1C-SDB-IP65-FC
- For extending the detection area of a Master device

Technical Data

- Ø 36 × 28 mm
- max. Ø 10 m across; max. Ø 6 m towards;
- max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP65 / Class III
- 350 cm
### Product Information
- Slave device sensor especially for moisture-proof applications, suitable to miniature occupancy detector for high-bay applications PD9-M-1C-SDB-IP65-GH-FC
- For extending the detection area of a Master device

### Technical Data
- Ø 36 × 40 mm
- max. Ø 3.5 m across
- 10 m² / 6 m mounting height
- 5 m / 10 m / 6 m
- IP65 / Class III
- 350 cm
# Slave devices

## Ceiling mounted occupancy detectors

### Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
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</table>

### Product Information

- Mini Slave device without additional power unit for connection to master device
- Suitable for high-humidity locations
- Trigger pulse to master device upon detected movement independent of the ambient light level
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.
- Mounting with clip ring (included) for lights or with spring clips for suspended ceilings

### Technical Data

- **110 – 240 V AC 50 / 60 Hz**
- **Ø 33 × 60 mm**
- **approx. 0.3 W**
- **vertical 360°**
- **max. Ø 10 m across, max. Ø 6 m towards; max. Ø 4 m seated**
- **79 m² / 2.5 m mounting height**
- **2 m / 3 m / 2.5 m**
- **IP65 / Class II**
- **-25 °C to +50 °C**
- **Polycarbonate, UV-resistant**
- **130 cm**
- **Pulse interval: 9 sec**
Ceiling mounted occupancy detectors

### Product and accessory

<table>
<thead>
<tr>
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<th>Colour</th>
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</tr>
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<tbody>
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<td>In-wall mounting set 1 / PD11</td>
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<td>In-wall mounting set 2 / PD11</td>
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<td>92833</td>
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<td>Cover ring PD11 Ø 52 mm</td>
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<td>Cover ring PD11 Ø 100 mm</td>
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</table>

### Product Information

- Super flat slave device for connection to a master device
- For extending the detection area of a Master device
- Trigger pulse to master device upon detected movement independent of the ambient light level
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- With accessories for flush-mounting in ceiling and exposed concrete

### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 52 × 60 mm
- approx. 0.2 W
- vertical 360°
- max. Ø 9 m across; max. Ø 6 m towards; max. Ø 3 m seated
- max. 64 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Pulse interval: 9 sec
An intelligent building is created using sensors from B.E.G.

Building automation is becoming ever more popular, as it enables greater energy efficiency and can also offer improved convenience to the people in the building through automated control of connected loads.

For example, blinds can be adjusted automatically according to the angle of the sun, in winter the building can be comfortably warm on first arriving, and not only can lighting be regulated, but lighting scenes can be programmed, so that the right lighting is always provided in different locations within a single building.

B.E.G. offers occupancy detectors for various bus systems and applications, e.g. KNX, LON or proprietary systems.
### Detector overview

#### KNX occupancy detector

<table>
<thead>
<tr>
<th>Occupancy detector</th>
<th>Page</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD2N-KNX-BA</td>
<td>121</td>
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<tr>
<td>PD11-KNX-FLAT-BA</td>
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<tr>
<td>Indoor 180-KNX-BA</td>
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<td>max. r = 10 m</td>
<td>wall mounting</td>
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<td>PD11-KNX-FLAT-ST</td>
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<tr>
<td>Indoor 180-KNX-ST</td>
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<tr>
<td>RC-plus next N</td>
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<td>93394 – white</td>
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<tr>
<td>230 KNX-DX</td>
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<td>93360 – 93395 – black</td>
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<tr>
<td>PD2N-KNX-DX</td>
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<td>PD4-KNX-GH-DX</td>
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<td>PD9-KNX-GH-DX</td>
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<td>Ø 3,5 m</td>
<td>large mounting height</td>
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<td>PICO-KNX-DX</td>
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<td>Ø 10 m</td>
<td>mini detector</td>
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<tr>
<td>PD11-KNX-FLAT-DX</td>
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<td>Indoor 140-L-KNX-DX</td>
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<tr>
<td>Indoor 180-KNX-DX</td>
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</tbody>
</table>

#### LON occupancy detector

<table>
<thead>
<tr>
<th>Occupancy detector</th>
<th>Page</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD2N-LON</td>
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</tr>
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<td>PD4N-LON</td>
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<td>92329</td>
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</table>

#### LTMS multisensors

<table>
<thead>
<tr>
<th>Occupancy detector</th>
<th>Page</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD2N-LTMS</td>
<td>143</td>
<td></td>
<td></td>
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<td>Ø 10 m</td>
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<tr>
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<td>Ø 9 m</td>
<td>super flat</td>
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KNX Basic occupancy detectors

Product and accessory

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Product Information

- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- Full automatic mode
- 1x light [for switching], 1 separate HVAC bloc
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Behaviour upon bus voltage return definable at choice
- Settings ex ETS 4 for integration in KNX systems
- The product database for import into the ETS database can be downloaded from the B.E.G. homepage.
- Spring-clamps
- Blinds

Technical Data

- via KNX BUS
- | via KNX BUS |
- | FC: Ø 83 × 55 mm |
- | FM: Ø 106 × 42 mm |
- 12 mA
- vertical 360°
  - max. Ø 10 m across; max. Ø 6 m towards
  - max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- FC: IP20 / Class III
- FM: IP20 / Class III
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 1
- 5 – 2000 Lux
KNX Basic occupancy detectors  

**KNX**

### Product and accessory

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<td>92692</td>
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<tr>
<td>Cover ring PD11 Ø 52 mm</td>
<td>black</td>
<td>92537</td>
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<tr>
<td>In-wall mounting set 1 / PD11</td>
<td>white</td>
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</tr>
<tr>
<td>In-wall mounting set 2 / PD11</td>
<td>white</td>
<td>92833</td>
</tr>
<tr>
<td>Square design frame PD11 FC</td>
<td>white mat, similar to RAL 9010</td>
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### Product Information

- Low profile KNX occupancy detector with integrated KNX bus connector
- Full automatic mode
- 1x light (for switching), 1 separate HVAC bloc
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Behaviour upon bus voltage return definable at choice
- Settings ex ETS 4 for integration in KNX systems
- The product database for import into the ETS database can be downloaded from the B.E.G. homepage.
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- With accessories for flush-mounting in ceiling and exposed concrete

### Technical Data

- via KNX BUS
- Ø 52 × 48 mm
- 12 mA
- vertical 360°
- max. Ø 9 m across; max. Ø 6 m towards; max. Ø 3 m seated
- 64 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP54 / Class III
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- 5 – 2000 Lux
### Product and accessory

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<tr>
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<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL</td>
<td>38947</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white matt, similar to</td>
<td>39076</td>
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### Product Information
- KNX occupancy detector with integrated KNX bus coupler, especially for installation in walls
- Full automatic mode
- 1x light (for switching), 1 separate HVAC bloc
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Behaviour upon bus voltage return definable at choice
- Variable safety pause after switching off the lights
- Settings ex ETS 4 for integration in KNX systems
- The product database for import into the ETS database can be downloaded from the B.E.G. homepage.
- For use with covering (interior cover dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available
- Please order cover frame separately, available in various colours

### Technical Data
- via KNX BUS (covering not included) 70 x 70 x 61 mm
- 12 mA
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 1.1 m
- IP20 / Class III
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 1
- 5 – 2000 Lux
### KNX Standard occupancy detectors

#### PD2N-KNX-ST

#### Product and accessory

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<td>BLE-IR-Adapter</td>
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<td>IR-Adapter for Smartphones</td>
<td>black</td>
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</tr>
<tr>
<td>IR-PD-KNX</td>
<td>-</td>
<td>92123</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
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</tr>
<tr>
<td>SM socle mounting set IP54 PD2N/4N-FM</td>
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</table>

#### Product Information

- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Individual adaption of the PIR sensor sensitivity
- Mixed light measurement with internal and external light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Spring-clamps
- Blinds
- Further product information see product page on www.beg-luxomat.com

#### Technical Data

- via KNX BUS
- FC= Ø 83 x 55 mm
- FM= Ø 106 x 42 mm
- 12 mA
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
  max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m

#### KNX Tec

- Polycarbonate, UV-resistant
- Number of light sensors: 2
- Number of PIR sensors: 1
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
**KNX Standard occupancy detectors**

**PD4N-KNX-ST**

### Product and accessory

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<td>IR-PD-KNX</td>
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<td>92123</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
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<td>SM socle mounting set IP54 PD2N/4N-FM</td>
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</table>

### Product Information

- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Individual adaption of detection sensitivity for each PIR sensor
- Direction of movement can be identified
- Mixed light measurement with internal and external light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Spring-clamps
- Blinds
- Further product information see product page on www.beg-luxomat.com

### Technical Data

- via KNX BUS
  - FC= Ø 106 × 74 mm
  - FM= Ø 106 × 55 mm
- 12 mA
- vertical 360°
  - max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- FC= IP20 / Class III
- FM= IP20 / Class III
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 2
- Number of PIR sensors: 4
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
KNX Standard occupancy detectors

**Product and accessory**

<table>
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<td>IR-PD-KNX</td>
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<td>92123</td>
</tr>
<tr>
<td>Square design frame PD11 FC</td>
<td>white mat, similar to RAL 9010</td>
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<tr>
<td>In-wall mounting set 2 / PD11</td>
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</tr>
<tr>
<td>In-wall mounting set 1 / PD11</td>
<td>white</td>
<td>92832</td>
</tr>
<tr>
<td>Cover ring PD11 Ø 100 mm</td>
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</tr>
<tr>
<td>Cover ring PD11 Ø 52 mm</td>
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</table>

**Product Information**

- Low profile KNX occupancy detector with integrated KNX bus connector
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- With accessories for flush-mounting in ceiling and exposed concrete
- Further product information see product page on www.beg-luxomat.com

**Technical Data**

- via KNX BUS
- Ø 52 × 48 mm
- 12 mA
- vertical 360°
- max. Ø 9 m across; max. Ø 6 m towards; max. Ø 3 m seated
- 64 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP54 / Class III
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
KNX Standard occupancy detectors

Product and accessory

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<tr>
<td>Surface mounting socket Indoor 180 pure white</td>
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<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
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<tr>
<td>Central plate Indoor 180 oyster white matt, similar to RAL 1013</td>
<td>oyster white matt, similar to RAL 1013</td>
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Product Information

- KNX occupancy detector with integrated KNX bus coupler, especially for installation in walls
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- For use with covering (interior cover dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available
- Please order cover frame separately, available in various colours
- Further product information see product page on www.beg-luxomat.com

Technical Data

- via KNX BUS
- (covering not included) 70 × 70 × 61 mm
- 12 mA
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 1.1 m
- IP20 / Class III
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 1
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
KNX Deluxe occupancy detectors

**KNX**

### Product and accessory

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<tr>
<td>IR-PD-KNX</td>
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<td>92123</td>
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<tr>
<td>IR-PD-KNX-Mini</td>
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<td>93398</td>
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<td>Wire basket BSK (Ø 164 x 143 mm)</td>
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<td>Inside corner socket RC-plus next</td>
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### Product Information

- KNX occupancy detector with integrated KNX bus connector
- 1x light output (for regulating or switching), 1x slave output, 3x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of detection sensitivity for each PIR sensor
- Direction of movement can be identified
- Anti-creep zone
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature sensor
- Integrated downlight with orientation or a night light (RGB) function
- Blinds
- Wall, ceiling and corner mounting
- Further product information see product page on www.beg-luxomat.com

### Technical Data

- via KNX BUS
- 12 mA
- horizontal 230°
- max. 20 m across; max. 6 m towards; max. 4 m anti-creep protection
- 400 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP54 / Class III
- Temperature measurement range: -20 °C to +45 °C
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 3
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
### Product and accessory

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<td>IR-Adapter for Smartphones</td>
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<td>92726</td>
</tr>
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<td>IR-PD-KNX</td>
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<td>IR-PD-KNX-Mini</td>
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<tr>
<td>Wire basket Ø5K (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>SM socle mounting set IP54 PD2N/4N-FM</td>
<td>white</td>
<td>93307</td>
</tr>
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</table>

### Product Information
- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of the PIR sensor sensitivity
- Mixed light measurement with internal and external light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature- and noise sensor
- Spring-clamps
- Blinds
- Further product information see product page on www.beg-luxomat.com

### Technical Data
- **via KNX BUS**
  - FC= Ø 83 × 55 mm
  - FM= Ø 106 × 42 mm
  - 12 mA
  - vertical 360°
  - max. Ø 10 m across; max. Ø 6 m towards;
  - max. Ø 4 m seated
  - 79 m² / 2.5 m mounting height
  - 2 m / 5 m / 2.5 m
  - FC= IP20 / Class III
  - FM= IP20 / Class III
  - Temperature measurement range: -5 °C to +45 °C
  - -25 °C to +55 °C
  - Polycarbonate, UV-resistant
  - Number of light sensors: 2
  - Number of PIR sensors: 1
  - 5 – 100 % / OFF / 1 min – 255 min
  - 5 – 100 %
  - 5 – 2000 Lux
KNX Deluxe occupancy detectors

Product and accessory

<table>
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<td>IR-PD-KNX-Mini</td>
<td>-</td>
<td>93398</td>
</tr>
<tr>
<td>Wire basket B5K (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
<tr>
<td>SM socle mounting set IP54 PD2N/4N-FM</td>
<td>white</td>
<td>93307</td>
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Product Information

- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of detection sensitivity for each PIR sensor
- Direction of movement can be identified
- Mixed light measurement with internal and external light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature- and noise sensor
- Spring-clamps
- Blinds
- Further product information see product page on www.beg-luxomat.com

Technical Data

- via KNX BUS
- FC= Ø 106 x 68 mm
- FM= Ø 106 x 55 mm
- 12 mA
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards;
  max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- FC= IP20 / Class III
- FM= IP20 / Class III
- Temperature measurement range: -5 °C to +45 °C
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 2
- Number of PIR sensors: 4
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
KNX Deluxe occupancy detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
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<td>IR-Adapter for Smartphones</td>
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<tr>
<td>IR-PD-KNX</td>
<td>-</td>
<td>92123</td>
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<tr>
<td>IR-PD-KNX-Mini</td>
<td>-</td>
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</tr>
<tr>
<td>Wire basket Ø50 (Ø 200 x 90 mm)</td>
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<td>SM socle mounting set IP54 PD2N/4N-FM</td>
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<td>93307</td>
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**Product Information**

- KNX occupancy detector designed for corridors, with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of detection sensitivity for each PIR sensor
- Direction of movement can be identified
- Mixed light measurement with internal and external light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature- and noise sensor
- There are markings for adjusting the detector
- Spring-clamps
- Blinds
- Further product information see product page on www.beg-luxomat.com

