



## Occupancy and motion detectors Catalogue



## Legend

	Power supply
	Parametrisation
	Typ. power input
	Dimensions
	Power consumption
	Angle of detection
	Range
	Mounting height min./ max./ recommended
	Degree / class of protection
	Ambient temperature
	Housing
	Cable length
	DALI output
	Follow-up time
	Switch-on threshold / Brightness set value
	Switching power
	Orientation light
	Connection type
	Switch-on delay
	Radio frequency
	Microwave frequency
	1-10 V dimming outputs
	Slave output voltage
	Slave pulse interval
	Impulse function
	Analogue output of the temperature change
	KNX BUS connection
	LON BUS connection
	Burn-in function
	Orientation light
	Nightlight
	Switch-on delay
	Switch-off delay
	Acoustic field
	HCL
	Monitored area

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### 1975

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

### Energy-efficient products combined with tradition

Founded in 1975, family-owned B.E.G., headquartered in Lindlar, Germany, has stood for quality and innovation for over 40 years. From the very beginning, our team's focus has been on satisfying customers. The B.E.G. product range is divided into six product lines: LUXOMAT®, 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.

### 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.



## Company history



**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 m<sup>2</sup> to meet the increasing demand.

**2014**

The new administration building was built 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

### Page numbers for occupancy and motion detectors according to their designation

Detector \ Type	1C (12-48V)	2C	M-1C (LED)	M-2C (12-48V)	M-2C- DUO	M-3C- TRIO	M- DIM	M-DIM- HVAC	M-DUO- DIM	M-TRIO- DIM	DALI (DAA4G)	DALI- 1C	DUO- DALI	TRIO- DALI	DALI LINK	BMS	S	HF
RC-plus next N 130	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RC-plus next N 230	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RC-plus next N 280	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LC-plus 280	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LC-Click-N 140	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LC-Click-N 200	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LC-Mini 120	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LC-Mini 180	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD2/PD2N	-	-	37,49	50,57	58	-	61	-	-	-	73	79,80	-	-	-	99	109	-
PD3/PD3N	23,25	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD3N-Micro	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD3-MIC-2C	-	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD4/PD4N	26	-	38	51	55	56	62	68,69	66	67	74,87, 89	81,82	83	84,85, 86	94	100	88,110	-
PD4-PS-C	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD4-DS	-	-	-	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD4-C/PD4N-C	27	-	39	52	-	-	63	-	-	-	75	-	-	-	-	101	111	-
PD4-GH	-	-	42	-	-	-	-	-	-	-	76	-	-	-	-	102	112	-
PD4-TRIO-C-3P	-	-	-	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD9-DIGI	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD9	28,33	-	43	54	-	-	64	70	-	-	77	-	-	-	-	-	113	-
PD9-GH	29	-	44	-	-	-	65	-	-	-	78	-	-	-	-	-	114	-
PD9-SDB	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	115	-
PD9-SDB-GH	-	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	116	-
PICO	-	-	47	-	-	-	-	-	-	-	-	-	-	-	95	103	117	-
PD11	-	-	48	-	-	-	-	-	-	-	-	-	-	-	93	104	118	-
Indoor 140-L	159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indoor 180	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	105	161	-
Indoor 180-R	151,156	-	-	157,158	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indoor 180-T	152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indoor 180-R-2D	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indoor 180-TR	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indoor 180N- R/2W-UK	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HF-MD1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	165
HF-MD2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	166
HF-H-MD1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	167
HF-MD3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168
HF-MD4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169

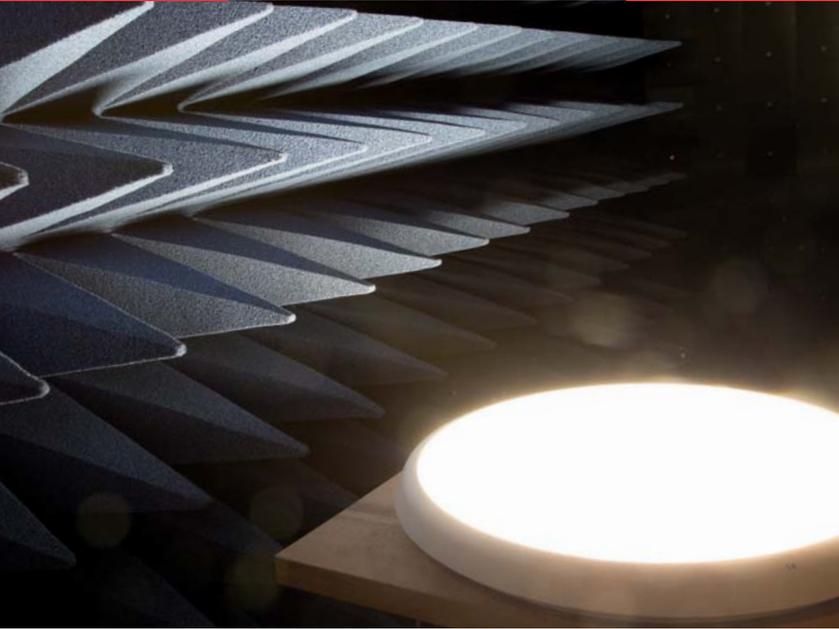
## Page numbers for networkable products according to their designation

Detector \ Type	KNX-BA	KNX-ST	KNX-DX	LON	LTMS
RC-plus next N 230	-	-	128	-	-
PD2N	121	124	129	139	143,144
PD4N	-	125	130	140	145
PD4N-C	-	-	131	-	-
PD4N-GH	-	-	132	-	-
PD9	-	-	133	141	-
PD9-GH	-	-	134	-	-
PICO	-	-	135	-	-
PD11-FLAT	122	126	136	-	146
Indoor 140-L	-	-	137	-	-
Indoor 180	123	127	138	142	-

## Page numbers for twilight switches according to their designation

Detector \ Type	1C	DALI	DIM	DIN rail
CdS-T	173	-	-	-
CdS	174,175	181	179	-
CdS-R	176	-	-	-
CdS-LC	178	-	-	-
TS-DD	-	-	-	177
MiniClip LR1	180	-	-	-

## Development and production



### EMC chamber for professional quality assurance

- In our in-house EMC laboratory, the technical team tests products for electromagnetic emission and susceptibility. B.E.G. thus ensures that products do not produce high levels of electromagnetic radiation and that emissions from other devices such as smartphones do not affect the reliability of B.E.G. products.
- In the climate chamber, the B.E.G. quality testers expose products to temperatures from -50 to +50 °C for long periods. This tests the products' temperature resistance under extreme conditions.
- Lastly, a B.E.G. quality product has to undergo impact and IP testing, in which the robustness of the case and the reliability of the seals are examined in minute detail.
- These elaborate test procedures mean that the meticulous experts at B.E.G. can ensure that their products always meet the company's highest quality requirements. On that you can rely!

### Flexibility in developing new products

- The B.E.G. CAD department uses 3D printing techniques in the production of prototypes, to develop precise and testable objects.
- Layer by layer, the three-dimensional test models are printed to match the exact specifications of computer-designed objects.
- 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.

## High-quality detector technology

### Motion detector technology

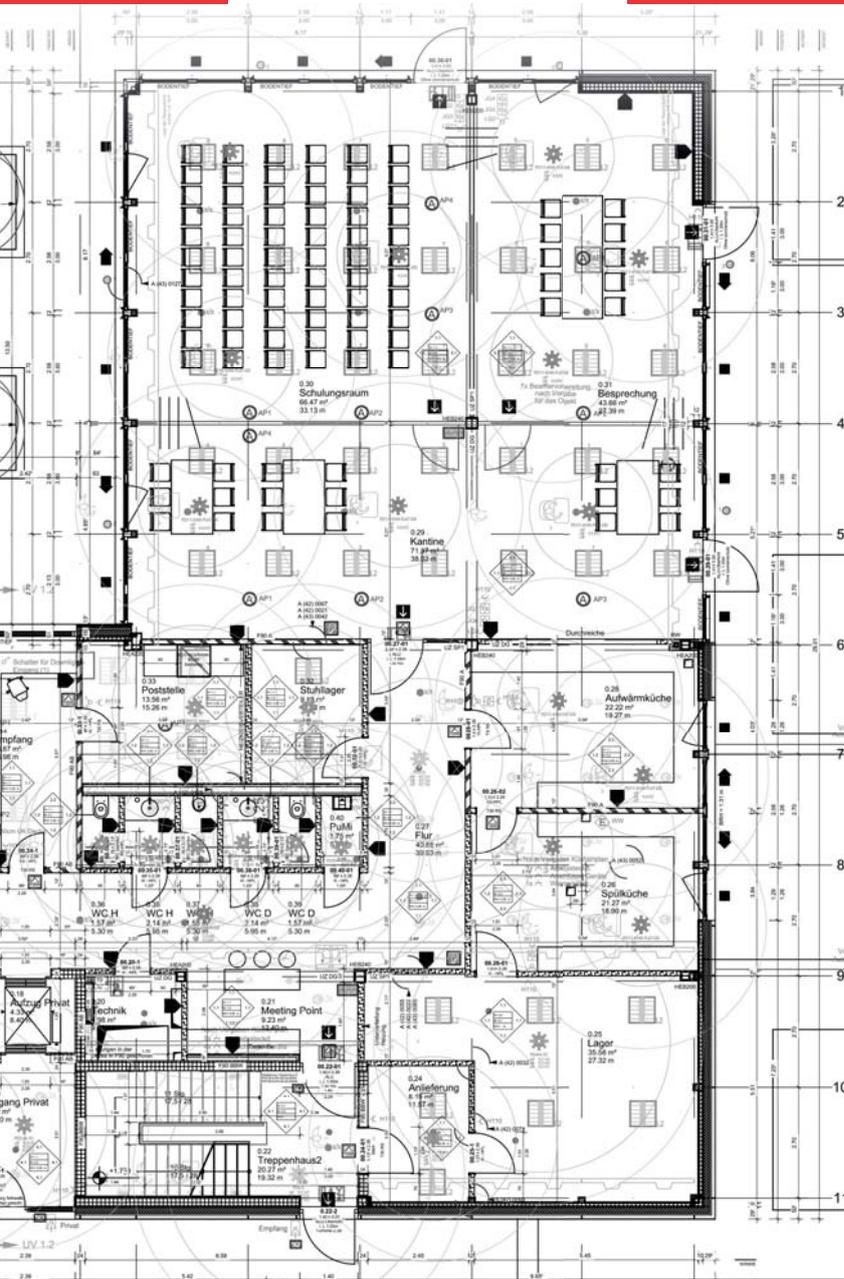
- Luminaires and spotlights with high-performance motion detectors are optimised for time-efficient and simple fitting. Detectors are individually adjustable for optimum setup of the detection area, so that for example the street is not covered when installation is on the outside of a property.
- Motion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



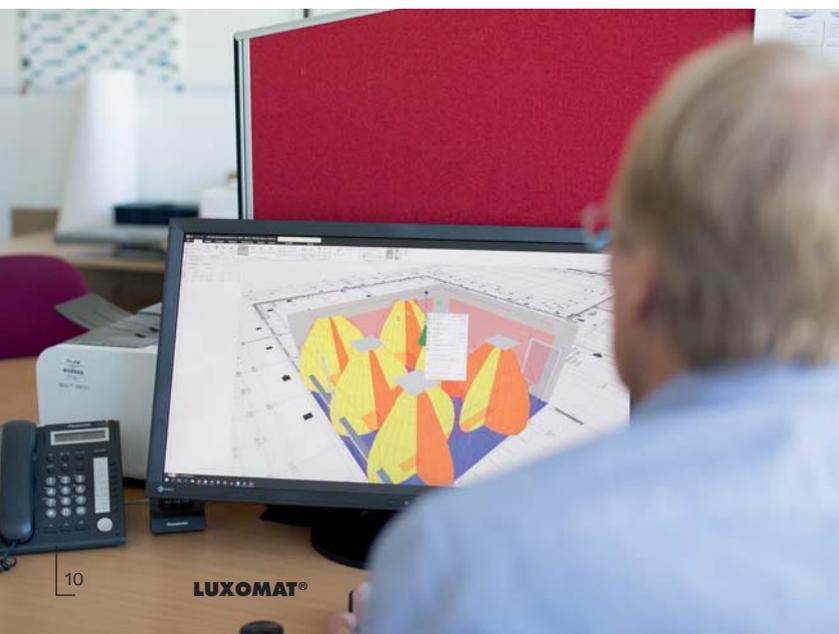
## Design support



### 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

Motion detector	Page	Part number	Wall mounting	Ceiling mounting	Outdoor corner mounting	Motion detection	Remote controlcapable	Range	Detection angle
RC-plus next N 130	13	93321 – white 93324 – brown 93323 – black	■	■	□	■	■	20 m	130°
RC-plus next N 230	14	93331 – white 93334 – brown 93333 – black 93346 – silver	■	■	□	■	■	20 m	230°
RC-plus next N 280	15	93341 – white 93344 – brown 93343 – black	■	■	■	■	■	20 m	280°
LC-plus 280	16	91008 – white 91018 – brown 91028 – black 91048 – silver	■	–	■	■	■	16 m	280°
LC-Click-N 140	17	93041 – white 93051 – brown 93061 – black	■	–	–	■	–	12 m	140°
LC-Click-N 200	18	93042 – white 93052 – brown 93062 – black	■	–	–	■	–	12 m	200°
LC-Mini 120	19	91051 – white 91071 – black	■	–	–	■	–	10 m	120°
LC-Mini 180	20	91052 – white 91072 – black	■	–	–	■	–	10 m	180°

□ Accessory required

## RC-plus next N – The premium class

### Mounting types



### 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



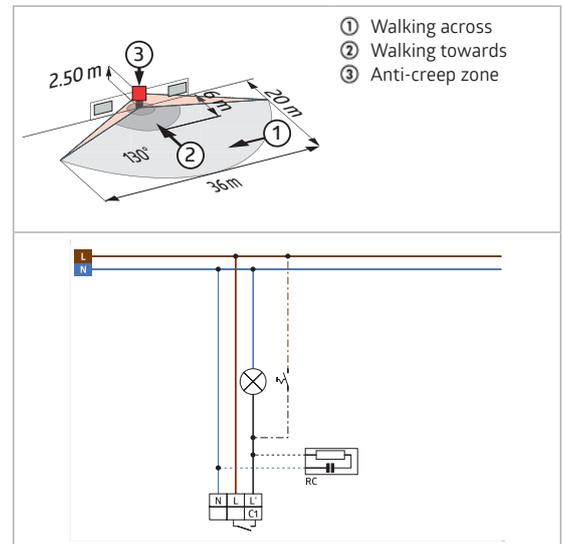
Cable entry from above, below or behind



## Outdoor motion detectors

### Product and accessory

Description	Colour	Part number
RC-plus next N 130	white	93321
RC-plus next N 130	black	93323
RC-plus next N 130	brown	93324
IR-Adapter for Smartphones	black	92726
IR-RC	-	92000
IR-RC-LD	-	92649
IR-RC-Mini	-	92090
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Inside corner socket RC-plus next	white	97005



### 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

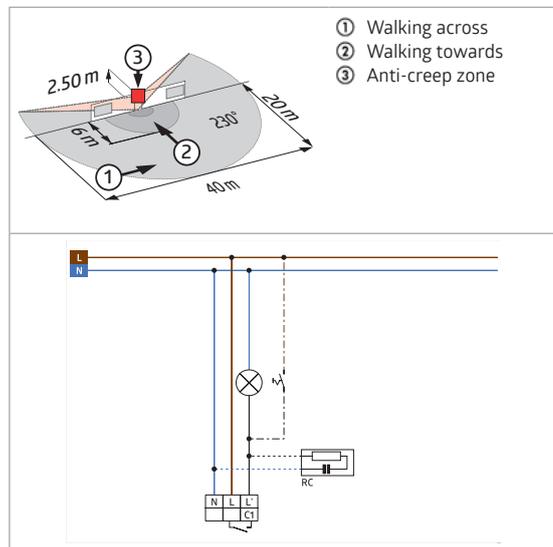
### Technical Data

- ⌚ 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush  
current I<sub>p</sub> (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

Description	Colour	Part number
RC-plus next N 230	white	93331
RC-plus next N 230	black	93333
RC-plus next N 230	brown	93334
RC-plus next N 230	silver	93346
IR-Adapter for Smartphones	black	92726
IR-RC	-	92000
IR-RC-LD	-	92649
IR-RC-Mini	-	92090
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Inside corner socket RC-plus next	white	97005



## 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

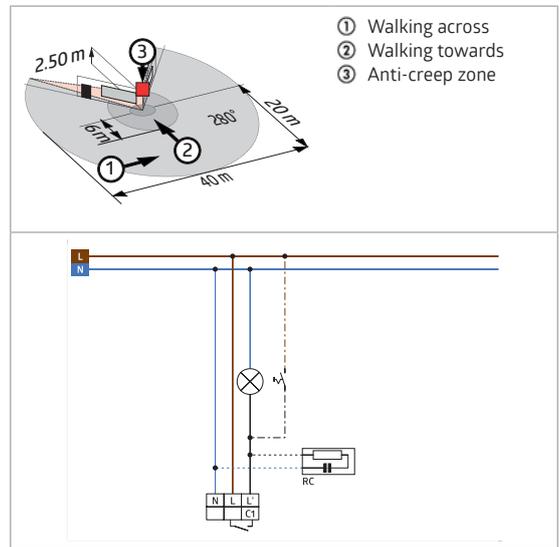
## Technical Data

- ⌚ 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
RC-plus next N 280	white	93341
RC-plus next N 280	black	93343
RC-plus next N 280	brown	93344
IR-Adapter for Smartphones	black	92726
IR-RC	-	92000
IR-RC-LD	-	92649
IR-RC-Mini	-	92090
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Inside corner socket RC-plus next	white	97005



## 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

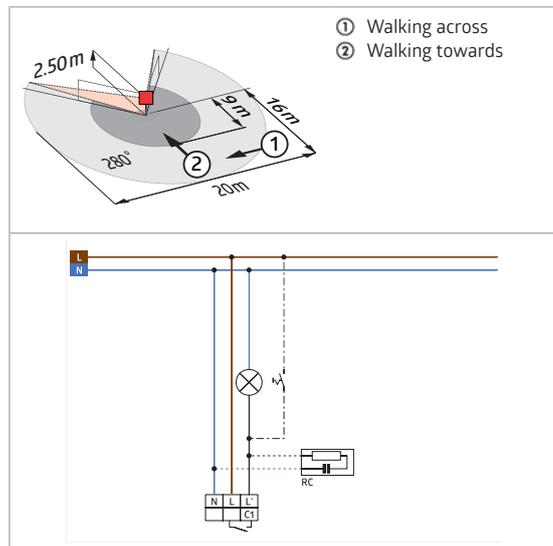
## Technical Data

- ⌚ 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
LC-plus 280	white	91008
LC-plus 280	brown	91018
LC-plus 280	black	91028
LC-plus 280	silver	91048
IR-Adapter for Smartphones	black	92726
IR-LC-plus	-	92095
IR-LC-Mini	-	92093
Wire basket BSK (Ø 164 x 143 mm)	white	92467



## 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

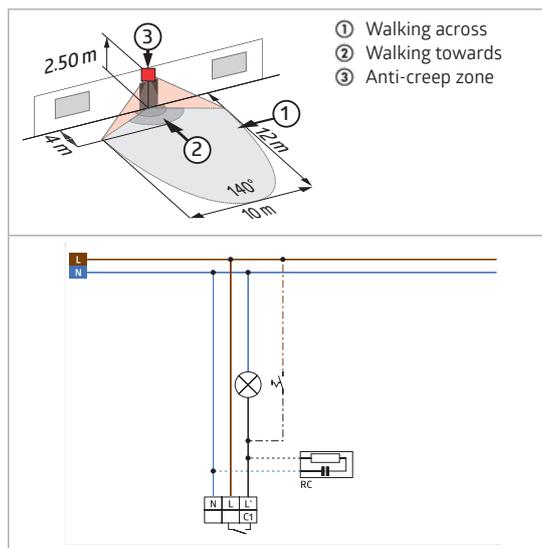
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- 📏 110 × 68 × 78 mm
- ⚡ approx. 0.24 W
- 📐 horizontal 280°
- 🏠 max. 16 m across; max. 9 m towards
- 📐 313 m<sup>2</sup> / 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

Description	Colour	Part number
LC-Click-N 140 UK 2.000 W	white	93041
LC-Click-N 140 UK 2.000 W	brown	93051
LC-Click-N 140 UK 2.000 W	black	93061
Wire basket BSK (Ø 164 x 143 mm)	white	92467



### 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

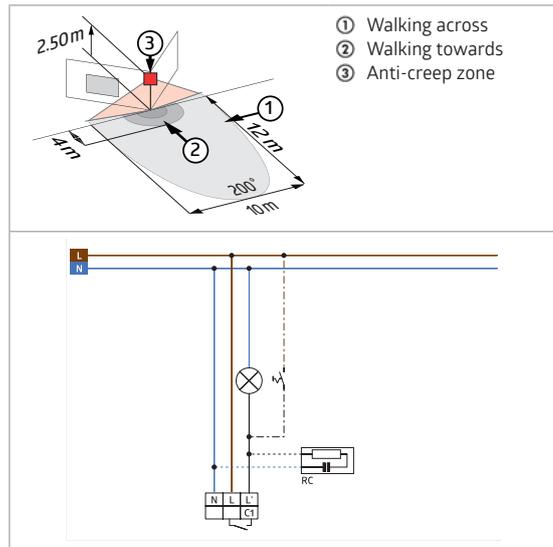
### Technical Data

- ⊖ 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 m<sup>2</sup> / 2.5 m mounting height
- ⊕ 2 m / 3 m / 2.5 m
- IP 54 / 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

Description	Colour	Part number
LC-Click-N 200 UK 2.000 W	white	93042
LC-Click-N 200 UK 2.000 W	brown	93052
LC-Click-N 200 UK 2.000 W	black	93062
Wire basket BSK (Ø 164 x 143 mm)	white	92467



## 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

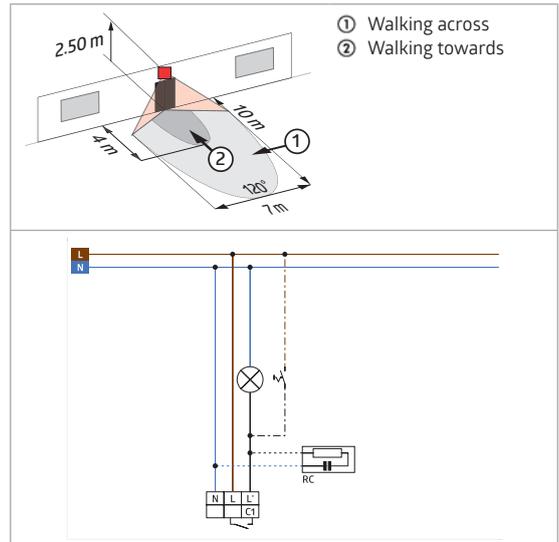
## Technical Data

- ⌚ 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 m<sup>2</sup> / 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

Description	Colour	Part number
LC-Mini 120	white	91051
LC-Mini 120	black	91071
Wire basket BSK (Ø 164 x 143 mm)	white	92467



## Product Information

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

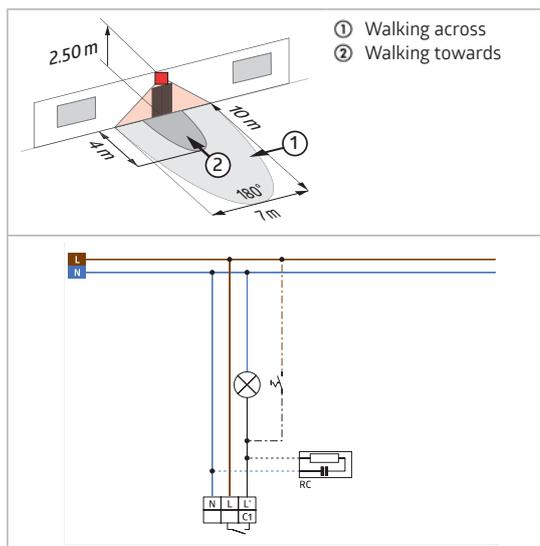
## Technical Data

- ⌚ 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

# Outdoor motion detectors

## Product and accessory

Description	Colour	Part number
LC-Mini 180	white	91052
LC-Mini 180	black	91072
LC-Mini 180	silver	91065
Wire basket BSK (Ø 164 x 143 mm)	white	92467



## 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 m<sup>2</sup> / 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

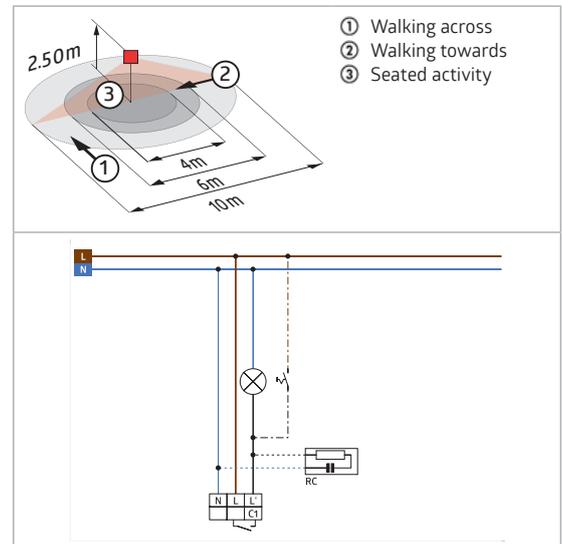
### Switching with 1 or 2-channel motion detectors with simple light measurement

Motion detector	Page				Simple light measurement	Motion detection	Remote control-capable	Range	Additional function
PD3N-1C	23	92190	92196	92186	▪	▪	▪	Ø 10 m	-
PD3N-1C Micro	24	92219	92184	-	▪	▪	▪	Ø 10 m	with acoustic sensor
PD3N-1C-NO-PF	25	-	92576	-	▪	▪	▪	Ø 10 m	-
PD4N-1C	26	92144	92149	92151	▪	▪	▪	Ø 24 m	-
PD4N-1C-C	27	92270	92274	-	▪	▪	▪	max. Ø 40 m	corridor detectors
PD9-1C	28	-	92902	-	▪	▪	-	Ø 10 m	mini detector
PD9-1C-GH	29	-	92934	-	▪	▪	-	Ø 3,5 m	large mounting height
PD9-DIGI	30	-	92917	-	-	▪	-	Ø 3 m	Installation in light fittings
PD3N-2C	31	-	92198	92188	▪	▪	▪	Ø 10 m	-
PD3-MIC-2C	32	-	96510	-	▪	▪	-	Ø 10 m	-
PD9-1C-12-48 V	33	-	92985	-	▪	▪	-	Ø 10 m	12-48 V

## Ceiling-mounted motion detectors

## Product and accessory

Description	Colour	Part number
PD3N-1C-SM	white	92190
PD3N-1C-FM	white	92186
PD3N-1C-FC	white	92196
IR-Adapter for Smartphones	black	92726
IR-PD3/4N-1C-E	-	93110
IR-PD3N	-	92105
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Square design frame PD3N-FC	white mat, similar to RAL 9010	92991



## 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

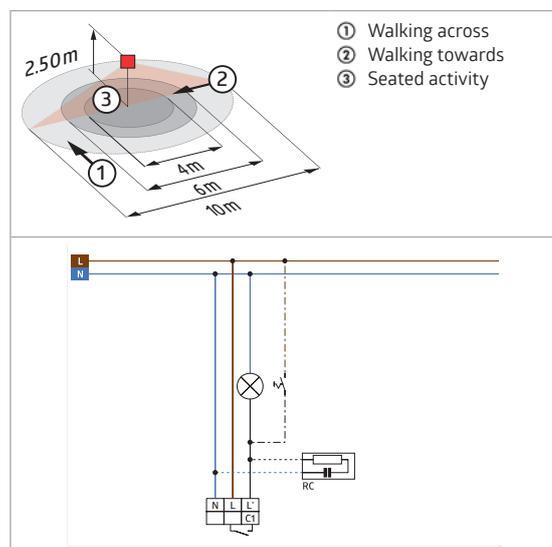
## Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 106 × 53 mm
- 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 m<sup>2</sup> / 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<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux

## Ceiling-mounted motion detectors

## Product and accessory

Description	Colour	Part number
PD3N-1C-FC Micro	white	92184
PD3N-1C-SM Micro	white	92219
IR-Adapter for Smartphones	black	92726
IR-PD3N	-	92105
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Square design frame PD3N-FC	white mat, similar to RAL 9010	92991



## 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

- ⌚ 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush  
current I<sub>p</sub> (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

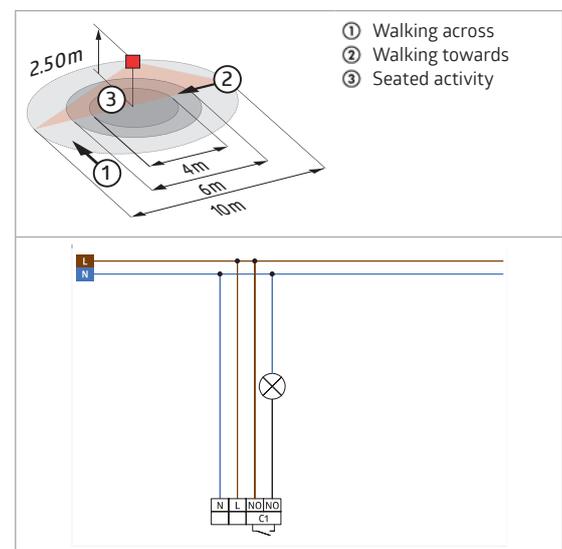
## Product and accessory

Description	Colour	Part number
PD3N-1C-NO-PF-FC	white	92576
IR-Adapter for Smartphones	black	92726
IR-PD3/4N-1C-E	-	93110
IR-PD3N	-	92105
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Square design frame PD3N-FC	white mat, similar to RAL 9010	92991



## 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.



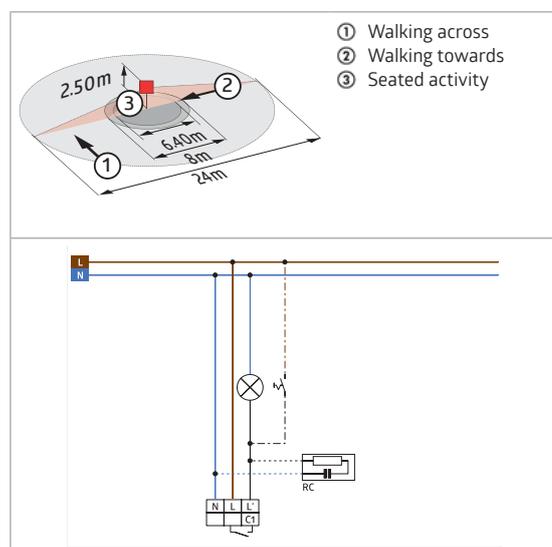
## Technical Data

- ⊖ 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  $I_p$  (20 ms) = 165 A; max. inrush current  $I_p$  (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

Description	Colour	Part number
PD4N-1C-FC	white	92149
PD4N-1C-SM	white	92144
PD4N-1C-FM	white	92151
IR-Adapter for Smartphones	black	92726
IR-PD3N	-	92105
IR-PD3/4N-1C-E	-	93110
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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

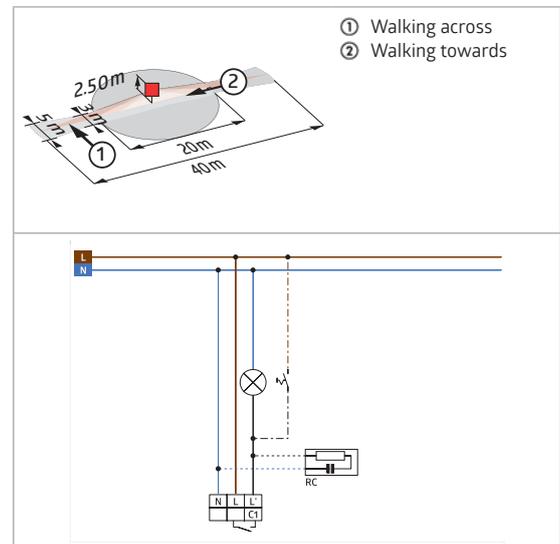
## Technical Data

- ⊖ 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush  
current I<sub>p</sub> (200 μs) = 800 A
- 🔌 1x μ-contact, NO contact with tungsten pre-make  
contact
- 🕒 15 sec – 30 min, Pulse
- ☀ 10 – 2000 Lux

## Ceiling-mounted motion detectors

## Product and accessory

Description	Colour	Part number
PD4N-1C-C-SM	white	92270
PD4N-1C-C-FC	white	92274
IR-Adapter for Smartphones	black	92726
IR-PD3N	-	92105
IR-PD3/4N-1C-E	-	93110
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Wall holder PD4-SM	white	92441



## 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A
- 🔌 1x μ-contact, NO contact with tungsten pre-make contact
- 🕒 15 sec – 30 min, Pulse
- ☀️ 10 – 2000 Lux

# Ceiling-mounted motion detectors

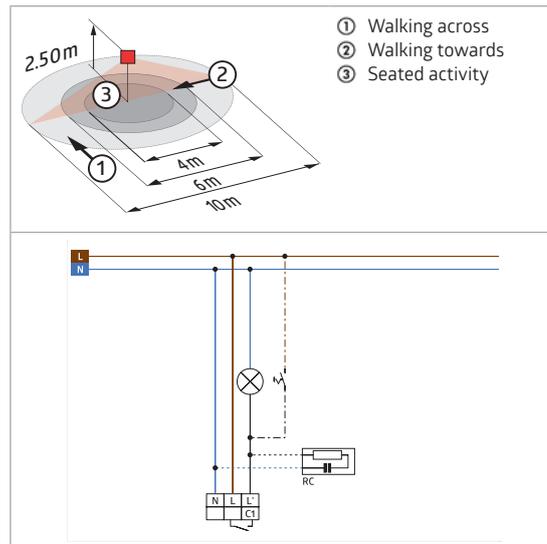
## Product and accessory

Description	Colour	Part number
PD9-1C-FC	white	92902
Cover PD9 IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

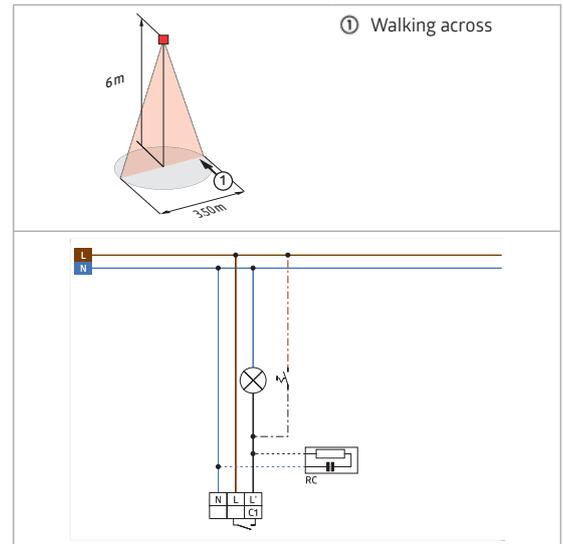
## Product and accessory

Description	Colour	Part number
PD9-1C-GH-FC	white	92934
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

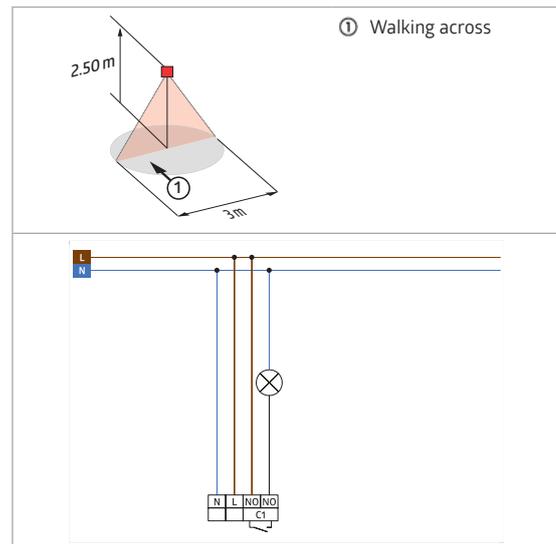
## Product and accessory

Description	Colour	Part number
PD9-DIGI	-	92917



## 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:  $\varnothing 11 \times 3$  mm



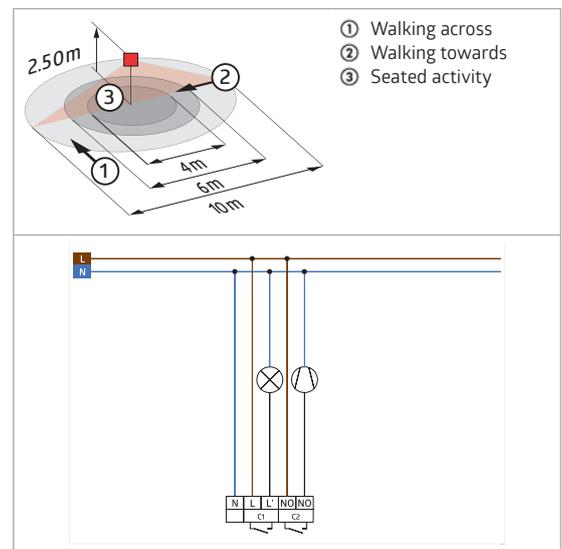
## Technical Data

- ⌚ 230 V AC  $\pm 10\%$  50 / 60 Hz
- 📏 Sensor head:  $\varnothing 18 \times 26$  mm, Power supply:  $154 \times 40 \times 30$  mm
- 🔌 approx. 1.6 W
- 📐 vertical  $360^\circ$
- 📏 max.  $\varnothing 3$  m across
- 📏  $7 \text{ m}^2 / 2.5 \text{ m}$  mounting height
- 📏  $2 \text{ m} / 3 \text{ m} / 2.5 \text{ m}$
- 📏 IP20 / Class II
- 🌡️  $-25^\circ \text{C}$  to  $+50^\circ \text{C}$
- 📏 Polycarbonate, UV-resistant
- 📏 45 cm
- Channel 1 (lighting control, potential-free (dry))**
- ⚡  $1000 \text{ W}$ ,  $\cos \varphi = 1$ ;  $500 \text{ VA}$ ,  $\cos \varphi = 0.5$ ;  $300 \text{ W LED}$   
1x  $\mu$ -contact, dry NO contact with tungsten pre-make contact
- 🕒 30 sec – 30 min, Pulse

## Ceiling-mounted motion detectors

## Product and accessory

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



## 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush  
current I<sub>p</sub> (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

## Ceiling-mounted motion detectors

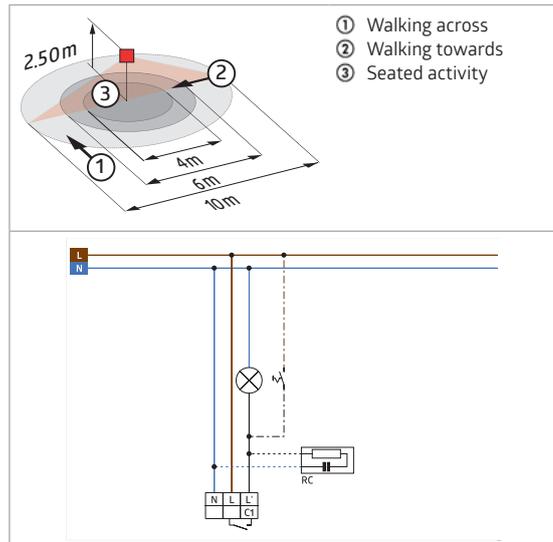
## Product and accessory

Description	Colour	Part number
PD3-MIC-2C-FC	white	96510
Cover IP23	white	92206



## 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



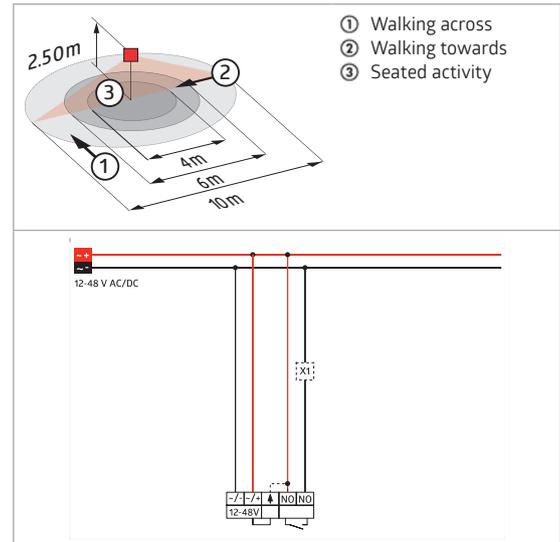
## Technical Data

- ⊖ 230 V AC +/- 10%
- ⊓ FC= Ø 84 x 80 mm
- ⏻ < 1 W
- 📐 vertical 360°
- ⚠ max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 📏 79 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

## Ceiling-mounted motion detectors

### Product and accessory

Description	Colour	Part number
PD9-1C-12-48V-FC	white	92985
Cover PD9 IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



### 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  $\varnothing$ )
- 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:  $\varnothing$  45 x 37 mm, Power supply: 165 x 24 x 24 mm
- ⌚ < 0.25 W
- ⌚ vertical 360°
- ⌚ max.  $\varnothing$  10 m across; max.  $\varnothing$  6 m towards; max.  $\varnothing$  4 m seated
- ⌚ 79 m<sup>2</sup> / 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,  $\cos \varphi = 1$ ; 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, dry NO contact with tungsten pre-make contact
- ⌚ 30 sec - 30 min, Pulse
- ⌚ 10 - 2000 Lux

Compact.  
Obviously.



## 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

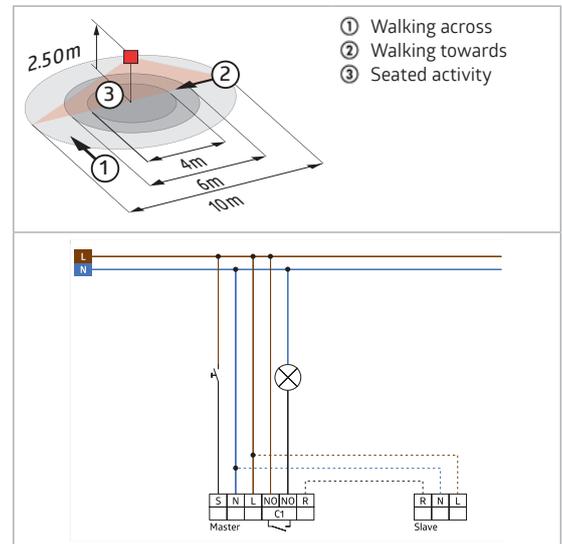
### Switching with 1 or 2-channel Master with daylight evaluation

Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2-M-1C	37	92550	92565	92555	▪	▪	▪	Ø 10 m	-
PD4-M-1C	38	92580	92585	92575	▪	▪	▪	Ø 24 m	-
PD4-M-1C-C	39	92587	92586	-	▪	▪	▪	Ø 40 m	-
PD4-M-1C-C-PS	40	92485	92480	-	▪	▪	▪	Ø 24 m	additional security contact
PD4-M-TRIO-C-3P	41	-	92746	-	▪	▪	▪	Ø 40 m	-
PD4-M-1C-GH	42	92245	-	-	▪	▪	▪	Ø 30 m	large mounting height
PD9-M-1C	43	-	92900	-	▪	▪	▪	Ø 10 m	mini detector
PD9-M-1C-GH	44	-	92923	-	▪	▪	▪	Ø 6 m	large mounting height
PD9-M-1C-SDB-IP65	45	-	92912 – white 92913 – silver	-	▪	▪	▪	Ø 10 m	mini detector
PD9-M-1C-SDB-IP65-GH	46	-	92931 – white 92932 – silver	-	▪	▪	▪	Ø 10 m	mini detector large mounting height
PICO-N-M-1C	47	-	93159	-	▪	▪	▪	Ø 10 m	IP65
PD11-M-1C-FLAT	48	-	92583	-	▪	▪	▪	Ø 9 m	super flat
PD2N-M-1C-LED	49	-	94055	-	▪	▪	▪	Ø 10 m	LED light
PD2-M-2C	50	92150	92165	92155	▪	▪	▪	Ø 10 m	-
PD4-M-2C	51	92140	92148	92255	▪	▪	▪	Ø 24 m	-
PD4-M-2C-C	52	92440	92143	92443	▪	▪	▪	max. Ø 40 m	corridor detector
PD4-M-2C-DS	53	-	92760	-	▪	▪	▪	Ø 24 m	-
PD9-M-2C	54	-	92976	-	▪	▪	▪	Ø 10 m	with HVAC channel
PD4-M-2C-DUO	55	92158	92251	92252	▪	▪	▪	Ø 24 m	-
PD4-M-3C-TRIO	56	92740	92745	-	▪	▪	▪	Ø 24 m	-
PD2-M-2C-12-48V-3A	57	92154	92164	-	▪	▪	▪	Ø 10 m	3A version
PD2-M-2C-12-48V-RR	58	92305	92306	-	▪	▪	▪	Ø 10 m	with reed relay

## Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD2-M-1C-SM	white	92550
PD2-M-1C-FM	white	92555
PD2-M-1C-FC	white	92565
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161



## 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

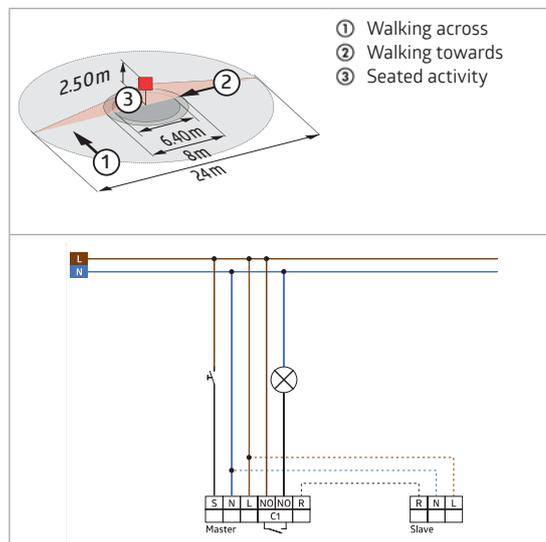
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- SM= Ø 98 x 47 mm
- FM= Ø 98 x 65 mm
- FC= Ø 80 x 85 mm
- ⏻ approx. 0.4 W
- 📐 vertical 360°
- 📏 max. Ø 10 m across; max. Ø 6 m towards;  
max. Ø 4 m seated
- 📏 79 m<sup>2</sup> / 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, potential-free (dry))**
- 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- ⚡ max. inrush current I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
PD4-M-1C-FM	white	92575
PD4-M-1C-SM	white	92580
PD4-M-1C-FC	white	92585
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161
Surface mounting socket (IP65) PD4-SM IP20	white	92375
Square design frame PD4-FC	pure white mat, similar to RAL 9010	92992



## Product Information

- 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

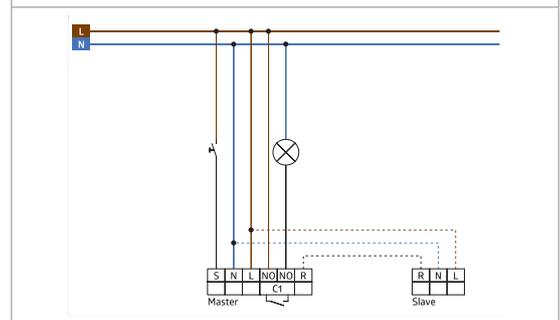
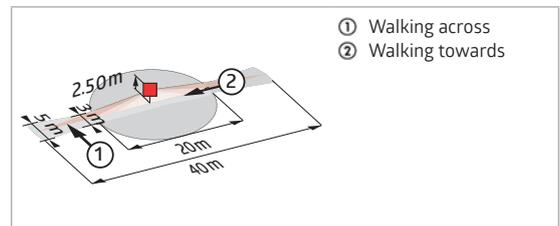
## Technical Data

- 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

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



## 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

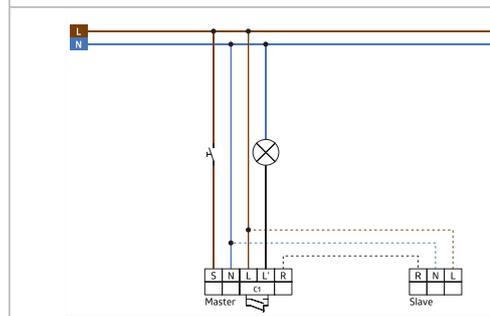
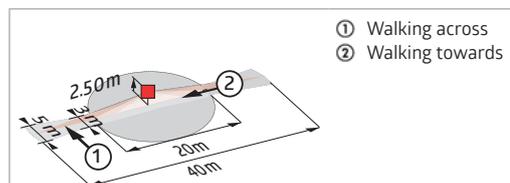
## Technical Data

- ⊖ 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
PD4-M-1C-C-PS-FC	white	92480
PD4-M-1C-C-PS-SM	white	92485
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Square design frame PD4-FC	pure white mat, similar to RAL 9010	92992



## 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

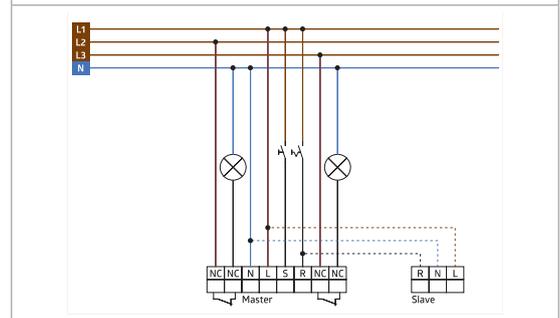
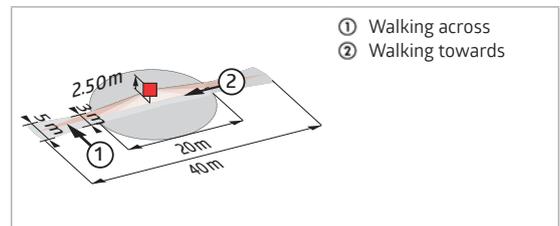
## Technical Data

- 110 – 240 V AC 50 / 60 Hz
- FC= Ø 97 × 103 mm  
SM= Ø 101 × 76 mm
- approx. 0.7 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 I<sub>p</sub> (20 ms) = 120 A
- 1x μ-contact, NO contact with tungsten pre-make contact, additional NC-safety contact
- 15 sec – 30 min, Pulse
- 10 – 2000 Lux
- Mixed light measuring

## Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD4-M-TRIO-C-3P-FC	white	92746
PD4-M-TRIO-C-3P-SM	white	92747
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Socket IP54 PD4-TRIO-SM	white	92386



## 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

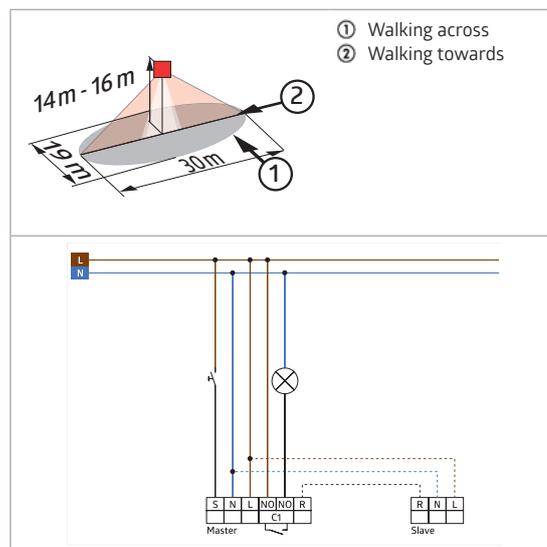
## Technical Data

- ⌚ 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 m<sup>2</sup> / 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

Description	Colour	Part number
PD4-M-1C-GH-SM	white	92245
IR-Adapter for Smartphones	black	92726
IR-PD-LD	-	92479
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Surface mounting socket (IP65) PD4-SM IP20	white	92375
SM socket IP54 PD2/PD4-SM	white	92161



### 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

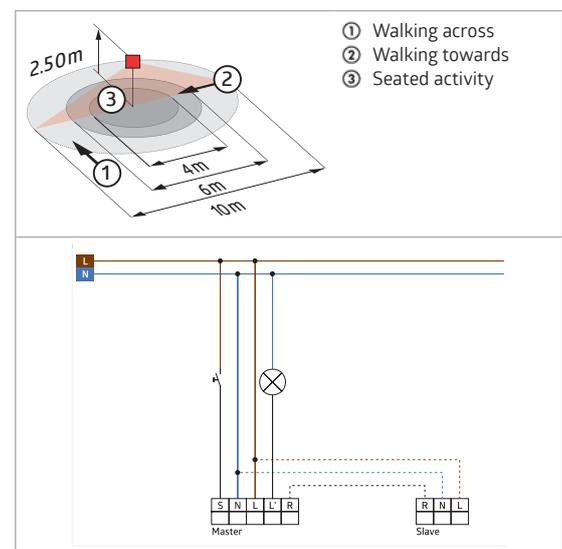
### Technical Data

- 110 – 240 V AC 50 / 60 Hz
- Ø 98 × 63 mm
- approx. 0.5 W
- vertical 360°
- 30 m × 19 m
- 450 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD9-M-1C-FC	white	92900
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159
Cover PD9 IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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

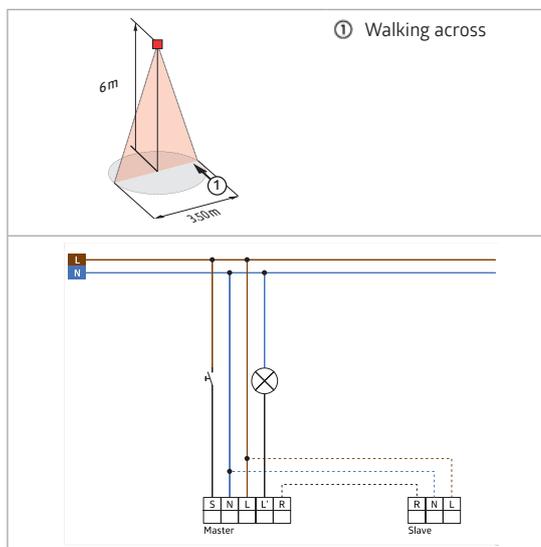
## Technical Data

- ⊖ 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

## Product and accessory

Description	Colour	Part number
PD9-M-1C-GH-FC	white	92923
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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

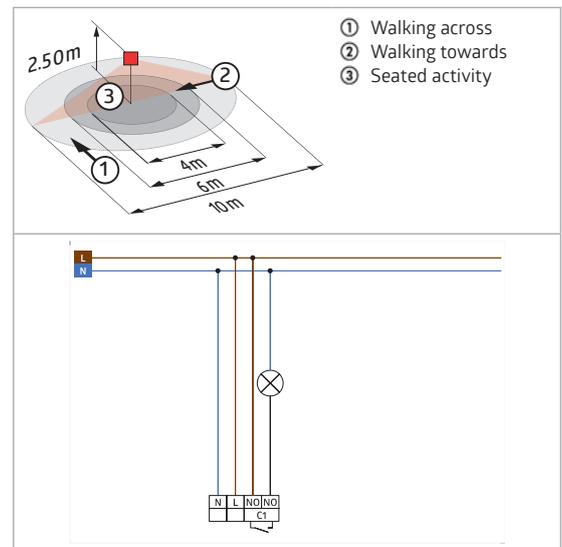
## Technical Data

- ⌚ 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

## Product and accessory

Description	Colour	Part number
PD9-M-1C-SDB-IP65-FC	white	92912
PD9-M-1C-SDB-IP65-FC	silver	92913
IR-Adapter for Smartphones	black	92726
IR-PD9	-	92201
IR-PD-Mini	-	92159
PD9-S-SDB-FC	white	92915



## 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

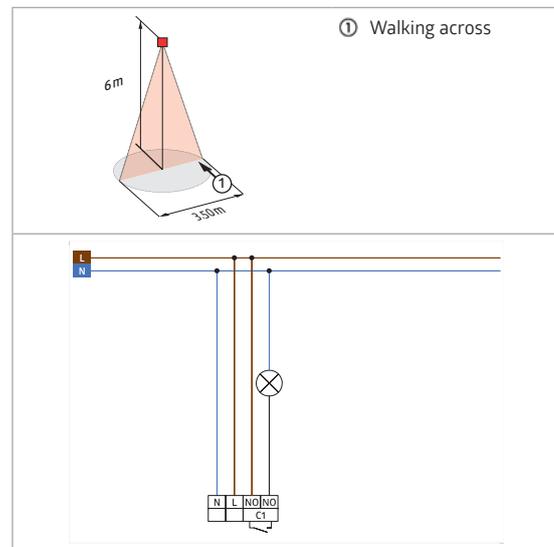
## Technical Data

- ⊖ 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 m<sup>2</sup> / 2.5 m mounting height
- 📏 2 m / 5 m / 2.5 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 I<sub>p</sub> (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

### Product and accessory

Description	Colour	Part number
PD9-M-1C-SDB-IP65-GH-FC	white	92931
PD9-M-1C-SDB-IP65-GH-FC	silver	92932
IR-Adapter for Smartphones	black	92726
IR-PD9	-	92201
IR-PD-Mini	-	92159
PD9-S-SDB-GH-FC	white	92933



### 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 $\pm 10\%$ 50 Hz
📏	Sensor head: $\varnothing 36 \times 40$ mm, Power supply: $154 \times 38 \times 25$ mm
🔌	2.2 W
📐	vertical $360^\circ$
📏	max. $\varnothing 3.5$ m across
📏	$10 \text{ m}^2 / 6 \text{ m}$ mounting height
📏	$5 \text{ m} / 10 \text{ m} / 6 \text{ m}$
📏	IP65 / Class III
🌡️	$-25^\circ \text{C}$ to $+50^\circ \text{C}$
📏	Polycarbonate, UV-resistant
📏	350 cm
	<b>Channel 1 (lighting control, potential-free (dry))</b>
📏	2300 W, $\cos \varphi = 1$ ; 1150 VA, $\cos \varphi = 0.5$ ; 300 W LED; max. inrush current $I_p$ (20 ms) = 80 A
📏	1x $\mu$ -contact, dry NO contact
🕒	15 sec – 30 min, Pulse
🕒	10 – 2000 Lux
🕒	Mixed light measuring

## Ceiling mounted occupancy detectors

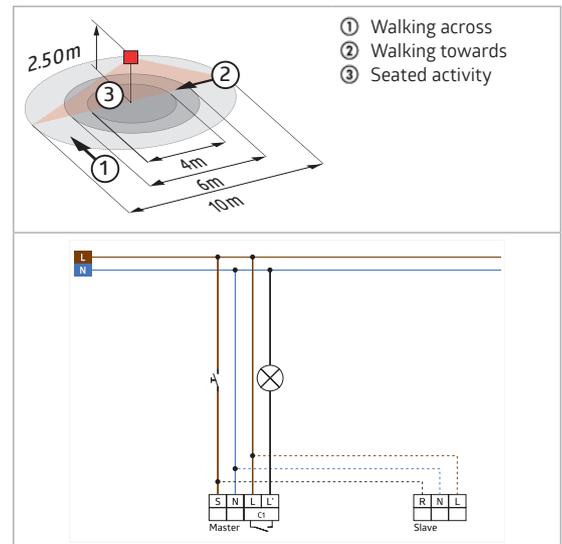
## Product and accessory

Description	Colour	Part number
PICO-N-M-1C-FC	white	93159
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159



## 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
- ⊘ 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 m<sup>2</sup> / 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

## Ceiling mounted occupancy detectors

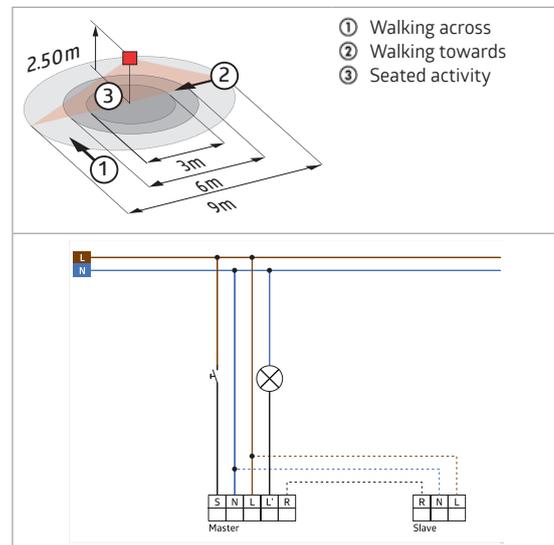
### Product and accessory

Description	Colour	Part number
PD11-M-1C-FLAT-FC	white	92583
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159
In-wall mounting set 1 / PD11	white	92832
In-wall mounting set 2 / PD11	white	92833
Cover ring PD11 Ø 52 mm	black	92537
Cover ring PD11 Ø 100 mm	white	92692
Square design frame PD11 FC	white mat, similar to RAL 9010	92994



### 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



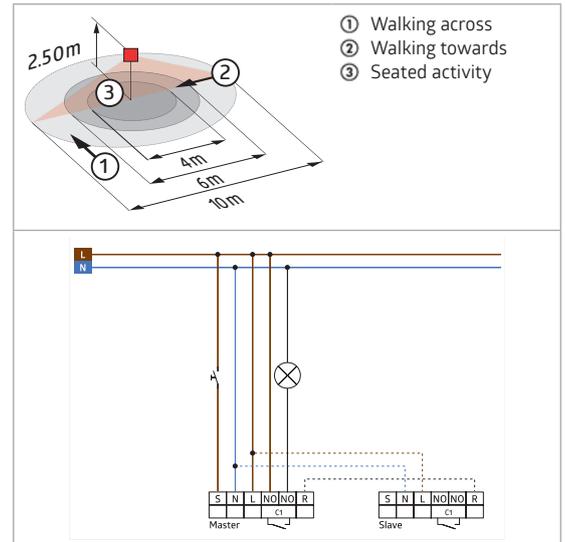
### Technical Data

- 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush  
current I<sub>p</sub> (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

## Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD2N-M-1C-LED-FC	white	94055
IR-Adapter for Smartphones	black	92726
IR-PD-Mini	-	92159



## 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

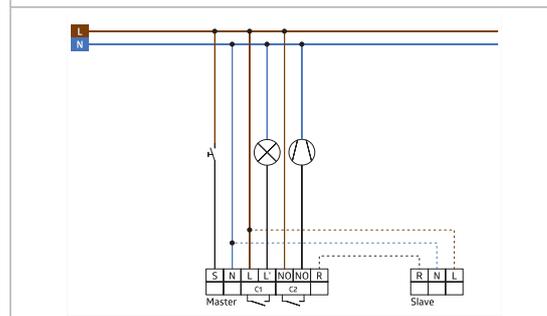
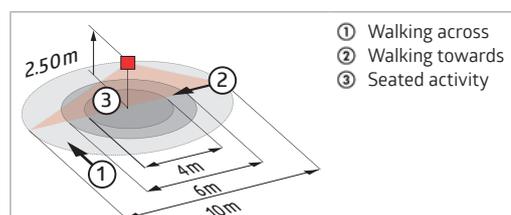
## Technical Data

- 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD2-M-2C-SM	white	92150
PD2-M-2C-FM	white	92155
PD2-M-2C-FC	white	92165
IR-Adapter for Smartphones	black	92726
IR-PD-2C	-	92475
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161



## 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

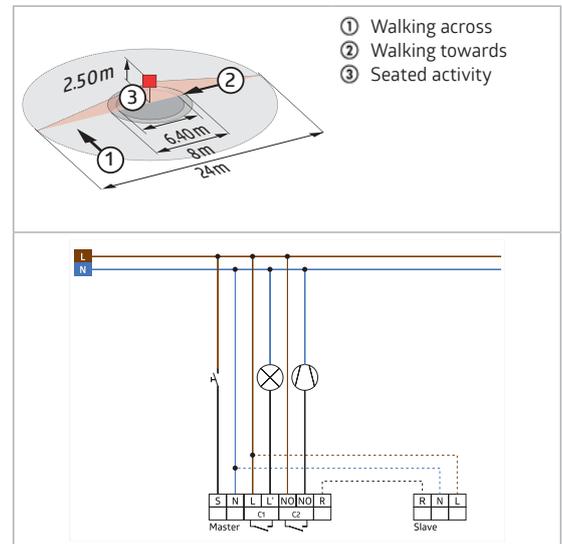
## Technical Data

- 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
PD4-M-2C-SM	white	92140
PD4-M-2C-FC	white	92148
PD4-M-2C-FM	white	92255
IR-Adapter for Smartphones	black	92726
IR-PD-2C	-	92475
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Surface mounting socket (IP65) PD4-SM IP54	white	92376
Square design frame PD4-FC	pure white mat, similar to RAL 9010	92992



## 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

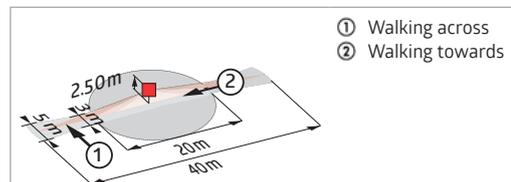
## Technical Data

- 110 - 240 V AC 50 / 60 Hz
- SM= Ø 101 x 76 mm
- FC= Ø 97 x 103 mm
- FM= Ø 104 x 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

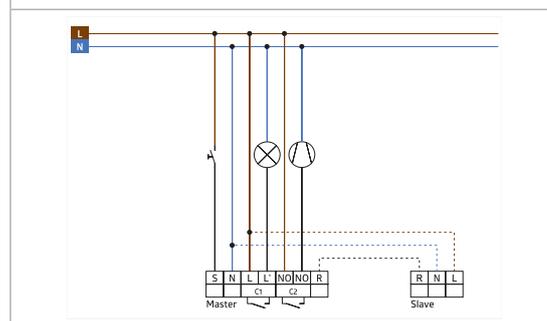
# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD4-M-2C-C-FC	white	92143
PD4-M-2C-C-SM	white	92440
PD4-M-2C-C-FM	white	92443
IR-Adapter for Smartphones	black	92726
IR-PD-2C	-	92475
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Surface mounting socket (IP65) PD4-SM IP54	white	92376
Wall holder PD4-SM	white	92441
Square design frame PD4-FC	pure white mat, similar to RAL 9010	92992



- ① Walking across
- ② Walking towards



## 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 m<sup>2</sup> / 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 φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;
- max. inrush current I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

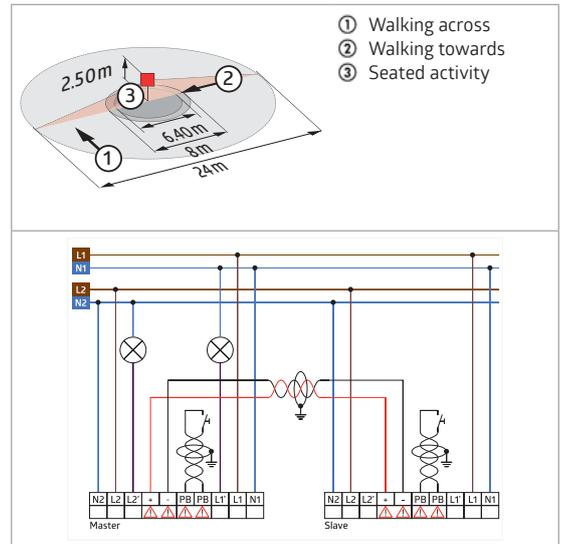
## Product and accessory

Description	Colour	Part number
PD4-M-2C-DS-FC	white	92760
IR-Adapter for Smartphones	black	92726
IR-PD-1C	-	92520
IR-PD-1C-E	-	92077
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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



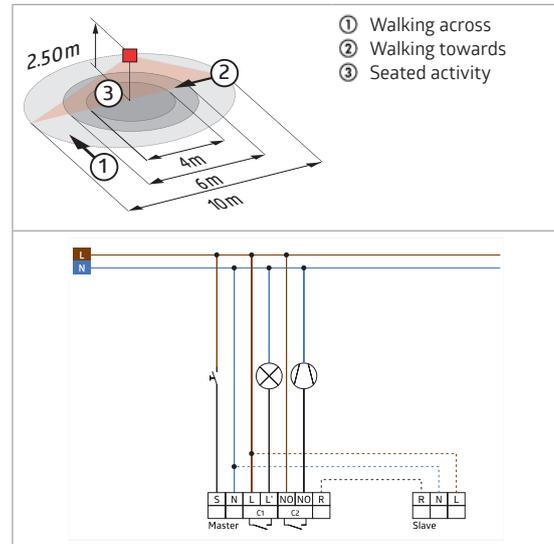
## Technical Data

- 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush  
current I<sub>p</sub> (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

## Product and accessory

Description	Colour	Part number
PD9-M-2C-FC	white	92976
IR-Adapter for Smartphones	black	92726
IR-PD-2C	-	92475
IR-PD-Mini	-	92159
Cover PD9 IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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)**
- 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)

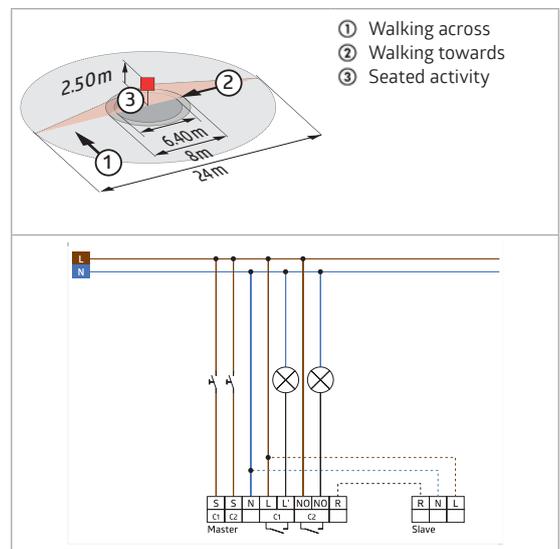
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- 📏 Sensor head: Ø 45 × 28 mm, Power supply: 165 × 24 × 24 mm
- ⚡ approx. 0.6 W
- 📐 vertical 360°
- 📏 max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- 📏 79 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

## Product and accessory

Description	Colour	Part number
PD4-M-2C-DUO-SM	white	92158
PD4-M-2C-DUO-FC	white	92251
PD4-M-2C-DUO-FM	white	92252
IR-Adapter for Smartphones	black	92726
IR-PD-DUO	-	92092
IR-PD-DUO-3	-	92118
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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

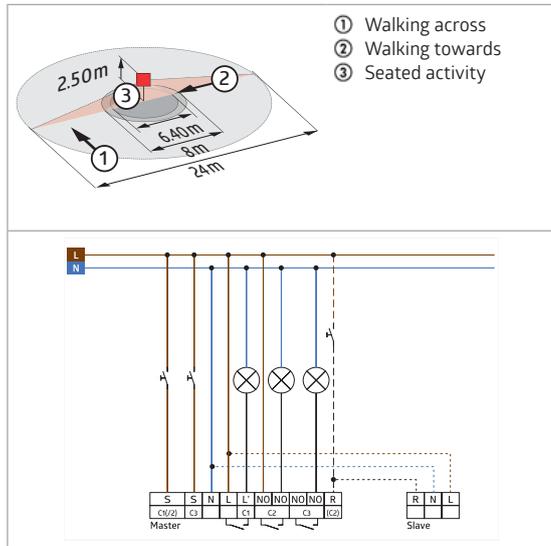
## Technical Data

- 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A
- 1x μ-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
- 1x μ-contact, dry NO contact with tungsten pre-make contact
- Mixed light or daylight measuring

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD4-M-3C-TRIO-SM	white	92740
PD4-M-3C-TRIO-FC	white	92745
IR-Adapter for Smartphones	black	92726
IR-PD4-TRIO-3C	-	92851
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Socket IP54 PD4-TRIO-SM	white	92386



## 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

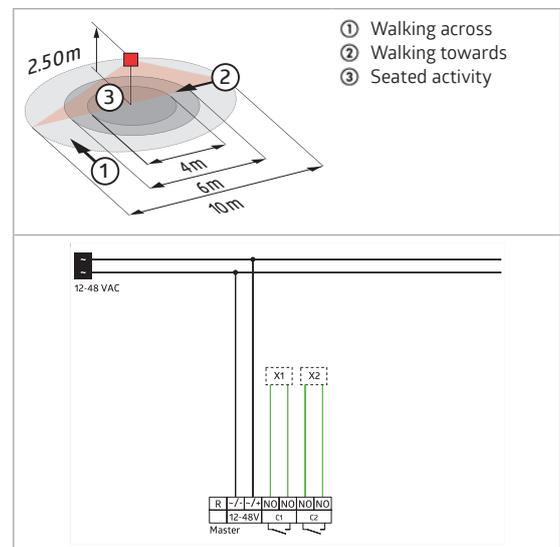
## Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 124 x 85 mm
- FC= Ø 117 x 100 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= IP20 / Class II
- FC= IP20 / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A  
1x μ-contact, NO contact with tungsten pre-make contact
- 10 – 2000 Lux
- Channel 2 (lighting control potential-free (dry))**  
Switch-on threshold: 10 – 2000 Lux  
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  
1500 VA, cos φ = 0.5  
300 W LED  
max. inrush current I<sub>p</sub> (20ms) = 120 A  
Type of contact: 1x μ-contact, dry NO contact
- Channel 1 to channel 3**  
1 min – 90 min  
Mixed light measuring

## Ceiling mounted occupancy detectors

### Product and accessory

Description	Colour	Part number
PD2-M-2C-12-48V-3A-SM	white	92154
PD2-M-2C-12-48V-3A-FC	white	92164
IR-Adapter for Smartphones	black	92726
IR-PD-2C	-	92475
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161



### 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](http://www.beg-luxomat.com)**
- Factory settings 10 min and 500 lux (15 min HVAC)

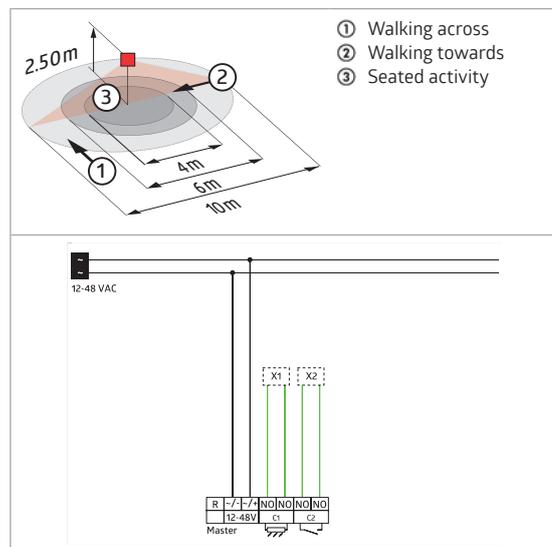
### Technical Data

- 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 m<sup>2</sup> / 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

## Ceiling mounted occupancy detectors

### Product and accessory

Description	Colour	Part number
PD2-M-2C-12-48V-RR-SM	white	92305
PD2-M-2C-12-48V-RR-FC	white	92306
IR-Adapter for Smartphones	black	92726
IR-PD-2C	-	92475
IR-PD-Mini	-	92159
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161



### 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](http://www.beg-luxomat.com)**
- Factory settings 10 min and 500 lux (15 min HVAC)

### Technical Data

- 12 – 48 V AC / DC
- SM= Ø 98 x 47 mm  
FC= Ø 80 x 85 mm
- < 1 W
- vertical 360°
- max. Ø 10 m across; max. Ø 6 m towards;  
max. Ø 4 m seated
- 79 m<sup>2</sup> / 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



# LUXOMAT® Occupancy detectors for lighting control

## 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

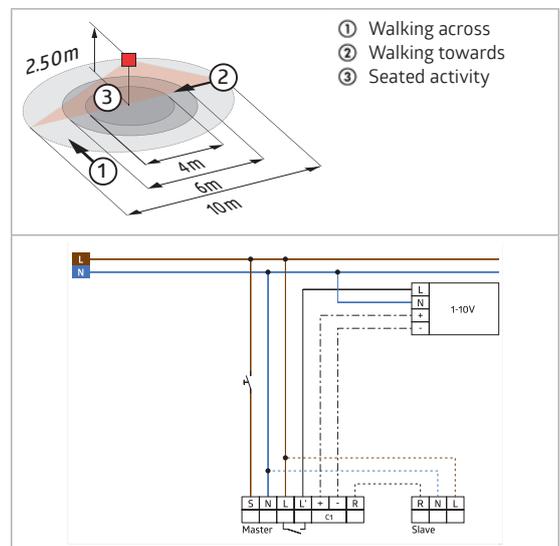
### Dimming with 1 or 2-channel Master with daylight evaluation

Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2-M-DIM	61	92153	92167	92157	▪	▪	▪	Ø 10 m	-
PD4-M-DIM	62	92147	92247	92248	▪	▪	▪	Ø 24 m	-
PD4-M-DIM-C	63	92218	92217	-	▪	▪	▪	max. Ø 40 m	corridor detector
PD9-M-DIM	64	-	92910	-	▪	▪	▪	Ø 10 m	mini detector
PD9-M-DIM-GH	65	-	92924	-	▪	▪	▪	Ø 6 m	large mounting height
PD4-M-DUO-DIM	66	92271	92272	92273	▪	▪	▪	Ø 24 m	-
PD4-M-TRIO-DIM	67	92730	92735	-	▪	▪	▪	Ø 24 m	-
PD4-M-DIM-HVAC-3A	68	-	92507	-	▪	▪	▪	Ø 24 m	with HVAC channel
PD4-M-DIM-HVAC-16A	69	-	92547	-	▪	▪	▪	Ø 24 m	with HVAC channel
PD9-M-DIM-HVAC	70	-	92973	-	▪	▪	▪	max. Ø 10 m	with HVAC channel

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD2-M-DIM-SM	white	92153
PD2-M-DIM-FM	white	92157
PD2-M-DIM-FC	white	92167
IR-Adapter for Smartphones	black	92726
IR-PDim	-	92200
IR-PD-DIM-Mini	-	92098
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161



## 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 m<sup>2</sup> / 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 – 2000 Lux
- Mixed light measuring

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD4-M-DIM-SM	white	92147
PD4-M-DIM-FC	white	92247
PD4-M-DIM-FM	white	92248
IR-Adapter for Smartphones	black	92726
IR-PDim	-	92200
IR-PD-DIM-Mini	-	92098
Wire basket BSK (Ø 200 x 90 mm)	white	92199



- ① Walking across
- ② Walking towards
- ③ Seated activity

## 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

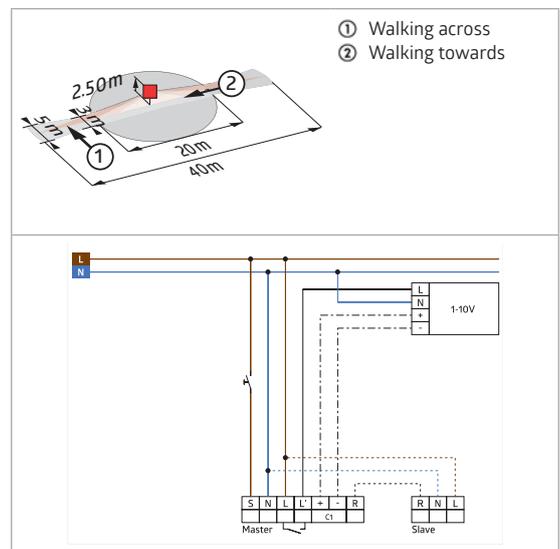
## Technical Data

- ⌚ 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
PD4-M-DIM-C-FC	white	92217
PD4-M-DIM-C-SM	white	92218
IR-Adapter for Smartphones	black	92726
IR-PDim	-	92200
IR-PD-DIM-Mini	-	92098
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Wall holder PD4-SM	white	92441



## 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

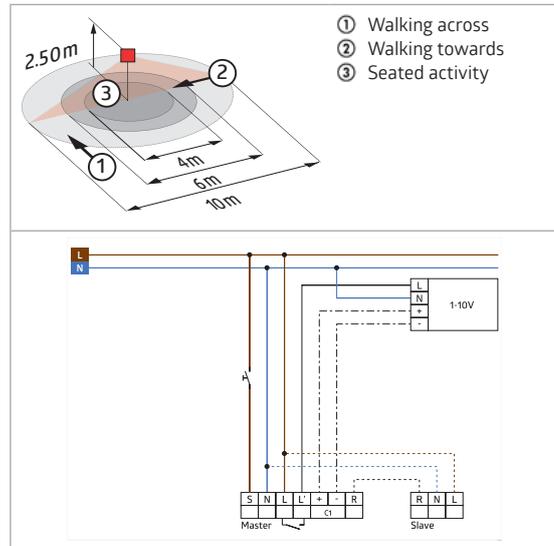
## Technical Data

- 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
PD9-M-DIM-FC	white	92910
IR-Adapter for Smartphones	black	92726
IR-PDim	-	92200
IR-PD-DIM-Mini	-	92098
Cover IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A
- 🔌 1x μ-contact, NO contact with tungsten pre-make contact
- ⏱ DIM 1-10 V DC, up to 50 ballasts
- 🕒 1 min – 30 min
- 📏 10 – 2000 Lux
- 📏 Mixed light measuring

## Ceiling mounted occupancy detectors

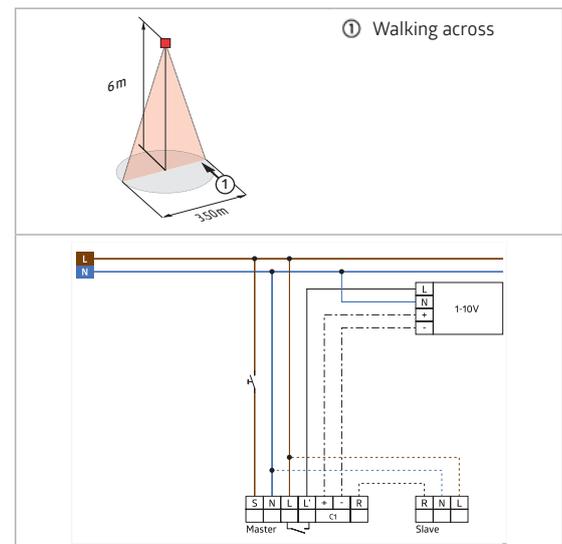
### Product and accessory

Description	Colour	Part number
PD9-M-DIM-GH-FC	white	92924
IR-Adapter for Smartphones	black	92726
IR-PDim	-	92200
IR-PD-DIM-Mini	-	92098
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



### 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  $\varnothing$ )
- 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



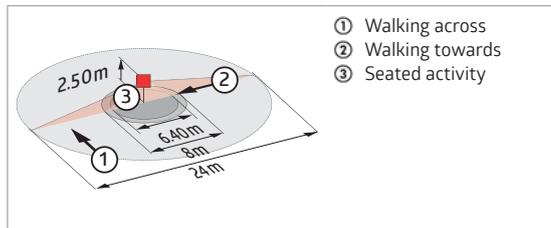
### Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- ⌚ Sensor head:  $\varnothing$  45 × 40 mm, Power supply: 165 × 24 × 24 mm
- ⌚ approx. 0.5 W
- ⌚ vertical 360°
- ⌚ max.  $\varnothing$  3.5 m across
- ⌚ 10 m<sup>2</sup> / 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,  $\cos \varphi = 1$ ; 1150 VA,  $\cos \varphi = 0.5$ ; 300 W LED; max. inrush current  $I_p$  (20 ms) = 165 A; max. inrush current  $I_p$  (200  $\mu$ s) = 800 A
- ⌚ 1x  $\mu$ -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