**Technical Data**

- via KNX BUS
- FC= Ø 106 × 68 mm
- FM= Ø 106 × 55 mm
- 12 mA
- vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m² / 2.5 m mounting height
- 2.4 m / 2.6 m / 2.5 m
- FC= IP20 / Class III
- FM= IP20 / Class III
- Temperature measurement range: -5 °C to +45 °C
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 2
- Number of PIR sensors: 4
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
# KNX Deluxe occupancy detectors

## KNX

### Product and accessory

<table>
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<tr>
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<tr>
<td>IR-PD-KNX-Mini</td>
<td>-</td>
<td>93398</td>
</tr>
</tbody>
</table>

### Product Information

- KNX occupancy detector designed for high-bay warehouses, with integrated KNX bus connector.
- External telescopic light sensor for a mounting height between 5 and 16m (mechanically adjustable) for measuring the light according to the application.
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable).
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode.
- Two logic modules.
- Individual adaption of detection sensitivity for each PIR sensor.
- Direction of movement can be identified.
- Mixed light measurement with internal and external light sensor.
- Various locking functions.
- Status LEDs can be activated / deactivated.
- Programming button (phys. address) can be operated via remote control.
- Regulation/switching of three light groups via offset (external influence possible).
- Short presence, self-adjusting follow-up time, corridor function.
- Recall of light scenes.
- Temperature sensor.
- Blinds.
- There are markings for adjusting the detector.
- When used in high-bay warehouses, care should be taken that, in the cross-aisles of the warehouse, detectors are installed that can detect movement only in the desired aisle locations, by using blinds or other technical arrangements.
- Further product information see product page on www.beg-luxomat.com

### Technical Data

- via KNX BUS
- Ø 101 × 76 mm
- 12 mA
- vertical 360°
- 30 m × 19 m
- 450 m² / 14 m mounting height
- 5 m / 16 m / 14 m
- IP54 / Class III
- Temperature measurement range: -5 °C to +45 °C
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 3
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
**Product and accessory**

<table>
<thead>
<tr>
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<td>IR-Adapter for Smartphones</td>
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<tr>
<td>IR-PD-KNX</td>
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<td>92123</td>
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<tr>
<td>IR-PD-KNX-Mini</td>
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<tr>
<td>Cover PD9 IP65 PD9-Sensor head</td>
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<td>pure white mat, similar to RAL 9010</td>
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**Product Information**

- KNX mini occupancy detector with integrated bus connector
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature sensor
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- Further product information see product page on www.beg-luxomat.com

**Technical Data**

- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature sensor
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- Further product information see product page on www.beg-luxomat.com

**KNX**

**PD9-KNX-DX**

**Product Information**

- KNX mini occupancy detector with integrated bus connector
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature sensor
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- Further product information see product page on www.beg-luxomat.com

**Technical Data**

- via KNX BUS
- Sensor head: Ø 45 × 28 mm, Power supply: 129 × 29 × 22 mm
- 12 mA vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class III
- Temperature measurement range: -5 °C to +45 °C
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 1
- 45 cm
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
KNX Deluxe occupancy detectors

Product and accessory

<table>
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<td>IR-Adapter for Smartphones</td>
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<tr>
<td>IR-PD-KNX-Mini</td>
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</tr>
<tr>
<td>Square design frame PD9-FC</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92993</td>
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Product Information

- KNX mini occupancy detector with integrated KNX bus connector, especially for large mounting heights
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaptation of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature sensor
- Light regulation feasible up to 5 m mounting height
- Spring clips for quick and easy installation in suspended ceilings
- Clip ring for installation in lights and blind included
- Further product information see product page on www.beg-luxomat.com

Technical Data

- via KNX BUS
  - Sensor head: Ø 45 × 40 mm,
  - Power supply: 129 × 29 × 22 mm
  - 12 mA
  - vertical 360°
  - max. Ø 3.5 m across
  - 10 m² / 6 m mounting height
  - 5 m / 10 m / 6 m
- IP20 / Class III
  - Temperature measurement range: -5 °C to +45 °C
  - -25 °C to +55 °C
  - Polycarbonate, UV-resistant
  - Number of light sensors: 1
  - Number of PIR sensors: 1
  - 45 cm
  - 5 – 100 % / OFF / 1 min – 255 min
  - 5 – 100 %
  - 5 – 2000 Lux
KNX Deluxe occupancy detectors

PICO-KNX-DX

Product and accessory

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<td>IR-PD-KNX</td>
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<tr>
<td>IR-PD-KNX-Mini</td>
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</table>

Product Information

- KNX mini occupancy detector with integrated bus connector
- 1x light output (for regulating or switching), 1x slave output, 3x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature sensor
- Further product information see product page on www.beg-luxomat.com

Technical Data

- via KNX BUS
- Ø 33 × 32 mm
- 12 mA
- vertical 360°
  - max. Ø 10 m across; max. Ø 6 m towards;
  - max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 3 m / 2.5 m
- IP20 / Class III
- Temperature measurement range: -5 °C to +45 °C
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 1
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
KNX Deluxe occupancy detectors

PD11-KNX-FLAT-DX

Product and accessory

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<tr>
<td>IR-PD-KNX</td>
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<tr>
<td>IR-PD-KNX-Mini</td>
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<td>Cover ring PD11 Ø 52 mm</td>
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<td>Square design frame PD11 FC</td>
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<td>In-wall mounting set 1 / PD11</td>
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<td>In-wall mounting set 2 / PD11</td>
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Product Information

- Low profile KNX occupancy detector with integrated KNX bus connector
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature- and noise sensor
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- With accessories for flush-mounting in ceiling and exposed concrete
- Further product information see product page on www.beg-luxomat.com

Technical Data

- via KNX BUS
- Ø 52 x 48 mm
- 12 mA
- vertical 360°
- max. Ø 9 m across; max. Ø 6 m towards; max. Ø 3 m seated
- 64 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP54 / Class III
- Temperature measurement range: -5 °C to +45 °C
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 1
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
KNX Deluxe occupancy detectors

**Product and accessory**

<table>
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<th>Description</th>
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<td>IR-Adapter for Smartphones black</td>
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<td>IR-PD-KNX-Mini</td>
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<tr>
<td>Central plate Indoor 45x45 pure white glossy</td>
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**Product Information**

- KNX occupancy detector with integrated KNX bus coupler, especially for installation in walls
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaptation of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Temperature sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Integrated downlight with the function of an orientation or a night light
- Integrated pushbutton (two functions programmable)
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available
- Please order cover frame separately, available in various colours
- Further product information see product page on www.beg-luxomat.com

**Technical Data**

- via KNX BUS (covering not included) 70 × 70 × 51 mm
- 24 mA
- horizontal 120°
- max. 8 m across; max. 3 m towards
- 67 m² / 1.1 m mounting height
- 1 m / 1.2 m / 1.1 m
- IP20 / Class III
- Temperature measurement range: -5 °C to +45 °C
  - -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 1
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux
KNX Deluxe occupancy detectors

### Product and accessory

<table>
<thead>
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<th>Colour</th>
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<td>IR-Adapter for Smartphones</td>
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</tr>
<tr>
<td>IR-PD-KNX</td>
<td>-</td>
<td>92123</td>
</tr>
<tr>
<td>IR-PD-KNX-Mini</td>
<td>pure white</td>
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<td>Surface mounting socket Indoor 180 pure white</td>
<td>traffic white mat, similar to RAL 9016</td>
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<td>Central plate Indoor 180</td>
<td>oyster white matt, similar to RAL 1013</td>
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### Product Information

- KNX occupancy detector with integrated KNX bus coupler, especially for installation in walls
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photocell switch), full automatic mode
- Two logic modules
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Programming button (phys. address) can be operated via remote control
- Regulation/switching of three light groups via offset (external influence possible)
- Short presence, self-adjusting follow-up time, corridor function
- Recall of light scenes
- Temperature- and noise sensor
- Blinds
- For use with covering (interior cover dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available
- Please order cover frame separately, available in various colours
- Further product information see product page on www.beg-luxomat.com

### Technical Data

- **via KNX BUS**
- (covering not included) 70 x 70 x 61 mm
- 12 mA
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 1.1 m
- IP20 / Class III
- Temperature measurement range: -5 °C to +45 °C
- -25 °C to +55 °C
- Polycarbonate, UV-resistant
- Number of light sensors: 1
- Number of PIR sensors: 1
- 5 – 100 % / OFF / 1 min – 255 min
- 5 – 100 %
- 5 – 2000 Lux

---

**Walking across**

**Walking towards**
Occupancy detectors

Product and accessory

<table>
<thead>
<tr>
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<th>Part number</th>
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<td>PD2N-LON-FC</td>
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<td>IR-Adapter for Smartphones</td>
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<td>92726</td>
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<tr>
<td>IR-PD-LON</td>
<td>-</td>
<td>92835</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
</tbody>
</table>

Product Information

- LON occupancy detector with integrated light sensor for daylight-dependent lighting regulation
- The following variables are made available:
  1 x Lightsensor
  1 x Occupancy sensor
  1 x Occupancy and light controller
  2 x Sunblind switch
  1 x Space comfort controller
  3 x push button function
  1 x Scene panel
- Full-automatic or Semi-automatic operation mode
- Switching or Constant Light control modes
- Easy interface to HVAC systems
- FT5000 LON transceiver
- All configuration properties changeable via network variables
- Remote control (optional)
- Settings with the LON installation tool
- Adjustable on and off delay for orientation light when no people are present

Technical Data

- 24 V AC / DC +/- 20%
- SM: Ø 98 x 50 mm
- FC: Ø 80 x 65 mm
- 12 mA at 24 V DC
- 20 mA at 24 V AC
- < 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- SM: IP20 / Class II
- FC: IP20 / Class II
- -5 °C to +50 °C
- Polycarbonate, UV-resistant
- 0 – 2000 Lux
- Mixed light measuring
**Product and accessory**

<table>
<thead>
<tr>
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<th>Colour</th>
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<td>IR-Adapter for Smartphones</td>
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<td>IR-PD-LON</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
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<tr>
<td>Square design frame PD4-FC</td>
<td>pure white, similar to RAL 9010</td>
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**Product Information**

- LON occupancy detector with integrated light sensor for daylight-dependent lighting regulation
- The following device functions are provided as bus variables:
  - 1 x Light sensor
  - 2 x Occupancy sensor
  - 2 x Occupancy & Light controller
  - 2 x Occupancy controller
  - 2 x Sunblind Switch
  - 1 x SCC Command Module
  - 3 x push button function
  - 1 x Scene Panel
- Full-automatic or Semi-automatic operation mode
- Switching or Constant Light control modes
- Easy interface to HVAC systems
- FT5000 LON transceiver
- All configuration properties changeable via network variables
- Remote control (optional)
- Settings with the LON installation tool
- Adjustable on and off delay for orientation light when no people are present

**Technical Data**

- 24 V AC / DC +/- 20%
- FC= Ø 98 x 63 mm
- SM= Ø 97 x 84 mm
- 12 mA at 24 V DC
- 20 mA at 24 V AC
- < 0.5 W
- vertical 360°
- max. Ø 24 m across; max. Ø 8 m towards; max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- FC= IP20 / Class II
- SM= IP20 / Class II
- -5 °C to +50 °C
- Polycarbonate, UV-resistant
- 0 – 2000 Lux
- Mixed light measuring
Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD9-LON-FC</td>
<td>white</td>
<td>92989</td>
</tr>
<tr>
<td>IR-Adapter for Smartphones</td>
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<td>92726</td>
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<tr>
<td>IR-PD-LON</td>
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<td>92835</td>
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<tr>
<td>Cover PD9 IP6S PD9-Sensor head</td>
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<td>92958</td>
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<tr>
<td>Square design frame PD9-FC</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92993</td>
</tr>
</tbody>
</table>

Product Information

- LDN occupancy detector with integrated light sensor for daylight-dependent lighting regulation
- The following variables are made available:
  - 1 x Lightsensor
  - 1 x Occupancy sensor
  - 1 x Occupancy and light controller
  - 1 x Occupancy controller
  - 2 x Sunblind switch
  - 1 x Space comfort controller
  - 3 x push button function
  - 1 x Scene panel
- Full-automatic or Semi-automatic operation mode
- Switching or Constant Light control modes
- Easy interface to HVAC systems
- FT5000 LON transceiver
- All configuration properties changeable via network variables
- Remote control (optional)
- Settings with the LON installation tool
- Adjustable on and off delay for orientation light when no people are present
- Spring clips for quick and easy installation in suspended ceilings and light fittings
- Includes 45 mm cover ring and blinds

Technical Data

- 24 V AC / DC +/- 20%
- Sensor head: Ø 45 × 28 mm
- Power supply: 120 × 29 × 22 mm
- 12 mA at 24 V DC
- 20 mA at 24 V AC
- < 0.5 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;
  max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- -5 °C to +50 °C
- Polycarbonate, UV-resistant
- 45 cm
- 0 – 2000 Lux
- Mixed light measuring
### Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
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<tr>
<td>Indoor 180-LON covering not included</td>
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<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
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<tr>
<td>Central plate Indoor 180</td>
<td>traffic white matt, similar to RAL 9016</td>
<td>38947</td>
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<tr>
<td>Central plate Indoor 180</td>
<td>oyster white matt, similar to RAL 1013</td>
<td>39076</td>
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</tbody>
</table>

### Product Information

- LON wall occupancy detector with integrated light sensor for daylight-dependent lighting regulation
- The following variables are made available:
  - 1 x Lightsensor
  - 1 x Occupancy sensor
  - 1 x Occupancy and light controller
  - 1 x Occupancy controller
  - 2 x Sunblind switch
  - 1 x Space comfort controller
  - 3 x push button function
  - 1 x Scene panel
- Full-automatic or Semi-automatic operation mode
- Switching or Constant Light control modes
- Easy interface to HVAC systems
- Adjustable on and off delay for orientation light when no people are present
- FT5000 LON transceiver
- All configuration properties changeable via network variables
- Remote control (optional)
- Settings with the LON installation tool
- For use with covering (interior cover dimensions 50 x 50 mm) in 5 different colours
- B.E.G. frames and centre plates for combination with other frame systems available

### Technical Data

- 24 V AC / DC +/- 20%
- 70 x 70 x 61 mm
- 12 mA at 24 V DC
- 20 mA at 24 V AC
- < 0.5 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 1.1 m
- IP20 / Class II
- +5 °C to +50 °C
- 0 – 2000 Lux
- Mixed light measuring
Multisensor

PD2N-LTMS

Proprietary systems

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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<tbody>
<tr>
<td>PD2N-LTMS-FC</td>
<td>white</td>
<td>92113</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
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Product Information

- Multi-sensor for acquisition of data concerning occupancy (presence), temperature, and brightness.
- For integration into proprietary bus system
- Output of current light and temperature values as analogue voltage
- Output of motion detection via switch contact
- Fine adjustment of output values for light measurement and temperature via potentiometer on device

Technical Data

- 16 – 48 V DC
- Ø 80 × 83 mm
- < 1 W
- Vertical 360°
  - max. Ø 10 m across; max. Ø 6 m towards;
  - max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- Measured light output: 0 – 1000 Lux,
  - 0-10 V, ca. 10 mV/ Lux
- Temperature output: 0 °C – 50 °C,
  - 0-10 V, ca. 200 mV/°C
  - 0 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1

- 48 V DC / 3 A: cos ϕ = 1
- μ-contact, dry NO contact
- 15 sec – 30 min, Pulse
  - Mixed light measuring
Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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<tbody>
<tr>
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<td>92119</td>
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<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
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<tr>
<td>IR-LTMS</td>
<td>-</td>
<td>92185</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
</tbody>
</table>

Product Information

- Multi-sensor for acquisition of data concerning occupancy (presence), temperature, and brightness.
- For integration into proprietary bus system
- Output of motion detection via switch contact
- Output of current light and temperature values as analogue voltage
- Fine adjustment of output values for light measurement and temperature via potentiometer on device
- Additional functions can be set up using the optional remote control.

Technical Data

- 16 – 48 V DC
- Ø 80 × 83 mm
- < 1 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 79 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- Measured light output: 0 – 1000 Lux, 0–10 V, ca. 10 mV/Lux
- Temperature output: 0 °C – +50 °C, 0–10 V, ca. 200 mV/°C
- 0 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1
- 48 V DC / 0.1 A; cos φ = 1
- μ-contact, dry NO contact
- 1 sec – 60 min, Pulse
- Mixed light measuring
## Multisensor

### Product and accessory

<table>
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<th>Colour</th>
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</thead>
<tbody>
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<td>92709</td>
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<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
<td>92726</td>
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<tr>
<td>IR-LTMS</td>
<td></td>
<td>92185</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
</tbody>
</table>

### Product Information

- Multi-sensor for acquisition of data concerning occupancy (presence), temperature, and brightness.
- For integration into proprietary bus system
- Output of current light and temperature values as analogue voltage
- Output of motion detection via switch contact
- Fine adjustment of output values for light measurement and temperature via potentiometer on device
- Additional functions can be set up using the optional remote control.

### Technical Data

- 16 – 48 V DC
- Ø 98 × 103 mm
- < 1 W
- Vertical 360°
  - max. Ø 24 m across; max. Ø 8 m towards;
  - max. Ø 6.4 m seated
- 450 m² / 2.5 m mounting height
- 2 m / 10 m / 2.5 m
- IP20 / Class II
- Measured light output: 0 – 1000 Lux, 0-10 V, ca. 10 mV/ Lux
- Temperature output: 0 °C – +50 °C, 0-10 V, ca. 200 mV/°C
- 0 °C to +50 °C
- Polycarbonate, UV-resistant

### Channel 1

- 48 V DC / 0.1 A; cos φ = 1
- μ-contact, dry NO contact
- 1 sec – 60 min, Pulse
- Mixed light measuring
Multisensor

Proprietary systems

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
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<td>IR-Adapter for Smartphones</td>
<td>black</td>
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<tr>
<td>In-wall mounting set 1 / PD11</td>
<td>white</td>
<td>92832</td>
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<tr>
<td>In-wall mounting set 2 / PD11</td>
<td>white</td>
<td>92833</td>
</tr>
<tr>
<td>Cover ring PD11 Ø 52 mm</td>
<td>black</td>
<td>92537</td>
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<tr>
<td>Cover ring PD11 Ø 100 mm</td>
<td>white</td>
<td>92692</td>
</tr>
<tr>
<td>Square design frame PD11 FC</td>
<td>white, similar to RAL 9010</td>
<td>92994</td>
</tr>
</tbody>
</table>

Product Information

- Super flat multi-sensor for acquisition of data concerning occupancy (presence), temperature, and brightness
- For integration into proprietary bus system
- Output of motion detection via switch contact
- Output of current light and temperature values as analogue voltage
- Spring clips for quick and easy installation in suspended ceilings
- Includes blinds and clamp ring for installation in lights
- With accessories for flush-mounting in ceiling and exposed concrete

Technical Data

- 16 – 48 V DC
- Ø 52 × 60 mm
- approx. 0.4 W
- vertical 360°
- max. Ø 9 m across; max. Ø 6 m towards; max. Ø 3 m seated
- 64 m² / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IP20 / Class II
- Measured light output: 0 – 1000 Lux, 0–10 V, ca. 10 mW/Lux
- Temperature output: 0 °C – +50 °C, 0–10 V, approx. 200 mV/°C
- 0 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control, potential-free (dry))
  - 48 V DC / 0.1 A; cos ϕ > 1
  - μ-contact, dry NO contact
  - 5 sec – 60 min
- Mixed light measuring
An automatic light switch that can hear and see

Automatic switching of lighting in passageways makes a significant contribution to safety and comfort is noticeably increased in living areas.

The wall detector series Indoor 180 blends harmoniously and discreetly into the respective room design. The optimal size means that the detectors can be combined with various switch ranges.

In addition to the motion sensor, part of the series is equipped with acoustic sensors. Once activated by movement, each movement and sound restarts the individually adjustable follow-up time of the detector.

The Indoor 140-L wall-mounted occupancy detector also has two powerful LEDs integrated that beam towards the floor. Two individual brightness values can be programmed for these: the night light and the orientation light.

With the brightness meter integrated into the Indoor 140-L, the night light can be activated automatically at dusk. For example, a hotel corridor is always safely illuminated.
Covering

Indoor 140-L – Flush mount, IP20

The Indoor 140-L (UK version) includes the covering. The Indoor 140-L (EU version) can also be ordered as sensor insert without covering.

Sensor covering not included

Sensor covering included

Covering IP20

pure white, glossy similar RAL9010 94342
pure white, mat similar RAL9010 94343
anthracite, mat, similar RAL7021 94341
creme white, mat similar RAL9001 94344

Covering

Indoor 140-L – Flush mount, IP20

Sensor covering not included

Sensor covering included

+ =

combined with other operating systems

Sensor covering not included

Manufacturer’s frame system

B.E.G. central plate

+ =
Indoor 180 – Flush mount, IP20

The Indoor 180 can either be ordered with a pre-mounted covering in B.E.G. design or without covering. For the sensor inserts without covering, we offer coverings for self-mounting in 5 different colours. Please note that the pre-mounted coverings have other inner dimensions than the coverings for self-mounting. Enclosed to the detectors with pre-mounted covering are additional coverings having inner dimensions of 50 x 50mm.

Sensor covering included

Sensor covering not included

traffic white, mat similar RAL9016 92631
pure white, mat similar RAL9010 92630
oyster white, mat similar RAL9011 92632
anthracite, mat similar RAL7021 92634
silver, mat similar RAL9006 92633

Indoor 180 – Flush mount, IP54

Sensor covering not included

Covering IP54 (92139)

Indoor 180

Combined with other operating systems

Sensor covering not included

Manufacturer’s frame system

B.E.G. centre plate
# Detector overview

## Motion and occupancy detectors as wall switches

<table>
<thead>
<tr>
<th>Wall detector</th>
<th>Page</th>
<th>Page</th>
<th>Simple light measurement</th>
<th>Daylight evaluation</th>
<th>Motion detection</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180-R</td>
<td>151</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>max. r = 10 m</td>
<td>relay version with acoustic sensor</td>
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<tr>
<td>Indoor 180-T</td>
<td>152</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>max. r = 10 m</td>
<td>triac version with acoustic sensor</td>
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<tr>
<td>Indoor 180-R-2D</td>
<td>153</td>
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<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>max. r = 10 m</td>
<td>relay version with acoustic sensor</td>
</tr>
<tr>
<td>Indoor 180-TR</td>
<td>154</td>
<td>–</td>
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<td>–</td>
<td>max. r = 10 m</td>
<td>for staircase switches</td>
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<tr>
<td>Indoor 180N-R/2W-UK</td>
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<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>max. r = 10 m</td>
<td>with acoustic sensor</td>
</tr>
<tr>
<td>Indoor 180-R-11-48V-3A</td>
<td>156</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>max. r = 10 m</td>
<td>with acoustic sensor</td>
</tr>
<tr>
<td>Indoor 180-R-11-48V-RR</td>
<td>157</td>
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<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>max. r = 10 m</td>
<td>3A version</td>
</tr>
<tr>
<td>Indoor 140-L</td>
<td>159</td>
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<td>max. r = 8 m</td>
<td>switch function and downlight</td>
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<tr>
<td>Indoor 180-M-2C</td>
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<td>max. r = 10 m</td>
<td>with acoustic sensor</td>
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<td>Indoor 180-S</td>
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<td>max. r = 10 m</td>
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</table>
## Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180-R covering included</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92623</td>
</tr>
<tr>
<td>Indoor 180-R covering not included</td>
<td>-</td>
<td>92665</td>
</tr>
<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
</tr>
</tbody>
</table>

## Product Information
- Wall motion detector with acoustic sensor
- Relay version with three-wire technology
- Acoustic sensor independently adjustable
- Noise automatically extends follow-up time
- Manual switching via push-button possible
- Available with covering (centre plate dimensions 60 x 60 mm) or without covering for use with covering (centre plate dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available

## Technical Data
- 110 – 240 V AC 50 / 60 Hz
- covering included 87 x 87 x 61 mm
- covering not included 70 x 70 x 61 mm
- approx. 0.5 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 11 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

### Channel 1 (lighting control)
- 2300 W, cos φ = 1; 1150 VA; cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 16 min, Pulse
- 10 – 2000 Lux
Wall detectors

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180-T covering included</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92622</td>
</tr>
<tr>
<td>Indoor 180-T covering not included</td>
<td>-</td>
<td>92664</td>
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<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
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<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
</tr>
</tbody>
</table>

Product Information

- Wall motion detector with acoustic sensor
- Triac version with 2-wire technology, no neutral
- Acoustic sensor independently adjustable
- Only for resistive loads
- Noise automatically extends follow-up time
- Available with covering (centre plate dimensions 60 x 60 mm) or without covering for use with covering (centre plate dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- covering included 87 x 87 x 61 mm
- covering not included 70 x 70 x 61 mm
- approx. 0.5 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 11 m mounting height
- 1 m / 2.2 m / 11 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
- 300 W, cos φ = 1 / min. 40 W
- 15 sec – 16 min, Pulse
- 10 – 2000 Lux
**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
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</thead>
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<td>pure white mat, similar to RAL 9010</td>
<td>92616</td>
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<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
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<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
</tr>
</tbody>
</table>

**Product Information**

- Wall motion detector with acoustic sensor
- Relay version with 2-wire technology thanks to inbuilt battery
- Acoustic sensor independently adjustable
- Noise automatically extends follow-up time
- With already mounted frame
- B.E.G. frames and centre plates for combination with other frame systems available

**Technical Data**

- **110 – 240 V AC 50 / 60 Hz**
- **5 × NIMH / 30 AAAA**
- **1.2 V / 200 mAh**
- **87 × 87 × 61 mm**
- **approx. 0.5 W**
- **horizontal 180°**
- **max. 10 m across; max. 3 m towards**
- **157 m² / 1.1 m mounting height**
- **1 m / 2.2 m / 1.1 m**
- **IP20 / Class II**
- **-5 °C to +45 °C**
- **Polycarbonate, UV-resistant**

**Channel 1 (lighting control)**

- **2300 W, cos ϕ = 1 (at <30 W with added arc extinction kit); 1150 VA, cos ϕ = 0.5 (4 ballasts, added arc extinction kit required); 500 W LED, max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A**
- **1x μ-contact, N0 contact with tungsten pre-make contact**
- **15 sec – 16 min, Pulse**
- **2 – 2000 Lux**
### Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>92650</td>
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<td>Indoor 180-TR covering not included</td>
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<td>92668</td>
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<tr>
<td>SCT1</td>
<td>grey</td>
<td>92655</td>
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</tr>
<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
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<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
<td></td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
<td></td>
</tr>
</tbody>
</table>

### Technical Data

- **Wall motion detector designed for stair light timer switches**
- **Triac version with 2-wire technology, no neutral**
- **Guarantees correct operation with the SCT1 (max. 10 sensors per unit)**
- **Available with covering (centre plate dimensions 60 x 60 mm) or without covering for use with covering (centre plate dimensions 50 x 50 mm) in 5 different colours**
- **In combination with centre plates usable with current frame systems of various manufacturers**
- **B.E.G. frames and centre plates for combination with other frame systems available**

### Technical Data

- **110 – 240 V AC 50 / 60 Hz Power supply via staircase switch**
  - covering included 87 x 87 x 61 mm
  - covering not included 70 x 70 x 61 mm
- **Approx. 0.8 W**
- **Horizontal 180°**
- **Max. 10 m across; max. 3 m towards**
- **157 m² / 1.1 m mounting height**
- **1 m / 2.2 m / 1.1 m**
- **IP20 / Class II**
- **-25 °C to +50 °C**
- **Polycarbonate, UV-resistant**

### Channel 1

- **0.2 A / Z30 V**
- **Pulse duration 0.1 sec; Deactivation of light evaluation**
- **1 min – 10 min**
- **2 = 2000 Lux**
# Motion detectors 1-channel

## Indoor 180N-R/2W-UK

### Wall detectors

## Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180N-R/2W-UK covering included</td>
<td>pure white glossy, similar to RAL 9010</td>
<td>92716</td>
</tr>
<tr>
<td>RC-suppression kit</td>
<td>white/brown/black</td>
<td>10881</td>
</tr>
</tbody>
</table>

## Product Information

- Wall motion detector with acoustic sensor
- With removable frame cover
- Relay version with 2-wire technology thanks to inbuilt battery
- Acoustic sensor independently adjustable
- Noise automatically extends follow-up time
- Mounted frame, removable cover and arc extinction kit included

## Technical Data

- 110 – 240 V AC 50 / 60 Hz
- 4xNiMH / 1.2V / 200mA
- 88 × 88 × 46 mm
- < 1 W
- Horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 11 m
- IP20 / Class II
- -5 °C to +45 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2300 W, cos φ = 1 (at +30 W with added arc extinction kit); 1150 VA, cos φ = 0.5 (+4 ballasts, added arc extinction kit required); 300 W LED; max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 μs) = 800 A
- μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 60 min
- 10 – 2000 Lux
Wall detectors