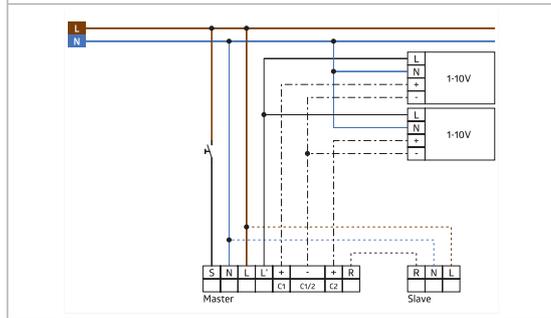
# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD4-M-DUO-DIM-SM	white	92271
PD4-M-DUO-DIM-FC	white	92272
PD4-M-DUO-DIM-FM	white	92273
IR-Adapter for Smartphones	black	92726
IR-PDim	-	92200
IR-PD-DIM-Mini	-	92098
Wire basket BSK (Ø 200 x 90 mm)	white	92199



- ① Walking across
- ② Walking towards
- ③ Seated activity



## 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.

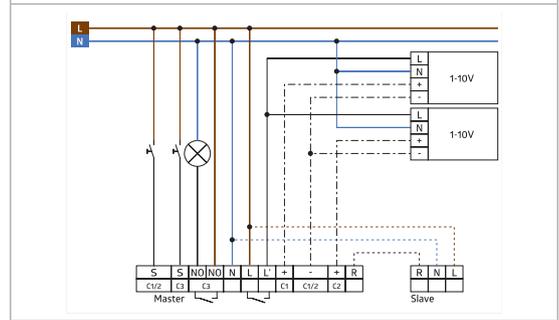
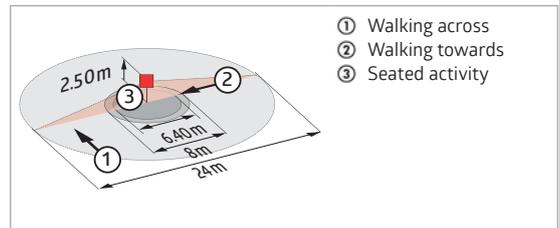
## Technical Data

- ⌚ 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
- 📐 450 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
PD4-M-TRIO-DIM-SM	white	92730
PD4-M-TRIO-DIM-FC	white	92735
IR-Adapter for Smartphones	black	92726
IR-PD4-TRIO	-	92097
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Socket IP54 PD4-TRIO-SM	white	92386



## 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

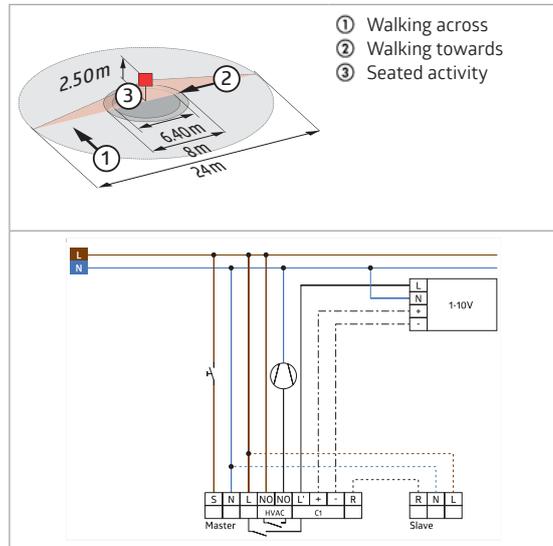
## Technical Data

- 110 – 240 V AC 50 / 60 Hz
- SM= Ø 124 x 85 mm
- FC= Ø 117 x 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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 / ∞
- 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 I<sub>p</sub> (20 ms) = 165 A
- max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
PD4-M-DIM-HVAC-3A-FC	white	92507
IR-Adapter for Smartphones	black	92726
IR-PD-DIM-HVAC	-	92114
IR-PD-DIM-Mini	-	92098
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Square design frame PD4-FC	pure white mat, similar to RAL 9010	92992



## 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

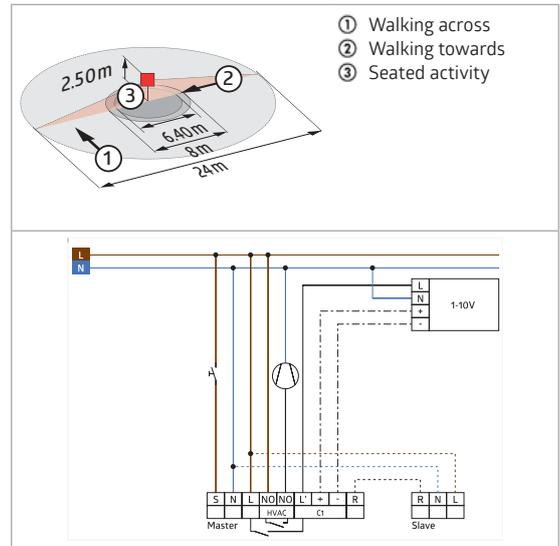
## Technical Data

- 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
- 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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 φ = 1; PD4-M-DIM-HKL-16A-FC: **16 A**, 230 V, cos φ = 1
- dry NO contact
- 5 min – 120 min, Alarm pulse, Pulse
- Mixed light measuring

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD4-M-DIM-HVAC-16A-FC	white	92547
IR-Adapter for Smartphones	black	92726
IR-PD-DIM-HVAC	-	92114
IR-PD-DIM-Mini	-	92098
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Square design frame PD4-FC	pure white mat, similar to RAL 9010	92992



## 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

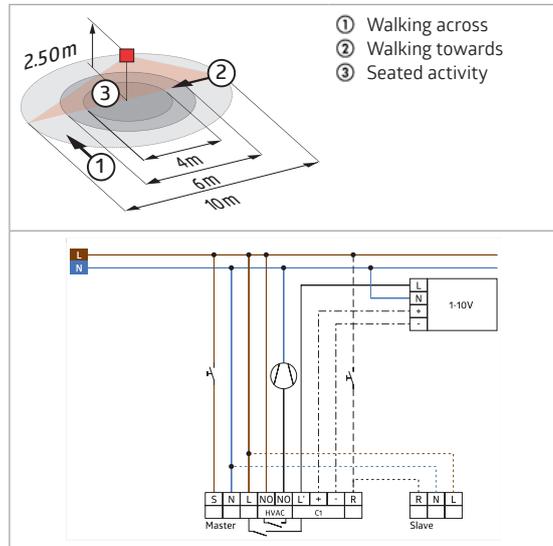
## Technical Data

- 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 m<sup>2</sup> / 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 φ = 1; 1150 VA, cos φ = 0.5; 300 W LED; max. inrush current I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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 φ = 1; PD4-M-DIM-HKL-16A-FC: **16 A**, 230 V, cos φ = 1
- dry NO contact
- 5 min – 120 min, Alarm pulse, Pulse
- Mixed light measuring

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD9-M-DIM-HVAC-FC	white	92973
IR-Adapter for Smartphones	black	92726
IR-PD-DIM-HVAC	-	92114
IR-PD-DIM-Mini	-	92098
Cover IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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 "standalone 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

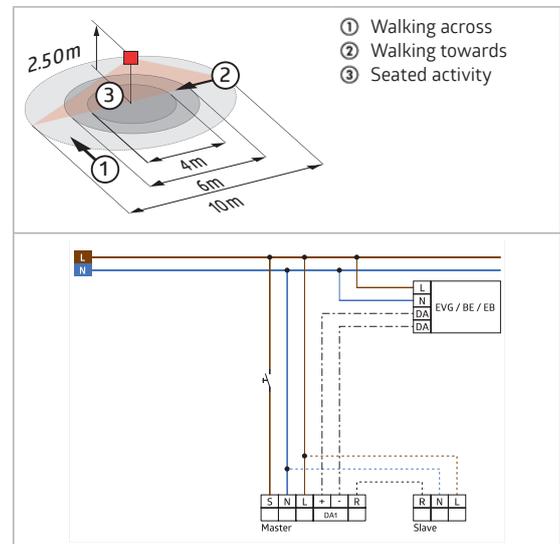
### Presence detector for DALI/DSI (DALI compact)

Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2-M-DALI/DSI	73	92280	92258	-	▪	▪	▪	Ø 10 m	-
PD4-M-DALI/DSI	74	92279	92275	-	▪	▪	▪	Ø 24 m	-
PD4-M-DALI/DSI-C	75	92530	92328	-	▪	▪	▪	max. Ø 40 m	corridor detector
PD4-M-DALI/DSI-GH	76	93015	-	-	▪	▪	▪	max. Ø 30 m	large mounting height
PD9-M-DALI/DSI	77	-	92920	-	▪	▪	▪	Ø 10 m	mini detector
PD9-M-DALI/DSI-GH	78	-	92938	-	▪	▪	▪	Ø 6 m	large mounting height
PD2-M-DALI/DSI-1C	79	-	92486	-	▪	▪	▪	Ø 10m	with HVAC channel
PD2-M-DALI/DSI-HVAC	80	-	92698	-	▪	▪	▪	Ø 10 m	with HVAC channel
PD4-M-DALI/DSI-1C	81	-	92488	-	▪	▪	▪	Ø 24 m	with HVAC channel
PD4-M-DALI/DSI-HVAC	82	-	92699	-	▪	▪	▪	Ø 24 m	with HVAC channel
PD4-M-DUO-DALI/DSI	83	-	92276	-	▪	▪	▪	Ø 24 m	-
PD4-M-TRIO-DALI/DSI	84	92750	92755	-	▪	▪	▪	Ø 24 m	-
PD4-M-TRIO-2DALI/DSI-1C	85	92751	92756	-	▪	▪	▪	Ø 24 m	TRIO detector with additional relay contact
PD4-M-TRIO-2R-1D	86	-	92790	-	▪	▪	▪	Ø 24 m	2 switching relays and 1 DALI output
PD4-M-DAA4G	87	92743	92591	-	▪	▪	▪	Ø 24 m	addressable DALI detector
PD4-S-DAA4G	88	92759	92721	-	▪	▪	▪	Ø 24 m	DALI slave detector
PD4-M-HCL	89	93007	93006	-	▪	▪	▪	Ø 24 m	biodynamic lighting control

## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD2-M-DALI/DSI-FC	white	92258
PD2-M-DALI/DSI-SM	white	92280
IR-Adapter for Smartphones	black	92726
IR-PD-DALI	-	92094
IR-PD-DALI-E	-	92122
IR-PD-DALI-Mini	-	92112
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161



## 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

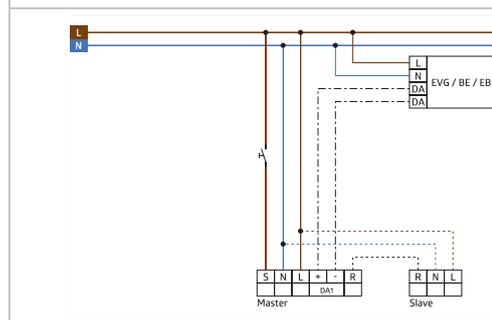
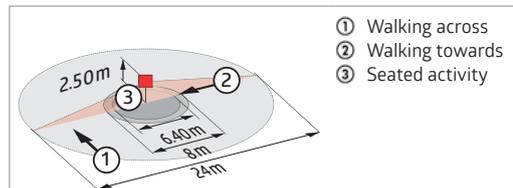
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- 📏 FC= Ø 80 × 85 mm  
SM= Ø 98 × 47 mm
- ⏰ approx. 1 W
- 📐 vertical 360°
- 📏 max. Ø 10 m across; max. Ø 6 m towards;  
max. Ø 4 m seated
- 📏 79 m<sup>2</sup> / 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

## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD4-M-DALI/DSI-FC	white	92275
PD4-M-DALI/DSI-SM	white	92279
IR-Adapter for Smartphones	black	92726
IR-PD-DALI	-	92094
IR-PD-DALI-LD	-	92652
IR-PD-DALI-E	-	92122
IR-PD-DALI-Mini	-	92112
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161



## 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

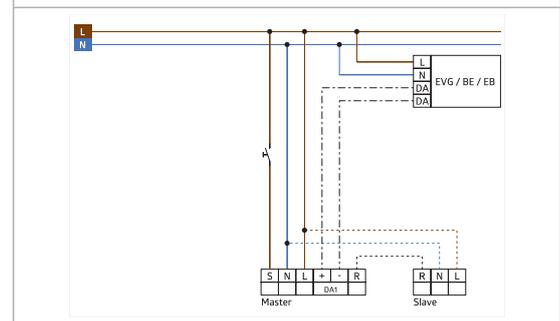
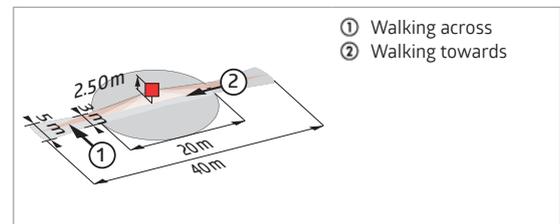
## Technical Data

- ⌚ 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 m<sup>2</sup> / 2.5 m mounting height
- 📏 2 m / 10 m / 2.5 m
- 📐 IP= 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

## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD4-M-DALI/DSI-C-FC	white	92328
PD4-M-DALI/DSI-C-SM	white	92530
IR-Adapter for Smartphones	black	92726
IR-PD-DALI	-	92094
IR-PD-DALI-E	-	92122
IR-PD-DALI-LD	-	92652
IR-PD-DALI-Mini	-	92112
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161
Wall holder PD4-SM	white	92441



## 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

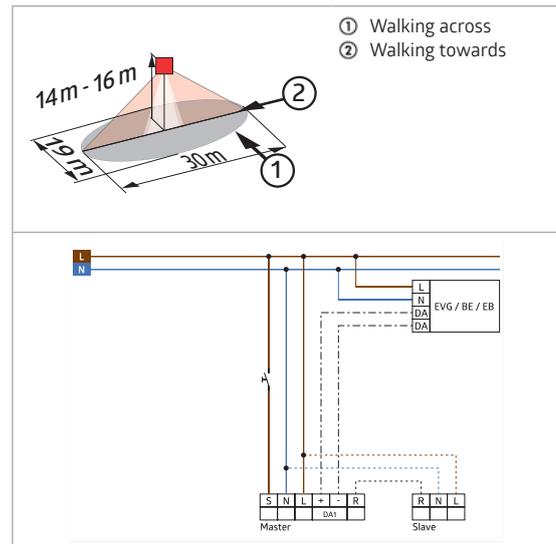
## Technical Data

- 110 – 240 V AC 50 / 60 Hz
- FC= Ø 97 × 103 mm
- SM= Ø 98 × 63 mm
- approx. 1 W
- vertical 360°
- max. Ø 40 m across; max. Ø 20 m towards
- 250 m<sup>2</sup> / 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

## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD4-M-DALI/DSI-GH-SM		93015
IR-Adapter for Smartphones	black	92726
PD4-S-GH-SM	white	92265



## 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

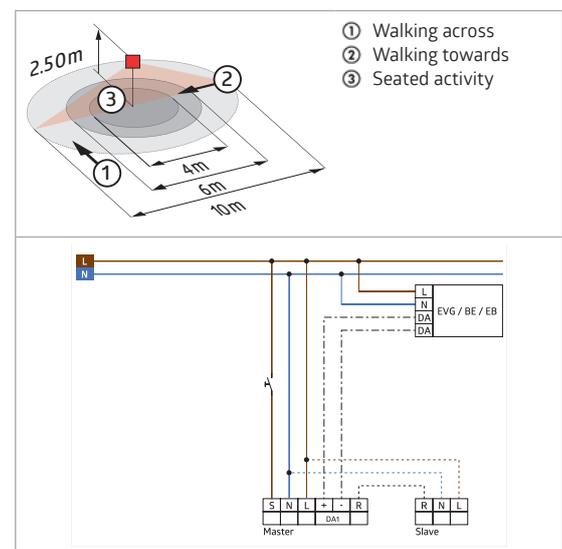
## Technical Data

- ⊖ 110 – 240 V AC 50 / 60 Hz
- ⊘ ∅ 101 × 76 mm
- ⓐ 4 mA
- Ⓜ 0.9 W
- Ⓜ vertical 360°
- Ⓜ 30 m × 19 m
- Ⓜ 450 m<sup>2</sup> / 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 / ∞
- Ⓜ 10 – 2500 Lux
- Ⓜ Mixed light measuring

## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD9-M-DALI/DSI-FC	white	92920
IR-Adapter for Smartphones	black	92726
IR-PD-DALI	-	92094
IR-PD-DALI-E	-	92122
IR-PD-DALI-Mini	-	92112
Cover PD9 IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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

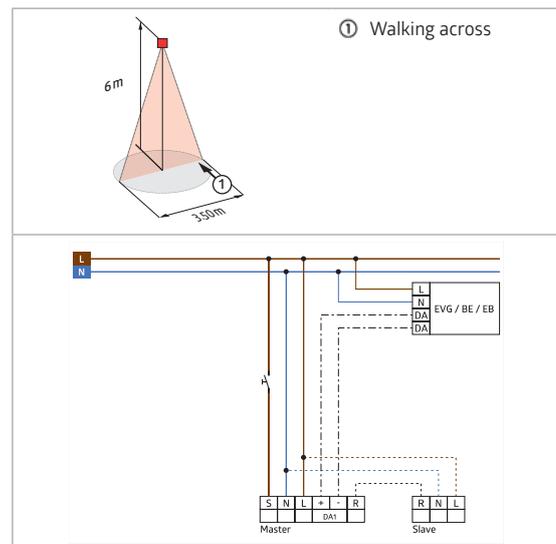
## Technical Data

- ⊖ 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 m<sup>2</sup> / 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

## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD9-M-DALI/DSI-GH-FC	white	92938
IR-Adapter for Smartphones	black	92726
IR-PD-DALI-LD	-	92652
IR-PD-DALI-E	-	92122
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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

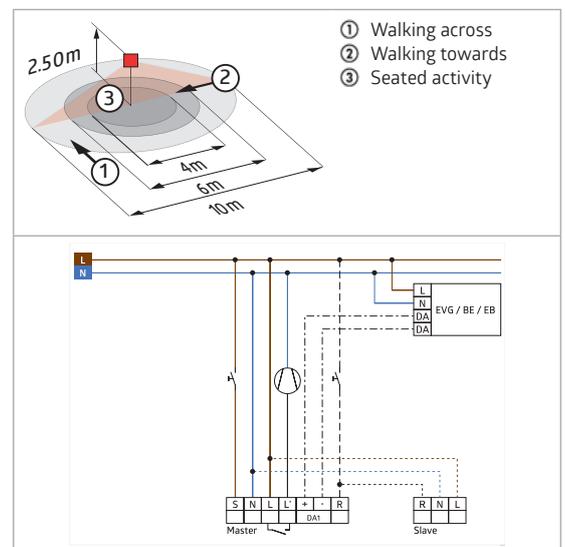
## Technical Data

- ⌚ 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 m<sup>2</sup> / 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

Description	Colour	Part number
PD2-M-DALI/DSI-1C-FC	white	92486
PD2-M-DALI/DSI-1C-SM	white	93033
IR-Adapter for Smartphones	black	92726
IR-PD-DALI-1C	-	92116
IR-PD-DALI-Mini	-	92112
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A  
1x μ-contact, NO contact with tungsten pre-make contact  
5 min – 120 min, Alarm pulse, Pulse  
Mixed light measuring

## Occupancy detectors DALI Compact

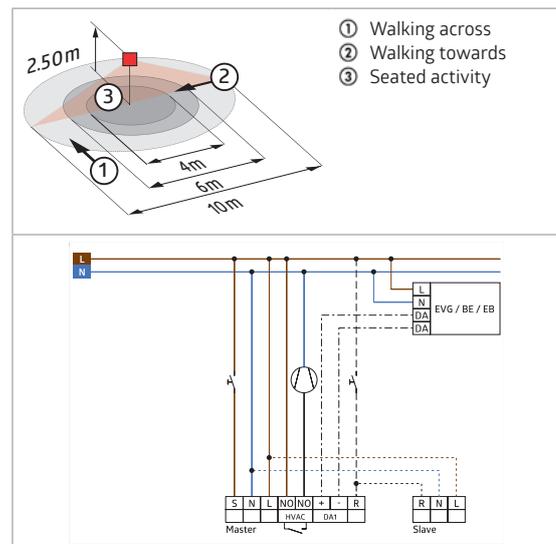
## Product and accessory

Description	Colour	Part number
PD2-M-DALI/DSI-HVAC-FC	white	92698
IR-Adapter for Smartphones	black	92726
IR-PD-DALI-1C	-	92116
IR-PD-DALI-Mini	-	92112
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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



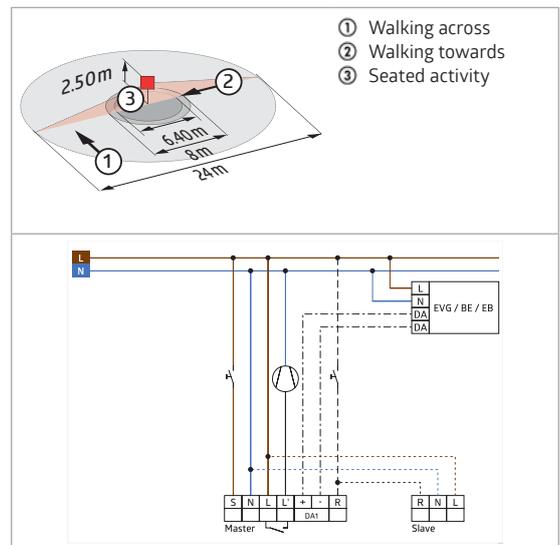
## Technical Data

- 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush  
current I<sub>p</sub> (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

Description	Colour	Part number
PD4-M-DALI/DSI-1C-FC	white	92488
PD4-M-DALI/DSI-1C-SM	white	92489
IR-Adapter for Smartphones	black	92726
IR-PD-DALI-1C	-	92116
IR-PD-DALI-Mini	-	92112
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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 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
- ⊘ 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 m<sup>2</sup> / 2.5 m mounting height
- Ⓜ 2 m / 10 m / 2.5 m
- IP 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A
- ⚡ 1x μ-contact, NO contact with tungsten pre-make contact
- 🕒 5 min – 120 min, Alarm pulse, Pulse
- 🕒 Mixed light measuring

## Occupancy detectors DALI Compact

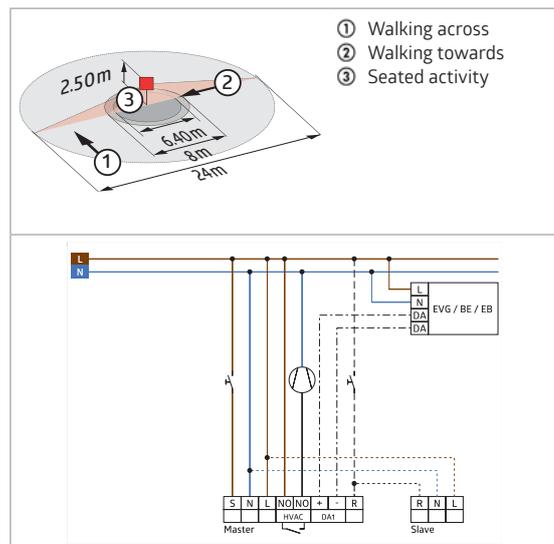
## Product and accessory

Description	Colour	Part number
PD4-M-DALI/DSI-HVAC-FC	white	92699
IR-Adapter for Smartphones	black	92726
IR-PD-DALI-1C	-	92116
IR-PD-DALI-Mini	-	92112
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush  
current I<sub>p</sub> (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

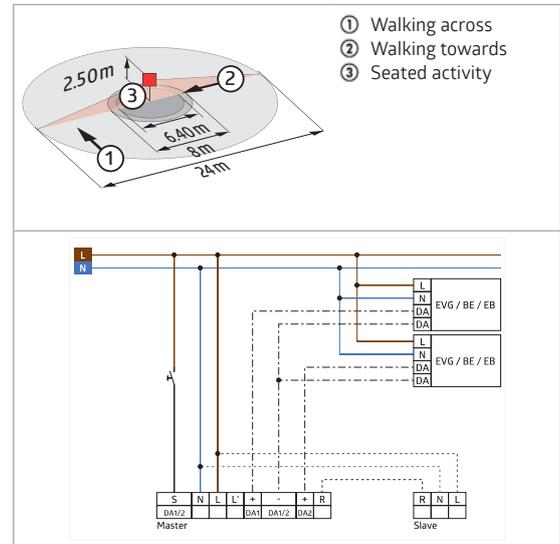
## Product and accessory

Description	Colour	Part number
PD4-M-DUO-DALI/DSI-FC	white	92276
IR-Adapter for Smartphones	black	92726
IR-PD-DALI	-	92094
IR-PD-DALI-E	-	92122
IR-PD-DALI-Mini	-	92112
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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



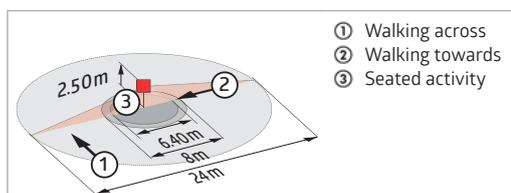
## Technical Data

- ⊖ 110 – 240 V AC 50 / 60 Hz
- ⊘ 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 m<sup>2</sup> / 2.5 m mounting height
- ⏴ 2 m / 10 m / 2.5 m
- IP 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

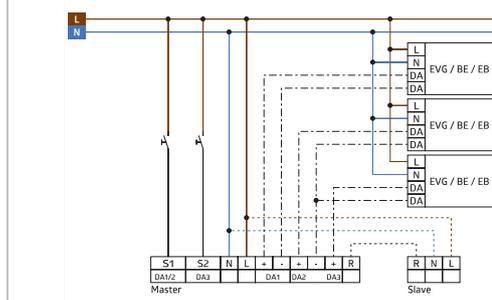
## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD4-M-TRIO-DALI/DSI-SM	white	92750
PD4-M-TRIO-DALI/DSI-FC	white	92755
IR-Adapter for Smartphones	black	92726
IR-PD4-TRIO-DALI	-	92104
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Socket IP54 PD4-TRIO-SM	white	92386



- ① Walking across
- ② Walking towards
- ③ Seated activity



## 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

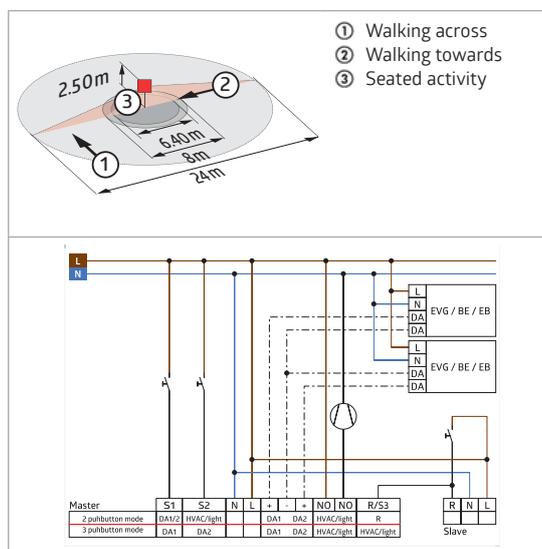
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- 📏 SM= Ø 124 × 85 mm  
FC= Ø 117 × 100 mm
- ⏻ approx. 2.2 W
- 📐 vertical 360°
- 📏 max. Ø 24 m across; max. Ø 8 m towards;  
max. Ø 6.4 m seated
- 📏 450 m<sup>2</sup> / 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 (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

## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD4-M-TRIO-2DALI/DSI-1C-SM	white	92751
PD4-M-TRIO-2DALI/DSI-1C-FC	white	92756
IR-Adapter for Smartphones	black	92726
IR-PD4-TRIO-DALI	-	92104
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Socket IP54 PD4-TRIO-SM	white	92386



## 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 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A
- max. inrush current I<sub>p</sub> (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

## Occupancy detectors DALI Compact

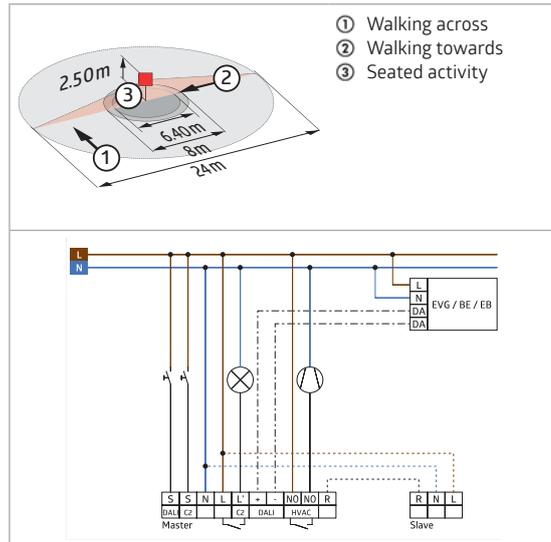
## Product and accessory

Description	Colour	Part number
PD4-M-TRIO-2R-1D-FC	white	92790
IR-PD4-TRIO-2R1D	-	92473
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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.



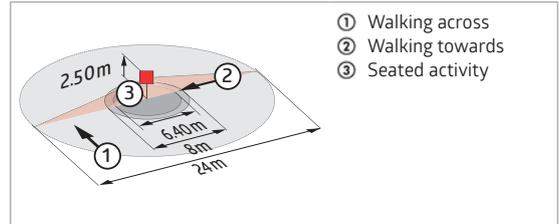
## Technical Data

- ⊙ 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 m<sup>2</sup> / 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 φ = 1
- ⊘ 1150 VA, cos φ = 0.5
- ⊘ 1x μ-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 φ = 1
- ⊘ 350 VA, cos φ = 0,5
- ⊘ Type of contact: μ-contact dry NO contact with tungsten pre-make contact
- ⊘ Mixed light measuring

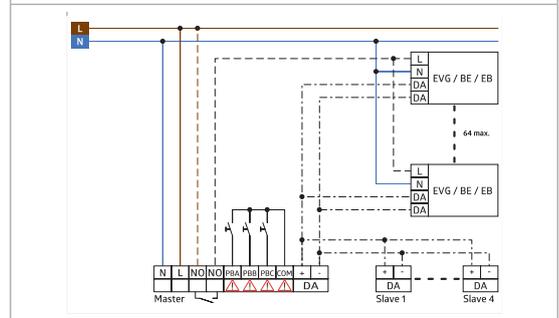
# Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD4-M-DAA4G-FC	white	92591
PD4-M-DAA4G-SM	white	92743
IR-Adapter for Smartphones	black	92726



- ① Walking across
- ② Walking towards
- ③ Seated activity



## 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

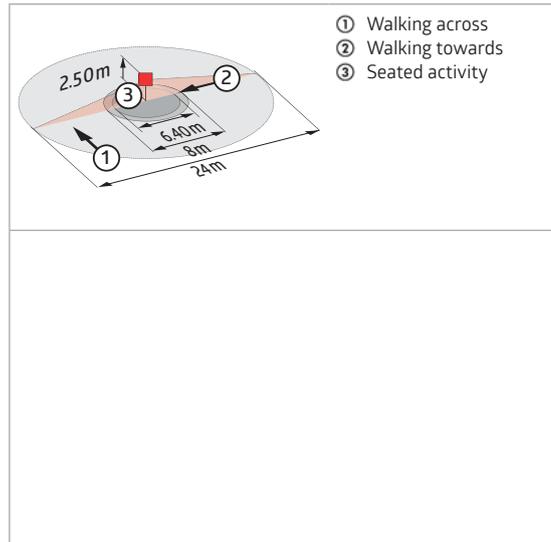
## Technical Data

- ⌚ 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

## Occupancy detectors DALI Compact

## Product and accessory

Description	Colour	Part number
PD4-S-DAA4G-FC	white	92721
PD4-S-DAA4G-SM	white	92759
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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

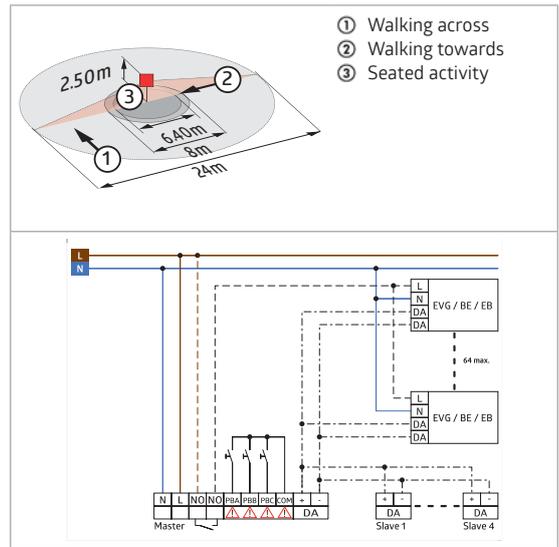
## Technical Data

- ⊖ 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
- ↕ 2 m / 10 m / 2.5 m
- 📏 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

Description	Colour	Part number
PD4-M-HCL-FC	white	93006
PD4-M-HCL-SM	white	93007
IR-Adapter for Smartphones	black	92726
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## Product Information

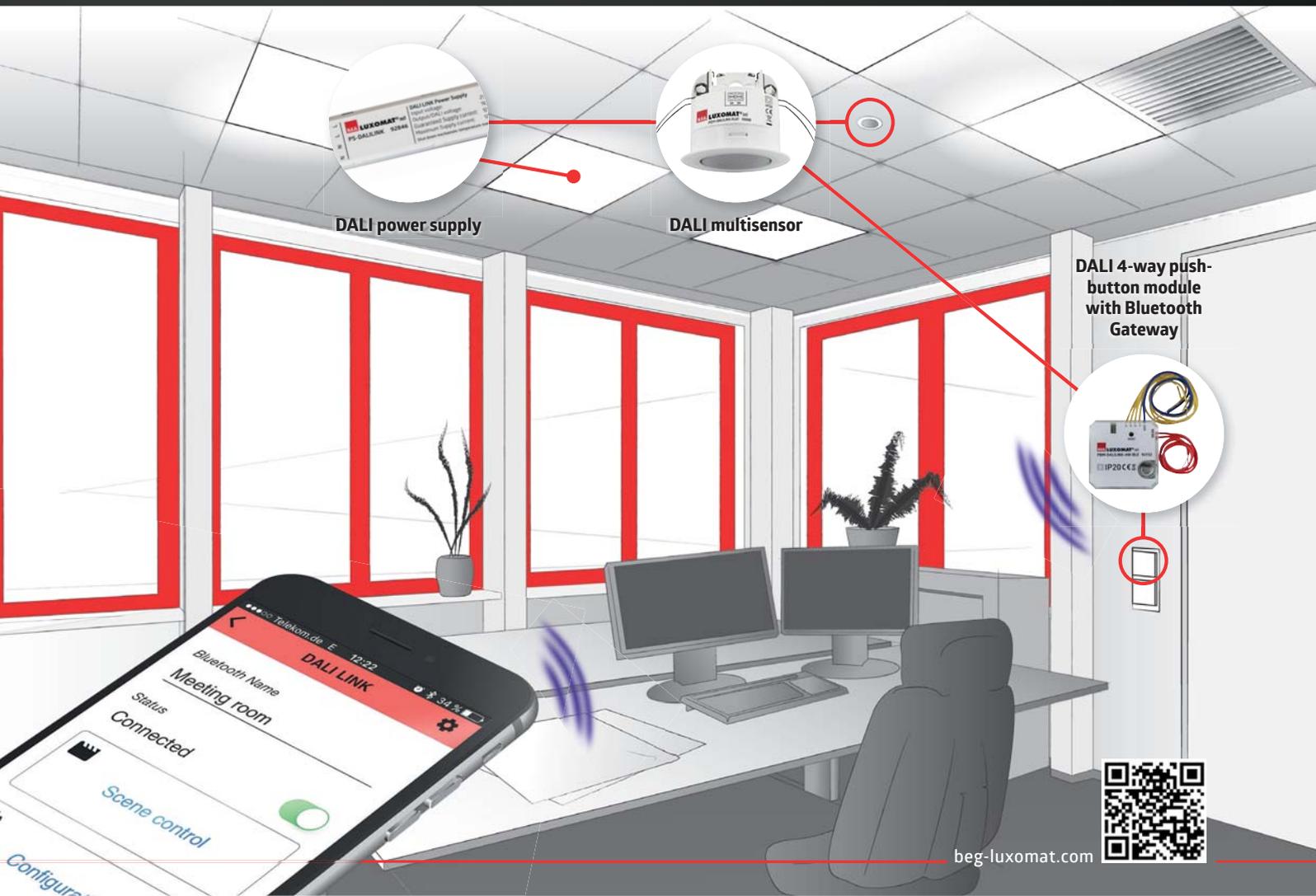
- Bidirectional occupancy detector with integrated DALI controller for an energy-efficient and biologically effective light control (Human Centric Lighting)
- Very sensitive occupancy detector with the ability to address up to 64 DALI-DT8 Tunable White luminaires approved by B.E.G. and to control them 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 x 100 mm  
SM= Ø 124 x 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
- 🕒 5 s – 120 min (HVAC)

### DALI LINK multiroom solution

- Starter set – 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



# The economical and flexible multiroom solution – DALI LINK

## 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.



# Detector overview

## Occupancy detectors for DALI LINK

Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD11-DALILINK-FLAT	93	-	93068	-	■	■	■	Ø 9 m	super flat
PD4N-DALILINK	94	-	93377	-	■	■	■	Ø 24 m	-
PICO-DALILINK	95	-	92908	-	■	■	■	Ø 10 m	mini detector
PBM-DALILINK-4W-BLE	96	-	-	92732	-	-	-	-	-

## 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



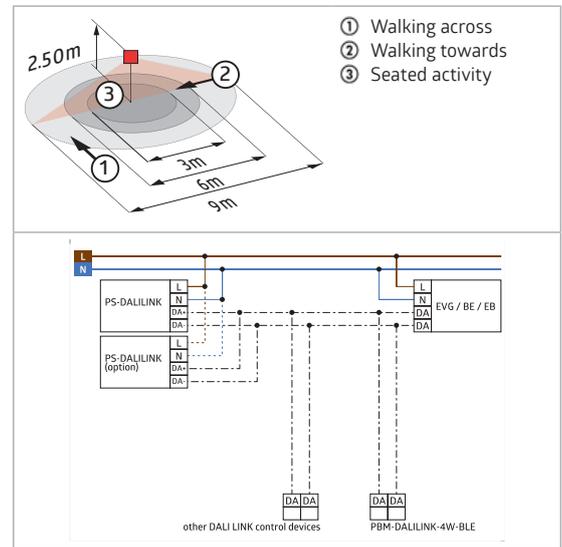
### DALI LINK Power supply

- Voltage: 230 V AC
- Dimensions: 165 x 24 x 24 mm
- Short-circuit detection and overheating protection



Product and accessory

Description	Colour	Part number
PD11-DALILINK-FLAT-FC	white	93068
PS-DALILINK-FC	white	92846
PS-DALILINK-USB-REG	white	93189
PBM-DALILINK-4W-BLE	transparent	92732
In-wall mounting set 1 / PD11	white	92832
In-wall mounting set 2 / PD11	white	92833
Cover ring PD11 Ø 52 mm	black	92537
Cover ring PD11 Ø 100 mm	white	92692
Square design frame PD11-FC	white mat, similar to RAL 9010	92994



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<sup>®</sup>net DALI LINK as modular multimaster option for
- Seamless integration in B.E.G. LUXOMAT<sup>®</sup>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<sup>®</sup>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

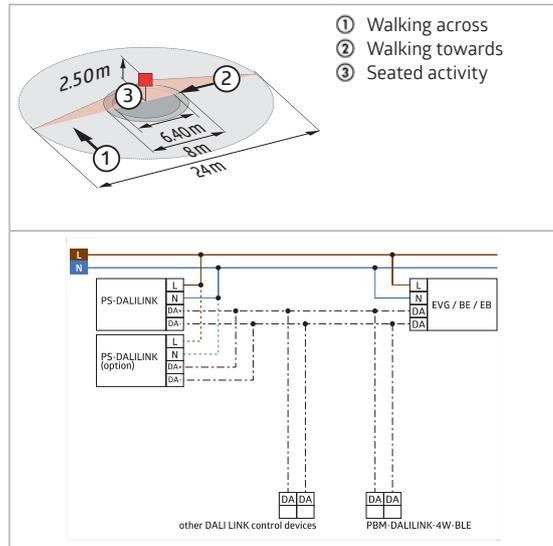
Technical Data

- ⌚ 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 m<sup>2</sup> / 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 mm<sup>2</sup>
- 🕒 1 sec – 120 min
- ⚙ 5 – 100 % / 1 min – 120 min / ∞
- ☀ 10 – 2500 Lux

DALI LINK

Product and accessory

Description	Colour	Part number
PD4N-DALILINK	white	93377
PS-DALILINK-FC	white	92846
PS-DALILINK-USB-REG	white	93189
PBM-DALILINK-4W-BLE	transparent	92732
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



Product Information

- Wide motion detection range DALI multisensor
- Seamless integration in DALI lighting control B.E.G. LUXOMAT<sup>®</sup>net DALI LINK as modular multimaster option for
- Seamless integration in B.E.G. LUXOMAT<sup>®</sup>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<sup>®</sup>net DALI LINK

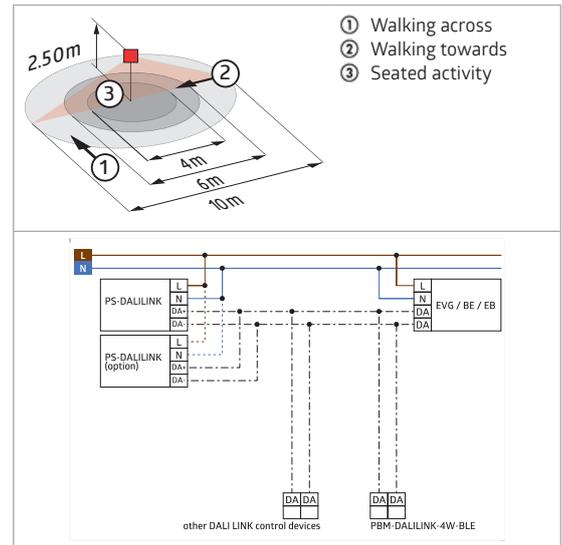
Technical Data

- ⌚ 10 – 22 V DC via DALI Bus
- 📏 Ø 106 × 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 m<sup>2</sup> / 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

DALI LINK

Product and accessory

Description	Colour	Part number
PICO-DALILINK-FC	white	93908



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<sup>®</sup>net DALI LINK as modular multimaster option for
- Seamless integration in B.E.G. LUXOMAT<sup>®</sup>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<sup>®</sup>net DALI LINK

Technical Data

- ⊖ 10 – 22 V DC via DALI Bus
- ⊘ 33 × 27 mm
- ⓐ 2 mA
- ⌒ vertical 360°
- ⚠ max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- Ⓜ² 79 m² / 2.5 m mounting height
- Ⓜ 2 m / 3 m / 2.5 m
- IP IP20 / Class II
- 🌡 -25 °C to +55 °C
- 📦 Polycarbonate, UV-resistant
- ⚙ 5 – 2500 Lux

## DALI LINK

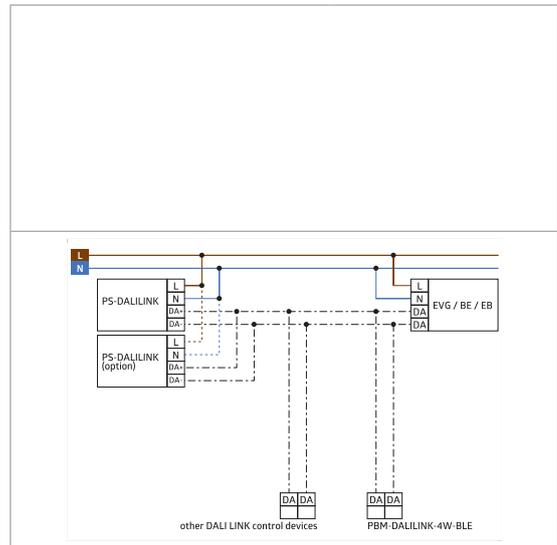
## Product and accessory

Description	Colour	Part number
PBM-DALILINK-4W-BLE	transparent	92732



## 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
- Seamless 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 16m.



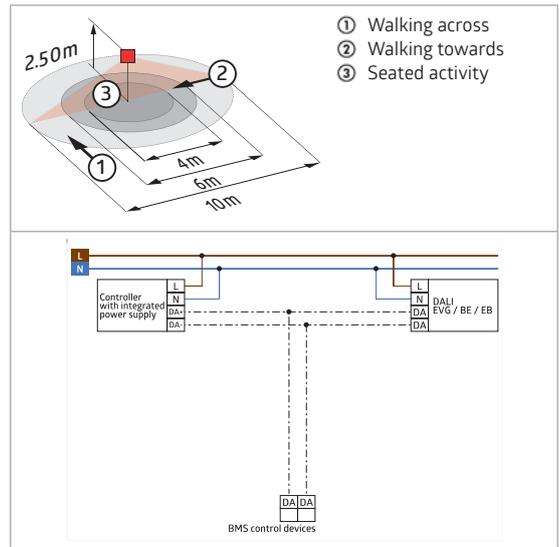
## Detector overview

### Occupancy detectors for BMS

Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2N-BMS	99	-	93329	93337	▪	▪	▪	Ø 10 m	-
PD4N-BMS	100	-	93311	-	▪	▪	▪	Ø 24 m	-
PD4-BMS-C	101	93357	93332	-	▪	▪	▪	Ø 40 m	corridor detectors
PD4-BMS-GH	102	93025	-	-	▪	▪	▪	Ø 30 m	large mounting height
PICO-BMS	103	-	93924	-	▪	▪	▪	Ø 10 m	-
PD11-BMS-FLAT	104	-	93330	-	▪	▪	▪	Ø 9 m	super flat
Indoor 180-BMS	105	-	-	93397	▪	▪	▪	max. 10 m	wall mounting

Product and accessory

Description	Colour	Part number
PD2N-BMS-FC	white	93329
PD2N-BMS-FM	white	93337
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



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

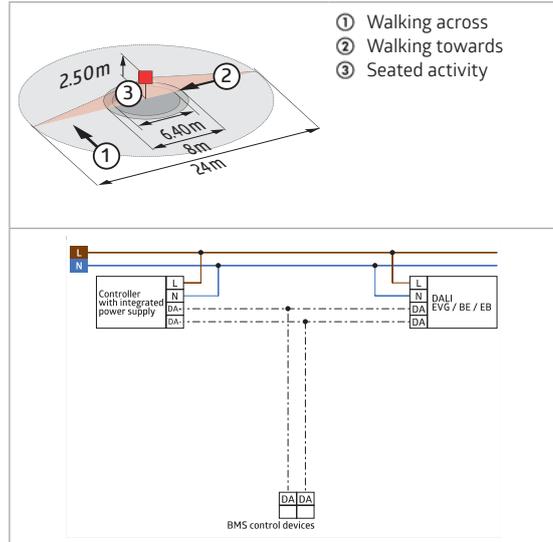
Technical Data

- ⌚ 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
- 📦 IP FC= IP20 / Class II  
FM= IP20 / Class II
- 🌡 -25 °C to +55 °C
- 📦 Polycarbonate, UV-resistant
- ⚙ 5 – 1000 Lux

BMS

Product and accessory

Description	Colour	Part number
PD4N-BMS	white	93311
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



Product Information

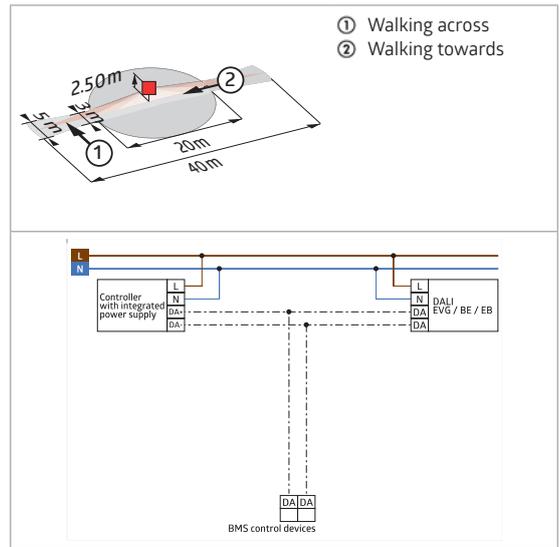
- Wide motion detection range DALI multisensor
- Powered via DALI bus
- DALI multimaster technology according to IEC 62386 part 103
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Instance 1 provides LUX values for the DALI-Bus according 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
- ⏏ 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
- 📊 Mixed light measuring

Product and accessory

Description	Colour	Part number
PD4-BMS-C-FC	white	93332
PD4-BMS-C-SM	white	93357
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Wall holder PD4-SM	white	92441



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 98 × 96 mm
- ⏏ SM= Ø 103 × 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
- 📐 IP FC= IP20 / Class II
- 📐 SM= IP54 / Class II
- 🌡 -25 °C to +50 °C
- 📦 Polycarbonate, UV-resistant
- ⚙ 5 – 1000 Lux

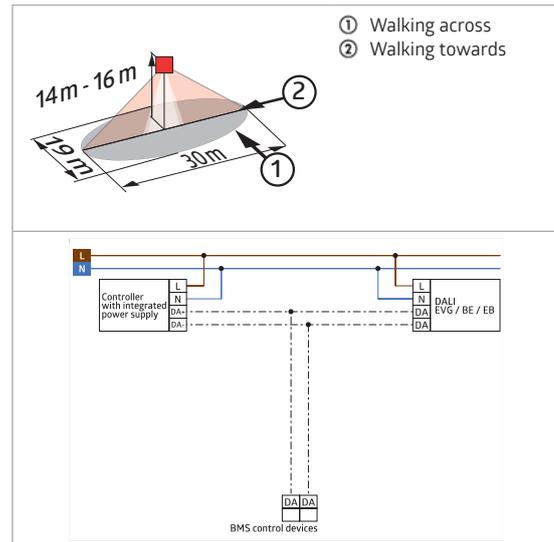
## Product and accessory

Description	Colour	Part number
PD4-BMS-GH-SM	white	93025



## 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.**

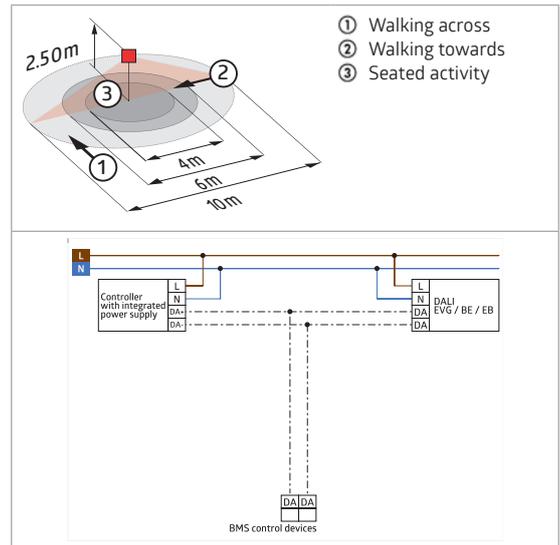


## Technical Data

- ⌚ 9.5 – 22.5 V DC (typical 16V) via DALI Bus
- ⊘ ∅ 101 × 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 × 19 m
- 📏 450 m<sup>2</sup> / 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

Description	Colour	Part number
PICO-BMS-FC	white	93924



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

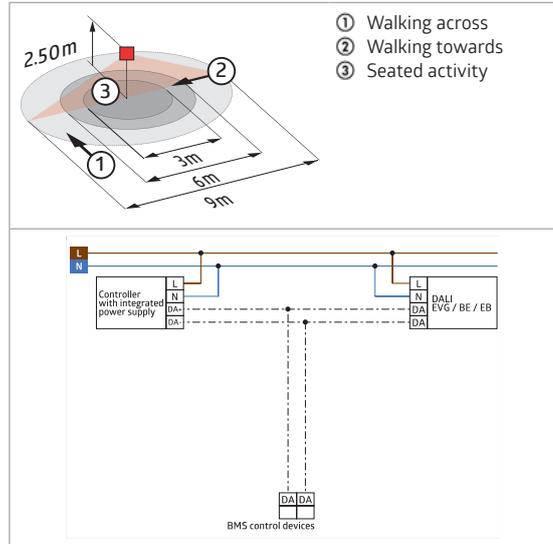
Technical Data

- ⌚ 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

BMS

Product and accessory

Description	Colour	Part number
PD11-BMS-FLAT-FC	white	93330
In-wall mounting set 1 / PD11	white	92832
In-wall mounting set 2 / PD11	white	92833
Cover ring PD11 Ø 52 mm	black	92537
Cover ring PD11 Ø 100 mm	white	92692
Square design frame PD11-FC	white mat, similar to RAL 9010	92994



Product Information

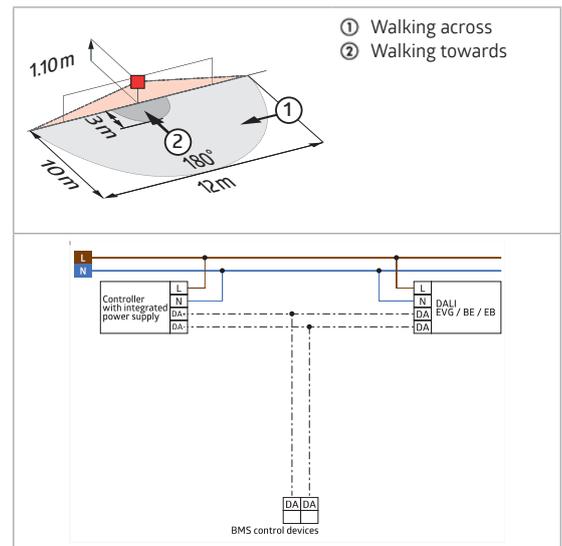
- Low profile DALI multisensor (visible height: 0,85 mm)
- Powered via DALI bus
- DALI multimaster technology according to IEC 62386 part 103
- Instance 0 provides information regarding occupancy and movement for the DALI-Bus according to IEC 62386 part 303
- Instance 1 provides LUX values for the DALI-Bus 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 × 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

Product and accessory

Description	Colour	Part number
Indoor 180-BMS covering not included	white mat, similar to RAL 9010	93397
Surface mounting socket Indoor 180	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white mat, similar to RAL 1013	39076



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 × 70 × 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



### DALISYS – The building solution



PICO Relay module

PD11

DALI Power supply

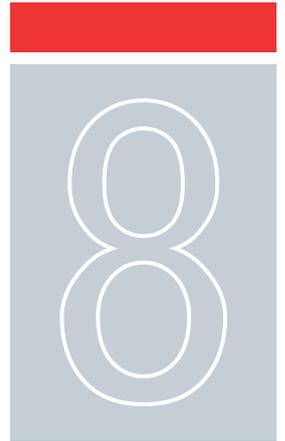
DALI Router

- 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

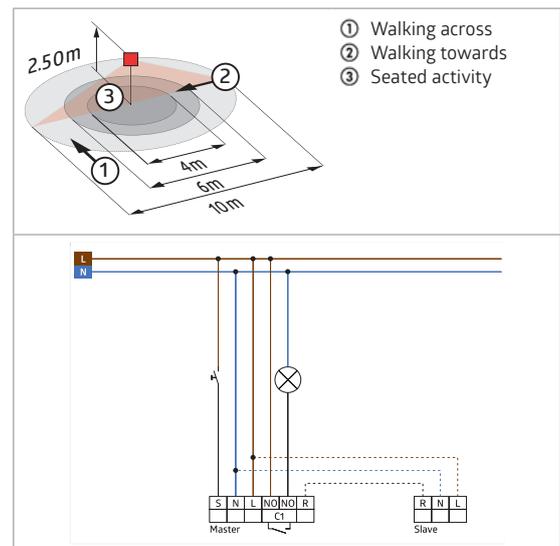
### Cost-effective extension of detection area with slave devices

Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2-S	109	92152	92166	92156	-	▪	-	Ø 10 m	-
PD4-S	110	92142	92254	92163	-	▪	-	Ø 24 m	-
PD4-S-C	111	92442	92444	92445	-	▪	-	max. Ø 40 m	corridor detector
PD4-S-GH	112	92265	-	-	-	▪	-	Ø 30 m	large mounting height
PD4-S-DAA4G	88	92759	92721	-	-	▪	-	Ø 24 m	compatible with PD4-M-DAA4G
PD9-S	113	-	92905	-	-	▪	-	Ø 10 m	mini detector
PD9-S-GH	114	-	92928	-	-	▪	-	Ø 6 m	large mounting height
PD9-S-SDB	115	-	92915	-	-	▪	-	Ø 10 m	mini detector
PD9-S-SDB-GH	116	-	92933	-	-	▪	-	Ø 6 m	large mounting height
PICO-S	117	-	92700	-	-	▪	-	Ø 10 m	-
PD11-S	118	-	92593	-	-	▪	-	Ø 9 m	super flat
Indoor 180-S	161	-	92135	-	-	▪	-	max. r = 10 m	wall mounting

## Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD2-S-SM	white	92152
PD2-S-FM	white	92156
PD2-S-FC	white	92166
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socket IP54 PD2/PD4-SM	white	92161



## 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.

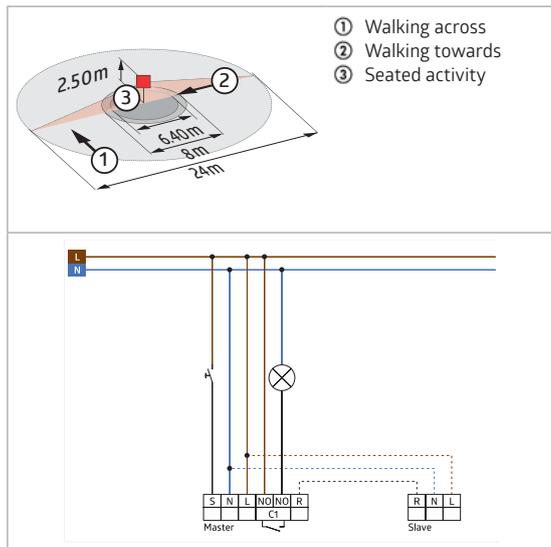
## Technical Data

- ⊖ 110 – 240 V AC 50 / 60 Hz
- SM= Ø 98 x 50 mm
- FM= Ø 98 x 65 mm
- FC= Ø 80 x 85 mm
- ⏻ approx. 0.2 W
- ⤵ vertical 360°
- ⚙ max. Ø 10 m across; max. Ø 6 m towards;
- ⚙ max. Ø 4 m seated
- Ⓜ² 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

Description	Colour	Part number
PD4-S-SM	white	92142
PD4-S-FM	white	92163
PD4-S-FC	white	92254
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Surface mounting socket (IP65) PD4-SM IP54	white	92376



## 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.

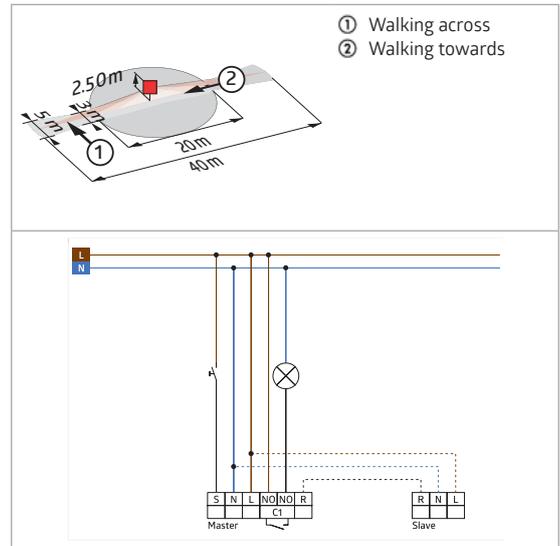
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- SM= Ø 101 x 76 mm
- FM= Ø 97 x 84 mm
- FC= Ø 97 x 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

## Product and accessory

Description	Colour	Part number
PD4-S-C-SM	white	92442
PD4-S-C-FC	white	92444
PD4-S-C-FM	white	92445
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Wall holder PD4-SM	white	92441
Surface mounting socket (IP65) PD4-SM IP54	white	92376



## 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

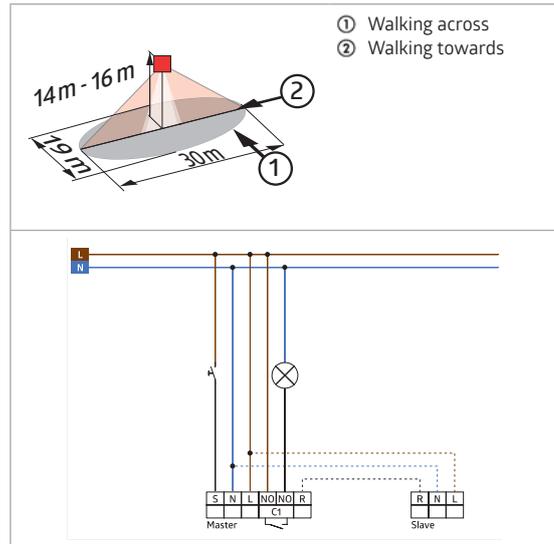
## Technical Data

- ⊖ 110 – 240 V AC 50 / 60 Hz
- SM= Ø 101 x 76 mm
- ⏏ FC= Ø 97 x 103 mm
- FM= Ø 97 x 84 mm
- ⏻ approx. 0.2 W
- 🌀 vertical 360°
- ⚠ max. Ø 40 m across; max. Ø 20 m towards
- 📏 250 m<sup>2</sup> / 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

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD4-S-GH-SM	white	92265
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Surface mounting socket (IP65) PD4-SM IP54	white	92376



## 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.**

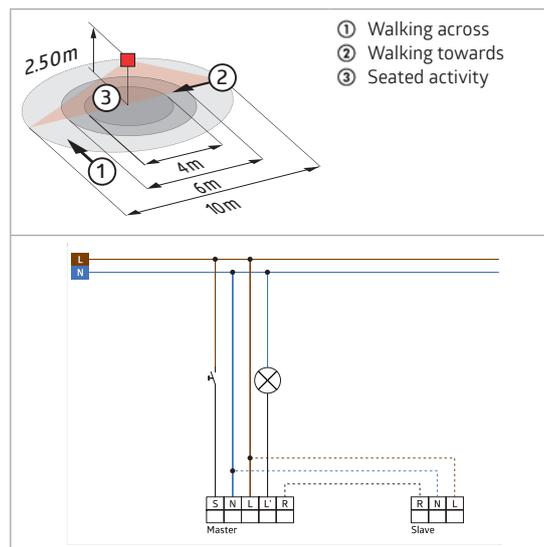
## Technical Data

- ⌚ 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

## Product and accessory

Description	Colour	Part number
PD9-S-FC	white	92905
Cover IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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 m<sup>2</sup> / 2.5 m mounting height
- ⌚ 2 m / 5 m / 2.5 m
- ⌚ IP20 / Class II
- ⌚ -25 °C to +50 °C
- ⌚ Polycarbonate, UV-resistant
- ⌚ 45 mm
- ⌚ Pulse interval: 9 sec

# Ceiling mounted occupancy detectors

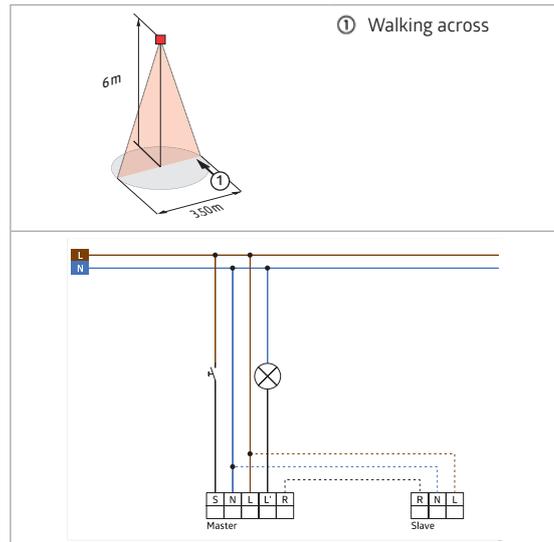
## Product and accessory

Description	Colour	Part number
PD9-S-GH-FC	white	92928
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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



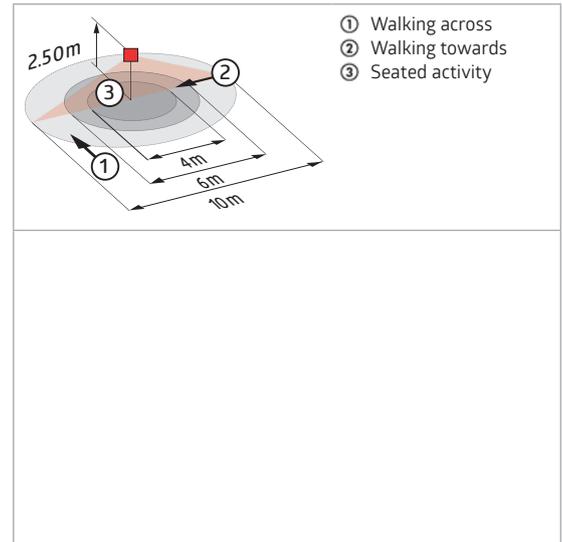
## Technical Data

- ⌚ 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 m<sup>2</sup> / 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

# Ceiling mounted occupancy detectors

## Product and accessory

Description	Colour	Part number
PD9-S-SDB-FC	white	92915
Cover PD9 IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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

- ▬  $\varnothing$  36 x 28 mm
- ▴ max.  $\varnothing$  10 m across; max.  $\varnothing$  6 m towards; max.  $\varnothing$  4 m seated
- ▭ 79 m<sup>2</sup> / 2.5 m mounting height
- ▮ 2 m / 5 m / 2.5 m
- ▣ IP65 / Class III
- ▬ 350 cm

## Ceiling mounted occupancy detectors

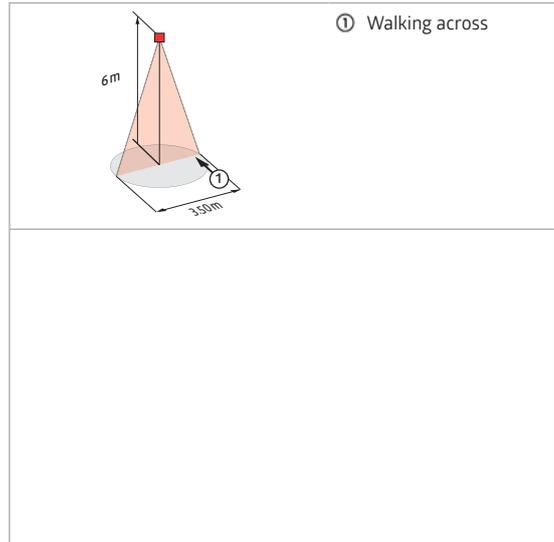
### Product and accessory

Description	Colour	Part number
PD9-S-SDB-GH-FC	white	92933
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



### 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 m<sup>2</sup> / 6 m mounting height
-  5 m / 10 m / 6 m
-  IP65 / Class III
-  350 cm

## Ceiling mounted occupancy detectors

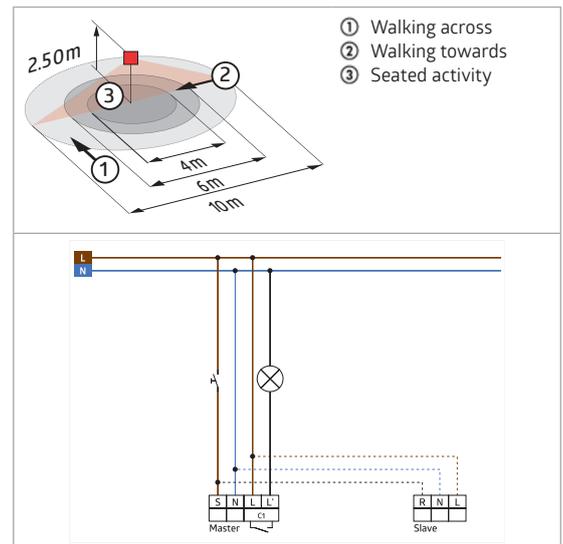
## Product and accessory

Description	Colour	Part number
PICO-S-FC	white	92700



## 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



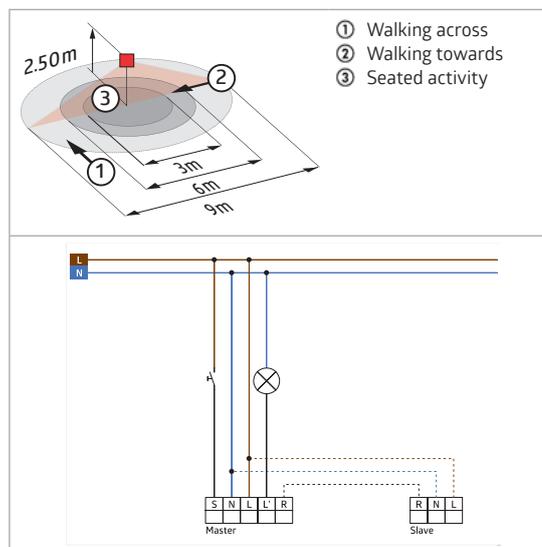
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- ⏏ ⌀ 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 m<sup>2</sup> / 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

Description	Colour	Part number
PD11-S-FLAT-FC	white	92593
In-wall mounting set 1 / PD11	white	92832
In-wall mounting set 2 / PD11	white	92833
Cover ring PD11 Ø 52 mm	black	92537
Cover ring PD11 Ø 100 mm	white	92692
Square design frame PD11 FC	white mat, similar to RAL 9010	92994



## 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
- 📏 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

## Increased convenience in buildings – with bus solutions from B.E.G.

### 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

Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2N-KNX-BA	121	-	93380	93381	-	▪	-	Ø 10 m	-
PD11-KNX-FLAT-BA	122	-	93803	-	-	▪	-	Ø 9 m	super flat
Indoor 180-KNX-BA	123	93362	-	-	-	▪	-	max. r = 10 m	wall mounting
PD2N-KNX-ST	124	-	93383	93384	-	▪	-	Ø 10 m	-
PD4N-KNX-ST	125	-	93384	93385	-	▪	-	Ø 24 m	-
PD11-KNX-FLAT-ST	126	-	93802	-	-	▪	-	Ø 9 m	super flat
Indoor 180-KNX-ST	127	93363	-	-	-	▪	-	max. r = 10 m	wall mounting
RC-plus next N 230 KNX-DX	128	93394 – white 93395 – black	-	-	-	▪	-	max. 20 m	outdoor detector
PD2N-KNX-DX	129	-	93360	93361	-	▪	-	Ø 10 m	-
PD4N-KNX-DX	130	-	93386	93387	-	▪	-	Ø 24 m	-
PD4N-KNX-C-DX	131	-	93388	93389	-	▪	-	max. Ø 40 m	corridor detector
PD4-KNX-GH-DX	132	93399	-	-	-	▪	-	max. Ø 30 m	large mounting height
PD9-KNX-DX	133	-	93390	-	-	▪	-	Ø 10 m	mini detector
PD9-KNX-GH-DX	134	-	93391	-	-	▪	-	Ø 3,5 m	large mounting height
PICO-KNX-DX	135	-	92719	-	-	▪	-	Ø 10 m	mini detector
PD11-KNX-FLAT-DX	136	-	93392	-	-	▪	-	Ø 9 m	super flat
Indoor 140-L-KNX-DX	137	93393	-	-	-	▪	-	max. r = 8 m	wall mounting
Indoor 180-KNX-DX	138	93364	-	-	-	▪	-	max. r = 10 m	wall mounting

### LON occupancy detector

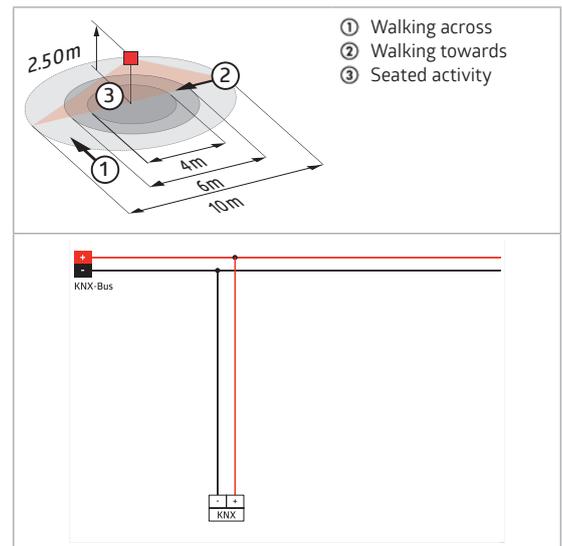
Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2N-LON	139	92734	92736	-	-	▪	-	Ø 10 m	-
PD4N-LON	140	92834	92831	-	-	▪	-	Ø 24 m	-
PD9-LON	141	-	92989	-	-	▪	-	Ø 10 m	mini detector
Indoor 180-LON	142	92329	-	-	-	▪	-	max. r = 8 m	wall mounting

### LTMS multisensors

Occupancy detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
PD2N-LTMS	143	-	92989	-	-	▪	-	Ø 10 m	-
PD2N-LTMS-RR	144	92834	92831	-	-	▪	-	Ø 10 m	-
PD4N-LTMS-RR	145	92329	-	-	-	▪	-	Ø 24 m	-
PD11-LTMS-RR	146	92734	92736	-	-	▪	-	Ø 9 m	super flat

## Product and accessory

Description	Colour	Part number
PD2N-KNX-BA-FC	white	93380
PD2N-KNX-BA-FM	white	93381
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



## Product Information

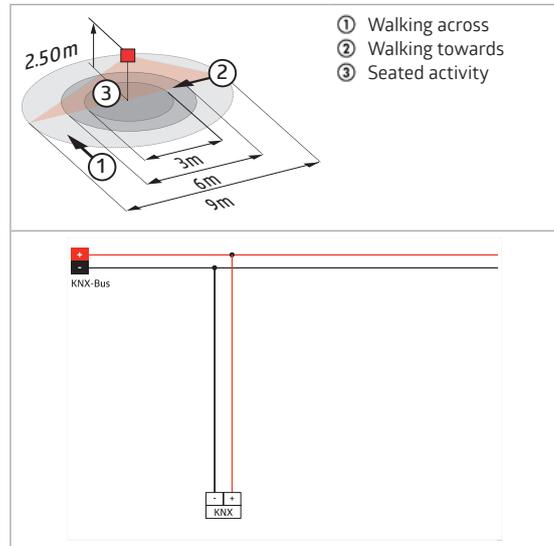
- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- Full automatic mode
- 1x light (for switching), 1 separate HVAC bloc
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Behaviour upon 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
- ⏏ 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
- IP FC= IP20 / Class III
- IP 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

Product and accessory

Description	Colour	Part number
PD11-KNX-FLAT-BA-FC	white	93803
Cover ring PD11 Ø 100 mm	white	92692
Cover ring PD11 Ø 52 mm	black	92537
In-wall mounting set 1 / PD11	white	92832
In-wall mounting set 2 / PD11	white	92833
Square design frame PD11 FC	white mat, similar to RAL 9010	92994



Product Information

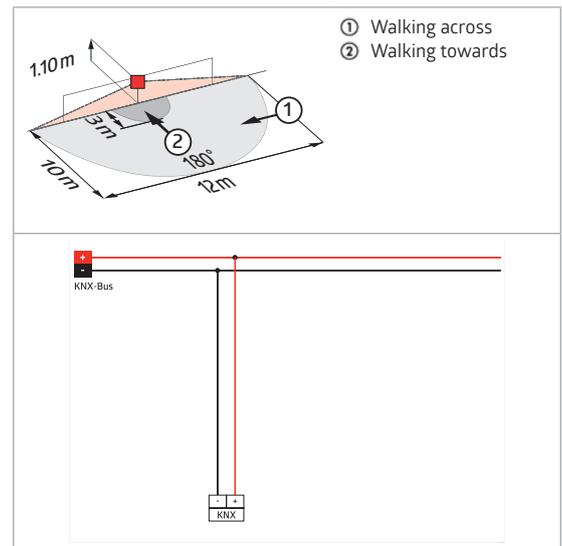
- Low profile KNX occupancy detector with integrated KNX bus connector
- Full automatic mode
- 1x light (for switching), 1 separate HVAC bloc
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- Status LEDs can be activated / deactivated
- Behaviour upon bus voltage 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
- ⊘ 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
- IP IP54 / Class III
- 🌡 -25 °C to +55 °C
- 📦 Polycarbonate, UV-resistant
- ☀ 5 - 2000 Lux

## Product and accessory

Description	Colour	Part number
Indoor 180-KNX-BA covering not included	-	93362
Surface mounting socket Indoor 180 pure white	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white matt, similar to RAL 1013	39076



## Product Information

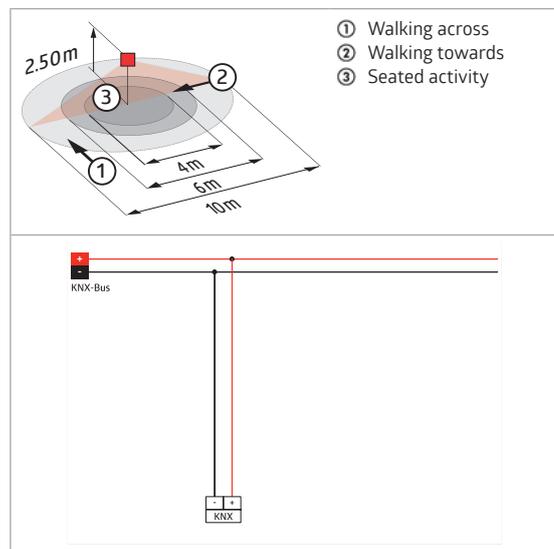
- KNX occupancy detector with integrated KNX bus coupler, especially for installation in walls
- Full automatic mode
- 1x light (for switching), 1 separate HVAC bloc
- Individual adaption of the PIR sensor sensitivity
- Measuring of mixed light thanks to internal light sensor
- Various locking functions
- 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 × 70 × 61 mm
- ⓐ 12 mA
- ⌒ horizontal 180°
- ⚠ max. 10 m across; max. 3 m towards
- Ⓜ 157 m<sup>2</sup> / 1.1 m mounting height
- Ⓜ 1 m / 2.2 m / 1.1 m
- IP IP20 / Class III
- 🌡 -25 °C to +55 °C
- 📦 Polycarbonate, UV-resistant
- 🔦 Number of light sensors: 1
- 🎯 Number of PIR sensors: 1
- ⚙ 5 – 2000 Lux

Product and accessory

Description	Colour	Part number
PD2N-KNX-ST-FC	white	93382
PD2N-KNX-ST-FM	white	93383
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



Product Information

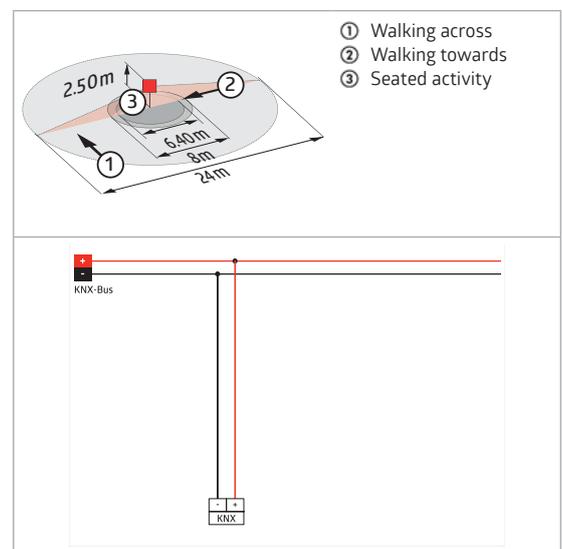
- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic 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](http://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
- 📏 IP 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: 1
- 🕒 5 - 100 % / OFF / 1 min - 255 min
- 🕒 5 - 100 %
- 🕒 5 - 2000 Lux

## Product and accessory

Description	Colour	Part number
PD4N-KNX-ST-FC	white	93384
PD4N-KNX-ST-FM	white	93385
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



## Product Information

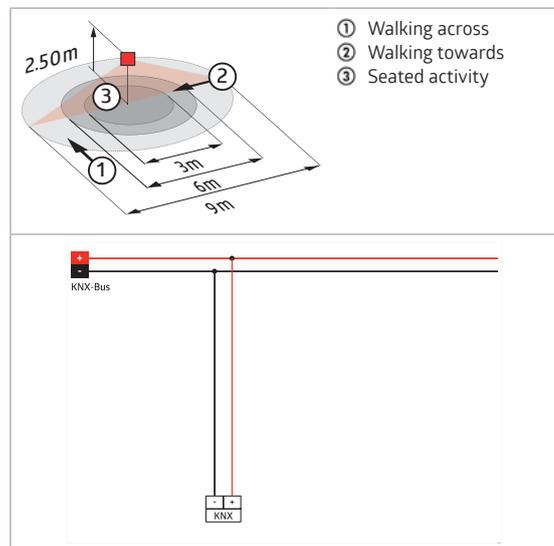
- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Individual adaption of 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](http://www.beg-luxomat.com)

## Technical Data

- ⌚ via KNX BUS
- ⏏ FC= Ø 106 x 74 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 m<sup>2</sup> / 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

Product and accessory

Description	Colour	Part number
PD11-KNX-FLAT-ST-FC	white	93802
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
Square design frame PD11 FC	white mat, similar to RAL 9010	92994
In-wall mounting set 2 / PD11	white	92833
In-wall mounting set 1 / PD11	white	92832
Cover ring PD11 Ø 100 mm	white	92692
Cover ring PD11 Ø 52 mm	black	92537



Product Information

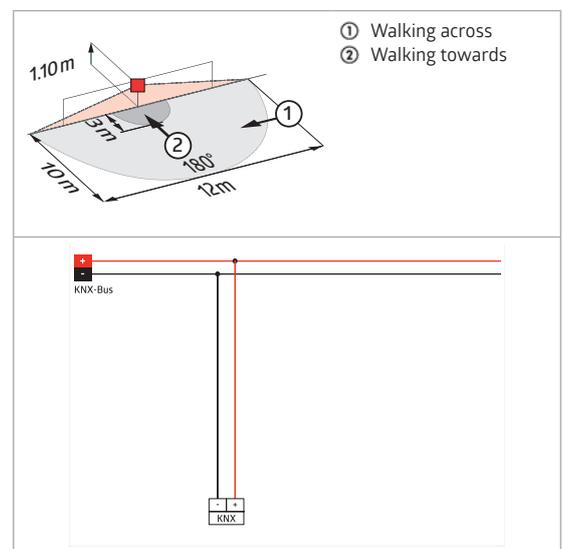
- Low profile KNX occupancy detector with integrated KNX bus connector
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Individual 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](http://www.beg-luxomat.com)