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180-R UK covering included</td>
<td>pure white, similar to RAL 9010</td>
<td>92610</td>
</tr>
<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
</tr>
</tbody>
</table>

**Product Information**

- Wall motion detector with acoustic sensor
- Relay version with three-wire technology
- Acoustic sensor independently adjustable
- Noise automatically extends follow-up time
- With already mounted frame

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- 87 x 87 x 61 mm
- 110 – 240 V AC
- approx. 0.5 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 11 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2300 W, cos φ = null; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 µs) = 800 A
- 15 sec – 16 min, Pulse
- 40 – 2000 Lux

---

**Walking across**

1. Walking across
2. Walking towards

---

**Walking across**

1. Walking across
2. Walking towards
Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180-R-11-48V-3A covering included</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92621</td>
</tr>
<tr>
<td>Indoor 180-R-11-48V-3A covering not included</td>
<td>-</td>
<td>92666</td>
</tr>
<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
</tr>
</tbody>
</table>

Product Information

- Wall motion detector with acoustic sensor, operating voltage 11-48 V
- One potential-free switching channel
- Acoustic sensor independently adjustable
- Noise automatically extends follow-up time
- Manual switching via push-button possible
- Available with covering (centre plate dimensions 60 x 60 mm) or without covering for use with covering (centre plate dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available

Technical Data

- 11 - 48 V AC / DC
- covering included 87 x 87 x 61 mm
- covering not included 70 x 70 x 61 mm
- approx. 1 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 11 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control, potential-free (dry))

<table>
<thead>
<tr>
<th>(3A version)</th>
<th>3 A; cos $\varphi = 1$</th>
</tr>
</thead>
<tbody>
<tr>
<td>(RR version)</td>
<td>0.1 A; cos $\varphi = 1$ with Reed relay</td>
</tr>
</tbody>
</table>

- $\mu$-contact, dry NO contact, with Reed relay
- 15 sec – 16 min, Pulse
- 5 – 2000 Lux
Motion detectors 11-48V

Wall detectors

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180-R-11-48V-RR covering not included</td>
<td>-</td>
<td>92667</td>
</tr>
<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
</tr>
</tbody>
</table>

Product Information

- Wall motion detector with acoustic sensor, operating voltage 11-48 V
- One potential-free switching channel
- Acoustic sensor independently adjustable
- Noise automatically extends follow-up time
- Manual switching via push-button possible
- Available with covering (centre plate dimensions 60 x 60 mm) or without covering for use with covering (centre plate dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available

Technical Data

- 11 – 48 V AC / DC
- covering not included 70 x 70 x 61 mm
- approx. 1 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 11 m mounting height
- 1 m / 2.2 m / 11 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control, potential-free (dry))

- (3A version): 3 A; cos ϕ = 1
- (RR version): 0.1 A; cos ϕ = 1 with Reed relay

- μ-contact, dry NO contact, with Reed relay
- 15 sec – 16 min, Pulse
- 5 – 2000 Lux
**Occupancy detectors 1-channel**

### Wall detectors

#### Indoor 140-L

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
</table>
| Indoor 140-L covering included       | white glossy, similar to RAL 9010 | 94327       

#### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- 88 x 88 x 30 mm
- approx. 0.4 W / approx. 0.8 W with nightlight
- horizontal 120°
- max. 8 m across; max. 3 m towards
- 67 m² / 1.1 m mounting height
- 1 m / 1.2 m / 1.1 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2000 W, cos φ = 1, 1000 VA, cos φ = 0.5, 300 W LED,
- max. inrush current Ip (20 µs) = 165 A
- max. inrush current Ip (20 µs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 30 min
- 0 – 100 % / OFF / 15 s – 30 min
- 0 – 100 %
- 10 – 2000 Lux

#### Product Information

- Wall-mounted occupancy detector with integrated pushbutton
- One channel for switching light (selectively main light or orientation light)
- Integrated downlight with the function of an orientation or a night light
- Extension of the detection range possible by using up to 5 other Indoor 140-L
- Can be used as either Master device or Slave device
- Relay with tungsten pre-make contact, optimised for LED loads
- Available with covering (centre plate dimensions 60x60 mm) or without covering for use with covering (centre plate dimensions 50x50 mm) in 4 different colours
- Please order coverings for EU version separately; available in various colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available

---

Walking across
Walking towards
Occupancy detectors 2-channel

Wall detectors

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180-M-2C covering included</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92136</td>
</tr>
<tr>
<td>Indoor 180-M-2C covering not included</td>
<td>-</td>
<td>92661</td>
</tr>
<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
<td>92726</td>
</tr>
<tr>
<td>IR-PD-2C</td>
<td>-</td>
<td>92475</td>
</tr>
<tr>
<td>IR-PD-Mini</td>
<td>-</td>
<td>92159</td>
</tr>
<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
</tr>
</tbody>
</table>

Product Information

- Wall occupancy detector with acoustic sensor
- One channel for light switching
- One additional potential-free (dry) contact for HVAC
- Version as master device
- Extension of the detection area with slave devices possible
- Acoustic sensor independently adjustable
- Noise automatically extends follow-up time
- Available with covering (centre plate dimensions 60 x 60 mm) or without covering for use with covering (centre plate dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available
- Factory settings 10 min and 500 lux (15 min HVAC)

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- covering included: 87 x 87 x 61 mm
- covering not included: 70 x 70 x 61 mm
- approx. 0.4 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 11 m mounting height
- 1 m / 2.2 m / 11 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current Ip (20 ms) = 165 A; max. inrush current Ip (200 µs) = 800 A
- 1x µ-contact, NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux

Channel 2 (HVAC control potential-free (dry))
- 3 A / 230 V, cos φ = 1
- 1x µ-contact, dry NO contact
- 5 min – 120 min, Alarm, Pulse
### Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor 180-S covering included</td>
<td>pure white mat, similar to RAL 9010</td>
<td>92135</td>
</tr>
<tr>
<td>Indoor 180-S covering not included</td>
<td>-</td>
<td>92660</td>
</tr>
<tr>
<td>Surface mounting socket Indoor 180</td>
<td>pure white</td>
<td>92141</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>traffic white mat, similar to RAL 9016</td>
<td>38947</td>
</tr>
<tr>
<td>Central plate Indoor 180</td>
<td>oyster white mat, similar to RAL 1013</td>
<td>39076</td>
</tr>
</tbody>
</table>

### Product Information

- Slave device
- For extending the detection area of a Master device
- Compatible with 230 V devices. Concerning exceptions please see the respective master device.
- Available with covering (centre plate dimensions 60 x 60 mm) or without covering for use with covering (centre plate dimensions 50 x 50 mm) in 5 different colours
- In combination with centre plates usable with current frame systems of various manufacturers
- B.E.G. frames and centre plates for combination with other frame systems available

### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- covering included 87 x 87 x 61 mm
- covering not included 70 x 70 x 61 mm
- approx. 0.2 W
- horizontal 180°
- max. 10 m across; max. 3 m towards
- 157 m² / 1.1 m mounting height
- 1 m / 2.2 m / 11 m
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Pulse interval: 2 or 9 sec
The AL series – extremely flat luminaires with broad light distribution

- Surface height of only 40 mm or 48 mm, flat diffuser for modern design
- Robust plastic housing made of polycarbonate with a high fire protection value (V0).
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination (3C variants)
- Integrated microwave sensor, not externally visible, wide detection range (HF variants)
(HF) microwave motion and occupancy detectors

Active occupancy detection – 360° view intelligently switched

HF microwave occupancy detectors can function through many materials such as wood, partition walls and glass, and therefore they can be installed “hidden” in lights or flush-mounted. In order to enable daylight-dependent lighting control, B.E.G. has fitted the new HF-MD3 and HF-MD4 microwave detectors with light sensors.

The external light sensors (optional on the HF-MD3) can be perfectly positioned (e.g. above the workstation, where light is most needed), while the power unit can be positioned near the lights for example. As well as an external light sensor, the HF-MD4 also has an external HF microwave sensor, which can for example be placed invisibly in the switch box next to the door.
**Detector overview**

(HF) radar occupancy and motion detector

<table>
<thead>
<tr>
<th>HF detector</th>
<th>Page</th>
<th>Page number</th>
<th>Daylight evaluation</th>
<th>Motion detector</th>
<th>Remote control-capable</th>
<th>Range</th>
<th>Additional functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF-MD1</td>
<td>165</td>
<td>94401</td>
<td>–</td>
<td>•</td>
<td>–</td>
<td>max. Ø 16 m</td>
<td>HF detector</td>
</tr>
<tr>
<td>HF-MD1 ESL</td>
<td>165</td>
<td>94417</td>
<td>–</td>
<td>•</td>
<td>–</td>
<td>max. Ø 16 m</td>
<td>HF detector</td>
</tr>
<tr>
<td>HF-MD2</td>
<td>166</td>
<td>94402</td>
<td>–</td>
<td>•</td>
<td>–</td>
<td>max. Ø 16 m</td>
<td>HF detector</td>
</tr>
<tr>
<td>HF-H-MD1</td>
<td>167</td>
<td>94431</td>
<td>–</td>
<td>•</td>
<td>–</td>
<td>max. Ø 16 m</td>
<td>HF detector</td>
</tr>
<tr>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HF-MD3</td>
<td>168</td>
<td>94437</td>
<td>–</td>
<td>•</td>
<td>•</td>
<td>max. Ø 7 m</td>
<td>HF detector</td>
</tr>
<tr>
<td>HF-MD4</td>
<td>169</td>
<td>94438</td>
<td>–</td>
<td>•</td>
<td>•</td>
<td>max. Ø 7 m</td>
<td>HF detector</td>
</tr>
</tbody>
</table>
Microwave motion detector, designed for surface mount and installation in lights

- Temperature-independent detection
- Detection can be made through various materials
- Range, switch-on threshold and follow-up time set via potentiometers

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF-MD1</td>
<td>white</td>
<td>94401</td>
</tr>
<tr>
<td>HF-MD1 ESL</td>
<td>white</td>
<td>94417</td>
</tr>
</tbody>
</table>

**Technical Data**

- 230 V AC +/- 10% 50 / 60 Hz
- 101 × 42 × 42 mm
- approx. 1.2 W
- vertical 360°
- Ø 0.4 – 16 m, max. Ø 16 m towards
- 200 m² / 2.5 m mounting height
- 1 m / 4 m / 2.5 m
- IP20 / Class II
- -15 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 1200 W, \( \cos \varphi = 1 \), max. inrush current IP (20 ms) = 120 A
- 1x μ-contact, NO contact
- HF-MD1 5 sec – 15 min
- HF-MD1 ESL (for use with fluorescent lamps) 5 min – 15 min
- 2 – 2000 Lux
- Radar / HF technology: 5.8 GHz, <10 mW
Microwave detectors

**HF-MD2**

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF-MD2-SM</td>
<td>white</td>
<td>94402</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
<td>white</td>
<td>92199</td>
</tr>
</tbody>
</table>

**Product Information**

- Microwave motion detector, designed for surface mount
- Temperature-independent detection
- Detection can be made through various materials
- Range, switch-on threshold and follow-up time set via potentiometers

**Technical Data**

- 230 V AC +/- 10% 50 / 60 Hz
- Ø 117 x 45 mm
- approx. 1.2 W
- vertical 360°
- Ø 0.4 – 16 m
- 200 m² / 2.5 m mounting height
- 1 m / 4 m / 2.5 m
- IP20 / Class II
- -15 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 1200 W, cos φ = 1, max. inrush current IP (20 ms) = 120 A
  - 1x μ-contact, NO contact
  - 5 sec – 15 min
  - 2 – 2000 Lux
- Radar / HF technology: 5.8 GHz, <10 mW
Motion detector

HF-H-MD1 Standard

Microwave detectors

Product and accessory

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF-H-MD1 Standard white</td>
<td></td>
<td>94431</td>
</tr>
</tbody>
</table>

Product Information

- Microwave motion detector, designed for surface mount and installation in lights
- Temperature-independent detection
- Detection can be made through various materials
- Range, switch-on threshold and follow up time are adjustable with DIP switches

Technical Data

- 230 V AC +/- 10% 50 Hz
- 103 x 53 x 26 mm
- approx. 0.8 W
- vertical 360°
- Ø 0.2 – 16 m
- 200 m² / 2.5 m mounting height
- 1 m / 11 m / 2.5 m
- IP20 / Class II
- -35 °C to +70 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- 1000 W, cos ϕ = 1
- 1x μ-contact, NO contact
- 5 sec – 25 min
- 2 – 30 Lux
- Radar / HF technology: 5.8 GHz, <10 mW
**Microwave detectors**

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF-MD3</td>
<td>white</td>
<td>94437</td>
</tr>
<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
<td>92726</td>
</tr>
<tr>
<td>HF-CO1 Impact protection and strain relief</td>
<td>white</td>
<td>94460</td>
</tr>
<tr>
<td>HF-EM1 external light sensor with IR receiver</td>
<td>white</td>
<td>94459</td>
</tr>
</tbody>
</table>

**Product Information**

- Microwave occupancy detector for indoor use
- Light sensor integrated into case
- Setup via potentiometer on device
- Extendible by external light sensor with integrated IR receiver for remote capability of the detector
- Temperature-independent detection
- Detection through glass, wood and partition walls

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- 120 × 40 × 26 mm
- approx. 0.5 W
- vertical 360°
- Ø 0.2 – 7 m
- 38 m² / 2.5 m mounting height
- 2 m / 2.5 m / 2.5 m
- IP20 / Class II
- -15 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5
  - 1x μ-contact, NO contact
- 15 sec – 30 min
- 10 – 1200 Lux
- Radar / HF technology: 5.8 GHz, <10 mW
Microwave detectors

**HF-MD4**

**Occupancy detector**

**Product and accessory**

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF-MD4</td>
<td>white</td>
<td>94438</td>
</tr>
<tr>
<td>IR-Adapter for Smartphones</td>
<td>black</td>
<td>92726</td>
</tr>
<tr>
<td>HF-CO1 Impact protection and strain relief</td>
<td>white</td>
<td>94460</td>
</tr>
</tbody>
</table>

**Product Information**

- Microwave occupancy detector for indoor use
- Optimal and individual setup via external light sensor and external HF radar sensor
- Convenient programming with B.E.G. Smartphone app
- Temperature-independent detection
- Detection through glass, wood and partition walls

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- 120 × 40 × 26 mm
- approx. 0.5 W
- vertical 360°
- Ø 0.2 – 7 m
- 38 m² / 2.5 m mounting height
- 1 m / 2.5 m / 2.5 m
- IP20 / Class II
- -15 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5
- 1x μ-contact, NO contact
- 15 sec – 30 min
- 10 – 1200 Lux
- Radar / HF technology: 5.8 GHz, <10 mW
Occupancy detector for biodynamic light

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

Tunable White Panel Lights and occupancy detectors

- LED panel luminaire in very flat design for installation in suspended ceiling systems with adjustable light colour 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: Daytime-dependent control of brightness and colour temperature by means of a real-time clock
- Optional with external color temperature light sensor “PureColour”
LUXOMAT® Photo electric switches

Swapping the light becomes comfortable thanks to the integrated automatic function

Photoelectric switches are the right choice for all those places where lights need to be automatically switched on or off at the end or beginning of the day.