Technical Data

- ⌚ via KNX BUS
- ⊠ 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
- ⊖ -25 °C to +55 °C
- ⊞ Polycarbonate, UV-resistant
- ⊞ 5 - 100 % / OFF / 1 min - 255 min
- ⊞ 5 - 100 %
- ⊞ 5 - 2000 Lux

## Product and accessory

Description	Colour	Part number
Indoor 180-KNX-ST covering not included	-	93363
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
Surface mounting socket Indoor 180 pure white	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white matt, similar to RAL 1013	39076



## Product Information

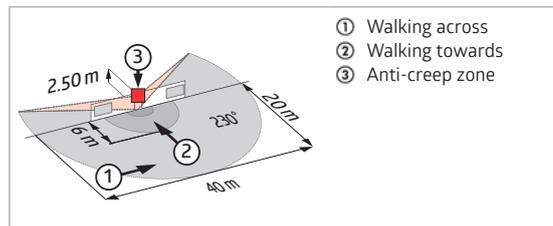
- KNX occupancy detector with integrated KNX bus coupler, especially for installation in walls
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), 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](http://www.beg-luxomat.com)

## Technical Data

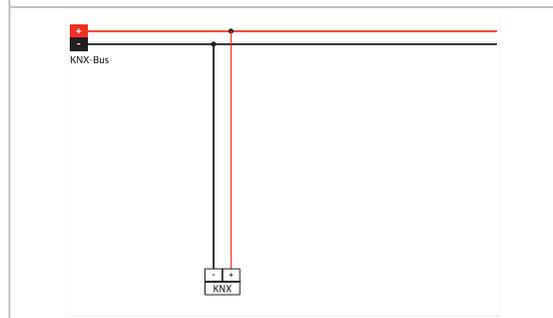
- ⊖ via KNX BUS
- ⏏ (covering not included) 70 × 70 × 61 mm
- ⓐ 12 mA
- 📐 horizontal 180°
- ⚠ max. 10 m across; max. 3 m towards
- 📏 157 m² / 1.1 m mounting height
- 📏 1 m / 2.2 m / 1.1 m
- 📏 IP20 / Class III
- 🌡 -25 °C to +55 °C
- 📏 Polycarbonate, UV-resistant
- 📏 Number of light sensors: 1
- 📏 Number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

### Product and accessory

Description	Colour	Part number
RC-plus next N 230 KNX-DX	white	93394
RC-plus next N 230 KNX-DX	black	93395
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Wire basket BSK (Ø 164 x 143 mm)	white	92467
Inside corner socket RC-plus next	white	97005



- ① Walking across
- ② Walking towards
- ③ Anti-creep zone



### Product Information

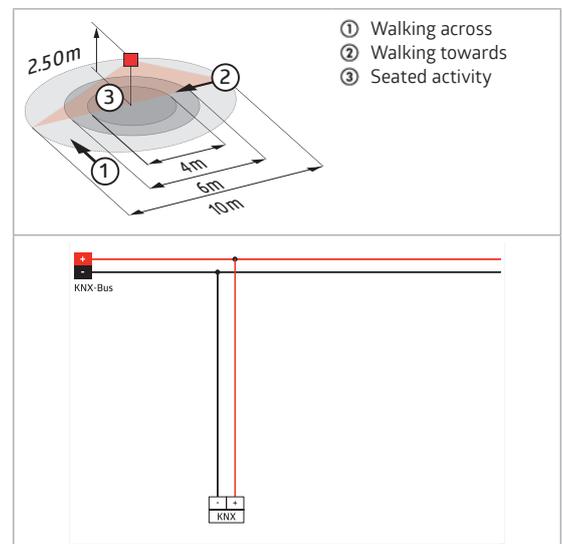
- KNX occupancy detector with integrated KNX bus connector
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption of 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](http://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

Description	Colour	Part number
PD2N-KNX-DX-FC	white	93360
PD2N-KNX-DX-FM	white	93361
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



## Product Information

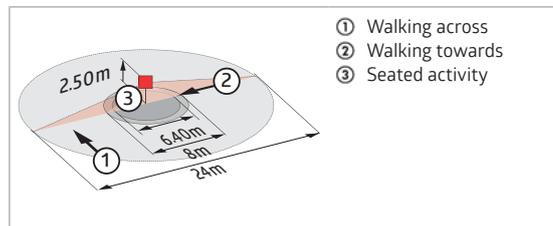
- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic 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](http://www.beg-luxomat.com)

## Technical Data

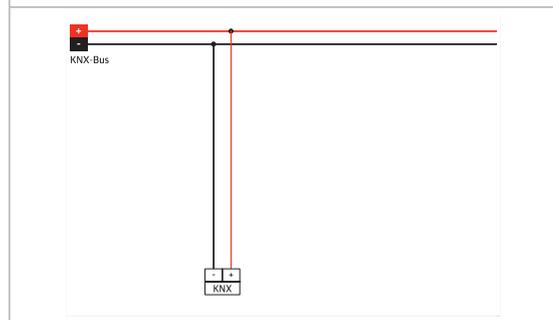
- ⊖ via KNX BUS
- ⊠ FC= Ø 83 x 55 mm
- ⊠ FM= Ø 106 x 42 mm
- ⓐ 12 mA
- ⤴ vertical 360°
- ⚠ max. Ø 10 m across; max. Ø 6 m towards;
- ⚠ max. Ø 4 m seated
- Ⓜ² 79 m² / 2.5 m mounting height
- ⚡ 2 m / 5 m / 2.5 m
- Ⓜ IP FC= IP20 / Class III
- Ⓜ IP FM= IP20 / Class III
- 🌡 Temperature measurement range: -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

Product and accessory

Description	Colour	Part number
PD4N-KNX-DX-FC	white	93386
PD4N-KNX-DX-FM	white	93387
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



- ① Walking across
- ② Walking towards
- ③ Seated activity



Product Information

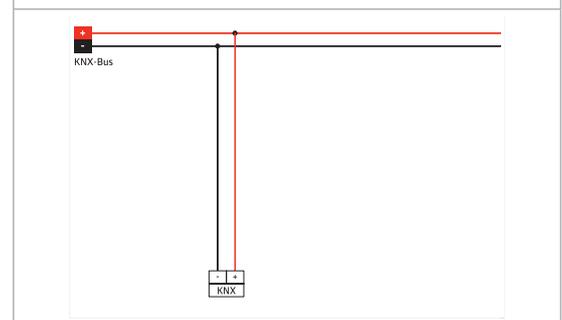
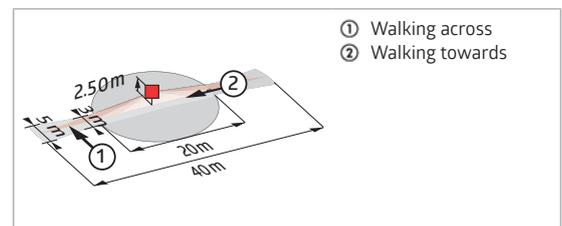
- KNX occupancy detector with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic 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](http://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
- 📏 IP 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

## Product and accessory

Description	Colour	Part number
PD4N-KNX-C-DX-FC	white	93388
PD4N-KNX-C-DX-FM	white	93389
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Wire basket BSK (Ø 200 x 90 mm)	white	92199
SM socle mounting set IP54 PD2N/4N-FM	white	93307



## Product Information

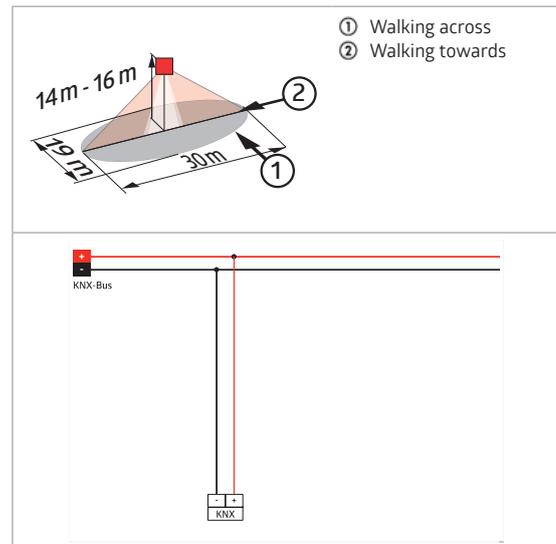
- KNX occupancy detector designed for corridors, with integrated KNX bus connector
- Low installation depth
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric 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](http://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 40 m across; max. Ø 20 m towards
- ⌚ 250 m<sup>2</sup> / 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

Product and accessory

Description	Colour	Part number
PD4-KNX-GH-DX-SM	white	93399
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398



Product Information

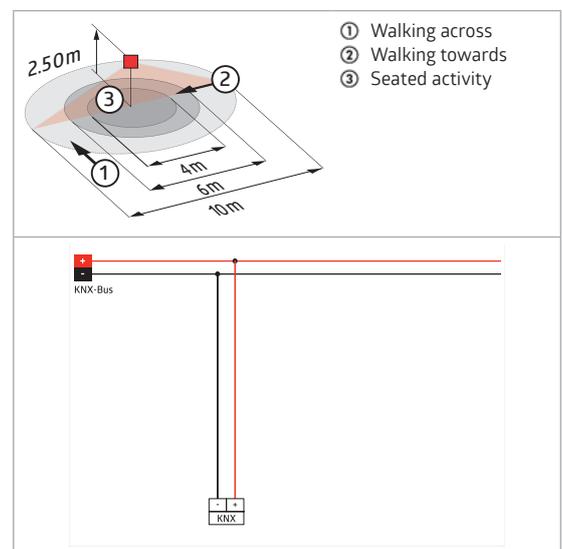
- KNX occupancy detector designed for high-bay warehouses, with integrated KNX bus connector
- External telescopic light sensor for a mounting height between 5 and 16m (mechanically adjustable) for measuring the light according to the application.
- 1x light output (for regulating or switching), 1x slave 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](http://www.beg-luxomat.com)

Technical Data

- ⌚ via KNX BUS
- ⏏ ∅ 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

Description	Colour	Part number
PD9-KNX-DX-FC	white	93390
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Cover PD9 IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## Product Information

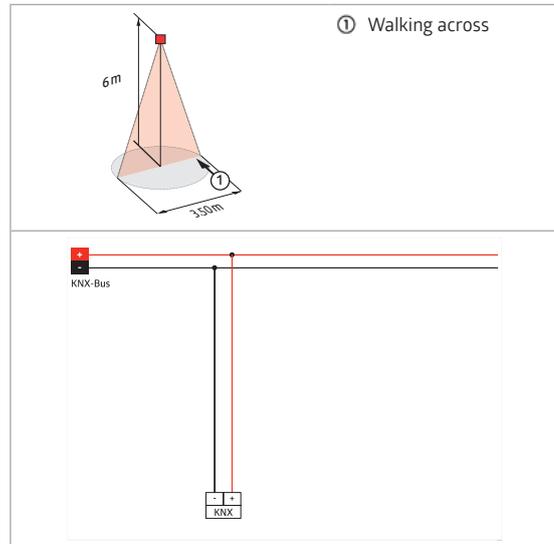
- KNX mini occupancy detector with integrated bus connector
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- 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](http://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 m<sup>2</sup> / 2.5 m mounting height
- ⚖ 2 m / 5 m / 2.5 m
- IP 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

Product and accessory

Description	Colour	Part number
PD9-KNX-GH-DX-FC	white	93391
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



Product Information

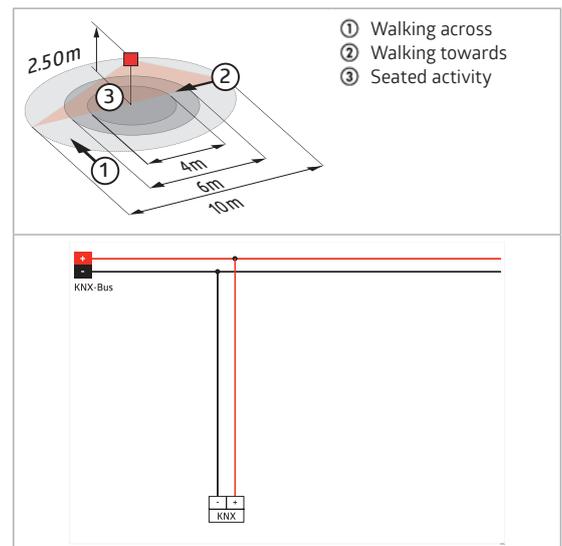
- KNX mini occupancy detector with integrated KNX bus connector, especially for large mounting heights
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual 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
- 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](http://www.beg-luxomat.com)

Technical Data

- ⌚ via KNX BUS
- 📏 Sensor head: Ø 45 x 40 mm, Power supply: 129 x 29 x 22 mm
- ⓐ 12 mA
- 📐 vertical 360°
- 📏 max. Ø 3.5 m across
- 📏 10 m<sup>2</sup> / 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

## Product and accessory

Description	Colour	Part number
PICO-KNX-DX-FC	white	92719
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398



## 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
- Further product information see product page on [www.beg-luxomat.com](http://www.beg-luxomat.com)

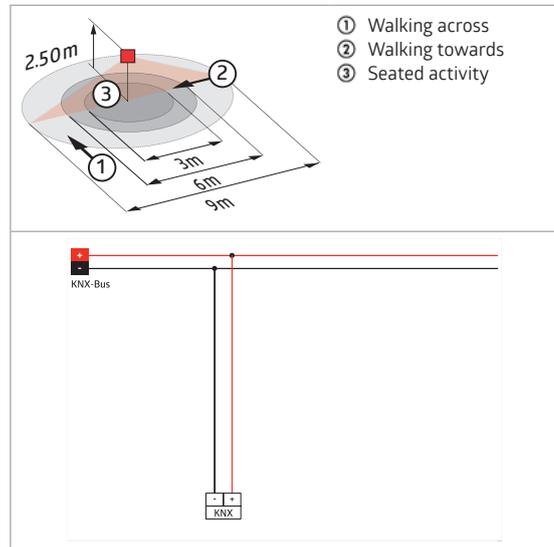
## Technical Data

- ⊖ via KNX BUS
- ⊘ 33 × 32 mm
- ⓐ 12 mA
- ∠ vertical 360°
- △ max. Ø 10 m across; max. Ø 6 m towards; max. Ø 4 m seated
- Ⓜ² 79 m² / 2.5 m mounting height
- Ⓜ 2 m / 3 m / 2.5 m
- IP 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

Product and accessory

Description	Colour	Part number
PD11-KNX-FLAT-DX-FC	white	93392
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Cover ring PD11 Ø 52 mm	black	92537
Cover ring PD11 Ø 100 mm	white	92692
Square design frame PD11 FC	white mat, similar to RAL 9010	92994
In-wall mounting set 1 / PD11	white	92832
In-wall mounting set 2 / PD11	white	92833



Product Information

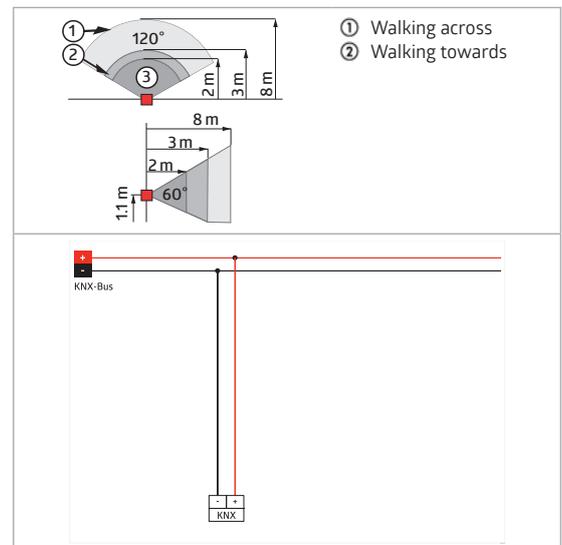
- Low profile KNX occupancy detector with integrated KNX bus connector
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two 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](http://www.beg-luxomat.com)

Technical Data

- ⊖ via KNX BUS
- ⊘ 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

## Product and accessory

Description	Colour	Part number
Indoor 140-L-KNX-DX covering not included	-	93393
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Central plate Indoor 140 45x45 pure white glossy	pure white	38946



## Product Information

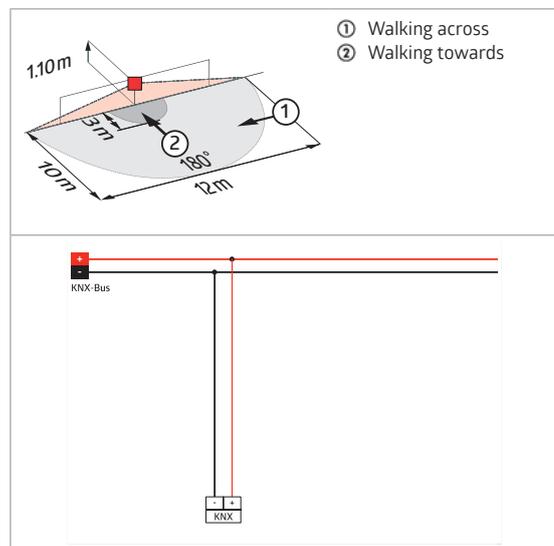
- KNX occupancy detector with integrated KNX bus coupler, especially for installation in walls
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual adaption 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](http://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 m<sup>2</sup> / 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

Product and accessory

Description	Colour	Part number
Indoor 180-KNX-DX covering not included	-	93364
BLE-IR-Adapter	black	93067
IR-Adapter for Smartphones	black	92726
IR-PD-KNX	-	92123
IR-PD-KNX-Mini	-	93398
Surface mounting socket Indoor 180 pure white	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white matt, similar to RAL 1013	39076



Product Information

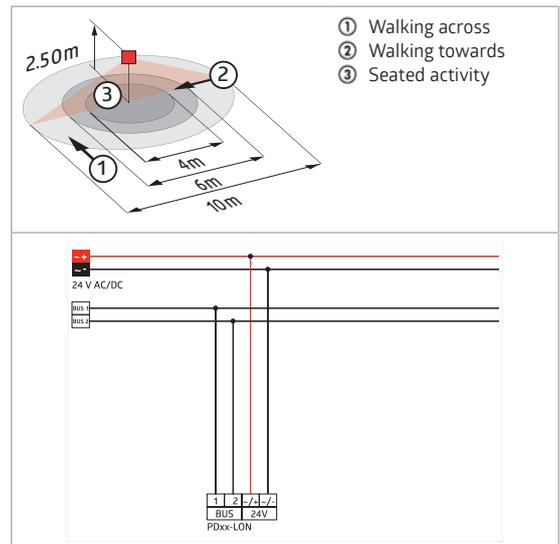
- KNX occupancy detector with integrated KNX bus coupler, especially for installation in walls
- 1x light output (for regulating or switching), 1x slave output, 3 x HVAC outputs (separately programmable)
- Intelligent semi-automatic mode, occupancy-independent regulating mode (photoelectric switch), full automatic mode
- Two logic modules
- Individual 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](http://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
- IP 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

Product and accessory

Description	Colour	Part number
PD2N-LON-SM	white	92734
PD2N-LON-FC	white	92736
IR-Adapter for Smartphones	black	92726
IR-PD-LON	-	92835
Wire basket BSK (Ø 200 x 90 mm)	white	92199



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
  - 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

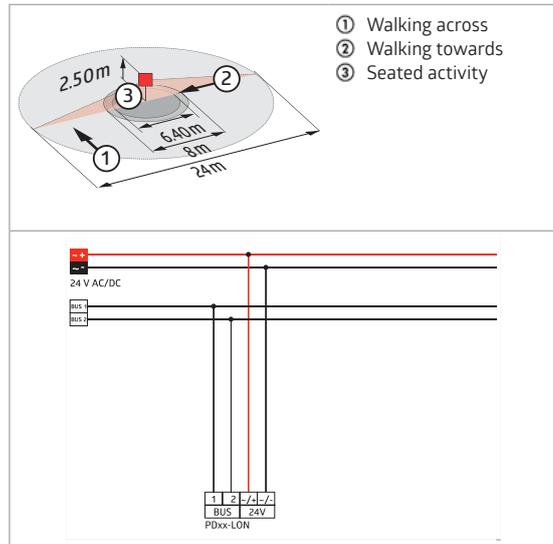
Technical Data

- ⊖ 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
- Ⓜ² 79 m² / 2.5 m mounting height
- Ⓩ 2 m / 5 m / 2.5 m
- IP SM= IP20 / Class II  
FC= IP20 / Class II
- 🌡 +5 °C to +50 °C
- 📦 Polycarbonate, UV-resistant
- ⚙ 0 - 2000 Lux  
Mixed light measuring

## LON

## Product and accessory

Description	Colour	Part number
PD4N-LON-FC	white	92831
PD4N-LON-SM	white	92834
IR-Adapter for Smartphones	black	92726
IR-PD-LON	-	92835
Wire basket BSK (Ø 200 x 90 mm)	white	92199
Square design frame PD4-FC	pure white mat, similar to RAL 9010	92992



## Product Information

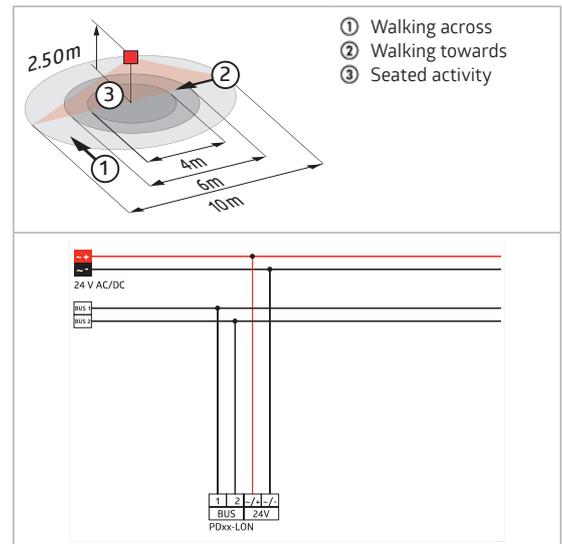
- LON occupancy detector with integrated light sensor for daylight-dependent lighting regulation
- The following device functions are provided as bus variables:
  - 1 x Light sensor
  - 2 x Occupancy sensor
  - 2 x Occupancy & Light controller
  - 2 x Occupancy controller
  - 2 x Sunblind Switch
  - 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

Description	Colour	Part number
PD9-LON-FC	white	92989
IR-Adapter for Smartphones	black	92726
IR-PD-LON	-	92835
Cover PD9 IP65 PD9-Sensor head	transparent	92958
Square design frame PD9-FC	pure white mat, similar to RAL 9010	92993



## 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
  - 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

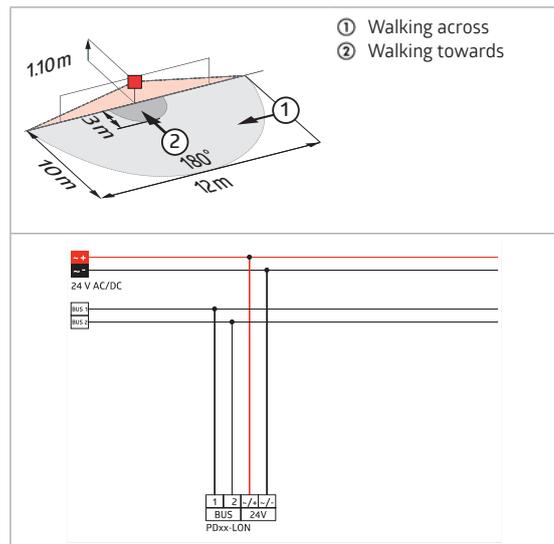
## Technical Data

- ⊖ 24 V AC / DC +/- 20%
- ⏏ Sensor head:  $\varnothing$  45 x 28 mm, Power supply: 120 x 29 x 22 mm
- ⓐ 12 mA at 24 V DC  
20 mA at 24 V AC
- ⏻ < 0.5 W
- 📐 vertical 360°
- 📐 max.  $\varnothing$  10 m across; max.  $\varnothing$  6 m towards;  
max.  $\varnothing$  4 m seated
- 📐 79 m<sup>2</sup> / 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

## LON

## Product and accessory

Description	Colour	Part number
Indoor 180-LON covering not included	-	92329
Surface mounting socket Indoor 180 pure white	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white matt, similar to RAL 1013	39076



## 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

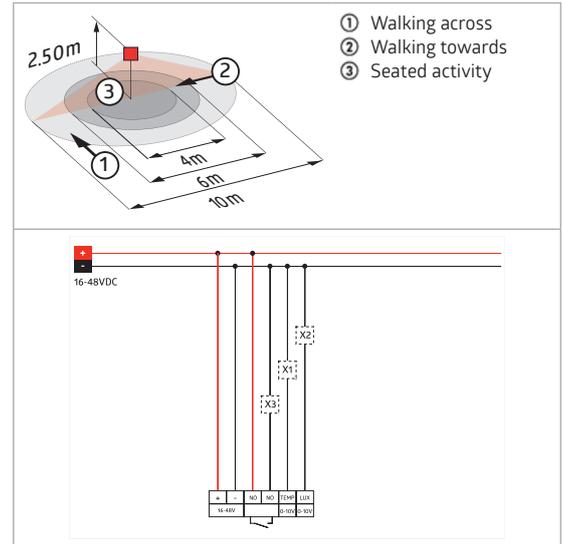
## Technical Data

- ⊖ 24 V AC / DC +/- 20%
- ⊞ 70 × 70 × 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 m<sup>2</sup> / 1.1 m mounting height
- ⚖ 1 m / 2.2 m / 1.1 m
- IP IP20 / Class II
- 🌡 +5 °C to +50 °C
- ⚙ 0 – 2000 Lux  
Mixed light measuring

Proprietary systems

Product and accessory

Description	Colour	Part number
PD2N-LTMS-FC	white	92113
Wire basket BSK (Ø 200 x 90 mm)	white	92199



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

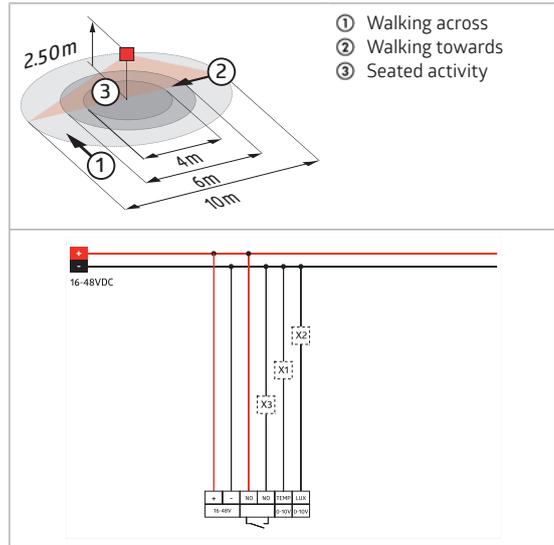
Technical Data

- ⊖ 16 – 48 V DC
- ⊘ 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

Proprietary systems

Product and accessory

Description	Colour	Part number
PD2N-LTMS-RR-FC	white	92119
IR-Adapter for Smartphones	black	92726
IR-LTMS	-	92185
Wire basket BSK (Ø 200 x 90 mm)	white	92199



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.

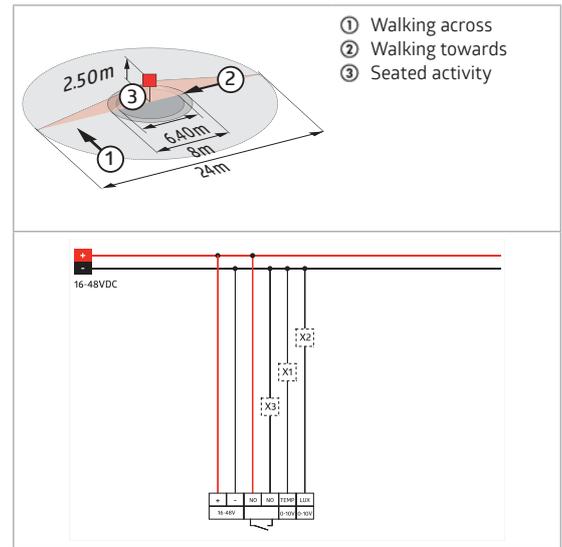
Technical Data

- ⊖ 16 – 48 V DC
- ⊘ 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

Proprietary systems

Product and accessory

Description	Colour	Part number
PD4N-LTMS-RR-FC	white	92709
IR-Adapter for Smartphones	black	92726
IR-LTMS	-	92185
Wire basket BSK (Ø 200 x 90 mm)	white	92199



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.

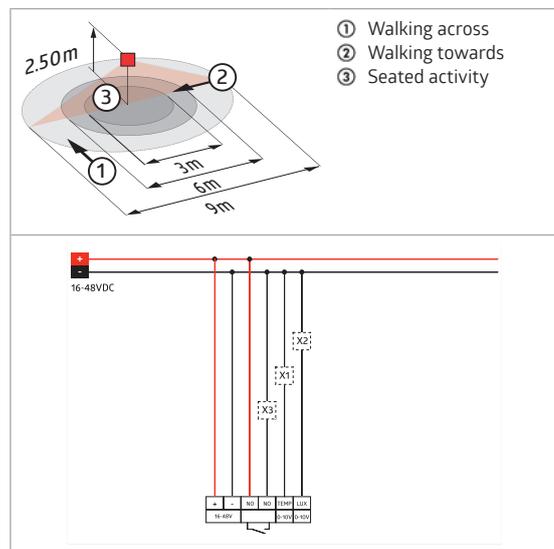
Technical Data

- ⊖ 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 m<sup>2</sup> / 2.5 m mounting height
- ⤴ 2 m / 10 m / 2.5 m
- IP 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

Proprietary systems

Product and accessory

Description	Colour	Part number
PD11-LTMS-RR-FC	white	92594
IR-Adapter for Smartphones	black	92726
In-wall mounting set 1 / PD11	white	92832
In-wall mounting set 2 / PD11	white	92833
Cover ring PD11 Ø 52 mm	black	92537
Cover ring PD11 Ø 100 mm	white	92692
Square design frame PD11 FC	white mat, similar to RAL 9010	92994



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 mV/ 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

# LUXOMAT® Wall motion and occupancy detectors

## 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



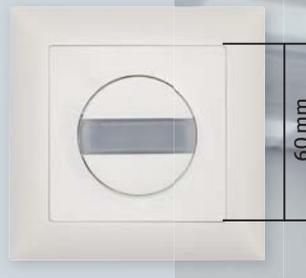
+

Covering IP20



=

Sensor covering included



pure white, glossy  
similar RAL9010  
94342



pure white, mat  
similar RAL9010  
94343



anthracite, mat,  
similar RAL7021  
94341



creme white, mat  
similar RAL9001  
94344

Sensor covering not 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



=

Covering IP20



+

Sensor covering not included



Sensor covering not included



traffic white, mat  
similar RAL9016  
92631



pure white, mat  
similar RAL9010  
92630



oyster white, mat  
similar RAL9001  
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

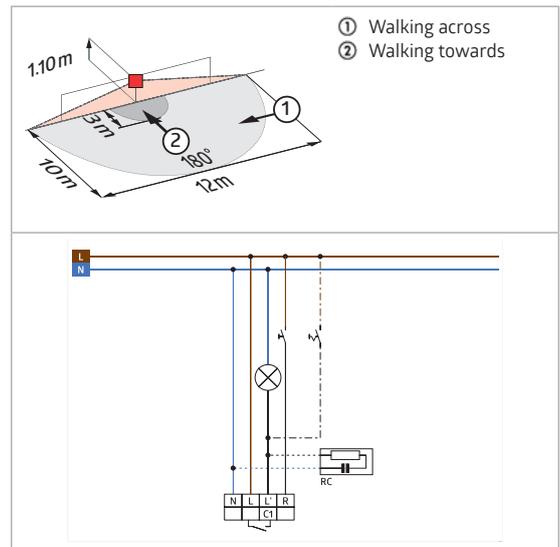
### Motion and occupancy detectors as wall switches

Wall detector	Page				Simple light measurement	Daylight evaluation	Motion detection	Remote control-capable	Range	Additional functions
Indoor 180-R	151	-	-	92623	▪	-	▪	-	max. r = 10 m	relay version with acoustic sensor
Indoor 180-T	152	-	-	92622	▪	-	▪	-	max. r = 10 m	triac version with acoustic sensor
Indoor 180-R-2D	153	-	-	92616	▪	-	▪	-	max. r = 10 m	relay version with acoustic sensor
Indoor 180-TR	154	-	-	92650	▪	-	▪	-	max. r = 10 m	for staircase switches
Indoor 180N-R/2W-UK	155	-	-	92716	▪	-	▪	-	max. r = 10 m	with acoustic sensor
Indoor 180-R UK	156	-	-	92610	▪	-	▪	-	max. r = 10 m	with acoustic sensor
Indoor 180-R-11-48V-3A	157	-	-	92666	▪	-	▪	-	max. r = 10 m	3A version
Indoor 180-R-11-48V-RR	158	-	-	92667	▪	-	▪	-	max. r = 10 m	with Reed relay
Indoor 140-L	159	-	-	94327	▪	-	▪	-	max. r = 8 m	switch function and downlight
Indoor 180-M-2C	160	-	-	92136	-	▪	▪	▪	max. r = 10 m	with acoustic sensor
Indoor 180-S	161	-	-	92135	▪	-	▪	-	max. r = 10 m	slave detector

Wall detectors

Product and accessory

Description	Colour	Part number
Indoor 180-R covering included	pure white mat, similar to RAL 9010	92623
Indoor 180-R covering not included	-	92665
Surface mounting socket Indoor 180	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white mat, similar to RAL 1013	39076



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

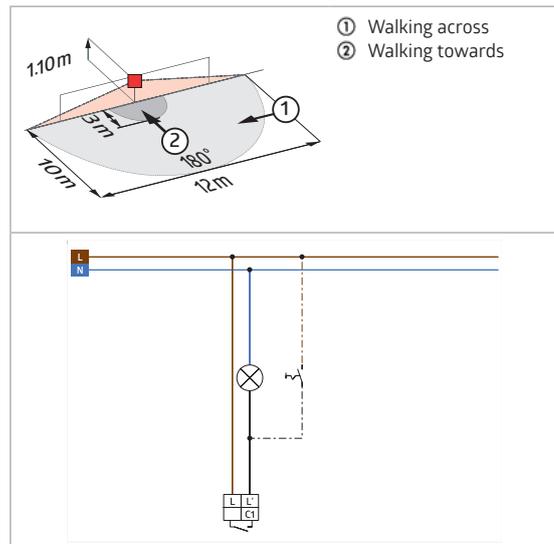
Technical Data

- ⊖ 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
- Ⓜ² 157 m² / 1.1 m mounting height
- Ⓩ 1 m / 2.2 m / 1.1 m
- IP 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Description	Colour	Part number
Indoor 180-T covering included	pure white mat, similar to RAL 9010	92622
Indoor 180-T covering not included	-	92664
Surface mounting socket Indoor 180	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white mat, similar to RAL 1013	39076



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

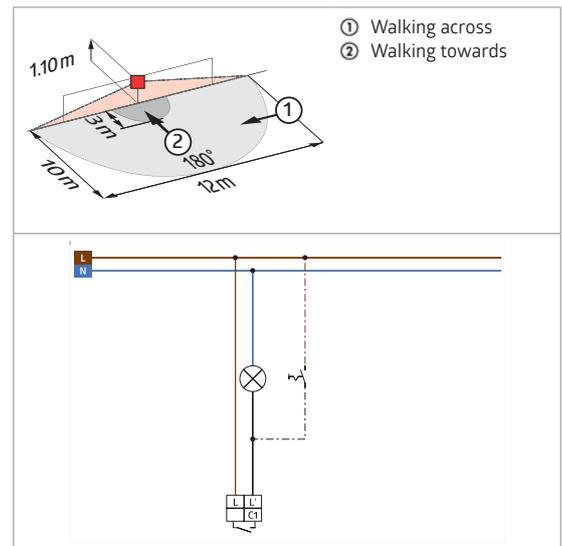
Technical Data

- ⌚ 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 / 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 (lighting control)**
- 💡 300 W, cos φ = 1 / min. 40 W
- 🕒 15 sec – 16 min, Pulse
- 🌞 10 – 2000 Lux

Wall detectors

Product and accessory

Description	Colour	Part number
Indoor 180-R-2D covering included	pure white mat, similar to RAL 9010	92616
Surface mounting socket Indoor 180	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white mat, similar to RAL 1013	39076



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

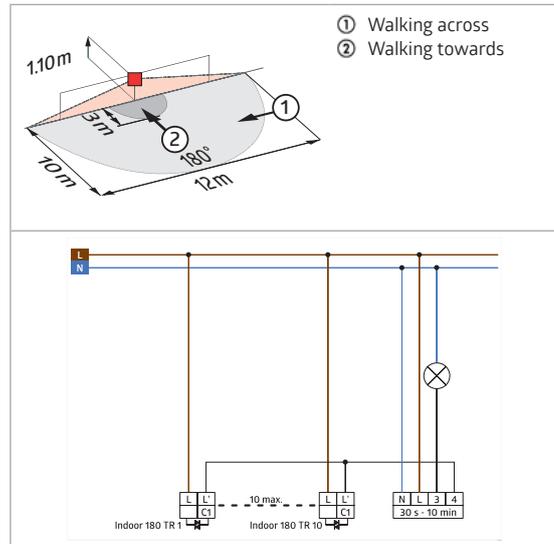
Technical Data

- 110 – 240 V AC 50 / 60 Hz
- 5 x NiMH / 30 AAAAA
- 1.2 V / 200 mAh
- 87 x 87 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 / 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); 300 W LED; max. inrush current I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A
- 1x μ-contact, NO contact with tungsten pre-make contact
- 15 sec – 16 min, Pulse
- 2 – 2000 Lux

Wall detectors

Product and accessory

Description	Colour	Part number
Indoor 180-TR covering included	pure white mat, similar to RAL 9010	92650
Indoor 180-TR covering not included	-	92668
SCT1	grey	92655
Surface mounting socket Indoor 180	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white mat, similar to RAL 1013	39076



Product Information

- 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

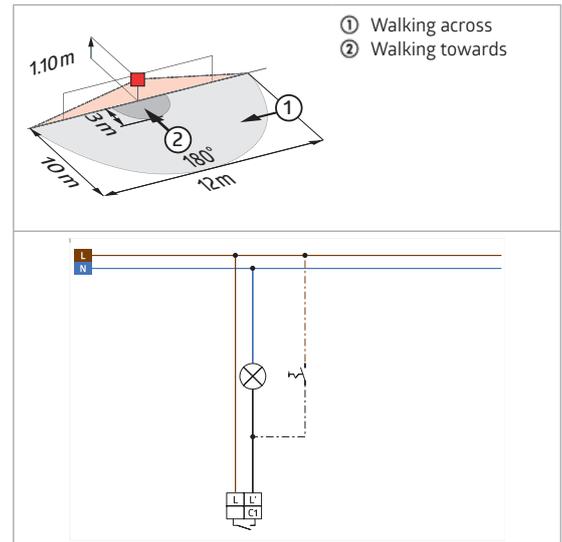
Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz Power supply via staircase switch
- 📏 covering included 87 × 87 × 61 mm  
covering not included 70 × 70 × 61 mm
- ⚡ approx. 0.8 W
- 📐 horizontal 180°
- 🏠 max. 10 m across; max. 3 m towards
- 📏 157 m<sup>2</sup> / 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 / 230 V
- 🕒 Pulse duration 0.1 sec; Deactivation of light evaluation 1 min – 10 min
- 🌞 2 – 2000 Lux

Wall detectors

Product and accessory

Description	Colour	Part number
Indoor 180N-R/2W-UK covering included	pure white glossy, similar to RAL 9010	92716
RC-suppression kit	white/brown/black	10881



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

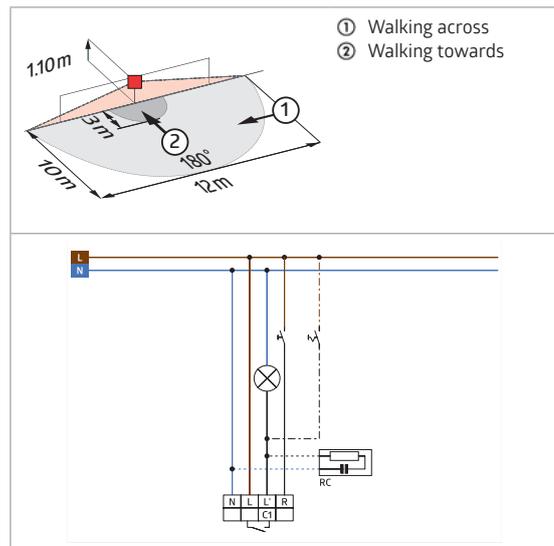
Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- 🔋 4xNiMH / 1,2V / 200mAh
- 📏 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 / 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); 300 W LED; max. inrush current I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A
- ⌚ 15 sec – 60 min
- ⚙️ 10 – 2000 Lux

Wall detectors

Product and accessory

Description	Colour	Part number
Indoor 180-R UK covering included	pure white mat, similar to RAL 9010	92610
Surface mounting socket Indoor 180	pure white	92141
Central plate Indoor 180	oyster white mat, similar to RAL 1013	39076
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947



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

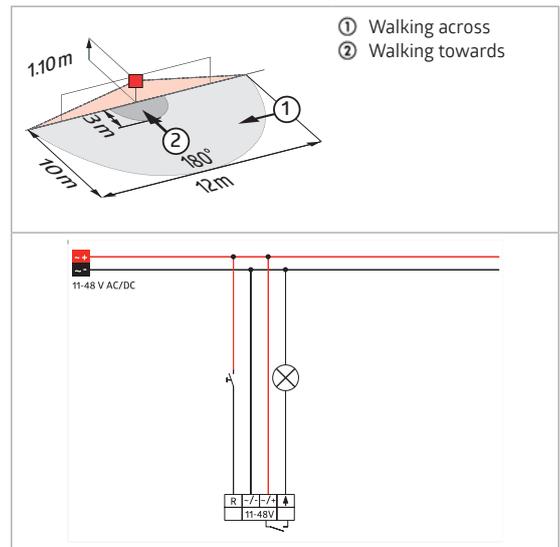
Technical Data

- ⊖ 110 – 240 V AC 50 / 60 Hz
- ⊞ 87 × 87 × 61 mm
- ⊖ 110 – 240 V AC
- ⊞ approx. 0.5 W
- ⊞ horizontal 180°
- ⊞ max. 10 m across; max. 3 m towards
- ⊞ 157 m<sup>2</sup> / 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 (lighting control)**
- ⊞ 2300 W, cos φ = null; 1150 VA, cos φ = 0.5; 300 W LED; max. inrush current I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (200 μs) = 800 A
- ⊞ 15 sec – 16 min, Pulse
- ⊞ 40 – 2000 Lux

Wall detectors

Product and accessory

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



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

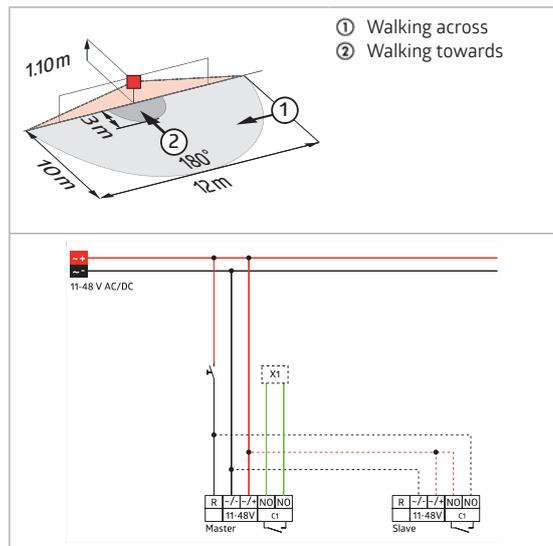
Technical Data

- ⊖ 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 / 1.1 m
- IP 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

Wall detectors

Product and accessory

Description	Colour	Part number
Indoor 180-R-11-48V-RR covering not included	-	92667
Surface mounting socket Indoor 180	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white mat, similar to RAL 1013	39076



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 × 70 × 61 mm
- ⏏ approx. 1 W
- 📐 horizontal 180°
- 📏 max. 10 m across; max. 3 m towards
- 📏 157 m<sup>2</sup> / 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 (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

## Wall detectors

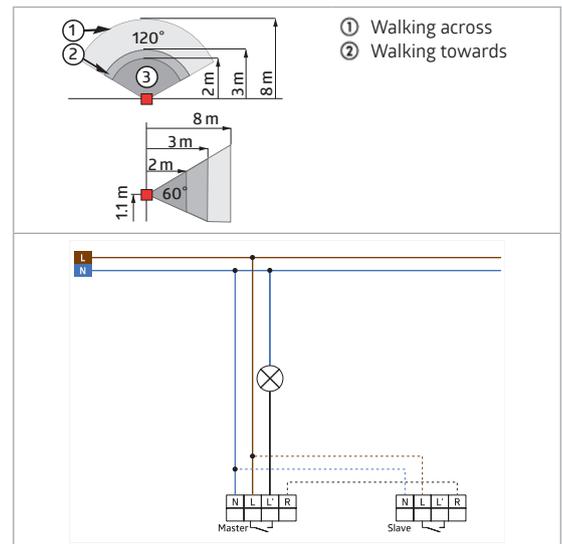
## Product and accessory

Description	Colour	Part number
Indoor 140-L covering included	white glossy, similar to RAL 9010	94327



## 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



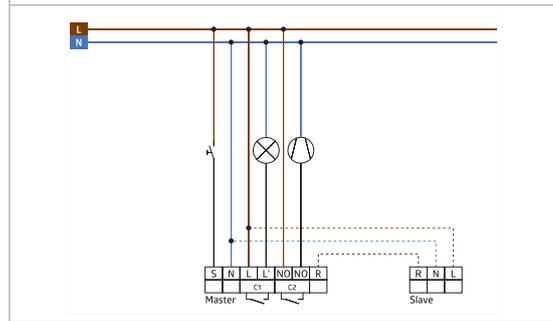
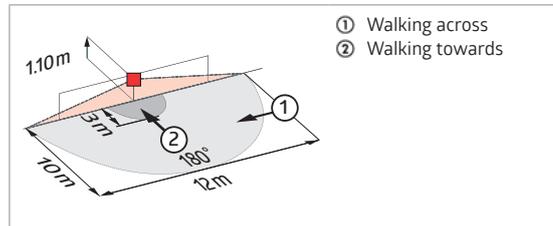
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- 📏 88 × 88 × 30 mm
- ⚡ approx. 0.4 W / approx. 0.8 W with nightlight
- 📐 horizontal 120°
- 📏 max. 8 m across; max. 3 m towards
- 📏 67 m<sup>2</sup> / 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 I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

Wall detectors

Product and accessory

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



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)

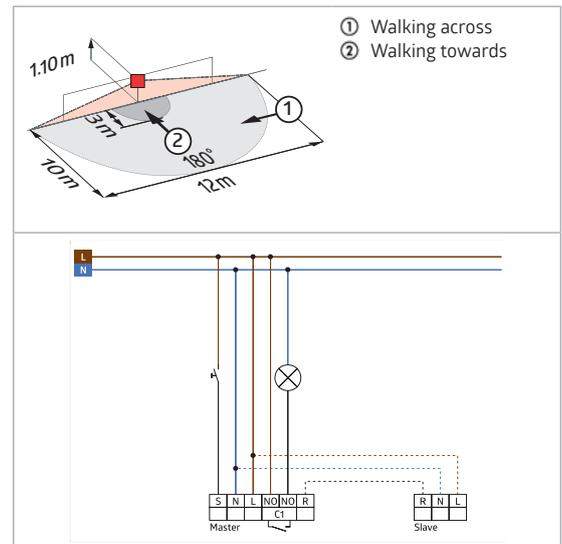
Technical Data

- ⊖ 110 – 240 V AC 50 / 60 Hz
- ▭ covering included= 87 × 87 × 61 mm  
covering not included= 70 × 70 × 61 mm
- ⏻ approx. 0.4 W
- 📐 horizontal 180°
- ⚠ max. 10 m across; max. 3 m towards
- 📏 157 m<sup>2</sup> / 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 (lighting control)**
- 💡 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; 300 W LED;  
max. inrush current I<sub>p</sub> (20 ms) = 165 A; max. inrush current I<sub>p</sub> (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

## Wall detectors

## Product and accessory

Description	Colour	Part number
Indoor 180-S covering included	pure white mat, similar to RAL 9010	92135
Indoor 180-S covering not included	-	92660
Surface mounting socket Indoor 180	pure white	92141
Central plate Indoor 180	traffic white mat, similar to RAL 9016	38947
Central plate Indoor 180	oyster white mat, similar to RAL 1013	39076

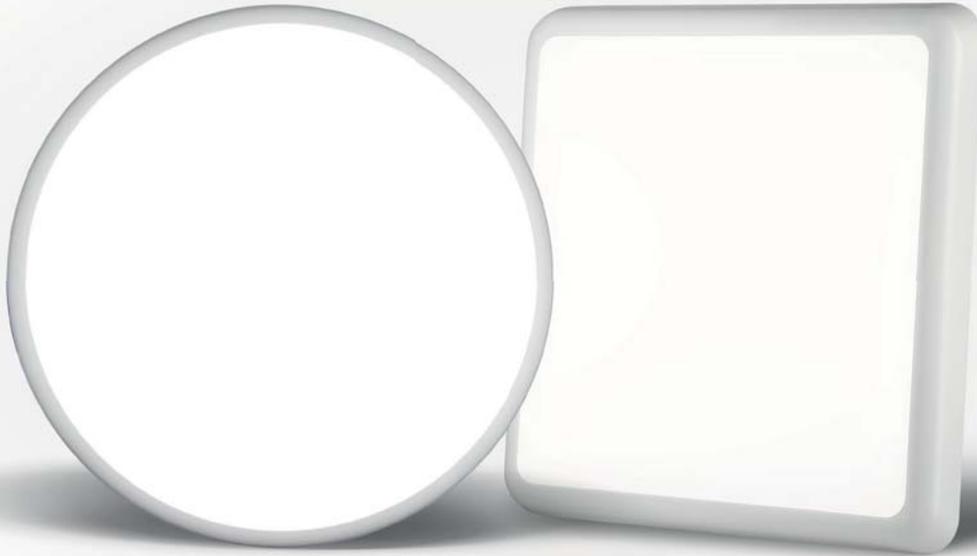


## Product Information

- 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 × 87 × 61 mm  
covering not included 70 × 70 × 61 mm
- ⚡ approx. 0.2 W
- 📐 horizontal 180°
- 📏 max. 10 m across; max. 3 m towards
- 📏 157 m<sup>2</sup> / 1.1 m mounting height  
1 m / 2.2 m / 1.1 m
- 🛡️ IP20 / Class II
- 🌡️ -25 °C to +50 °C
- 📦 Polycarbonate, UV-resistant
- ⏱️ Pulse interval: 2 or 9 sec

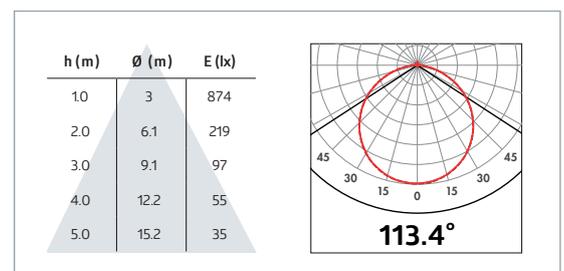
**B.E.G.****LUXOMATIC®****Extremely flat  
LED luminaires**

AL8-25-300-LED-3C-HF, Part no. 93141  
 AL8-25-300-LED-HF, Part no. 93631  
 AL8-25-300-LED-3C, Part no. 93621

AL12-25-300-LED-3C-HF, Part no. 93145  
 AL12-25-300-LED-3C, Part no. 93615

## 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.



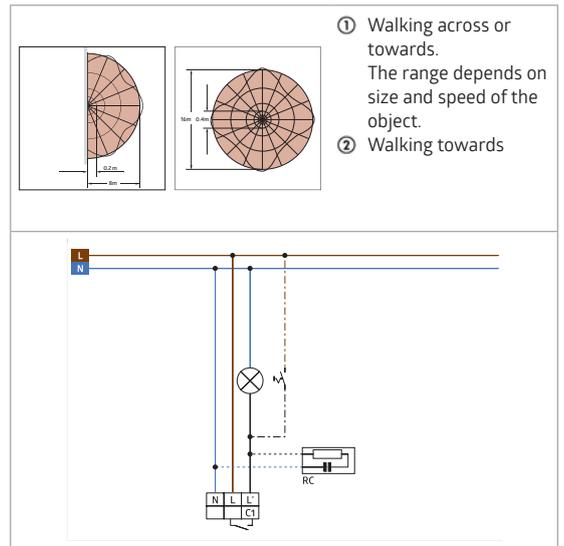
## Detector overview

### (HF) radar occupancy and motion detector

HF detector	Page				Daylight evaluation	Motion detector	Remote control-capable	Range	Additional functions
HF-MD1	165	-	94401	-	▪	▪	-	max. Ø 16 m	HF detector
HF-MD1 ESL	165	-	94417	-	▪	▪	-	max. Ø 16 m	HF detector
HF-MD2	166	-	94402	-	▪	▪	-	max. Ø 16 m	HF detector
HF-H-MD1 Standard	167	-	94431	-	▪	▪	-	max. Ø 16 m	HF detector
HF-MD3	168	-	94437	-	▪	▪	▪	max. Ø 7 m	HF detector
HF-MD4	169	-	94438	-	▪	▪	▪	max. Ø 7 m	HF detector

Product and accessory

Description	Colour	Part number
HF-MD1	white	94401
HF-MD1 ESL	white	94417



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 set via potentiometers

Technical Data

- ⌚ 230 V AC +/- 10% 50 / 60 Hz
- 📏 101 × 42 × 42 mm
- ⚡ approx. 1.2 W
- 📐 vertical 360°
- 📏 ∅ 0.4 – 16 m; max. ∅ 16 m towards
- 📏 200 m<sup>2</sup> / 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
- 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

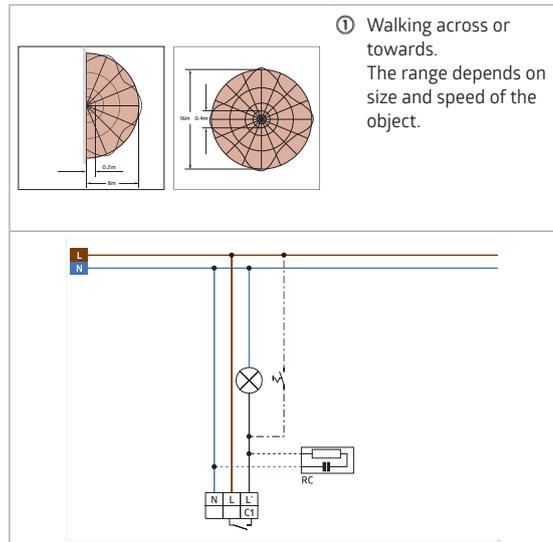
## Product and accessory

Description	Colour	Part number
HF-MD2-SM	white	94402
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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 × 45 mm
- ⏻ approx. 1.2 W
- 📐 vertical 360°
- ⚙️ Ø 0.4 – 16 m
- 📏 200 m<sup>2</sup> / 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

Product and accessory

Description	Colour	Part number
HF-H-MD1 Standard	white	94431



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

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

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 m<sup>2</sup> / 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

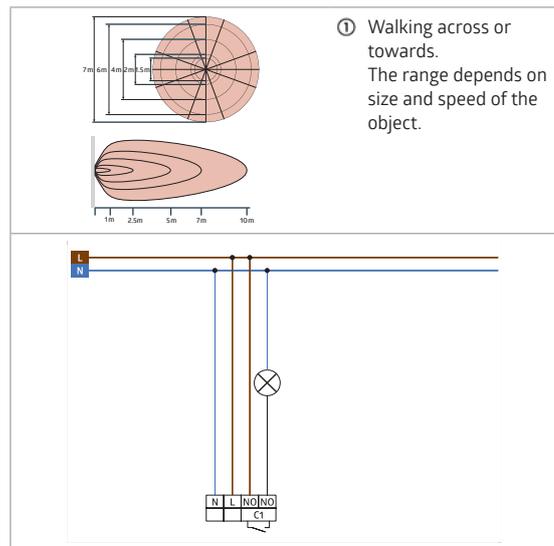
## Product and accessory

Description	Colour	Part number
HF-MD3	white	94437
IR-Adapter for Smartphones	black	92726
HF-CO1 Impact protection and strain relief	white	94460
HF-EM1 external light sensor with IR receiver	white	94459



## 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

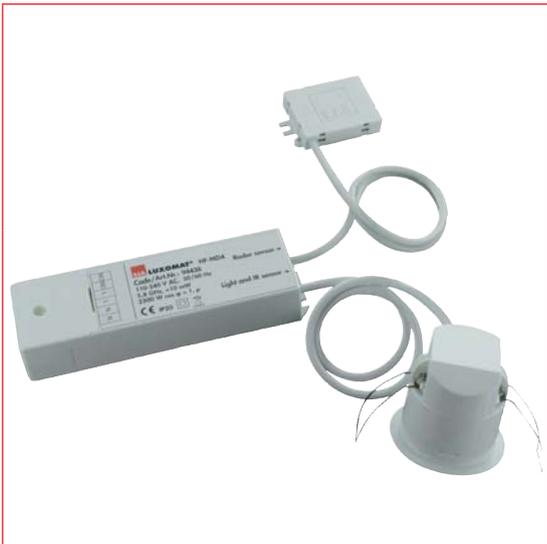


## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- 📏 120 × 40 × 26 mm
- ⚡ approx. 0.5 W
- 📐 vertical 360°
- 📏 Ø 0.2 – 7 m
- 📏 38 m<sup>2</sup> / 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

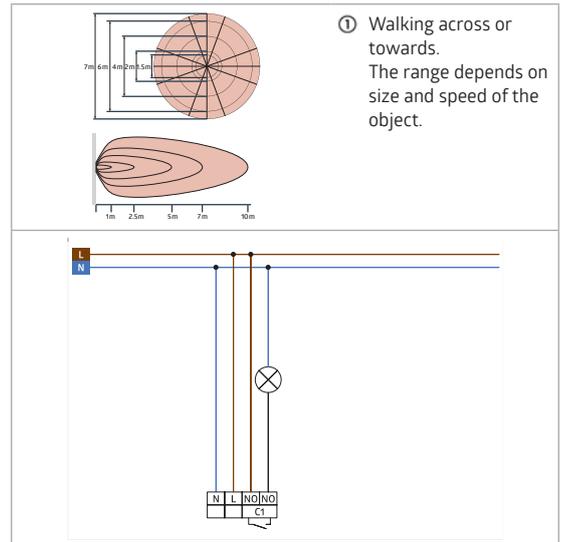
## Product and accessory

Description	Colour	Part number
HF-MD4	white	94438
IR-Adapter for Smartphones	black	92726
HF-CO1 Impact protection and strain relief	white	94460



## 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 m<sup>2</sup> / 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



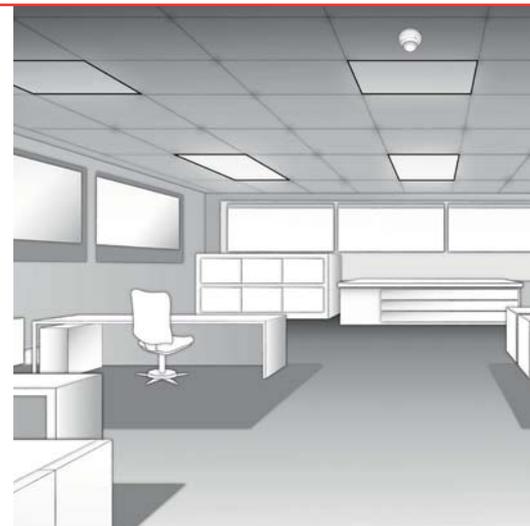
PD4-M-HCL-FC Part. no. 93006  
PD4-M-HCL-SM Art. no. 93007



## 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

## Switching 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.



## Detector overview

### Overview photo electric switches & constant light controllers

Photo electric switches	Page	Part no.	Surface mounting	Ceiling mounting	Post mounting	Device installation	DIN-rail	Remote control-capable	Switching power	Time delay
CdS-T-SM	173	92367	▪	-	-	-	-	▪	2300 W	-
CdS-SM	174	92369	▪	-	▪	-	-	-	2300 W	▪
CdS-FC	175	92249	-	▪	-	-	-	▪	2000 W	▪
CdS-R	176	92365	-	-	-	▪	-	-	1000 W	▪
TS-DD	177	92681	-	-	-	-	▪	-	1000 W	▪
CdS-LC-SM	178	93016	▪	-	-	-	-	-	2300 W	▪
CdS-DIM-FC	179	92589	-	▪	-	-	-	▪	2300 W	▪
MiniClip LR1	180	92320	-	-	-	-	-	-	-	-
CdS-DALI/DSI-FC	181	92562	-	▪	-	-	-	▪	2300 W	▪
CdS-DALI/DSI-SM	181	92563	▪	-	-	-	-	▪	2300 W	▪

## Photoelectric switches

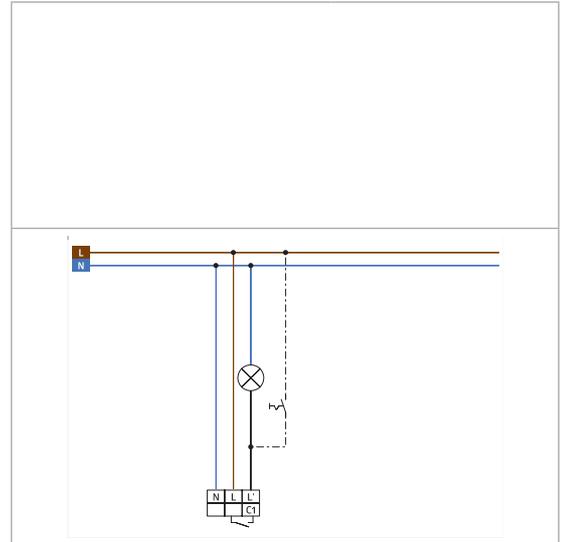
## Product and accessory

Description	Colour	Part number
CdS-T-SM	white	92367
IR-Adapter for Smartphones	black	92726
IR-CdS-T	-	92368



## Product Information

- 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



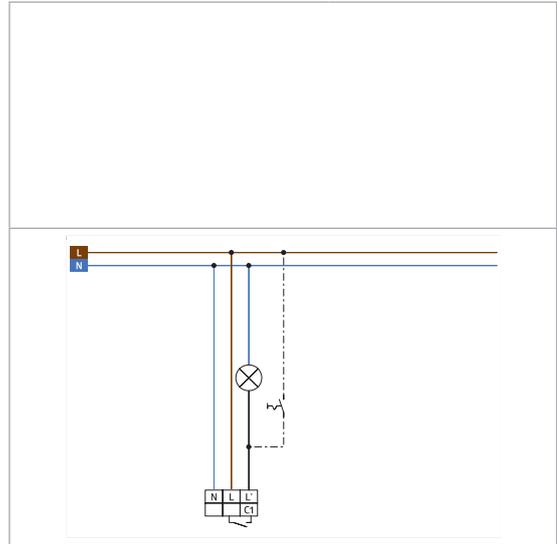
## Technical Data

- ⌚ 110 – 240 V AC 50 / 60 Hz
- 📏 69 × 63 × 55 mm
- ⏻ < 0.5 W
- 📏 IP IP54 / Class II
- 🌡️ -25 °C to +50 °C
- 📏 Polycarbonate, UV-resistant
- Channel 1 (lighting control)**
- 💡 2300 W,  $\cos \varphi = 1$ ; 1150 VA,  $\cos \varphi = 0.5$ ; max. inrush current IP (20 ms) = 165 A; max. inrush current IP (200  $\mu$ s) = 800 A
- 🔌 1x NO contact with tungsten pre-make contact
- ⚙️ 2 – 300 Lux

## Photoelectric switches

## Product and accessory

Description	Colour	Part number
CdS-SM	white	92369



## 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 × 80 × 96 mm
- ⚡ < 0.5 W
- 📦 IP54 / Class II
- 🌡️ -25 °C to +50 °C
- 📦 Polycarbonate, UV-resistant
- Channel 1 (lighting control)**
- 💡 2300 W,  $\cos \varphi = 1$ ; 1150 VA,  $\cos \varphi = 0.5$
- 🔌 1x  $\mu$ -contact, NO contact
- ⌚ 1 s - 120 s
- 🌞 2 – 1000 Lux

## Photoelectric switches

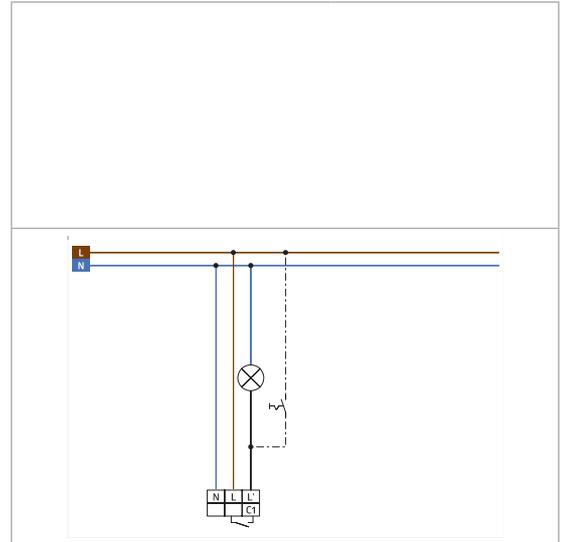
## Product and accessory

Description	Colour	Part number
CdS-FC	white	92249
IR-Adapter for Smartphones	black	92726
IR-CdS-FP	-	92396



## 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
- ⏏ ⌀ 80 × 74 mm
- ⏻ < 1 W
- IP IP20 / Class II
- 🌡 -25 °C to +50 °C
- 📦 Polycarbonate, UV-resistant
- Channel 1 (lighting control)**
- ⚡ 2000 W,  $\cos \varphi = 1$ ; 1000 VA,  $\cos \varphi = 0.5$ ; max. inrush current IP (20 ms) = 165 A; max. inrush current IP (200  $\mu$ s) = 800 A
- ⚡ 1x  $\mu$ -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

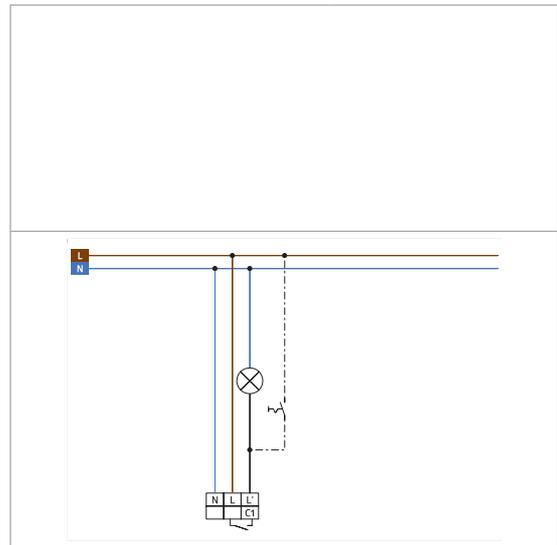
## Product and accessory

Description	Colour	Part number
CdS-R	black	92365



## 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  $\varnothing$  15 × 24 mm, Power supply: 61 × 23 × 38 mm
- 🔌 < 0.5 W
- 📦 Housing IP20 / Light sensor IP54 / Class II
- 🌡️ -25 °C to +50 °C
- 📦 Polycarbonate, UV-resistant
- Channel 1 (lighting control)**
- ⚡ 1000 W,  $\cos \varphi = 1$ ; 350 VA,  $\cos \varphi = 0.4$
- 🔌 1x  $\mu$ -contact, NO contact
- ⌚ 10 s - 15 s
- 🔌 2 – 100 Lux

## Photoelectric switches

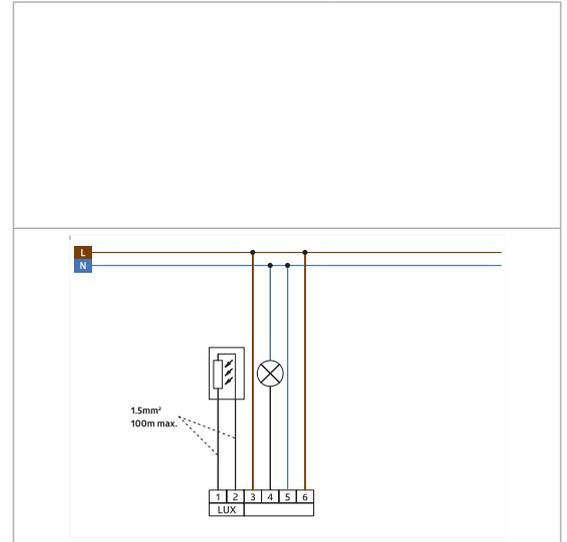
## Product and accessory

Description	Colour	Part number
TS-DD	white	92681



## 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 × 38 × 58 mm, DIN-rail mount device  
90 × 18 × 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,  $\cos \varphi = 1$ ; **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

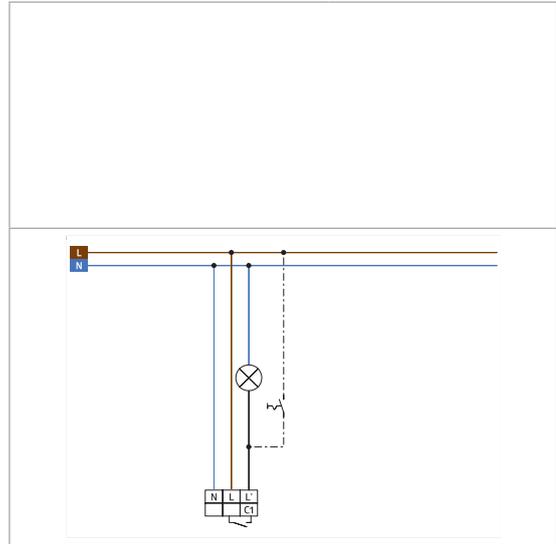
## Product and accessory

Description	Colour	Part number
CdS-LC-SM	black	93016



## 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 mm<sup>2</sup>
- ⚡ 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5
- 🔌 μ-contact, NO contact
- ⌚ 10 s
- ⌚ 40 s
- ☀️ 20 – 1000 Lux



Photoelectric switches

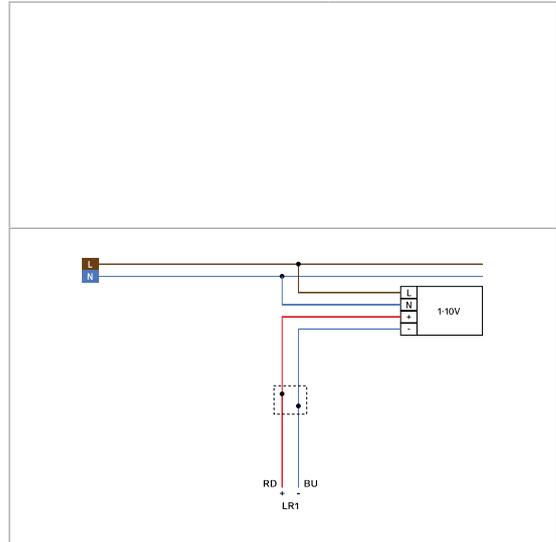
Product and accessory

Description	Colour	Part number
MiniClip LR1	white	92320



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.



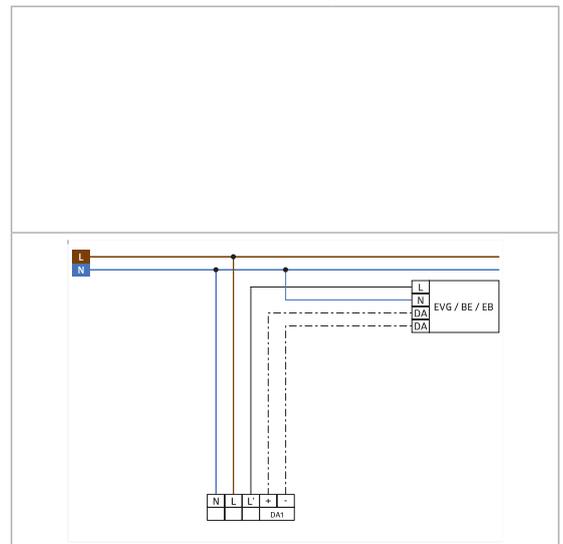
Technical Data

- 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

## Photoelectric switches

## Product and accessory

Description	Colour	Part number
CdS-DALI/DSI-FC	white	92562
CdS-DALI/DSI-SM	white	92563
IR-Adapter for Smartphones	black	92726
IR-CdS	-	92577
Wire basket BSK (Ø 200 x 90 mm)	white	92199



## 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

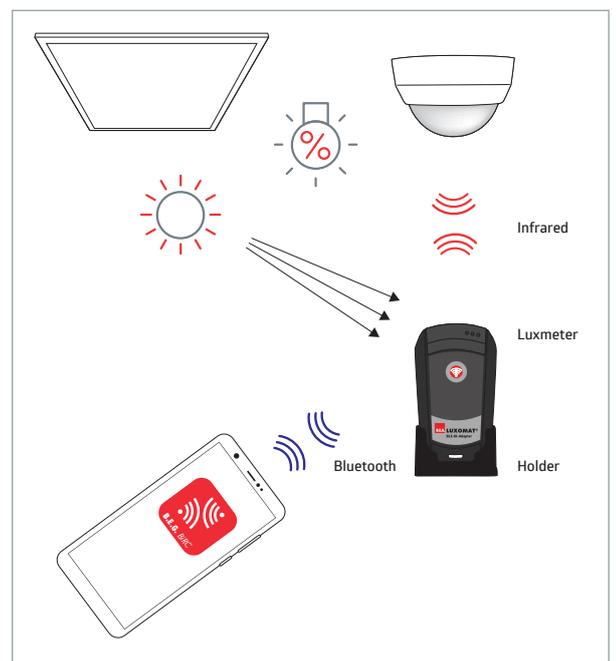
- ⌚ 110 – 240 V AC 50 / 60 Hz
- ⏏ FC= Ø 80 × 75 mm
- ⏏ SM= Ø 102 × 48 mm
- ⏏ < 1 W
- IP FC= IP20 / Class II
- SM= IP54 / Class II
- 🌡️ -25 °C to +50 °C
- 📦 Polycarbonate, UV-resistant
- Channel 1 (lighting control)**
- ⚡ 2300 W, cos φ = 1; 1150 VA, cos φ = 0.5; max. inrush current IP (20 ms) = 165 A; 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

Remote control	Part no.	RC-plus next N	LC-plus 280	PD2	PD3N
IR-RC	92000	■	-	-	-
IR-RC-LD	92649	■	-	-	-
IR-RC-Mini	92090	■	-	-	-
IR-LC-plus	92095	-	■	-	-
IR-LC-Mini	92093	-	■	-	-
IR-PD3N	92105	-	-	-	PD3N-1C-NO-PF PD3N-1C (Micro)
IR-PD3/4N-1C-E	93110	-	-	-	PD3N-1C
IR-PD3N-2C	92115	-	-	-	PD3N-2C
IR-PD-Mini	92159	-	-	PD2-M-1C PD2-M-2C	-
IR-PD-1C	92520	-	-	PD2-M-1C	-
IR-PD-2C	92475	-	-	PD2-M-2C	-
IR-PD-LD	92479	-	-	-	-
IR-PD4-GH	92215	-	-	-	-
IR-PD9 (devices before 2011)	92201	-	-	-	-
IR-PD9-E	92077	-	-	PD2-M-1C	-
IR-PD (devices before 2011)	92160	-	-	PD2-M-1C PD2-M-2C	-
IR-PD4-TRIO-3C	92851	-	-	-	-
IR-PD-DUO	92092	-	-	-	-
IR-PDim	92200	-	-	PD2-M-DIM	-
IR-PD-DIM-Mini	92098	-	-	PD2-M-DIM	-
IR-PD4-TRIO	92097	-	-	-	-
IR-PD4-TRIO-2R1D	92473	-	-	-	-
IR-PD-DIM-HKL	92114	-	-	-	-
IR-PD-DALI-Mini	92112	-	-	PD2-M-DALI/DSI	-
IR-PD-DALI	92094	-	-	PD2-M-DALI/DSI	-
IR-PD-DALI-LD	92652	-	-	PD2-M-DALI/DSI	-
IR-PD4-TRIO-DALI	92104	-	-	-	-
IR-PD-DALI-1C	92116	-	-	PD2-M-DALI/ DSI-1C	-
IR-PD-DALI-E	92122	-	-	PD2-M-DALI/DSI	-
IR-PD-KNX	92123	RC-plus next N 230 KNX-DX	-	PD2N-KNX-ST/-DX	-
IR-PD-KNX-Mini	93398	RC-plus next N 230 KNX-DX	-	PD2N-KNX-DX	-
IR-LTMS	92185	-	-	PD2N-LTMS-RR	-
IR-CdS-T	92368	-	-	-	-
IR-CdS	92577	-	-	-	-
IR-CdS-FP	92396	-	-	-	-
IR-PD-LON	92835	-	-	PD2N-LON	-
IR-Adapter for smartphones	92726	all	all	all	all
BLE-IR-Adapter	93067	all	all	all	all

PD4	PD5	PD9	PD11	Indoor 180	CdS
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
PD4N-1C	-	-	-	-	-
PD4N-1C-C	-	-	-	-	-
PD4N-1C	-	-	-	-	-
-	-	-	-	-	-
PD4-M-1C	-	-	-	-	-
PD4-M-1C-GH	PD5-M-1C	PD9-M-1C(-GH) PD9-M-1C-SDB-IP65(-GH)	-	Indoor 180-M-2C	-
PD4-M-2C	-	-	-	-	-
PD4-M-1C	-	-	-	-	-
PD4-M-2C-DS	-	PD9-M-1C(-GH)	PD11-M-1C	-	-
PD4-M-1C-C(-PS)	-	-	-	-	-
PD4-M-2C	-	-	-	-	-
PD4-M-2C-C	-	PD9-M-2C	-	Indoor 180-M-2C	-
PD4-M-1C-GH	-	-	-	-	-
PD4-M-1C-GH	-	-	-	-	-
-	-	PD9-M-1C(-GH) PD9-M-1C-SDB-IP65(-GH)	-	-	-
PD4-M-1C	-	-	-	-	-
PD4-M-1C-C	-	PD9-M-1C(-GH)	-	-	-
PD4-M-2C-DS	-	PD9-M-2C	PD11-M-1C	-	-
PD4-M-1C-PS	-	-	-	-	-
PD4-M-TRIO-C-3P	-	-	-	-	-
PD4-M-1C	-	-	-	-	-
PD4-M-2C	PD5-M-1C	-	-	-	-
PD4-M-2C-C	-	-	-	-	-
PD4-M-3C-TRIO	-	-	-	-	-
PD4-M-2C-DUO	-	-	-	-	-
PD4-M-DIM	-	-	-	-	-
PD4-M-DIM-C	-	-	-	-	-
PD4-M-DIM-HVAC	PD5-M-DIM	PD9-M-DIM(-GH)	-	-	-
PD4-M-DUO-DIM	-	-	-	-	-
PD4-M-DIM	-	-	-	-	-
PD4-M-DIM-C	-	-	-	-	-
PD4-M-DIM-HVAC	PD5-M-DIM	PD9-M-DIM(-GH)	-	-	-
PD4-M-DUO-DIM	-	-	-	-	-
PD4-M-TRIO-DIM	-	-	-	-	-
PD4-M-TRIO-2R-1D	-	-	-	-	-
PD4-M-DIM-HVAC	-	PD9-M-DIM-HVAC	-	-	-
PD4-M-DALI/DSI	-	-	-	-	-
PD4-M-DALI/DSI-C	-	PD9-M-DALI/DSI	-	-	-
PD4-M-DUO-DALI	-	-	-	-	-
PD4-M-DALI/DSI	-	-	-	-	-
PD4-M-DALI/DSI-C	-	PD9-M-DALI/DSI	-	-	-
PD4-M-DUO-DALI	-	-	-	-	-
PD4-M-TRIO-DALI	-	-	-	-	-
PD4-M-DALI/DSI-1C	-	-	-	-	-
PD4-M-DUO-DALI	-	PD9-M-DALI/DSI	-	-	-
PD4-M-DALI/DSI	-	-	-	-	-
PD4N-KNX-ST	-	PD9-KNX(-GH)-DX	PD11-KNX-DX	Indoor 180 KNX- DX	-
PD4N-KNX(-GH/-C)-DX	-	-	-	-	-
PD4N-KNX(-GH/-C)-DX	-	PD9-KNX(-GH)-DX	PD11-KNX-DX	Indoor 180 KNX- DX	-
PD4N-LTMS-RR	-	-	-	-	-
-	-	-	-	-	CdS-T-SM
-	-	-	-	-	CdS-DALI/DSI-SM
-	-	-	-	-	CdS-DIM-FC
-	-	-	-	-	CdS-FC
PD4N-LON	-	PD9-LON	-	Indoor 180-LON	-
all	all	all	all	all	all
all	all	all	all	all	all