Light sensors measure the ambient light conditions and the device will switch the light on or off depending on the pre-set twilight value. Generally, lights are not needed at certain times of the day. B.E.G. products therefore allow the light to be controlled in relation to the twilight and are thus able to help save energy.

B.E.G. supplies photo electric switches for a variety of purposes to this end: for DIN rails, for installation in units and for wall or mast installation as well as a remote control-capable product.

In addition to a dimmable version, the range also includes a twilight switch with an additional DALI/DSI interface.
### Overview photo electric switches & constant light controllers

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<td>2300 W</td>
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</table>
Remote control-capable photo electric switch with integrated timer
Energy-saving period may be programmed with the integrated timer by the touch of a button
Inputting the current light value by the touch of a button
Infrared remote control included
Relay with tungsten pre-make contact, optimised for LED loads

Technical Data
- 110 – 240 V AC 50 / 60 Hz
- 69 × 63 × 55 mm
- < 0.5 W
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; max. inrush current IP (20 ms) = 165 A; max. inrush current IP (200 μs) = 800 A
- 1x NO contact with tungsten pre-make contact
- 2 – 300 Lux

Product and accessory

<table>
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<tr>
<th>Description</th>
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Product and accessory

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Product Information

- Photoelectric switch for automatically switching
- Activation and deactivation delay with self-learning deactivation-light value
- Integrated automatic function (10 Lux / 40 sec. activation / 120 sec. deactivation delay)
- LED adjustment aid (without delay) for adjustment of the switch-on threshold
- Light value and activation/deactivation delay may be set from the outside using the potentiometer
- Double cable inlet from underneath possible
- Wall and mast installation

Technical Data

- 110 – 240 V AC 50 / 60 Hz
- 42 x 80 x 96 mm
- < 0.5 W
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

Channel 1 (lighting control)

- 2300 W; cos φ = 1; 1150 VA; cos φ = 0.5
- 1x μ-contact; NO contact
- 1 s - 120 s
- 2 – 1000 Lux
Photoelectric switches

**Product and accessory**

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<th>Description</th>
<th>Colour</th>
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<td>IR-Cds-FP</td>
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</table>

**Product Information**

- Remote control-capable photoelectric switch
- Extra flat form – only 6 mm high
- Adjustable deactivation delay with selflearning deactivation and twilight value

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Ø 80 × 74 mm
- < 1 W
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 2000 W, cos ϕ = 1; 1000 VA, cos ϕ = 0.5; max. inrush current IP (20 ms) = 165 A; max. inrush current IP (200 μs) = 800 A
  - 1x μ-contact, NO contact with tungsten pre-make contact
- determined automatically
- 5 s - 30 min
- 10 – 2000 Lux
  - Mixed light, daylight • artificial-light measuring


Photoelectric switches

### Product and accessory

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</table>

### Product Information
- Photoelectric switch with switch relay
- For retrofitting in outdoor lights and for use in branch boxes
- Continuously variable twilight value
- The cable between the photo sensor and electronic unit is around 15 cm long and may be extended to a maximum of 1.50 m

### Technical Data
- 110 – 240 V AC 50 / 60 Hz
- Light sensor Ø 15 × 24 mm, Power supply: 61 × 23 × 38 mm
- < 0.5 W
- Housing IP20 / Light sensor IP64 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 1000 W, cos Φ = 1; 350 VA, cos Φ = 0.4
  - 1x μ-contact, NO contact
- 10 s - 15 s
- 2 – 100 Lux
Photoelectric switches

Product and accessory

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</table>

Product Information

- Photoelectric switch set for DIN rail
- LED adjustment aid (without delay) for adjustment of the switch-on threshold
- Electronic component for installation in branches for comfortable settings from switch cabinets
- Switches off at around 1.3 times the activation value
- Separate light sensor for surface or flush installation (included)

Technical Data

- 230 V AC +/- 10% 50 Hz
- Light sensor: 63 x 38 x 58 mm, DIN-rail mount device 90 x 18 x 45 mm
- 10 mA
- IP54 / Class II
- Light sensor -35°C to +50°C
- Electronical unit -10°C to +40°C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - Resistive loads 1000 W, cos ϕ = 1
  - Fluorescent lamps parallel compensated 600 W
  - LV halogen lamps 450 W
- 1x NO contact
- approx. 8 s
- approx. 40 s
- 1 – 100 Lux / 50 – 1000 Lux
Photoelectric switches

### Product and accessory

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<tr>
<th>Description</th>
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</table>

### Product Information

- Photoelectric switch for automatic switching of lights
- LED adjustment aid (without delay) for adjustment of the switch-on threshold
- Light value and activation/deactivation delay may be set from the outside using the potentiometer

### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- 55 × 63 × 68 mm
- approx. 0.5 W
- IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Automatic mode (Switch-on threshold 20 Lux, Switch-on delay 10 s, Switch-off delay 40 s)
- Connections and wires: for solid conductors 0.25 – 2.5 mm²
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5
- μ-contact, NO contact
- 10 s
- 40 s
- 20 – 1000 Lux
**Product and accessory**

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<tr>
<th>Description</th>
<th>Colour</th>
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<tr>
<td>IR-Adapter for Smartphones</td>
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<tr>
<td>IR-CdS</td>
<td>-</td>
<td>92577</td>
</tr>
<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<td>92199</td>
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</tbody>
</table>

**Product Information**

- Remote controllable, photo electric switch with ability to dim, for ceiling mounting
- Illumination can be dimmed to a desired brightness value.
- Actual light value can be read and delay time can be set using the optional infrared remote control
- For connection of up to 50 EB
- Constant light regulation
- Dynamic switch-on delay
- Relay with tungsten pre-make contact, optimised for LED loads
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- Ø 80 x 75 mm
- < 1 W
- IP20 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant
- Channel 1 (lighting control)
  - 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; max. inrush current IP (20 ms) = 165 A; max. inrush current IP (200 μs) = 800 A
  - 1x μ-contact. NO contact with tungsten pre-make contact
- 1-10 V DC, up to 50 ballasts
- determined automatically
- 1 min - 30 min
- 10 – 2000 Lux
Photoelectric switches

Product and accessory

<table>
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<tr>
<th>Description</th>
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<tbody>
<tr>
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</tbody>
</table>

Product Information

- MiniClip LR1 light sensor with mixed light measurement for constant light control, to be clipped on to the T5 and T8 fluorescent lamps
- 1 – 10 V interface for controlling analog, dimmable ballasts
- Continuous dimming is used to implement constant light control for room lights that adapt to the amount of daylight.
- The light value to be kept constant in the room may be set by turning the knurled sensor cap.

Technical Data

| Ø 31 × 68 mm |
| vertical 140° |
| IP20 / Class II |
| 0 °C to +50 °C |
| Polycarbonate, UV-resistant |
| Channel 1 (lighting control) |
| 1–10 V DC, up to 50 ballasts |
| 400 – 1500 Lux |
**Product and accessory**

<table>
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<tr>
<th>Description</th>
<th>Colour</th>
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<td>IR-CdS</td>
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<tr>
<td>Wire basket BSK (Ø 200 x 90 mm)</td>
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<td>92199</td>
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</tbody>
</table>

**Product Information**

- Remote control-capable photoelectric switch with DALI / DSI interface for control of digital dimmable electronic ballasts as a group
- Relay contact for completely switching off electronic ballasts
- Illumination can be dimmed to a desired brightness value.
- Actual light value can be read and delay time can be set using the optional infrared remote control
- Constant light regulation
- Dynamic switch-on delay
- Relay with tungsten pre-make contact, optimised for LED loads
- Avoidance of standby losses of the lighting system in accordance with EnEV DIN V 18599-4

**Technical Data**

- 110 – 240 V AC 50 / 60 Hz
- FC: Ø 80 × 75 mm
- SM: Ø 102 × 48 mm
- < 1 W
- FC: IP20 / Class II
- SM: IP54 / Class II
- -25 °C to +50 °C
- Polycarbonate, UV-resistant

**Channel 1 (lighting control)**

- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; max. inrush current IP (20 ms) = 165 A; max. inrush current IP (200 µs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- up to 50 DALI / DSI-EB
- determined automatically
- 1 min - 30 min
- 10 – 2000 Lux
The new tool for installers

Highlights

- Connects the smartphone to all B.E.G. remote products: The Bluetooth infrared adapter for programming and calibration
- Communicates with smartphone via Bluetooth Low Energy and with product via Infrared
- Bidirectional communication method
- Easy and user friendly programming of B.E.G. products via the free B.E.G. App
- Quick programming without smartphone is possible thanks to the adapter’s memory.
- Integrated luxmeter for brightness and light measurement
- Actual light level is transmitted regularly to compatible B.E.G. products.
- For compatible Android or iOS smartphones, compatibility list see B.E.G. website
Remote controls

The B.E.G. BLE-IR adapter for smartphones, the 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 transmission to the respective detector works via the B.E.G. IR adapter for smartphones BLE-IR. The connection is bidirectional via Bluetooth Low Energy. The brightness measurement integrated in the adapter is transmitted cyclically to the compatible B.E.G. devices.
### Overview remote controls

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Tailored lighting systems for every project

Individual lighting management for your project

We provide the right solution for every requirement. 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. It is important to us that you always receive the best service. Therefore we will be delighted to support you in your planning. For virtual planning, BIM files are available for you to download from the website. We will be happy to help you with the best arrangement of detectors based on your CAD plan. Our field operatives will visit you on site if necessary and help you with installation.

General application – special, property-specific requirements must be observed.
Design examples for electricians and planners

Convenient and safe designs with B.E.G.

Selecting the right occupancy detector or multisensor for each area of the project is not always easy with the diversity and special functions of the detectors. As a specialist, B.E.G. offers detectors for almost every requirement.

We will be happy to assist you with the selection and planning. On the following pages we have compiled tips on the optimum installation location, correct switching and correct setting of our detectors as well as design examples for various projects.

Here you can quickly see which detectors are best suited for which situations. Furthermore, use the experience of B.E.G. for successful planning and smooth operation of B.E.G. detectors.

Our field staff will advise you directly on site. If you wish, our specialists can use your CAD plan to plan the optimum distribution of our motion and occupancy detectors. Simply send us your plans by e-mail. We will take care of the rest, free of charge of course. You can rely on us: Even after the purchase, we are there to advise you until the completion of your project.
## Selection Guide

<table>
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<tr>
<th>Choose the applicative detector</th>
<th>for switching</th>
<th>for dimming 1-10 VDC</th>
<th>DALI/DSI output</th>
<th>KNX output</th>
<th>Slaves</th>
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<td>knx-DX-FC</td>
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| **Open-plan office, Meeting room** | Part no. | Description          | Part no.        | Description| Part no. |
| False ceiling                   | PD4-M-2C-FC 92148 | PD4-M-DIM-FC         | PD4-M-DALLI/DSI-FC 92148 | knx-DX-FC |         |
| Surface mounting                | PD4-M-2C-SM 92147 | PD4-M-DIM-SM         | PD4-M-DALLI/DSI-SM 92147 | knx-DX-FC |         |
| False ceiling                   | PD4-M-2C-C-FC 92143 | PD4-M-DIM-C-FC       | PD4-M-DALLI/DSI-C-FC 92143 | knx-DX-FC |         |
| Surface mounting                | PD4-M-2C-C-SM 92144 | PD4-M-DIM-C-SM       | PD4-M-DALLI/DSI-C-SM 92144 | knx-DX-FC |         |
| Wall mount                       | PD4-M-2C-C-FC 92140 | Indoor 140-L         | Indoor 140-L-KNX-DX 92140 |         |         |

| **Hallway, Corridor**            | Part no. | Description          | Part no.        | Description| Part no. |
| False ceiling                   | PD4-M-2C-FC 92148 | PD4-M-DIM-FC         | PD4-M-DALLI/DSI-FC 92148 | knx-DX-FC |         |
| Surface mounting                | PD4-M-2C-SM 92147 | PD4-M-DIM-SM         | PD4-M-DALLI/DSI-SM 92147 | knx-DX-FC |         |

| **Entrance hall**                | Part no. | Description          | Part no.        | Description| Part no. |
| False ceiling                   | PD4-M-2C-FC 92148 | PD4-M-DIM-FC         | PD4-M-DALLI/DSI-FC 92148 | knx-DX-FC |         |
| Surface mounting                | PD4-M-2C-SM 92147 | PD4-M-DIM-SM         | PD4-M-DALLI/DSI-SM 92147 | knx-DX-FC |         |

| **Individual office**            | Part no. | Description          | Part no.        | Description| Part no. |
| False ceiling                   | PD4-M-2C-FC 92148 | PD4-M-DIM-FC         | PD4-M-DALLI/DSI-FC 92148 | knx-DX-FC |         |
| Surface mounting                | PD4-M-2C-SM 92147 | PD4-M-DIM-SM         | PD4-M-DALLI/DSI-SM 92147 | knx-DX-FC |         |

| **Bathroom**                     | Part no. | Description          | Part no.        | Description| Part no. |
| False ceiling                   | PD9-M-1C-SDB-IP65-FC 92912 | PD9-M-DIM-FC       | PD9-M-DALLI/DSI-FC 92912 | knx-DX-FC |         |

| **Classroom**                    | Part no. | Description          | Part no.        | Description| Part no. |
| False ceiling for 2 light zones  | PD4-M-2C-DUO-FC 92251 | PD4-M-DIM-FC       | PD4-M-DALLI/DSI-FC 92251 | knx-DX-FC |         |
| False ceiling for 3 light zones  | PD4-M-3C-TRIO-FC 92745 | PD4-M-DIM-FC       | PD4-M-DALLI/DSI-FC 92745 | knx-DX-FC |         |

| **High-bay warehouse**           | Part no. | Description          | Part no.        | Description| Part no. |
| Surface mounting                | PD4-M-1C-GH SM 92245 | PD4-M-DIM-GH SM     | PD4-M-DALLI/DSI-GH SM 92245 | knx-DX-FC |         |

| **Renovation, Wall switch / Stair light timer switch** | Part no. | Description          | Part no.        | Description| Part no. |
| Indoor 180-TR / SCT1             | 92650 | Indoor 180-TR / SCT1 92655 |  |         |         |
| Wall mount                       | LC plus 2B 91008 | LC plus 2B 91008 |  |         |         |

| **Toilets, Anterooms, Technical rooms** | Part no. | Description          | Part no.        | Description| Part no. |
| False ceiling                   | PD3N-1C-FC 92196 | PD3N-DIM-FC          | PD3N-DALLI/DSI-FC 92196 | knx-DX-FC |         |
| Surface mounting                | PD3N-1C-SM 92190 | PD3N-DIM-SM          | PD3N-DALLI/DSI-SM 92190 | knx-DX-FC |         |

| **Z-wire with relay**            | Part no. | Description          | Part no.        | Description| Part no. |
| Flush mounting                  | Indoor 180 R/2W-UK 92615 | Indoor 180 R/2W-UK 92615 |  |         |         |

| **2 house side, House entrance, Range max. 20 m** | Part no. | Description          | Part no.        | Description| Part no. |
| Detection area 130° - 360°       | RC plus next N 130 93321 | RC plus next N 130 93321 |  |         |         |
| Detection area 230° - 360°       | RC plus next N 230 93331 | RC plus next N 230 93331 |  |         |         |
| Detection area 280° - 360°       | RC plus next N 280 93341 | RC plus next N 280 93341 |  |         |         |

| **House entrance, Range max. 16 m** | Part no. | Description          | Part no.        | Description| Part no. |
| Detection area 280° - 360°       | LC plus 2B 91008 | LC plus 2B 91008 |  |         |         |

| **House entrance, Range max. 12 m** | Part no. | Description          | Part no.        | Description| Part no. |
| Detection area 280° - 360°       | LC-Click N 140 93041 | LC-Click N 140 93041 |  |         |         |
| Detection area 200° - 180°       | LC-Click N 200 93042 | LC-Click N 200 93042 |  |         |         |
Overview of range in relation to mounting height