## 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

Choose the applicative detector		for switching		for dimming 1-10 VDC		DALI/DSI output		KNX output		Slaves	
		Description	Part no.	Description	Part no.	Description	Part no.	Description	Part no.	Description	Part no.
Office ≤ 13 m²		False ceiling	PD2-M-1C-FC 92565	PD2-M-DIM-FC 92167	PD2-M-DALI/DSI-FC 92258	PD2N-KNX-DX-FC 93360	PD2-S-FC 92166				
		Surface mounting	PD2-M-1C-SM 92550	PD2-M-DIM-SM 92153	PD2-M-DALI/DSI-SM 92280	PD2N-KNX-DX-FM + SM- mounting kit 93361	PD2-S-SM 92152				
		False ceiling luminaire installation	PD11-M-1C-FLAT-FC 92583			PD11-KNX-FLAT-DX-FC 93392	PD11-S-FLAT-FC 92593				
		False ceiling luminaire installation			PICO-DALISYS 93909	PICO-KNX-DX 92719					
Open-plan office, Meeting room		False ceiling	PD4-M-2C-FC 92148	PD4-M-DIM-FC 92247	PD4-M-DALI/DSI-FC 92275	PD4N-KNX-DX-FC 93386	PD4-S-FC 92254				
		Surface mounting	PD4-M-2C-SM 92140	PD4-M-DIM-SM 92147	PD4-M-DALI/DSI-SM 92279	PD4N-KNX-DX-FM + SM- mounting kit 93387	PD4-S-SM 92142				
Hallway, Corridor		False ceiling	PD4-M-2C-C-FC 92143	PD4-M-DIM-C-FC 92217	PD4-M-DALI/DSI-C-FC 92328	PD4N-KNX-C-DX-FC 93388	PD4-S-C-FC 92444				
		Surface mounting	PD4-M-2C-C-SM 92440	PD4-M-DIM-C-SM 92218		PD4N-KNX-C-DX-FM + SM- mounting kit 93389	PD4-S-C-SM 92442				
		Wall mount	Indoor 140-L 94327			Indoor 140-L-KNX-DX 93393					
Entrance hall		False ceiling	PD4-M-2C-FC 92148	PD4-M-DIM-FC 92247	PD4-M-DALI/DSI-FC 92275	PD4N-KNX-DX-FC 93386	PD4-S-FC 92254				
		Surface mounting	PD4-M-2C-SM 92140	PD4-M-DIM-SM 92147	PD4-M-DALI/DSI-SM 92279	PD4N-KNX-DX-FM + SM- mounting kit 93387	PD4-S-SM 92142				
Underground car park		Surface mounting	PD4-M-2C-SM 92140	PD4-M-DIM-SM 92147	PD4-M-DALI/DSI-SM 92279	PD4N-KNX-DX-FM + SM- mounting kit 93387	PD4-S-SM 92142				
Individual office		False ceiling			PD4-M-DALI/DSI-FC 92275	PD4N-KNX-DX-FC 93386					
		Surface mounting			PD4-M-DALI/DSI-SM 92279	PD4N-KNX-DX-FM + SM- mounting kit 93387					
Bathroom		False ceiling	PD9-M-1C-SDB-IP65-FC 92912			PD9-KNX-DX-FC 93390	PD9-S-SDB-FC 92915				
Classroom		False ceiling for 2 light zones	PD4-M-2C-DUO-FC 92251	PD4-M-DUO-DIM-FC 92272	PD4-M-DUO-DALI/DSI-FC 92276		PD4-S-FC 92142				
		False ceiling for 3 light zones	PD4-M-3C-TRIO-FC 92745	PD4-M-TRIO-DIM-FC 92735	PD4-M-TRIO-DALI/DSI-FC 92755		PD4-S-FC 92142				
High-bay warehouse		Surface mounting	PD4-M-1C-GH-SM 92245		PD4-M-DALI/DSI-GH-SM 93015	PD4-KNX-GH-DX-SM 93399	PD4-S-GH 92265				
Staircase		Renovation Wall switch / Stair light timer switch	Indoor 180-TR / SCT1 92650 92655								
		Flush mounting	Indoor 180-R 92623			Indoor 180-KNX-DX 93364					
		Wall mount	LC-plus 280 91008								
Toilets, Anterooms, Technical rooms		False ceiling	PD3N-1C-FC 92196								
		Surface mounting	PD3N-1C-SM 92190								
		False ceiling	PD9-1C-FC 92902			PD9-KNX-DX-FC 93390					
2-wire with relay		Flush mounting	Indoor 180-R/2W-UK 92615								
2 house side, House entrance, Range max. 20 m		Detection area 130° + 360°	RC-plus next N 130 93321								
		Detection area 230° + 360°	RC-plus next N 230 93331			RC-plus next N 230 KNX-DX 93394 93395					
		Detection area 280° + 360°	RC-plus next N 280 93341								
House entrance, Range max. 16 m		Detection area 280° + 360°	LC-plus 280 91008								
House entrance, Range max. 12 m		Detection area 140° + 180°	LC-Click-N 140 93041								
		Detection area 200° + 180°	LC-Click-N 200 93042								

# Ceiling motion detector

## Overview of range in relation to mounting height

### PD3N- and PD9 motion detector

Range (circular detection) T=18°C			
Mounting height	Seated activity	Walking across	Walking towards
2.00 m	Ø=3.20 m	Ø=8.00 m	Ø=5.00 m
2.50 m	Ø=4.00 m	Ø=10.00 m	Ø=6.00 m
3.00 m	Ø=4.80 m	Ø=12.00 m	Ø=7.40 m
3.50 m	-	Ø=14.00 m	Ø=8.60 m
4.00 m	-	Ø=16.00 m	Ø=9.60 m
4.50 m	-	Ø=18.00 m	Ø=10.80 m
5.00 m	-	Ø=20.00 m	Ø=12.00 m

### PD4N motion detector

Range (circular detection) T=18°C			
Mounting height	Seated activity	Walking across	Walking towards
2.00 m	Ø=5.20 m	Ø=17.00 m	Ø=6.40 m
2.50 m	Ø=6.40 m	Ø=24.00 m	Ø=8.00 m
3.00 m	Ø=7.60 m	Ø=29.00 m	Ø=9.60 m
3.50 m	Ø=9.00 m	Ø=34.00 m	Ø=11.00 m
4.00 m	-	Ø=39.00 m	Ø=13.60 m
4.50 m	-	Ø=44.00 m	Ø=14.40 m
5.00 m	-	Ø=48.00 m	Ø=16.00 m

### PD9-GH motion detector

Range (circular detection) T=18°C	
Mounting height	Walking across
5.00 m	Ø=3.00 m
6.00 m	Ø=3.50 m
7.00 m	Ø=4.20 m
8.00 m	Ø=4.80 m
9.00 m	Ø=6.00 m
10.00 m	Ø=6.00 m

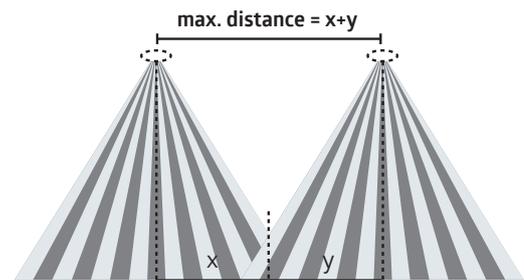
Ø = diameter

## 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.

# Occupancy detector

## Overview of range in relation to mounting height

### PD4 occupancy detector

Range (circular detection) T=18°C			
Mounting height	Seated activity	Walking across	Walking towards
2.00 m	Ø=5.20 m	Ø=17.00 m	Ø=6.40 m
2.50 m	Ø=6.40 m	Ø=24.00 m	Ø=8.00 m
3.00 m	Ø=7.60 m	Ø=29.00 m	Ø=9.60 m
3.50 m	Ø=9.00 m	Ø=34.00 m	Ø=11.00 m
4.00 m	-	Ø=39.00 m	Ø=13.60 m
4.50 m	-	Ø=44.00 m	Ø=14.40 m
5.00 m	-	Ø=48.00 m	Ø=16.00 m
10.00 m	-	Ø=48.00 m	Ø=16.00 m

### PD11 occupancy detector

Range (circular detection) T=18°C			
Mounting height	Seated activity	Walking across	Walking towards
2.00 m	Ø=2.40 m	Ø=7.20 m	Ø=4.80 m
2.50 m	Ø=3.00 m	Ø=9.00 m	Ø=6.00 m
3.00 m	Ø=3.60 m	Ø=10.80 m	Ø=7.20 m
3.50 m	Ø=4.20 m	Ø=12.60 m	Ø=8.40 m
4.00 m	Ø=4.80 m	Ø=14.40 m	Ø=9.60 m
4.50 m	Ø=5.40 m	Ø=16.20 m	Ø=10.80 m
5.00 m	Ø=6.00 m	Ø=18.00 m	Ø=12.00 m

### PD2- and PD9 occupancy detector

Range (circular detection) T=18°C			
Mounting height	Seated activity	Walking across	Walking towards
2.00 m	Ø=3.20 m	Ø=8.00 m	Ø=5.00 m
2.50 m	Ø=4.00 m	Ø=10.00 m	Ø=6.00 m
3.00 m	Ø=4.80 m	Ø=12.00 m	Ø=7.40 m
3.50 m	-	Ø=14.00 m	Ø=8.60 m
4.00 m	-	Ø=16.00 m	Ø=9.60 m
4.50 m	-	Ø=18.00 m	Ø=10.80 m
5.00 m	-	Ø=20.00 m	Ø=12.00 m

## 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.

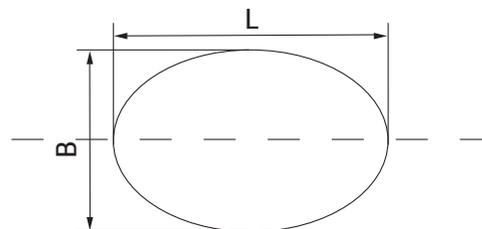
### PD9-GH occupancy detector

Range (circular detection) T=18°C	
Mounting height	Walking across
5.00 m	Ø=3.00 m
6.00 m	Ø=3.50 m
7.00 m	Ø=4.20 m
8.00 m	Ø=4.80 m
9.00 m	Ø=6.00 m
10.00 m	Ø=6.00 m

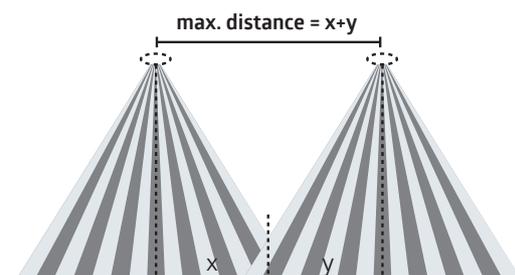
Ø = diameter

### PD4-M-1C-GH occupancy detector

Range (oval detection) T=17°C		
Mounting height	in longitudinal axis (L)	90° to longitudinal axis (B)
5.00 m	Ø=26.00 m	Ø=18.00 m
6.00 m	Ø=26.00 m	Ø=18.00 m
7.00 m	Ø=28.00 m	Ø=19.00 m
8.00 m	Ø=28.00 m	Ø=19.00 m
9.00 - 16.00 m	Ø=30.00 m	Ø=19.00 m



## Detector distance

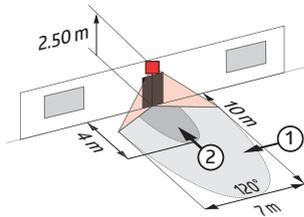


In order to eliminate potential "dead zones", detection areas may overlap.

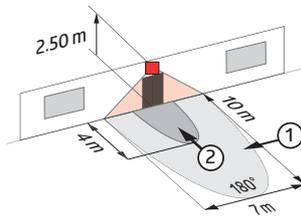
# Detection areas for B.E.G. motion- and occupancy detectors

- ① Walking across
- ② Walking towards
- ③ Anti-creep / Seated activity

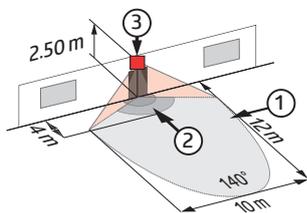
LC-Mini 120



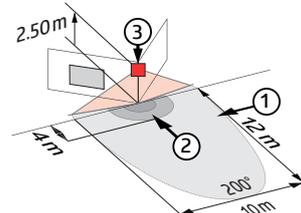
LC-Mini 180



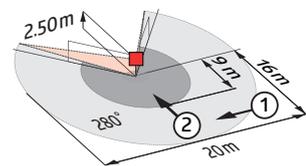
LC-Click-N 140



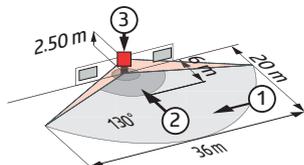
LC-Click-N 200



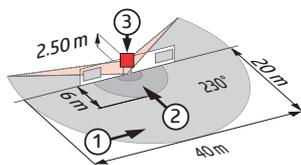
LC-plus 280



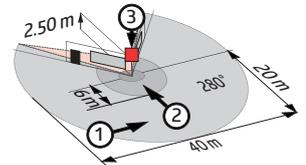
RC-plus next N 130



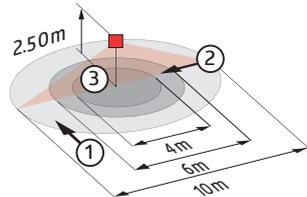
RC-plus next N 230



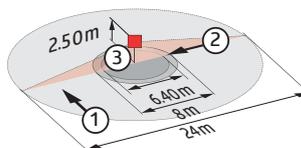
RC-plus next N 280



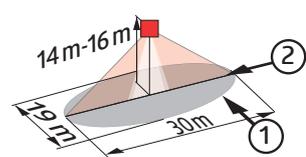
PD2/PD3N/PD9/PICO



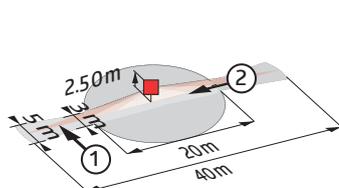
PD4/PD4-DUO/PD4-TRIO



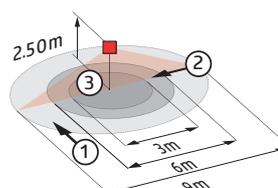
PD4-GH



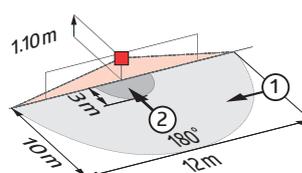
PD4-C



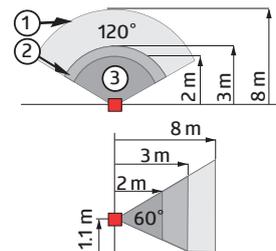
PD11



Indoor 180



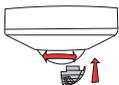
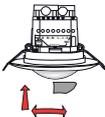
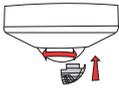
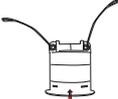
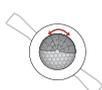
Indoor 140-L



## 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.

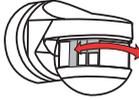
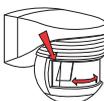
### Blinds for B.E.G. ceiling occupancy and motion detector

<ul style="list-style-type: none"> <li>for LUXOMAT® PD2-SM+FM Part no. 92260</li> </ul>				PD2-SM with blinds
<ul style="list-style-type: none"> <li>for LUXOMAT® PD2-FC Part no. 36635</li> </ul>				PD2-FC with blinds
<ul style="list-style-type: none"> <li>for LUXOMAT® PD3N + PD2N Part no. 37367</li> </ul>				PD3N-SM with blinds
<ul style="list-style-type: none"> <li>for LUXOMAT® PD4 + PD4N Part no. 92313</li> </ul>				PD4-FM with blinds
<ul style="list-style-type: none"> <li>for LUXOMAT® Mini-occupancy detector PD9 Part no. 32702</li> </ul>				PD9-FC with blinds
<ul style="list-style-type: none"> <li>for LUXOMAT® PD9-GH for great large Part no. 33207</li> </ul>				PD9-GH-FC with blinds
<ul style="list-style-type: none"> <li>for LUXOMAT® PD9-GH, half Part no. 92952</li> </ul>		<ul style="list-style-type: none"> <li>Blind for preventing lateral incidence of light and 180° restriction of movement detection</li> </ul>		PD9-GH-FC with blinds
<ul style="list-style-type: none"> <li>for LUXOMAT® PD9-GH, continuous Part no. 92953</li> </ul>		<ul style="list-style-type: none"> <li>Blind for preventing lateral incidence of light</li> </ul>		PD9-GH-FC with blinds
<ul style="list-style-type: none"> <li>for LUXOMAT® PD11-FC Part no. 38522</li> </ul>				PD11-FC with blinds

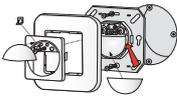
### Wire basket B.E.G.

<ul style="list-style-type: none"> <li>LUXOMAT® Wire basket BSK Part no. 92199 Ø 200 x 90 mm For indoor use motion and occupancy detectors</li> </ul>		<ul style="list-style-type: none"> <li>LUXOMAT® Wire basket BSK Part no. 92467 Ø 164 x 143 mm For outdoor use motion detectors and for PD4-TRIO-SM</li> </ul>	
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## Blinds for B.E.G. ceiling occupancy and motion detector

<ul style="list-style-type: none"> <li>for LUXOMAT® RC-plus next N Part no. 32697</li> </ul>			 <p>RC-plus next with blinds</p>
<ul style="list-style-type: none"> <li>for LUXOMAT® LC-plus 280 Part no. 32698</li> </ul>			 <p>LC-plus 280 with blinds</p>
<ul style="list-style-type: none"> <li>for LUXOMAT® LC-Click-N Part no. 32699 and LC-Mini Part no. 33232</li> </ul>			 <p>LC-Click-N with blinds</p>  <p>LC-Mini with blinds</p>

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

<ul style="list-style-type: none"> <li>for LUXOMAT® Indoor 180 Part no. 33233</li> </ul>			 <p>PD2-SM with blinds</p>
<ul style="list-style-type: none"> <li>for LUXOMAT® Indoor 180 Part no. 92294</li> </ul>		<ul style="list-style-type: none"> <li>for blanking out the detection area for adapting the detection range of the detectors to the local conditions according to requirements</li> </ul>	

## Protection against vandalism for Indoor 180

<ul style="list-style-type: none"> <li>for LUXOMAT® Protection against vandalism, Part no. 92018</li> </ul>		<ul style="list-style-type: none"> <li>Protection of the potentiometer cap against unwanted removing</li> </ul>
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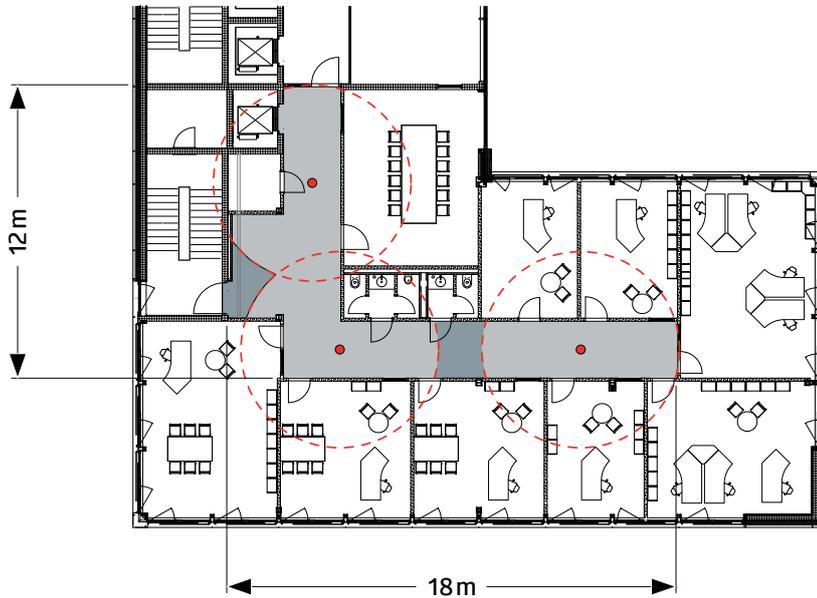
## Arc-extinction kit for B.E.G. motion and occupancy detectors

<ul style="list-style-type: none"> <li>LUXOMAT® Arc-extinction kit Part no. 10880 L 38 x B 12 x H 26 mm</li> </ul>		<ul style="list-style-type: none"> <li>LUXOMAT® Mini-RC-Arc extinction kit Part no. 10882 L 50 x B 22 x H 10 mm</li> </ul>	
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### 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.

# Planning example corridor with PD4-M



Detector for  
● Lighting group 1

Mounting height = 2.50 m

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

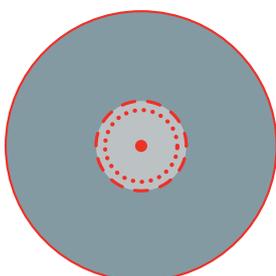
■ **Master device setting:**

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"**

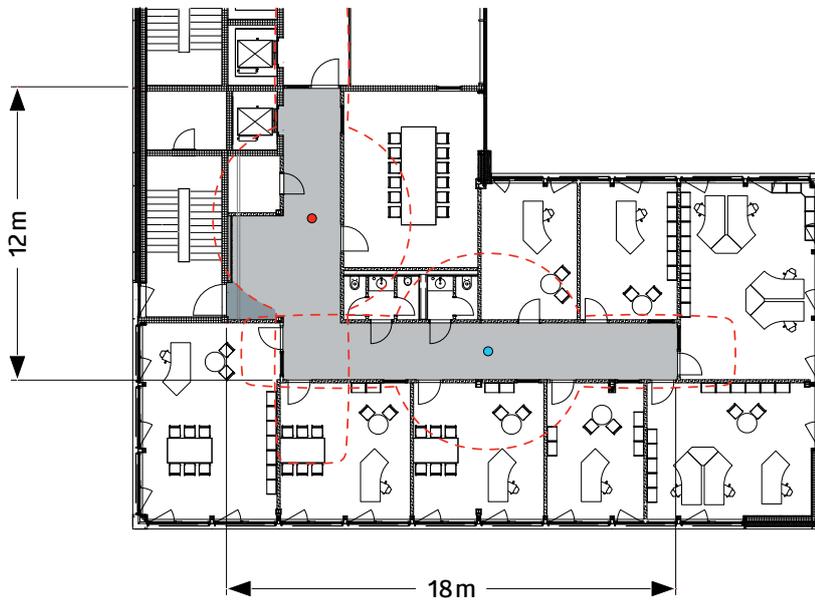


—	across	Ø 24 m
- - -	frontally	Ø 8 m
.....	seated activity	Ø 6.4 m

for a mounting height of 2.50 m

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

## Planning example corridor with PD4-M-C



- Detector for
- Lighting group 1
  - Lighting group 2

Mounting height = 2.50 m

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

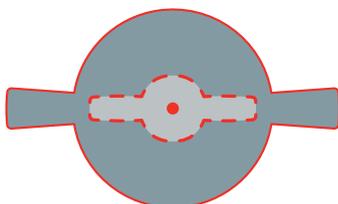
▪ **Master device setting:**

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"**

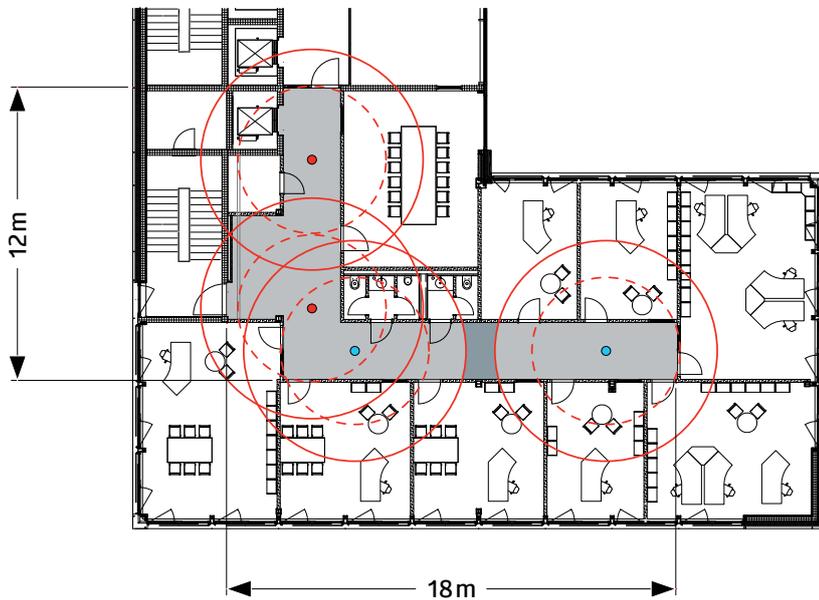


- across                      Ø 40 m
- - - frontally                    Ø 20 m

for a mounting height of 2.50 m

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

# Planning example corridor with PD11



- Detector for
- Lighting group 1
- Lighting group 2

Mounting height = 2.50 m

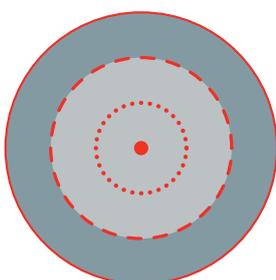
Automatic lighting control with design occupancy detectors is to be implemented in a corridor on an office floor.

#### ■ 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).

#### ■ 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)!

#### ■ 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

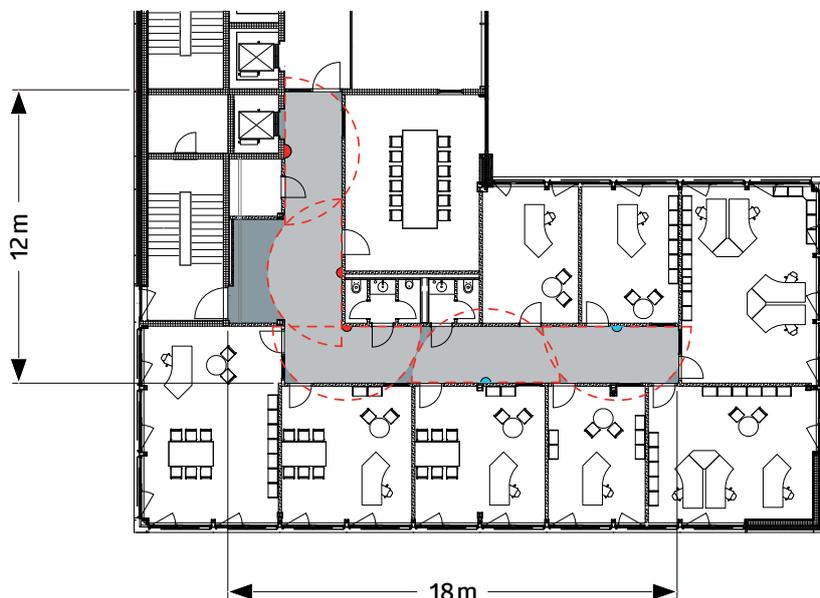
#### ■ Master device setting:

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.

## Planning example corridor with Indoor 180



Detector for

- Lighting group 1
- Lighting group 2

Mounting height = 1.10 m

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

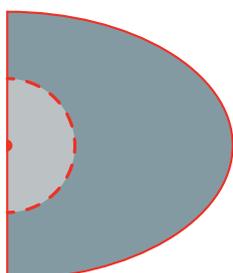
Follow-up time R2: optional

### ■ 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"



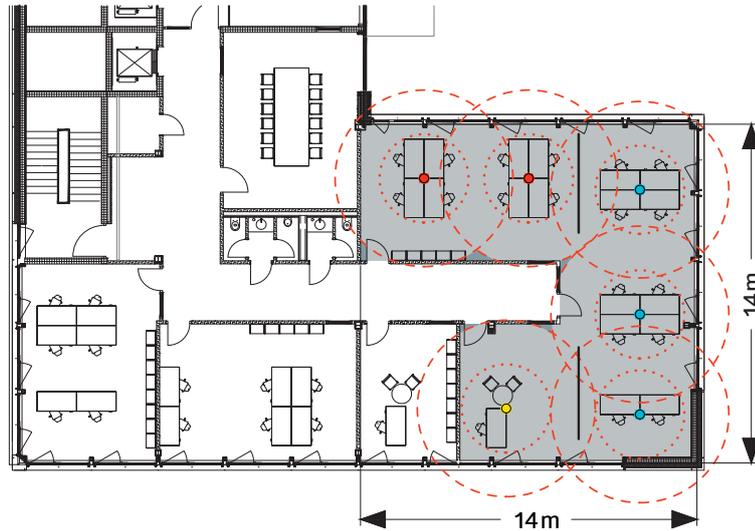
— across                    Ø 10 m

- - - 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



- Detector for
- Lighting group 1
  - Lighting group 2
  - Lighting group 3

Mounting height = 3.00 m

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

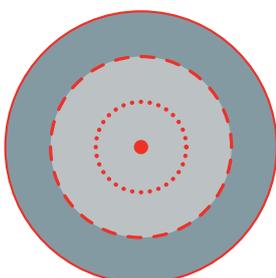
■ **Master device setting:**

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”**

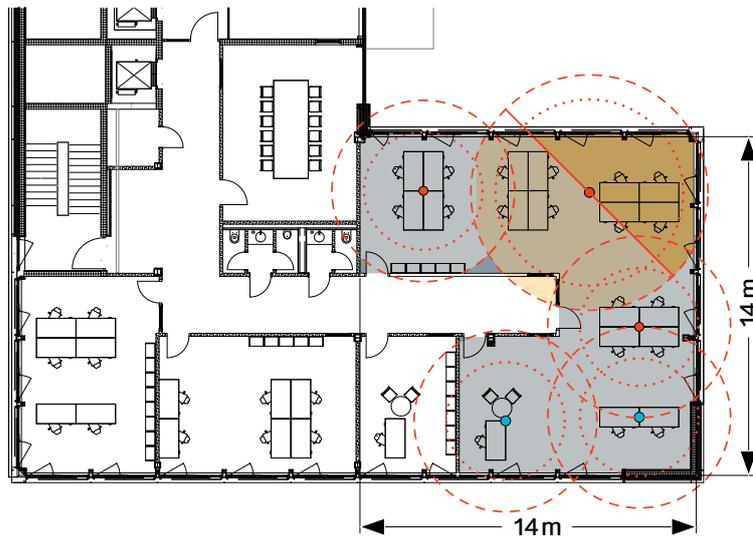


- across                    Ø 9 m
- - - frontally                Ø 6 m
- ..... seated activity        Ø 3 m

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 open-plan office with PD2/PD4-DUO



- Light sensor 1
- Light sensor 2

- Detector for Lighting group 1
- Detector for Lighting group 2

Mounting height = 3.00 m

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:**

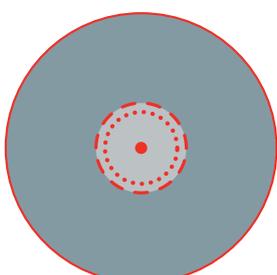
Follow-up time R1: > 5 min  
Switch-on threshold R1: 500 Lux or individually with remote control  
Follow-up time R2: optional

■ **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"**

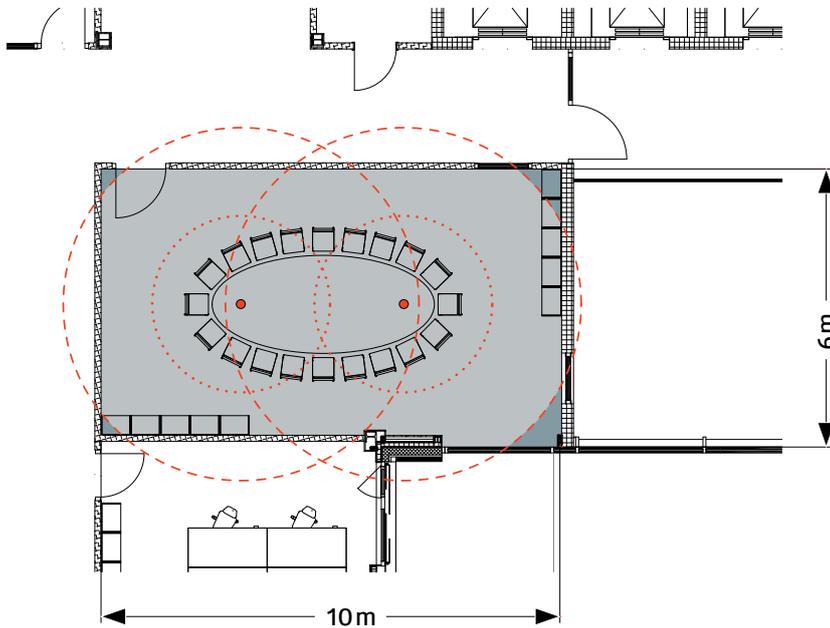


- across Ø 24 m
- - - frontally Ø 8 m
- ..... seated activity Ø 6.4 m

for a mounting height of 2.50 m

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

# Planning example conference room with PD11



Detector for  
● Lighting group 1

Mounting height = 3.00 m

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 0.85mm 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:**

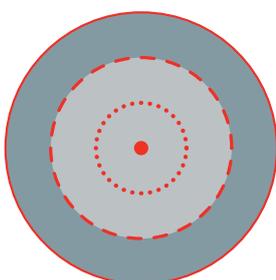
Follow-up time R1: mind. 5 min  
Switch-on threshold R1: 500 Lux

■ **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”**

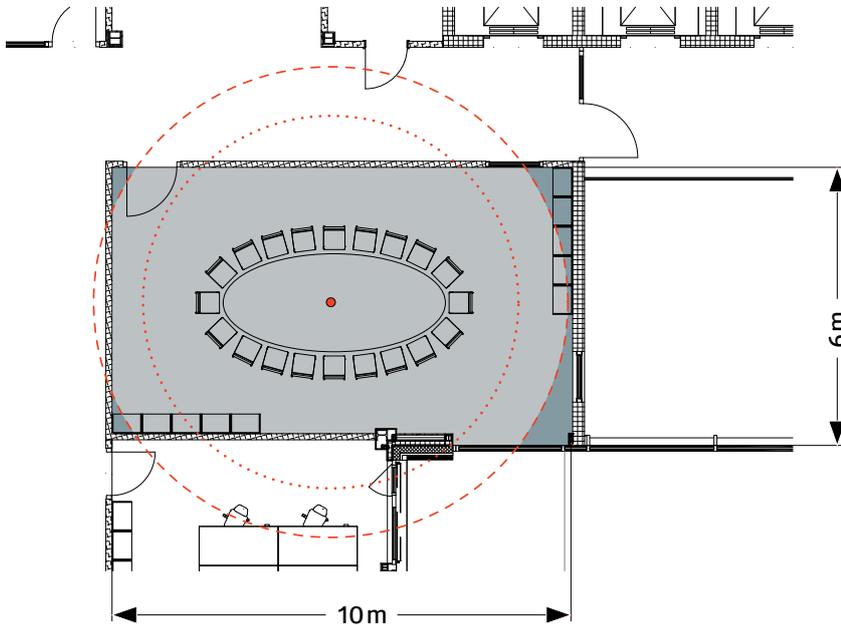


- across                    Ø 9 m
- - - frontally                Ø 6 m
- ..... seated activity        Ø 3 m

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



Detector for  
● Lighting group 1

Mounting height = 3.00 m

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. 5 min

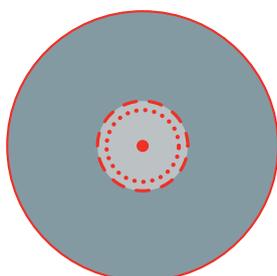
Switch-on threshold R1: 500Lux

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

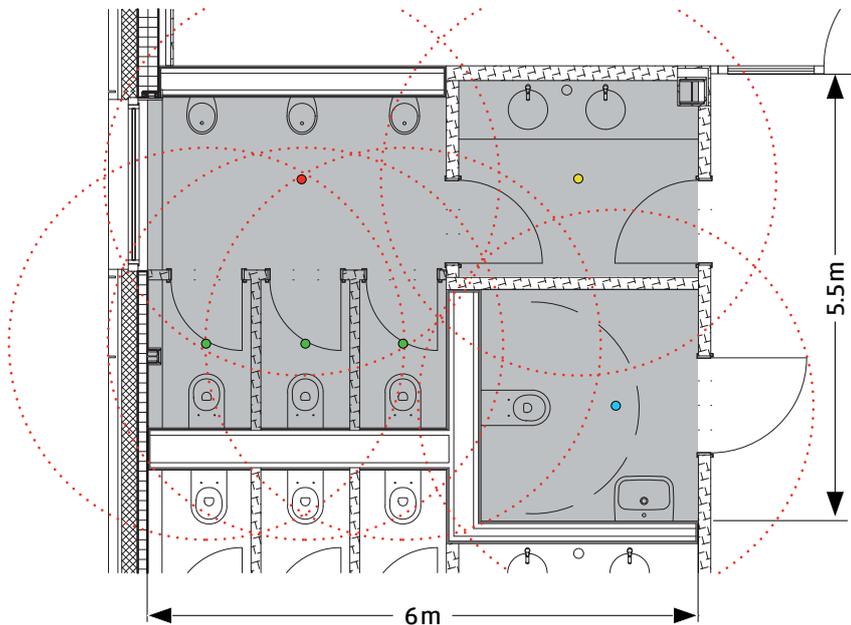
- - - frontally Ø 8 m

..... 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)



- Detector for
- Lighting group 1
  - Lighting group 2-4
  - Lighting group 5
  - Lighting group 6

Mounting height = 3.00 m

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:**

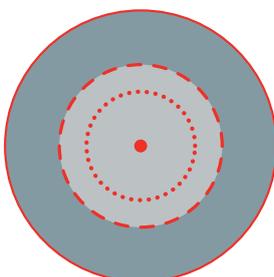
Follow-up time: 10 min

Switch-on threshold: Day (Symbol "Sun")

■ **Operation mode:**

Standard operation (see wiring diagrams PD3N-1C and PD9-1C)

■ **Detection range Type "PD3N" or "PD9"**

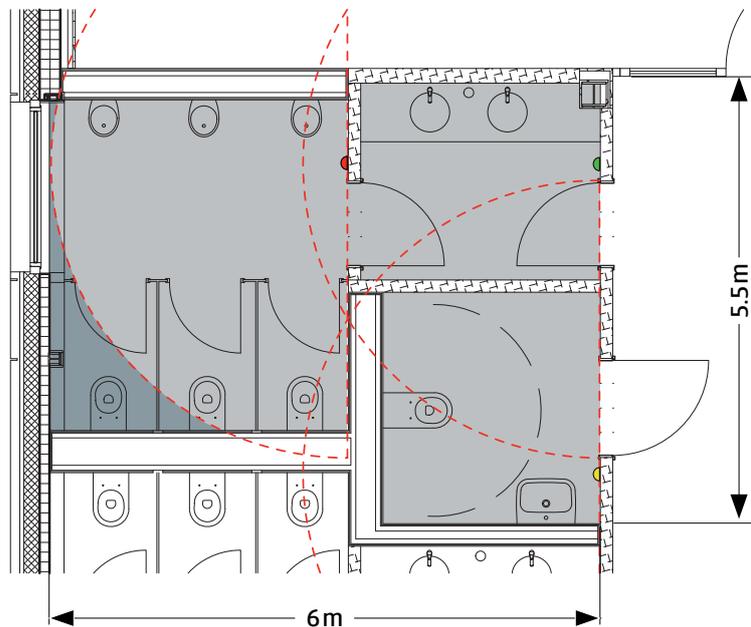


- across                    Ø 10 m
- - - frontally                Ø 6 m
- ..... seated activity        Ø 4 m

for a mounting height of 2.50 m

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

## Planning example lavatories with Indoor 180 Micro



- Detector for
- Lighting group 1
  - Lighting group 2
  - Lighting group 3

Mounting height = 1.10 m

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")

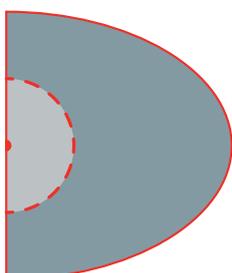
▪ **Noise sensitivity:**

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"**



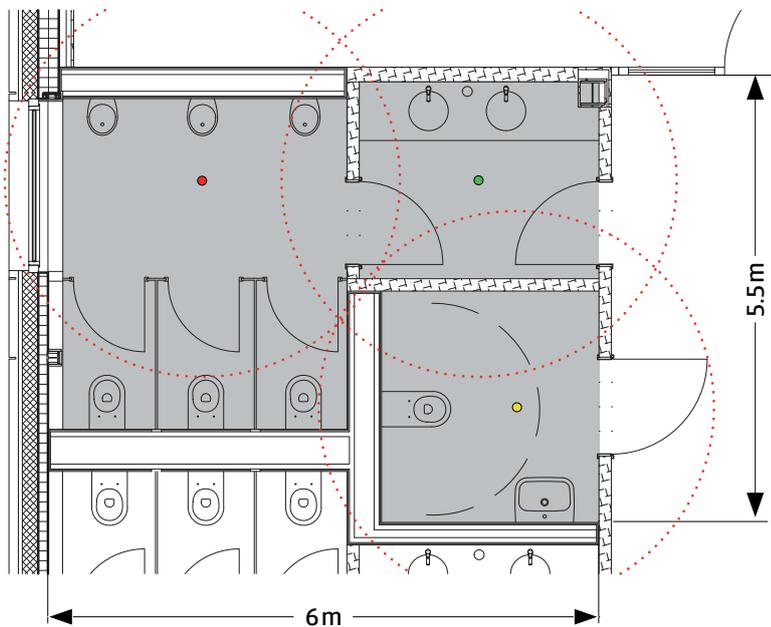
— across                    Ø 10 m

- - - 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 lavatory with PD3N Micro (semi-high walls)



- Detector for
- Lighting group 1
- Lighting group 2
- Lighting group 3

Mounting height = 3.00 m

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

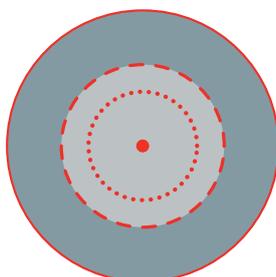
#### ■ Noise sensitivity:

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"

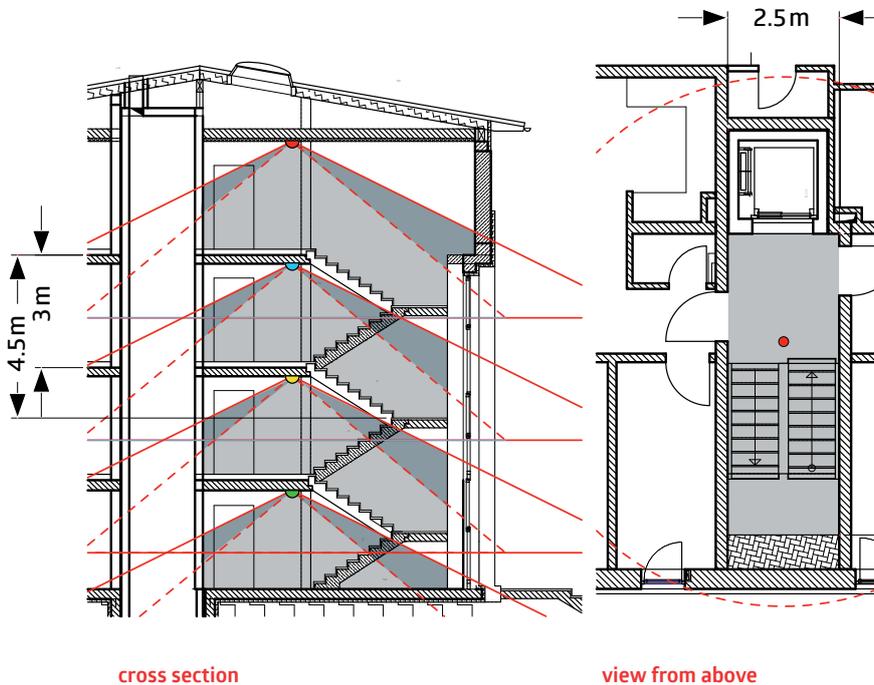


- across                    Ø 10 m
- - - frontally                Ø 6 m
- ..... seated activity        Ø 4 m

for a mounting height of 2.50 m

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

## Planning example staircase with PD2



- Detector for
- Lighting group 1
  - Lighting group 2
  - Lighting group 3
  - Lighting group 4