**PD3N- and PD9 motion detector**

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<th>Seated activity</th>
<th>Walking across</th>
<th>Walking towards</th>
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**PD9-GH motion detector**

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Walking across</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00 m</td>
<td>Ø=3.00 m</td>
</tr>
<tr>
<td>6.00 m</td>
<td>Ø=3.50 m</td>
</tr>
<tr>
<td>7.00 m</td>
<td>Ø=4.20 m</td>
</tr>
<tr>
<td>8.00 m</td>
<td>Ø=4.80 m</td>
</tr>
<tr>
<td>9.00 m</td>
<td>Ø=6.00 m</td>
</tr>
<tr>
<td>10.00 m</td>
<td>Ø=6.00 m</td>
</tr>
</tbody>
</table>

Ø = diameter

**PD4N motion detector**

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Seated activity</th>
<th>Walking across</th>
<th>Walking towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00 m</td>
<td>Ø=5.20 m</td>
<td>Ø=17.00 m</td>
<td>Ø=6.40 m</td>
</tr>
<tr>
<td>2.50 m</td>
<td>Ø=6.40 m</td>
<td>Ø=24.00 m</td>
<td>Ø=8.00 m</td>
</tr>
<tr>
<td>3.00 m</td>
<td>Ø=7.60 m</td>
<td>Ø=29.00 m</td>
<td>Ø=9.60 m</td>
</tr>
<tr>
<td>3.50 m</td>
<td>Ø=9.00 m</td>
<td>Ø=34.00 m</td>
<td>Ø=11.00 m</td>
</tr>
<tr>
<td>4.00 m</td>
<td>–</td>
<td>Ø=39.00 m</td>
<td>Ø=13.60 m</td>
</tr>
<tr>
<td>4.50 m</td>
<td>–</td>
<td>Ø=44.00 m</td>
<td>Ø=14.40 m</td>
</tr>
<tr>
<td>5.00 m</td>
<td>–</td>
<td>Ø=48.00 m</td>
<td>Ø=16.00 m</td>
</tr>
</tbody>
</table>

**Detector positioning**

Maximum motion detection is achieved by walking across the detection area, not by walking towards it. This should be borne in mind when it comes to corridors.

**Detector distance**

In order to eliminate potential “dead zones”, detection areas may overlap.
Overview of range in relation to mounting height

PD4 occupancy detector

Range (circular detection) T=18°C

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Seated activity</th>
<th>Walking across</th>
<th>Walking towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00 m</td>
<td>Ø=5.20 m</td>
<td>Ø=17.00 m</td>
<td>Ø=6.40 m</td>
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<tr>
<td>2.50 m</td>
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<td>3.00 m</td>
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<td>3.50 m</td>
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<td>Ø=11.00 m</td>
</tr>
<tr>
<td>4.00 m</td>
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<td>Ø=39.00 m</td>
<td>Ø=13.60 m</td>
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</tr>
<tr>
<td>10.00 m</td>
<td>-</td>
<td>Ø=48.00 m</td>
<td>Ø=16.00 m</td>
</tr>
</tbody>
</table>

PD9-GH occupancy detector

Range (circular detection) T=18°C

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Walking across</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00 m</td>
<td>Ø=3.00 m</td>
</tr>
<tr>
<td>6.00 m</td>
<td>Ø=3.50 m</td>
</tr>
<tr>
<td>7.00 m</td>
<td>Ø=4.20 m</td>
</tr>
<tr>
<td>8.00 m</td>
<td>Ø=4.80 m</td>
</tr>
<tr>
<td>9.00 m</td>
<td>Ø=6.00 m</td>
</tr>
<tr>
<td>10.00 m</td>
<td>Ø=6.00 m</td>
</tr>
</tbody>
</table>

Ø = diameter

PD4-M-1C-GH occupancy detector

Range (oval detection) T=17°C

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>in longitudinal axis (L)</th>
<th>90° to longitudinal axis (B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00 m</td>
<td>Ø=26.00 m</td>
<td>Ø=18.00 m</td>
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<td>7.00 m</td>
<td>Ø=28.00 m</td>
<td>Ø=19.00 m</td>
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<td>8.00 m</td>
<td>Ø=28.00 m</td>
<td>Ø=19.00 m</td>
</tr>
<tr>
<td>9.00 - 16.00 m</td>
<td>Ø=30.00 m</td>
<td>Ø=19.00 m</td>
</tr>
</tbody>
</table>

PD11 occupancy detector

Range (circular detection) T=18°C

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Seated activity</th>
<th>Walking across</th>
<th>Walking towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00 m</td>
<td>Ø=2.40 m</td>
<td>Ø=7.20 m</td>
<td>Ø=4.80 m</td>
</tr>
<tr>
<td>2.50 m</td>
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<tr>
<td>3.00 m</td>
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<td>Ø=18.00 m</td>
<td>Ø=12.00 m</td>
</tr>
</tbody>
</table>

PD2- and PD9 occupancy detector

Range (circular detection) T=18°C

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Seated activity</th>
<th>Walking across</th>
<th>Walking towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00 m</td>
<td>Ø=3.20 m</td>
<td>Ø=8.00 m</td>
<td>Ø=5.00 m</td>
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<tr>
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<td>Ø=4.80 m</td>
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<td>Ø=7.40 m</td>
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<td>Ø=9.60 m</td>
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<td>-</td>
<td>Ø=18.00 m</td>
<td>Ø=10.80 m</td>
</tr>
<tr>
<td>5.00 m</td>
<td>-</td>
<td>Ø=20.00 m</td>
<td>Ø=12.00 m</td>
</tr>
</tbody>
</table>

Detector positioning

Maximum motion detection is achieved by walking across the detection area, not by walking towards it.
This should be borne in mind when it comes to corridors.

Detector distance

In order to eliminate potential “dead zones”, detection areas may overlap.
Detection areas for B.E.G. motion- and occupancy detectors

- **LC-Mini 120**
- **LC-Mini 180**
- **LC-Click-N 140**
- **LC-Click-N 200**
- **LC-plus 280**
- **RC-plus next N 130**
- **RC-plus next N 230**
- **RC-plus next N 280**
- **PD2/PD3N/PD9/PICO**
- **PD4/PD4-DUO/PD4-TRIO**
- **PD4-GH**
- **PD4-C**
- **PD11**

- Walking across
- Walking towards
- Anti-creep / Seated activity
Overview blinds

Blinds allow the detection area of the sensor to be adapted to local conditions. Sources of interference or areas where monitoring is not required can thus be excluded from motion detection. Blinds are supplied in the packaging, and can also be ordered separately if more are needed.

Blinds for B.E.G. ceiling occupancy and motion detector

- for LUXOMAT® PD2-SM+FM
  Part no. 92260
  PD2-SM with blinds

- for LUXOMAT® PD2-FC
  Part no. 36635
  PD2-FC with blinds

- for LUXOMAT® PD3N + PD2N
  Part no. 37367
  PD3N-SM with blinds

- for LUXOMAT® PD4 + PD4N
  Part no. 92313
  PD4-FM with blinds

- for LUXOMAT® Mini-occupancy detector
  PD9 Part no. 32702
  PD9-FC with blinds

- for LUXOMAT® PD9-GH for great large
  Part no. 33207
  PD9-GH-FC with blinds

- for LUXOMAT® PD9-GH, half
  Part no. 92952
  Blind for preventing lateral incidence of light and 180° restriction of movement detection
  PD9-GH-FC with blinds

- for LUXOMAT® PD9-GH, continuous
  Part no. 92953
  Blind for preventing lateral incidence of light
  PD9-GH-FC with blinds

- for LUXOMAT® PD11-FC
  Part no. 38522
  PD11-FC with blinds

Wire basket B.E.G.

- LUXOMAT® Wire basket BSK
  Part no. 92199
  Ø 200 x 90 mm
  For indoor use motion and occupancy detectors

- LUXOMAT® Wire basket BSK
  Part no. 92467
  Ø 164 x 143 mm
  For outdoor use motion detectors and for PD4-TRIO-SM
### Blinds for B.E.G. ceiling occupancy and motion detector

- **for LUXOMAT® RC-plus next N**
  - Part no. 32697
  - [Image](#)
  - [Image](#)
  - [Image](#)
  - RC-plus next with blinds

- **for LUXOMAT® LC-plus 280**
  - Part no. 32698
  - [Image](#)
  - [Image](#)
  - LC-plus 280 with blinds

- **for LUXOMAT® LC-Click-N Part no. 32699**
  - and LC-Mini Part no. 33232
  - [Image](#)
  - [Image](#)
  - LC-Click-N with blinds
  - [Image](#)
  - LC-Mini with blinds

### Protection against vandalism for Indoor 180

- **for LUXOMAT® Protection against vandalism, Part no. 92018**
  - [Image](#)
  - Protection of the potentiometer cap against unwanted removing

### Arc-extinction kit for B.E.G. motion and occupancy detectors

- **LUXOMAT® Arc-extinction kit**
  - Part no. 10880
  - L 38 x B 12 x H 26 mm

- **LUXOMAT® Mini-RC-Arc extinction kit**
  - Part no. 10882
  - L 50 x B 22 x H 10 mm

**Installation instructions - RC suppressor:**

- The RC suppressors supplied by B.E.G. provide any necessary suppression of interferences for your lighting installation. For technical reasons, voltage peaks when switching inductive loads (e.g. electronic ballasts), especially in combination with long cables, can lead to unexpected operation of ceiling or occupancy detectors.

- For large installations where many electronic ballasts are controlled in parallel, the use of RC suppressors is recommended. An efficient suppression of interferences is achieved when the RC suppressor is installed near the source of interference.
Automatic lighting control with occupancy detectors is to be implemented in a corridor on an office floor.

**Note:**
The detectors should be positioned in such a way that all access zones are safely covered with frontally detection zones. “Dead zones” should be avoided in corridor sections. If it is not possible to avoid gaps in the detection range, the follow-up time should be increased.

Please note that the detection ranges of the detectors depend on the direction of movement of the persons to be detected (frontally to the detector or transverse to the detector).

- **Object data:**
  - Type: Corridor without daylight
  - Corridor dimensions: L 18.00 x W 12.00 m
  - Ceiling height: 2.50 m (clear height)
- **Lighting:**
  - 1 luminaire group with electronic ballasts
- **Product listing:**
  - 1 pc. LUXOMAT® PD4 master device
  - 2 pcs. LUXOMAT® PD4 master device

- **Master device setting:**
  - Follow-up time R1: > 5 min
  - Switch-on threshold R1: 50 - 150 Lux
  - Follow-up time R2: optional
  - If required: Orientation light

- **Operation mode:**
  - Master/slave operation in the corridor area (see wiring diagram PD4-M-1C)
  - The master device must always be mounted in the darkest area of the corridor.

**Detection range Type “PD4”**

- across: Ø 24 m
- frontally: Ø 8 m
- seated activity: Ø 6.4 m

for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In a corridor on an office floor, an optically inconspicuous, automatic lighting control system should be implemented.

- **Note:**
The detectors should be positioned in such a way that all access zones are safely covered with frontally detection zones. “Dead zones” should be avoided in corridor sections. If it is not possible to avoid gaps in the detection range, the follow-up time should be increased.

Please note that the detection ranges of the detectors depend on the direction of movement of the persons to be detected (frontally to the detector or transverse to the detector).

- **Object data:**
  - **Type:** Corridor without daylight
  - **Corridor dimensions:** L 18.00 x W 12.00 m
  - **Ceiling height:** 2.50 m (clear height)

- **Lighting:**
  - 2 luminaire groups with electronic ballasts

- **Product listing:**
  - 2 pcs. LUXOMAT® PD4 master -C device

- **Master device setting:**
  - **Follow-up time R1:** > 5 min
  - **Switch-on threshold R1:** 50 - 150 Lux
  - **Follow-up time R2:** optional

- **Operation mode:**
  - Both detectors in master mode (see wiring diagram PD4-M-2C-C)

- **Detection range Type “PD4-C”**

  - across Ø 40 m
  - frontally Ø 20 m

  for a mounting height of 2.50 m

  Please note that the detection range changes depending on the mounting height (p. 189-190)!
Automatic lighting control with design occupancy detectors is to be implemented in a corridor on an office floor.

- **Note:**
The PD11 design occupancy detector blends almost invisibly into the ceiling with only 0.85 mm visible height. The detectors should be positioned in such a way that all access zones are safely covered with frontal detection zones. “Dead zones” should be avoided in corridor sections. If it is not possible to avoid gaps in the detection range, the follow-up time should be increased.

Please note that the detection ranges of the detectors depend on the direction of movement of the persons to be detected (frontally to the detector or transverse to the detector).

- **Object data:**
  - **Type:** Corridor without daylight
  - **Corridor dimensions:** L 18.00 x W 12.00 m
  - **Ceiling height:** 2.50 m (clear height)
  - **Lighting:**
    - 2 luminaire groups with electronic ballasts
  - **Product listing:**
    - 2 pcs. LUXOMAT® PD11 master device
    - 2 pcs. LUXOMAT® PD11 slave device
  - **Master device setting:**
    - **Follow-up time R1:** > 5 min
    - **Switch-on threshold R1:** 300 Lux or individually with remote control
  - **Operation mode:**
    - Master/slave operation in the corridor area (see wiring diagram PD11-M-1C-FLAT)
    - The master device must always be mounted in the darkest area of the corridor.

- **Detection range Type “PD11”**

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>across</td>
<td>Ø 9 m</td>
</tr>
<tr>
<td>frontally</td>
<td>Ø 6 m</td>
</tr>
<tr>
<td>seated activity</td>
<td>Ø 3 m</td>
</tr>
</tbody>
</table>

  for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Automatic lighting control is to be implemented in a corridor on an office floor. As this is an old building, wall occupancy detectors are desired.

- **Note:**

The Indoor 180 wall occupancy detectors in combination with intermediate frames are suitable for all common flush-mounted switch brands.

The detectors should be positioned in such a way that all access zones are safely covered with frontally detection zones. “Dead zones” should be avoided in corridor sections. If it is not possible to avoid gaps in the detection range, the follow-up time should be increased.

Please note that the detection ranges of the detectors depend on the direction of movement of the persons to be detected (frontally to the detector or transverse to the detector).

- **Object data:**
  - **Type:** Corridor without daylight
  - **Corridor dimensions:** L 18.00 x W 12.00 m
  - **Ceiling height:** 2.50 m (clear height)

- **Lighting:**
  - 2 luminaire groups with electronic ballasts

- **Product listing:**
  - 2 pcs. LUXOMAT® Indoor 180 master device
  - 3 pcs. LUXOMAT® Indoor 180 slave device

- **Master device setting:**
  - **Follow-up time R1:** > 5 min
  - **Switch-on threshold R1:** 300 Lux or individually with remote control
  - **Follow-up time R2:** optional

- **Operation mode:**

Master/slave operation in the corridor area (see wiring diagram Indoor 180-M-2C)

The master device must always be mounted in the darkest area of the corridor.

- **Detection range Type “Indoor 180”**

  ![Detection Range Diagram](image)

  across Ø 10 m
  
  frontally Ø 3 m

  for a mounting height of 1.10 m – 2.20 m

  Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example
open-plan office with PD11

In an open-plan office with areas separated by partition walls, an optically inconspicuous, automatic lighting control system with occupancy detectors is to be implemented.

- Note:
The PD11 design occupancy detector blends almost invisibly into the ceiling with only 0.85 mm visible height. The detectors should be positioned so that the "seated activity" detection zone covers the desk workstations.

- Object data:
  - Type: Open plan office with daylight
  - Room dimensions: L 14.00 x B 14.00 m
  - Ceiling height: 3.00 m (clear height)

- Lighting:
  - 3 luminaire groups with electronic ballasts

- Product listing:
  - 3 pcs. LUXOMAT® PD11 master device
  - 3 pcs. LUXOMAT® PD11 slave device

- Master device setting:
  - Follow-up time R1: > 5 min
  - Switch-on threshold R1: 500 Lux or individually with remote control

- Operation mode:
  - Master/slave operation at workstations (see wiring diagram PD11-M-1C-FLAT)
  - The master device must always be mounted at the darkest spot of the area illuminated by the group.

- Detection range Type “PD11”

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In an open-plan office with two lighting groups, automatic daylight-dependent lighting control with occupancy detectors is to be implemented. The sunny side of the office with windows facing south/west and the shaded side with windows facing north should be controlled independently.

**Note:**
The workstations at the south and west windows are combined in a luminaire group, as are the workstations at the north windows.

- **Object data:**
  - **Type:** Open plan office with daylight
  - **Room dimensions:** L 14.00 x B 14.00 m
  - **Ceiling height:** 3.00 m (clear height)
- **Lighting:**
  - 2 luminaire groups with electronic ballasts
- **Product listing:**
  - 1 pcs. LUXOMAT® PD4Master DUO Device
  - 1 pcs. LUXOMAT® PD2 master device
  - 3 pcs. LUXOMAT® PD2 slave device
- **Master device setting:**
  - **Follow-up time R1:** > 5 min
  - **Switch-on threshold R1:** 500 Lux or individually with remote control
  - **Follow-up time R2:** optional
- **Operation mode:**
  - Master/slave operation at workstations (see wiring diagrams PD2-M-1C and PD4-M-2C-DUO)
  - The master device must always be mounted at the darkest spot.

- **Detection range Type “PD4”**

  - across: Ø 24 m
  - frontally: Ø 8 m
  - seated activity: Ø 6.4 m
  - for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In a conference room, the lighting should be controlled visually inconspicuously depending on presence and daylight. Despite the automatic control, it should be possible to influence the current switching status manually via a button or a remote control. The occupancy detectors are to be mounted on the ceiling.

**Note:**
The PD11 design occupancy detector blends almost invisibly into the ceiling with only 0.85 mm visible height. By installing two occupancy detectors, the entire conference table can be covered with the “seated activity” detection areas. Even small movements are reliably detected.

- **Object data:**
  - Type: Meeting room with daylight
  - Room dimensions: L 10.00 x B 6.00 m
  - Ceiling height: 3.00 m (clear height)
- **Lighting:**
  - 1 luminaire group with electronic ballasts
- **Product listing:**
  - 1 pcs. LUXOMAT® PD11 master device
  - 1 pcs. LUXOMAT® PD11 slave device

- **Master device setting:**
  - Follow-up time R1: mind. 5 min
  - Switch-on threshold R1: 500 Lux

- **Operation mode:**
  - Master/slave circuit with optional push-button control (see wiring diagram PD11-M-1C-FLAT)
  - The master device must always be mounted at the darkest spot.

- **Detection range Type “PD11”**

  - across: Ø 9 m
  - frontally: Ø 6 m
  - seated activity: Ø 3 m

  For a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)
Planning example conference room with PD4

In a conference room, the lighting is to be controlled according to presence and daylight. Despite the automatic control, it should be possible to influence the current switching status manually via a button or a remote control. The occupancy detectors are to be mounted on the ceiling.

- **Note:**
  By mounting the PD4, the entire room can be covered with just one device.

- **Object data:**
  - **Type:** Meeting room with daylight
  - **Room dimensions:** L 10.00 x B 6.00 m
  - **Ceiling height:** 3.00 m (clear height)

- **Lighting:**
  - 1 luminaire group with electronic ballasts

- **Product listing:**
  - 1 pcs. LUXOMAT® PD4 master device

- **Master device setting:**
  - Follow-up time R1: mind. 5min
  - Switch-on threshold R1: 500Lux
  - Follow-up time R2: optional

- **Operation mode:**
  - Master circuit with optional push-button control (see wiring diagram PD4-M-2C)

- **Detection range Type “PD4”**

  - across: Ø 24 m
  - frontally: Ø 8 m
  - seated activity: Ø 6.4 m

  for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example
lavatories with PD3N or PD9
(solid walls)

In a lavatory with lockable WC cabins with solid walls, the light should be switched reliably and energy-efficiently.

- **Note:**
To cover all areas, the cabins must each be equipped with an occupancy detector.

- **Object data:**
  - **Type:** Lavatory
  - **Room dimensions:** L 6.00 x B 5.50 m
  - **Ceiling height:** 3.00 m (clear height)

- **Lighting:**
  - 1 luminaire group with electronic ballasts per room/cabin

- **Product listing:**
  - 6 pcs. LUXOMAT® PD3N or PD9 device

- **Device setting:**
  - **Follow-up time:** 10 min
  - **Switch-on threshold:** Day (Symbol “Sun”)

- **Operation mode:**
  - Standard operation (see wiring diagrams PD3N-1C and PD9-1C)

- **Detection range Type “PD3N” or “PD9”**

<table>
<thead>
<tr>
<th>Action</th>
<th>Range (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>across</td>
<td>Ø 10</td>
</tr>
<tr>
<td>frontally</td>
<td>Ø 6</td>
</tr>
<tr>
<td>seated activity</td>
<td>Ø 4</td>
</tr>
</tbody>
</table>

  for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In a lavatory with lockable cabins open to the top, the lighting is to be switched on and off efficiently.

- **Note:**
  In addition to the motion sensor, the Indoor 180 Micro has a sound sensor so that the lighting remains switched on not only during movement, but also when there are noises.

- **Object data:**
  Type: public lavatory without daylight
  Room dimensions: L 6.00 x B 5.50 m
  Ceiling height: 3.00 m (clear height)

- **Lighting:**
  1 luminaire group with electronic ballasts per room

- **Product listing:**
  3 pcs. LUXOMAT® Indoor 180-R device

- **Device setting:**
  Follow-up time: 10 min
  Switch-on threshold: Day (Symbol “Sun”)

- **Noise sensitivity:**
  The optimum sensitivity must be determined in a test.

- **Operation mode:**
  Standard operation (with noise sensitivity);
  (see wiring diagram Indoor 180-R)

---

**Detection range Type “Indoor 180”**

<table>
<thead>
<tr>
<th>Direction</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>across</td>
<td>Ø 10 m</td>
</tr>
<tr>
<td>frontally</td>
<td>Ø 3 m</td>
</tr>
</tbody>
</table>

for a mounting height of 1.10 m – 2.20 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In a lavatory with lockable cabins open to the top, the lighting is to be switched on and off efficiently. The motion detectors should be mounted on the ceiling.

- **Note:**
The PD3N Micro has a sound sensor in addition to the motion sensor, so the lighting stays on not only when you move, but also when you make noise.

- **Object data:**
  - **Type:** public lavatory without daylight
  - **Room dimensions:** L 6.00 x B 5.50 m
  - **Ceiling height:** 3.00 m (clear height)

- **Lighting:**
  - 1 luminaire group with electronic ballasts per room

- **Product listing:**
  - 3 pcs. LUXOMAT® PD3N Micro devices

- **Device setting:**
  - **Follow-up time R1:** > 5 min
  - **Switch-on threshold R1:** 300 Lux or individually with remote control

- **Noise sensitivity:**
The optimum sensitivity must be determined in a test.

- **Operation mode:**
  - Standard mode (with noise sensitivity) (see wiring diagram PD3N-1C Micro)

- **Detection range Type “PD3N”**

  - across Ø 10 m
  - frontally Ø 6 m
  - seated activity Ø 4 m

  for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In the stairwell of a multi-family house, four lighting groups (3 floors/1 basement floor) are to be controlled automatically by occupancy detectors. The devices should be mounted on the ceiling.

- **Object data:**
  - **Type:** Staircase with 3 floors with daylight and one basement floor without daylight
  - **Staircase dimensions:** L 6.50 x B 2.50 m
  - **Ceiling height:** 3.00 m (clear height)

- **Lighting:**
  - 1 luminaire group with electronic ballasts per floor

- **Product listing:**
  - 4 pcs. LUXOMAT® PD2 master device

- **Master device setting:**
  - **Group 1:**
    - **Follow-up time R1:** 5 min
    - **Switch-on threshold R1:** Day (Symbol “Sun”)
    - **Follow-up time R2:** optional
  - **Group 2:**
    - **Follow-up time R1:** 5 min
    - **Switch-on threshold R1:** 300 Lux

- **Operation mode:**
  - **Follow-up time R2:** optional

- **Detection range Type “PD2”**
  - Across: Ø 10 m
  - Frontally: Ø 6 m
  - Seated activity: Ø 4 m

  Please note that the detection range changes depending on the mounting height (p. 189-190)!

Mounting height = 3.00 m

Detector for
- Lighting group 1
- Lighting group 2
- Lighting group 3
- Lighting group 4
The lighting of an office building is to be controlled automatically by motion detectors in the stairwell with central elevator and in the corridor in front. The devices should be mounted on the ceiling.

- **Note:** A second detector should be installed on the rear side of the elevator to avoid a dead zone. Two motion detectors control the lighting group (master/slave) on each floor in the stairwell.

- **Object data:**
  - **Type:** Staircase with 3 floors without daylight
  - **Staircase dimensions:** L 6.50 x B 5.50 m
  - **Ceiling height:** 3.00 m (clear height)

- **Lighting:**
  - 2 luminaire groups with ECG per floor

- **Product listing:**
  - 3 pcs. LUXOMAT® PD3N devices per floor

- **Device setting:**
  - **Follow-up time:** 5 min
  - **Switch-on threshold:**
    - **Group 1:** Switch-on threshold 300 Lux (with L’ monitoring)
    - **Group 2:** Switch-on threshold Day (Symbol “Sun”)

- **Operation mode:**
  - Parallel operation (see wiring diagram PD3N-1C)

**Detection range Type “PD3N”**

- across: Ø 10 m
- frontally: Ø 6 m
- seated activity: Ø 4 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example staircase with HF-MD3

In the stairwell of an office building, the lighting on each floor is to be controlled visually inconspicuously.

- **Note:**
The HF-MD3 detects movement even through thin materials (glass, partition walls, etc.). It is therefore suitable for unobtrusive installation in luminaires.

- **Object data:**
  Type: Staircase with 3 floors without daylight
  Staircase dimensions: L 6.50 x B 5.50 m
  Ceiling height: 3.00 m (clear height)

- **Lighting:**
  1 Luminaire group per floor

- **Product listing:**
  4 pcs. LUXOMAT® HF-MD3 devices (for installation in luminaires)

- **Device setting:**
  Follow-up time R1: 5 min
  Switch-on threshold R1: 300 Lux

- **Detection range Type “HF-MD3”**

  max. Ø 0.2 – 7 m
  for a mounting height of 2.50 m

  Please note that the detection range changes depending on the mounting height (p. 189-190)!
In the stairwell of an apartment building, the lighting is to be automatically controlled floor by floor with motion detectors. The motion detectors are to be mounted as wall switches.

- **Object data:**
  - **Type:** Staircase with four floors with daylight
  - **Staircase dimensions:** L 6.50 x B 2.50 m
  - **Ceiling height:** 3.00 m (clear height)

- **Lighting:**
  1 luminaire group with electronic ballasts per floor

- **Product listing:**
  4 pcs. LUXOMAT® Indoor 180-R devices

- **Device setting:**
  **Group 1:**
  - Follow-up time R1: 5 min
  - Switch-on threshold R1: Day (Symbol “Sun”)
  **Group 2:**
  - Follow-up time R1: 5 min
  - Switch-on threshold R1: 300 Lux

- **Operation mode:**
  Standard operation (floor by floor, optional push-button control) (see wiring diagram Indoor 180-R)

- **Detection range Type “Indoor 180”**

  ➔ across Ø 10 m
  ➔ frontally Ø 3 m

  for a mounting height of 1.10 m – 2.20 m

  Please note that the detection range changes depending on the mounting height (p. 189-190)!
Automatic lighting control with occupancy detectors is to be implemented in a three-field gymnasium with variable partitions. In each of the three hall areas, a luminaire group is formed and individually switched. Despite the automatic control, it should be possible to influence the current switching status manually using a push-button as well as a remote control.

- **Note:**

Scenarios can be stored in the lighting control system so that lighting is optimally controlled depending on use (with partitions in the small halls or without partitions in the large hall). Special circuits are available for use with partition walls and various lighting scenes.

- **Object data:**
  - **Type:** Three-field gymnasium
  - **Hall dimensions:** L 46.00 x B 28.00 m
  - **Ceiling height:** 6.00 – 8.00 m, reflective floor
  - **Lighting:** 1 luminaire group with ECG per hall area

- **Product listing:**
  - 3 pcs. LUXOMAT® PD4 master device
  - 3 pcs. LUXOMAT® PD4 slave device

- **Master device setting:**
  - **Follow-up time R1:** mind: 5min
  - **Switch-on threshold R1:** 300 - 500 Lux
  - **Follow-up time R2:** optional

- **Operation mode:**

Master operation with all three luminaire groups (see wiring diagram PD4-M-2C);
Master/slave operation is also possible.
The master device must always be mounted at the darkest spot.

- **Detection range Type “PD4”**

- across Ø 24 m
- frontally Ø 8 m
- seated activity Ø 6.4 m

for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example
small playing field handball/tennis
with PD4

A gymnasium is to be equipped with a presence-dependent lighting control system. The devices should be mounted on the ceiling.

- **Object data:**
  - **Type:** Gymnasium with small playing field
  - **Hall dimensions:** L 46.00 x B 28.00 m
  - **Ceiling height:** 6.00 – 8.00 m, reflective floor

- **Lighting:**
  - 1 luminaire group with electronic ballasts

- **Product listing:**
  - 1 pc. LUXOMAT® PD4 master device
  - 1 pc. LUXOMAT® PD4 slave device

- **Master device setting:**
  - **Follow-up time R1:** mind. 5 min
  - **Switch-on threshold R1:** 300 - 500 Lux
  - **Follow-up time R2:** optional

- **Operation mode:**
  - Master operation (see wiring diagram PD4-M-1C);
  - Master/slave operation is also possible.
  - The master device must always be mounted at the darkest spot.

- **Detection range Type “PD4”**

<table>
<thead>
<tr>
<th>Distance</th>
<th>Range (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Across</td>
<td>Ø 24 m</td>
</tr>
<tr>
<td>Frontally</td>
<td>Ø 8 m</td>
</tr>
<tr>
<td>Seated</td>
<td>Ø 6.4 m</td>
</tr>
</tbody>
</table>

  for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In a warehouse, the light is to be switched on automatically by occupancy detectors. Each aisle is to be monitored and switched individually so as not to waste energy unnecessarily.

**Note:**
For optimum detection, a PD4-GH detector is mounted at each end of the aisle, when this is open on both sides. One PD4-GH detector is placed at the open end of the one-sided open aisles and a second one in the middle. The lenses at the head ends are covered with blinds towards the main aisle to prevent unwanted switching.

The luminaire group in the corridor is controlled by PD9 detectors.

**Object data:**
- **Type:** High bay warehouse with daylight
- **Warehouse dimensions:** L 66.00 x B 30.00 m
- **Ceiling height:** 10.00 m

**Lighting:**
- 12 luminaire groups with electronic ballasts

**Product listing:**
- 11 pcs. LUXOMAT® PD4 master GH devices
- 10 pcs. LUXOMAT® PD4 slave GH devices
- 1 pc. LUXOMAT® PD9 slave GH device
- 5 pcs. LUXOMAT® PD9 slave GH devices

**Master device setting:**
- Follow-up time R1: > 5 min
- Switch-on threshold R1: 500 Lux or individually with remote control

**Operation mode:**
- Master/slave operation for luminaire groups in the individual aisles and passageways (see wiring diagrams PD4-M-1C-GH and PD9-M-1C-GH)

The master device must always be mounted at the darkest spot of the area of its luminaire group.

**Detection range Type “PD9-GH”**
- Across: Ø 6 m
- Across / frontally: Ø 30 m
  for a mounting height of 2.50 m
  for a mounting height of 14.00 m – 16.00 m

**Detection range Type “PD4-GH”**
The detection range can be optimally adapted by means of blinds.

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example high-bay warehouse 2 with PD4-GH and PD9-GH

In a warehouse, all areas are to be monitored with occupancy detectors and the light switched on automatically. Each aisle is to be individually monitored and switched in sections, the main aisles are to be switched in their entirety. The detectors must be mounted on the ceiling.

- **Note:**
In order to avoid unwanted switching in the aisles when using the main aisle, the detectors at the head ends of the aisles on this side should be restricted with blinds.

- **Object data:**
  - Type: High bay warehouse with daylight
  - Warehouse dimensions: L 66.00 x B 30.00 m
  - Ceiling height: 10.00 m
- **Lighting:**
  - 7 luminaire groups with electronic ballasts
- **Product listing:**
  - 22 pcs. LUXOMAT® PD4 master GH devices
  - 1 pcs. LUXOMAT® PD9 master GH devices

- **Master device setting:**
  - Follow-up time R1: > 5 min
  - Switch-on threshold R1: 500 Lux or individually with remote control
- **Operation mode:**
  - Master operation for all luminaire groups (see wiring diagrams PD4-M-1C-GH and PD9-M-1C-GH)

- **Detection range Type “PD9-GH”**
  - across Ø 6 m for a mounting height of 2.50 m

- **Detection range Type “PD4-GH”**
  - across / frontally Ø 30 m for a mounting height of 14.00 m – 16.00 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In an underground car park, the best possible monitoring of the entrance areas to the underground car park and the main passageways should be achieved with as few motion detectors as possible. „Dead spots” in certain parts of the garage are to be compensated with an adjusted follow-up time.

- **Object data:**
  - **Type:** Underground car park without daylight
  - **Garage dimensions:** L 66.00 x B 32.00 m
  - **Ceiling height:** 3.00 m

- **Lighting:**
  - 2 separate luminaire groups with electronic ballasts

- **Product listing:**
  - 2 pcs. LUXOMAT® PD2 master device
  - 5 pcs. LUXOMAT® PD2 slave device
  - 1 pcs. LUXOMAT® PD4 master device
  - 9 pcs. LUXOMAT® PD4 slave device

- **Master device setting:**
  - Follow-up time R1: mind. 5min
  - Switch-on threshold R1: 300 - 500 Lux
  - Follow-up time R2: optional

- **Operation mode:**
  - Parallel connection pro Lighting group (see wiring diagrams PD2-M-2C and PD4-M-2C)

Note:
The transit areas are equipped with two detectors, the detection area of which is limited to the doors by means of blinds. The detectors belong to the lighting group on the other side of the respective door. In this way, the light is switched in advance in the direction of movement.

- **Detection range Type “PD4”**

---

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example single garage with PD4N and PD3N

In a private garage, the lighting is to be controlled automatically by motion detectors. The motion detectors should be mounted on the ceiling.

- **Object data:**
  - **Type:** Private garage without daylight
  - **Garagenabmessungen:** L 6.00 x B 6.50 m
  - **Ceiling height:** 2.50 m

- **Lighting:**
  - 2 separate luminaire groups with electronic ballasts

- **Detection range Type “PD3N”**
  - Across: Ø 10 m
  - Frontally: Ø 6 m
  - Seated activity: Ø 4 m
  - For a mounting height of 2.50 m

- **Detection range Type “PD4N”**
  - Across: Ø 24 m
  - Frontally: Ø 8 m
  - Seated activity: Ø 6.4 m
  - For a mounting height of 2.50 m

- **Product listing:**
  - 1 pcs. LUXOMAT® PD4N device
  - 2 pcs. LUXOMAT® PD3N devices

- **Master device setting:**
  - Follow-up time: 4 min
  - Switch-on threshold: Day (Symbol “Sun”)

- **Operation mode:**
  - Standard operation (see wiring diagrams PD3N-1C and PD4N-1C)

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example classroom with PD4

In a classroom, the lighting is to be controlled according to presence and daylight. Despite the automatic control, it should be possible to influence the current switching status manually by means of a push-button or remote control. The occupancy detector is to be mounted on the ceiling.

- **Object data:**
  - **Type:** Classroom with daylight
  - **Room dimensions:** L 10.00 x B 8.00 m
  - **Ceiling height:** 3.00 m

- **Lighting:**
  - 1 luminaire group with electronic ballasts

- **Product listing:**
  - 1 pcs. LUXOMAT® PD4 master device

- **Master device setting:**
  - **Follow-up time:** mind. 5 min
  - **Switch-on threshold:** 500 Lux or individually with remote control

- **Operation mode:**
  - Master operation (see wiring diagram PD4-M-1C)

- **Detection range Type “PD4”**

  - across  Ø 24 m
  - frontally  Ø 8 m
  - seated activity  Ø 6.4 m

  for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example classroom with PD4-DUO

In a classroom, the lighting is to be controlled according to presence and daylight. The difference in brightness between the room side towards the wall and the room side towards the window should be compensated. Despite the automatic control, it should be possible to influence the current switching status manually by means of a push-button or remote control. The occupancy detector is to be mounted on the ceiling.

- **Note:**
  Each light band in the classroom is a luminaire group. The PD4-DUO has two independent light sensors. It can thus control two lighting groups with different brightness values and thus compensate for differences in brightness in the room.

- **Object data:**
  - **Type:** Classroom with one window side
  - **Room dimensions:** L 11.50 x B 7.50 m
  - **Ceiling height:** 3.00 m

- **Lighting:**
  - 2 luminaire groups with electronic ballasts

- **Product listing:**
  - 1 pcs. LUXOMAT® PD4 master DUO Device
  - 1 pcs. LUXOMAT® PD4 slave device

- **Master device setting:**
  - **Follow-up time R1:** mind. 5 min
  - **Switch-on threshold R1:** 500 Lux or individually with remote control
  - **Follow-up time R2:** mind. 5 min
  - **Switch-on threshold R2:** 500 Lux or individually with remote control

- **Operation mode:**
  - Master/slave circuit with optional push-button control (see wiring diagrams PD4-M-2C-DUO)

- **Detection range Type “PD4-DUO”**

```
    across       Ø 24 m
    frontally    Ø 8 m
    seated activity Ø 6.4 m
```

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example classroom with PD4-DAA4G

In a classroom with a window front, three light bands and separate blackboard lighting, the lighting is to be controlled according to presence and daylight. The difference in brightness between the wall and window sides is to be compensated so that the same brightness prevails at each pupil’s desk. In addition, the air conditioning system is to be activated according to presence.

- **Note:**
  With the PD4-DAA4G, the three light bands in the room can be operated as individual DALI groups. Offset values are used to compensate for brightness differences. The panel lighting can be switched as the fourth DALI group. In addition, the air-conditioning system is automatically controlled via a relay channel.

- **Object data:**
  Type: Classroom with one window side
  Room dimensions: L 12.50 x B 8.00 m
  Ceiling height: 3.00 m

- **Lighting:**
  4 DALI groups with electronic ballasts
  1 Relay channel for air conditioning

Despite the automatic control, the current switching status can be overridden manually via push-button or remote control app.

- **Product listing:**
  1 pcs. LUXOMAT® PD4 master DAA4G device
  1 pcs. LUXOMAT® PD4 slave DAA4G device

- **Master device setting:**
  Follow-up time DALI-Group 1-4: > 5 min
  Switch-on threshold :DA1 - DA4: 500 Lux
  Main lighting: full automatic (DALI group 1-3)
  Panel lighting: semi-automatic (DALI group 4)
  Follow-up time HVAC: 15 min

- **Operation mode:**
  Standard mode (see wiring diagram PD4-M-DAA4G)

- **Detection range Type “PD4-DAA4G”**

  - across Ø 24 m
  - frontally Ø 8 m
  - seated activity Ø 6.4 m

  for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
Planning example building with RC-plus next N

In the outdoor area of an office building, the lighting should be reliably switched by motion detectors. As few detectors as possible should be required to cover the entire area.

- **Note:**
  It must be ensured that the motion detectors are always mounted laterally to the walking or driving direction of persons or vehicles. If you approach the detector directly, the range is considerably reduced.
  The RC-plus next N is available with 130°, 180° or 280° detection range.

- **Object data:**
  - **Type:** Exterior office building
  - **Building dimensions:** L 44.00 x B 28.00 m
  - **Storey height:** 3.00 m

- **Lighting:**
  1 Lighting group

- **Product listing:**
  - 4 pcs. LUXOMAT® RC-plus next N 280-devices
  - 1 pcs. LUXOMAT® RC-plus next N 230-device

- **Device setting:**
  - **Follow-up time:** 4 min
  - **Switch-on threshold:** advanced twilight (symbol “moon dark”)

- **Operation mode:**
  Standard operation (see circuit diagram RC-plus next N) or parallel connection with L'-monitoring

### Detection range Type “RC-plus next N 230”
- **Detection range:**
  - across max. 20 m
  - frontally max. 6 m
- **Anti-creep zone:**
  - for a mounting height of 2.50 m

### Detection range Type “RC-plus next N 280”
- **Detection range:**
  - across max. 20 m
  - frontally max. 6 m
- **Anti-creep zone:**
  - for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
In a town hall, the entrances to the car park and the building entrances are to be monitored by motion detectors in order to switch on the outdoor lighting at the entrances.

**Note:**
It must be ensured that the motion detectors are always mounted laterally to the walking or driving direction of persons or vehicles. If you approach the detector directly, the range is considerably reduced.

**Object data:**
- **Type:** Exterior administration building
- **Building dimensions:** L 70.00 x B 46.00 m
- **Storey height:** 3.00 m

**Lighting:**
1 Lighting group

**Product listing:**
- 2 pcs. LUXOMAT® RC-plus next N 280-devices
- 3 pcs. LUXOMAT® LC-Click-N 200-devices

**Device setting:**
- **Follow-up time:** 4 min
- **Switch-on threshold:** advanced twilight (symbol ‘moon dark’)

**Operation mode:**
Standard operation (see circuit diagram RC-plus next N) or parallel connection with L’ monitoring

**Detection range Type “RC-plus next N 280”**
- across max. 20 m
- frontally max. 6 m
- Anti-creep zone max. 4 m

for a mounting height of 2.50 m

**Detection range Type “LC-Click-N 200”**
- across max. 12 m
- frontally max. 4 m
- Anti-creep zone max. 2 m

for a mounting height of 2.50 m

Please note that the detection range changes depending on the mounting height (p. 189-190)!
## Product listing

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Prod./Gr.</th>
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</tr>
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