Mounting height = 3.00 m

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

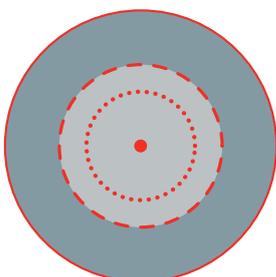
Switch-on threshold R1: 300 Lux

Follow-up time R2: optional

### Operation mode:

Master operation with optional push-button control on the basement floor (see wiring diagram PD2-M-2C)

### Detection range Type "PD2"

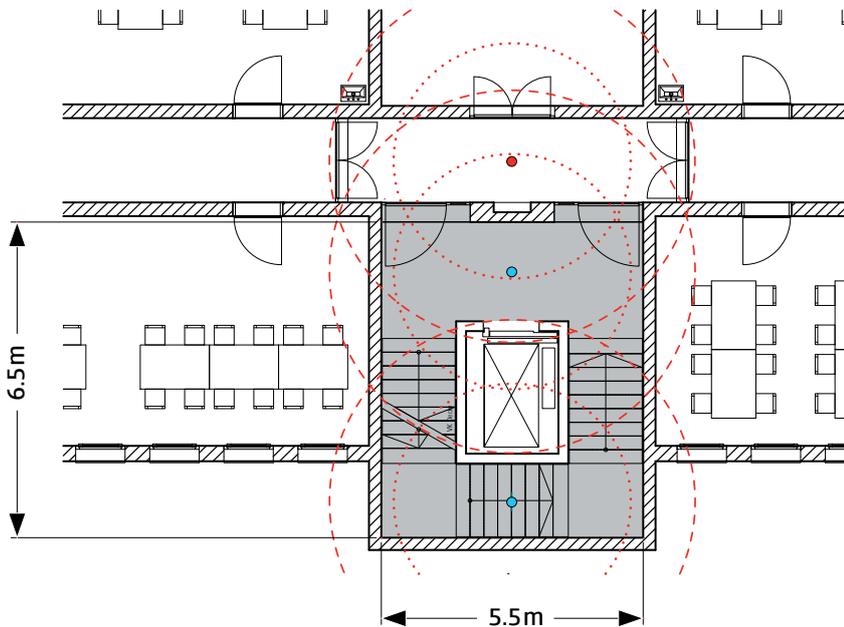


—	across	Ø 10 m
- - -	frontally	Ø 6 m
.....	seated activity	Ø 4 m

for a mounting height of 2.50 m

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

## Planning example staircase with PD3N



- Detector for
- Lighting group 1
- Lighting group 2

Mounting height = 3.00 m

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:

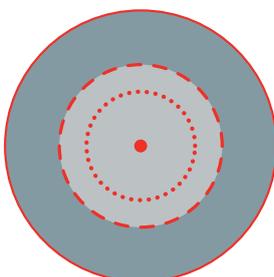
Group 1: Switch-on threshold 300 Lux (with L' monitoring)

Group 2: Switch-on threshold Day (Symbol "Sun")

### ■ Operation mode:

Parallel operation (see wiring diagram PD3N-1C)

### ■ Detection range Type "PD3N"

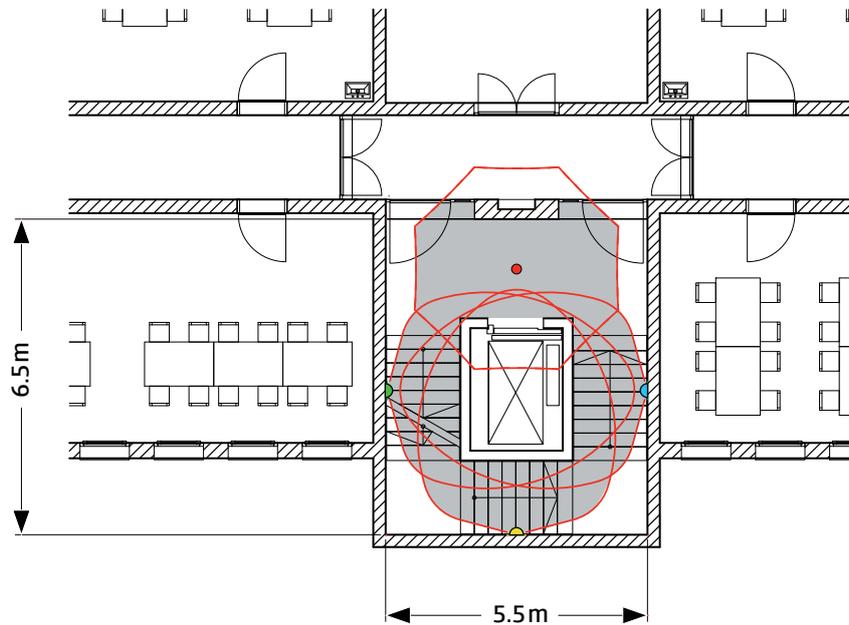


—	across	Ø 10 m
- - -	frontally	Ø 6 m
.....	seated activity	Ø 4 m

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 staircase with HF-MD3



### Detector for

- Lighting group 1
- Lighting group 2
- Lighting group 3
- Lighting group 4

Mounting height = 3.00 m

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:

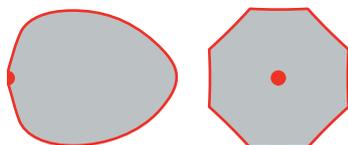
4 pcs. LUXOMAT® HF-MD3 devices (for installation in luminaires)

#### ■ Device setting:

Follow-up time R1: 5 min

Switch-on threshold R1: 300 Lux

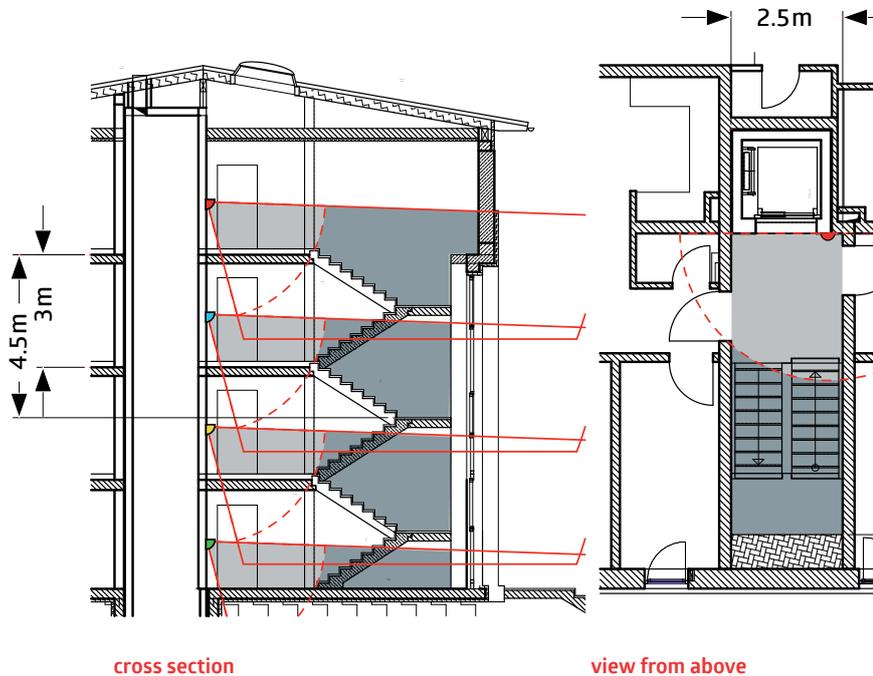
#### ■ Detection range Type "HF-MD3"



max.  $\varnothing$  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)!

# Planning example staircase with Indoor 180



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: 300Lux

Detector for

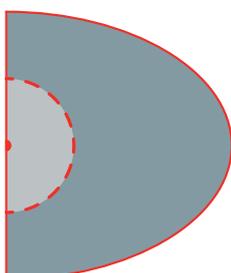
- Lighting group 1
- Lighting group 2
- Lighting group 3
- Lighting group 4

Mounting height = 1,00 m

■ **Operation mode:**

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

■ **Detection range Type "Indoor 180"**

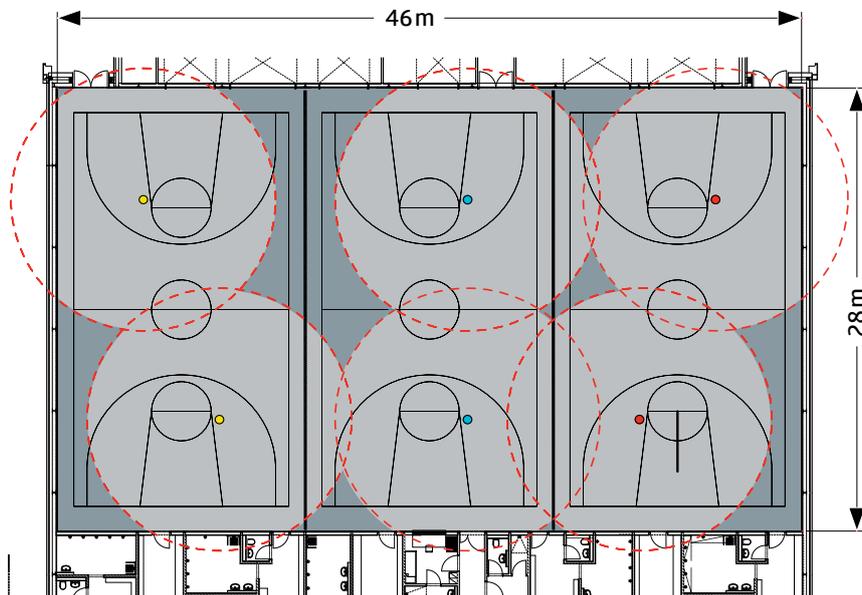


- across                    Ø 10 m
- - - frontally                Ø 3 m

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)!

# Planning example three-field gymnasium with PD4



- Detector for
- Lighting group 1
  - Lighting group 2
  - Lighting group 3

Mounting height = 6.00 m - 8.00 m

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. 5 min

Switch-on threshold R1: 300 - 500 Lux

Follow-up time R2: optional

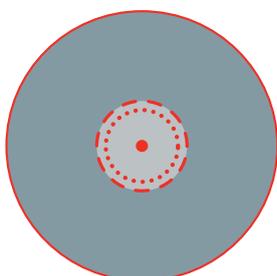
▪ **Operation mode:**

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.

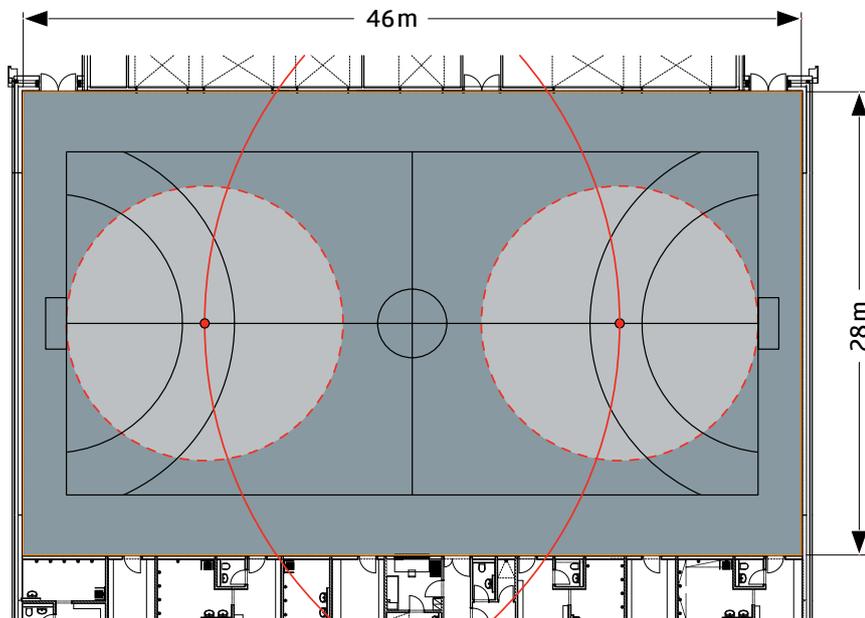
▪ **Detection range Type "PD4"**



- 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



Detector for  
● Lighting group 1

Mounting height = 6.00 m - 8.00 m

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

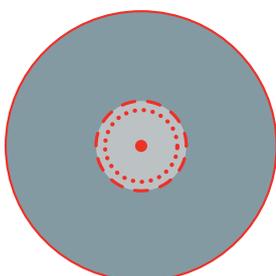
#### Operation mode:

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"



— across Ø 24 m

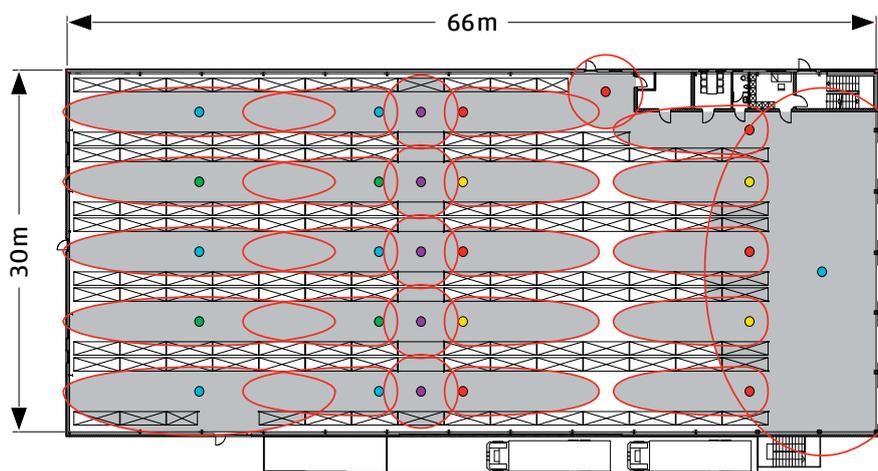
- - - frontally Ø 8 m

..... 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 high-bay warehouse with PD4-GH and PD9-GH



- Detector for**
- Lighting group 1-3
  - Lighting group 4-7
  - Lighting group 8-9
  - Lighting group 10-11
  - Lighting group 12

Mounting height = 10.00 m

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:**

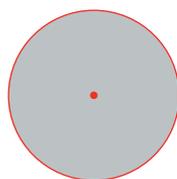
Follow-up time R1: > 5 min  
Switch-on threshold R1: 500 Lux or individually with remote control

▪ **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)

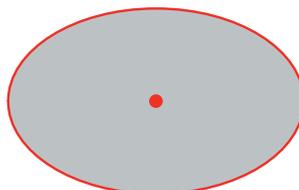
The master device must always be mounted at the darkest spot of the area of its luminaire group.

▪ **Detection range Type "PD9-GH"**

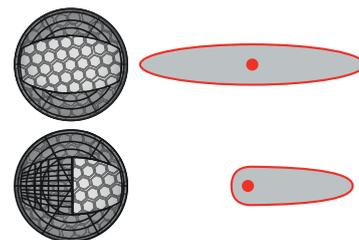


across Ø 6 m  
for a mounting height of 2.50 m

▪ **Detection range Type "PD4-GH"**



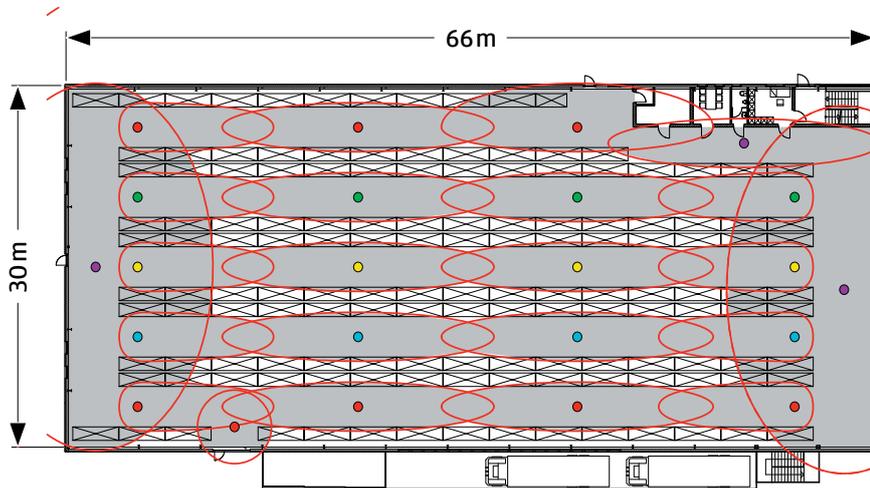
across / frontally Ø 30 m  
for a mounting height of 14.00 m – 16.00 m



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



- Detector for
- Lighting group 1-2
  - Lighting group 3
  - Lighting group 4
  - Lighting group 5
  - Lighting group 6-7

Mounting height = 10.00 m

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

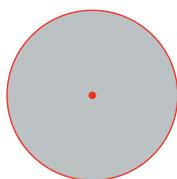
■ **Master device setting:**

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

■ **Operation mode:**

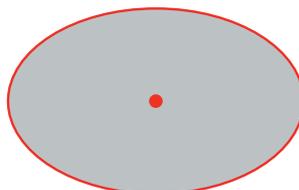
Master operation for all luminaire groups (see wiring diagrams PD4-M-1C-GH and PD9-M-1C-GH)

■ **Detection range Type "PD9-GH"**

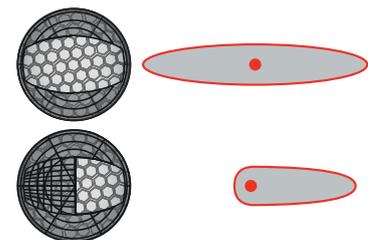


\_\_\_\_\_ across Ø 6 m  
for a mounting height of 2.50 m

■ **Detection range Type "PD4-GH"**



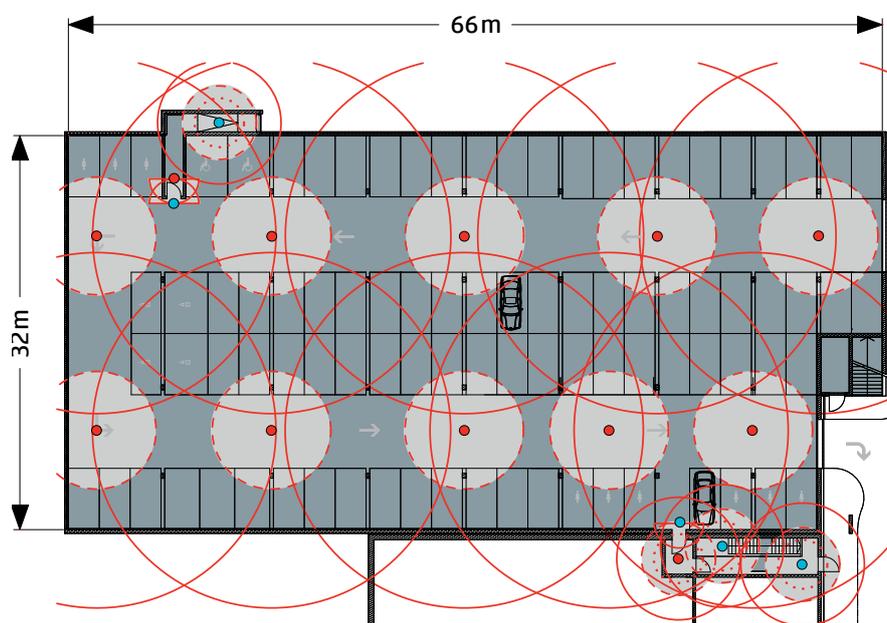
\_\_\_\_\_ across / frontally Ø 30 m  
for a mounting height of 14.00 m – 16.00 m



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 underground car park with PD4 and PD2



- Detector for
- Lighting group 1
  - Lighting group 2-3

Mounting height = 3.00 m

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.

### 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.

### 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. 5 min

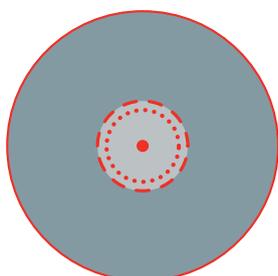
Switch-on threshold R1: 300 - 500 Lux

Follow-up time R2: optional

### Operation mode:

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

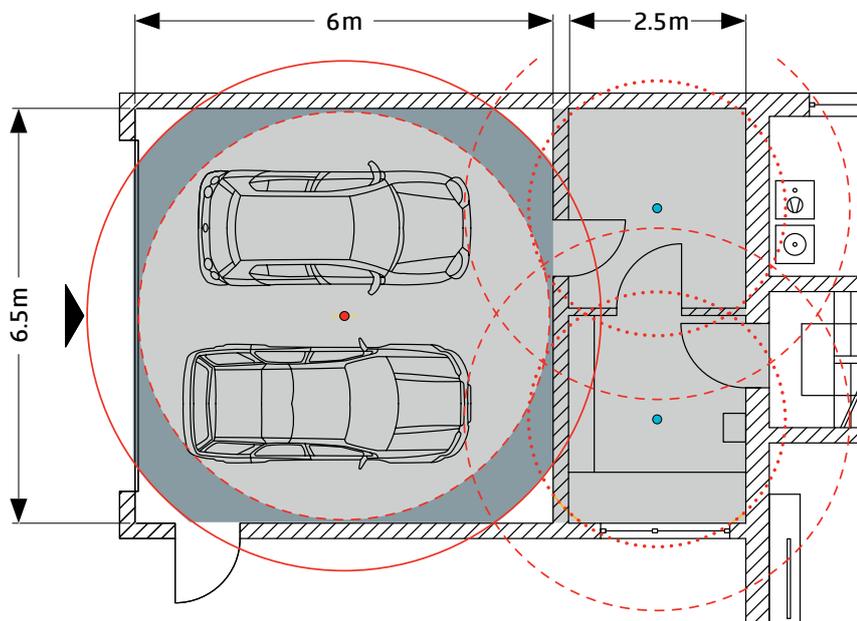
### Detection range Type "PD4"



- 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 single garage with PD4N and PD3N



Detector for  
● Lighting group 1  
● Lighting group 2

Mounting height = 2.50 m

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

▪ **Product listing:**

1 pcs. LUXOMAT® PD4N device

2 pcs. LUXOMAT® PD3N devices

▪ **Master device setting:**

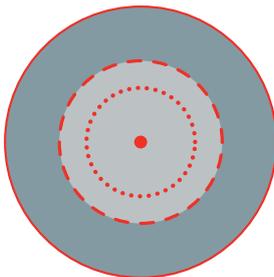
Follow-up time: 4 min

Switch-on threshold: Day (Symbol "Sun")

▪ **Operation mode:**

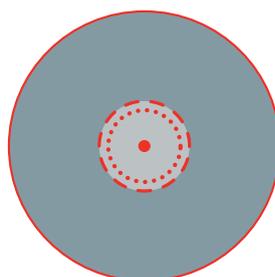
Standard operation (see wiring diagrams PD3N-1C and PD4N-1C)

▪ **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

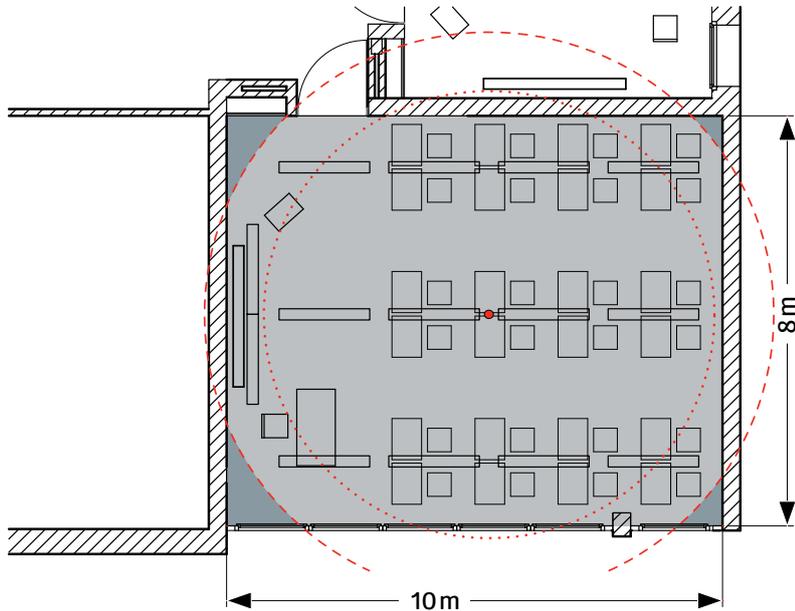
▪ **Detection range Type "PD4N"**



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

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

## Planning example classroom with PD4



Detector for  
● Lighting group 1  
Mounting height = 3.00 m

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:

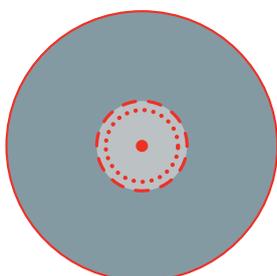
Follow-up time: mind. 5 min

Switch-on threshold: 500 Lux or individually with remote control

### Operation mode:

Master operation (see wiring diagram PD4-M-1C)

### Detection range Type "PD4"

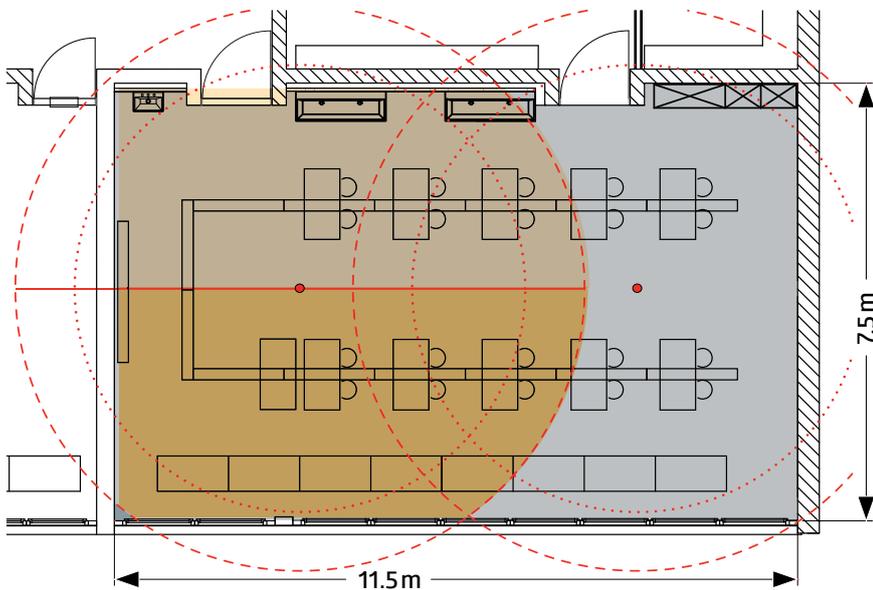


—	across	Ø 24 m
- - -	frontally	Ø 8 m
.....	seated activity	Ø 6.4 m

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



■ Light sensor 1  
■ Light sensor 2

● Detector for  
● Lighting group 1

Mounting height = 3.00 m

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

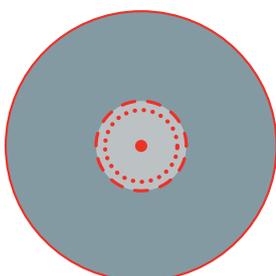
Follow-up time R2: mind. 5 min

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

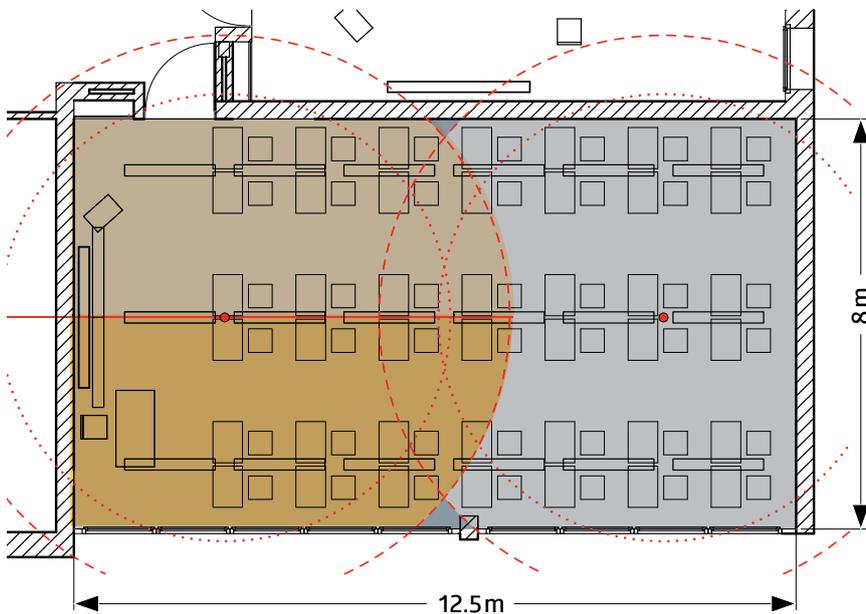
- - - frontally Ø 8 m

..... seated activity Ø 6.4 m

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-DAA4G



- Light sensor 1
- Light sensor 2
- Detector for Lighting group 1
- Mounting height = 3.00 m

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.

Despite the automatic control, the current switching status can be overridden manually via push-button or remote control app.

#### ■ 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

#### ■ Product listing:

1 pcs. LUXOMAT® PD4 master DAA4G device  
1 pcs. LUXOMAT® PD4 slave DAA4G device

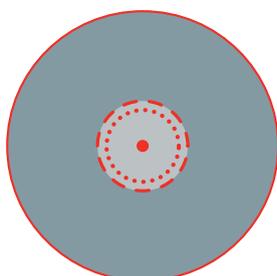
#### ■ Master device setting:

Follow-up time DALI-Group 1-4: > 5 min  
Switch-on threshold :DA1 - DA4: 500Lux  
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)

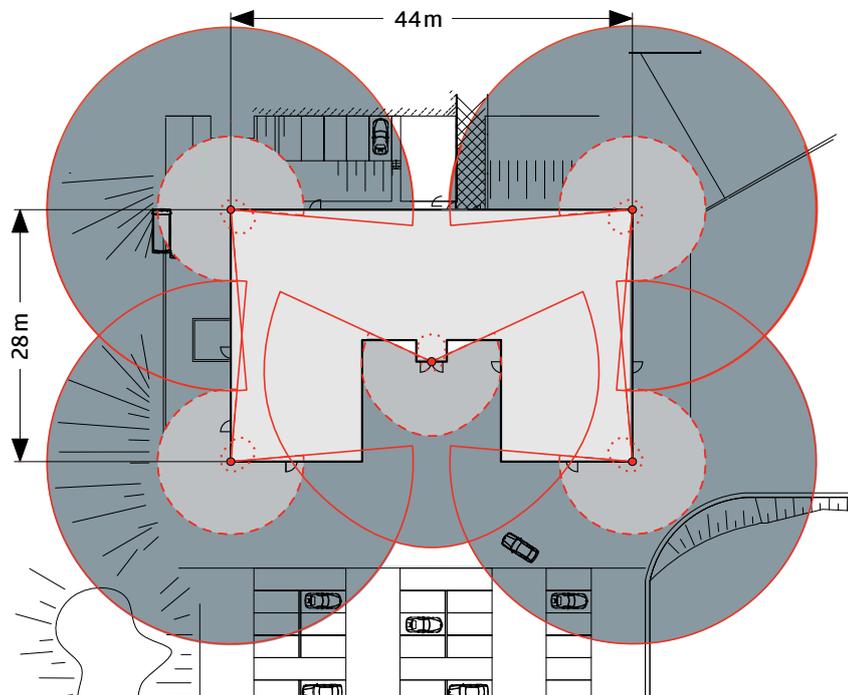
#### ■ Detection range Type "PD4-DAA4G"



- 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



Detector for  
● Lighting group 1

Mounting height = 2.50 m

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

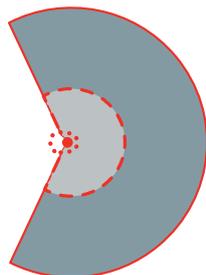
■ **Device setting:**

Follow-up time: 4 min  
Switch-on threshold: advanced twilight  
(symbol "moon dark")

■ **Operation mode:**

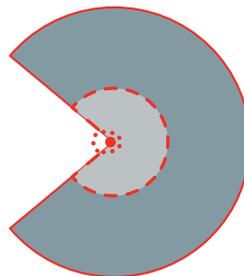
Standard operation (see circuit diagram RC-plus next N) or parallel connection with L' monitoring

■ **Detection range Type  
"RC-plus next N 230"**



— across max. 20 m  
- - - frontally max. 6 m  
..... Anti-creep zone max. 4 m  
for a mounting height of 2.50 m

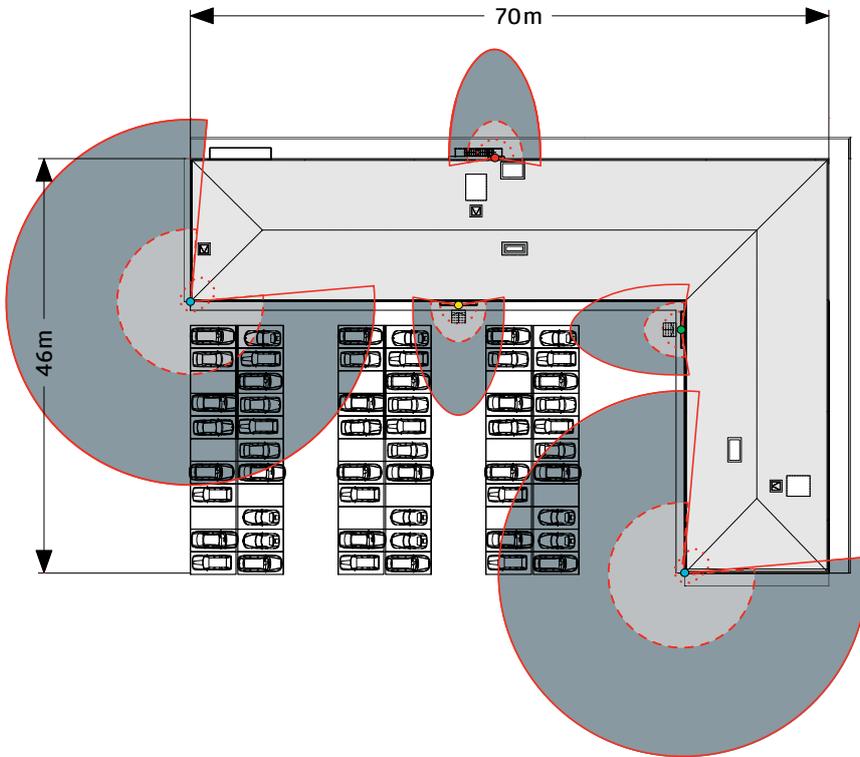
■ **Detection range Type  
"RC-plus next N 280"**



— across max. 20 m  
- - - frontally max. 6 m  
..... Anti-creep zone max. 4 m  
for a mounting height of 2.50 m

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

# Planning example building with RC-plus next N and LC-Click-N



- Detector for
- Lighting group 1
  - Lighting group 2-3
  - Lighting group 4
  - Lighting group 5

Mounting height = 2.50 m

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

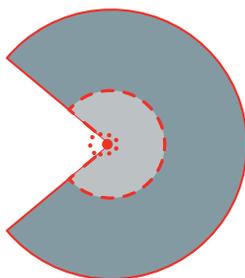
**Device setting:**

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

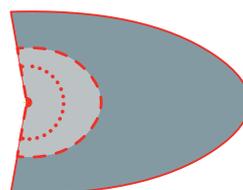
**Detection range Type "RC-plus next N 280"**



—	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

Part no.	Description	Prod./Gr.	Page	Part no.	Description	Prod./Gr.	Page	Part no.	Description	Prod./Gr.	Page
91008	LC-plus 280, white	1	16	92200	IR-PDim	9	184	92576	PD3N-1C-NO-PF-FC	13	25
91018	LC-plus 280, brown	1	16	92201	IR-PD9	9	184	92577	IR-CdS	9	184
91028	LC-plus 280, black	1	16	92215	IR-PD4-GH	9	184	92580	PD4-M-1C-SM	13	38
91048	LC-plus 280, silver	1	16	92217	PD4-M-DIM-C-FC	13	63	92583	PD11-M-1C-FLAT-FC	13	48
91051	LC-Mini 120, white	1	19	92218	PD4-M-DIM-C-SM	13	63	92585	PD4-M-1C-FC	13	38
91052	LC-Mini 180, white	1	20	92219	PD3N-1C-SM Micro	13	24	92586	PD4-M-1C-C-FC	13	39
91065	LC-Mini 180, silver	1	20	92245	PD4-M-1C-GH-SM	13	42	92587	PD4-M-1C-C-SM	13	39
91071	LC-Mini 120, black	1	19	92247	PD4-M-DIM-FC	13	62	92589	CdS-DIM-FC	10	179
91072	LC-Mini 180, black	1	20	92248	PD4-M-DIM-FM	13	62	92591	PD4-M-DAA4G-FC	24	87
92000	IR-RC	9	184	92249	CdS-FC	10	175	92593	PD11-S-FLAT-FC	13	118
92077	IR-PD-1C-E	9	184	92251	PD4-M-2C-DUO-FC	13	55	92594	PD11-LTMS-RR-FC	13	146
92090	IR-RC-Mini	9	184	92252	PD4-M-2C-DUO-FM	13	55	92610	Indoor 180-R UK covering included	13	156
92092	IR-PD-DUO	9	184	92254	PD4-S-FC	13	110	92616	Indoor 180-R-2D frame included	13	153
92093	IR-LC-Mini	9	184	92255	PD4-M-2C-FM	13	51	92621	Indoor 180-R-11-48V-3A frame included	13	157
92094	IR-PD-DALI	9	184	92258	PD2-M-DALI/DSI-FC	24	73	92622	Indoor 180-T frame included	13	152
92095	IR-LC-plus	9	184	92265	PD4-S-GH-SM	13	112	92623	Indoor 180-R frame included	13	151
92097	IR-PD4-TRIO	9	184	92270	PD4N-1C-C-SM	13	27	92630	Frame IP20 Indoor 180	6	149
92098	IR-PD-DIM-Mini	9	184	92271	PD4-M-DUO-DIM-SM	13	66	92631	Frame IP20 Indoor 180	6	149
92104	IR-PD4-TRIO-DALI	9	184	92272	PD4-M-DUO-DIM-FC	13	66	92632	Frame IP20 Indoor 180	6	149
92105	IR-PD3N	9	184	92273	PD4-M-DUO-DIM-FM	13	66	92633	Frame IP20 Indoor 180	6	149
92112	IR-PD-DALI-Mini	9	184	92274	PD4N-1C-C-FC	13	27	92634	Frame IP20 Indoor 180	6	149
92113	PD2N-LTMS-FC	13	143	92275	PD4-M-DALI/DSI-FC	24	74	92649	IR-RC-LD	9	184
92114	IR-PD-DIM-HKL	9	184	92276	PD4-M-DUO-DALI/DSI-FC	24	83	92650	Indoor 180-TR frame included	13	154
92115	IR-PD3N-2C	9	184	92279	PD4-M-DALI/DSI-SM	24	74	92652	IR-PD-DALI-LD	9	184
92116	IR-PD-DALI-1C	9	184	92280	PD2-M-DALI/DSI-SM	24	73	92655	SC1T	36	154
92119	PD2N-LTMS-RR-FC	13	144	92305	PD2-M-2C-12-48V-RR-SM	13	58	92660	Indoor 180-S without frame	13	161
92122	IR-PD-DALI-E	9	184	92306	PD2-M-2C-12-48V-RR-FC	13	58	92661	Indoor 180-M-2C without frame	13	160
92123	IR-PD-KNX	9	184	92320	MiniClip LR1	10	180	92664	Indoor 180-T without frame	13	152
92135	Indoor 180-S frame included	13	161	92328	PD4-M-DALI/DSI-C-FC	24	75	92665	Indoor 180-R without frame	13	151
92136	Indoor 180-M-2C frame included	13	160	92329	Indoor 180-LON without frame	19	142	92666	Indoor 180-R-11-48V-3A without frame	13	157
92139	Frame IP54 Indoor 180	6	149	92365	CdS-R	10	176	92667	Indoor 180-R-11-48V-RR without frame	13	158
92140	PD4-M-2C-SM	13	51	92367	CdS-T-SM	10	173	92668	Indoor 180-TR without frame	13	154
92141	SM-Socket Indoor 180, pure white	6	105	92368	IR-CdS-T	9	184	92681	TS-DD	10	177
92142	PD4-S-SM	13	110	92369	CdS-SM	10	174	92692	Cover ring PD11 Ø 100 mm	6	48
92143	PD4-M-2C-C-FC	13	52	92375	SM-Socket (IP65) PD4-SM IP20	6	38	92698	PD2-M-DALI/DSI-HVAC-FC	24	80
92144	PD4N-1C-SM	13	26	92376	SM-Socket (IP65) PD4-SM IP54	6	51	92699	PD4-M-DALI/DSI-HVAC-FC	24	82
92147	PD4-M-DIM-SM	13	62	92386	Socket IP54 PD4-TRIO-SM	6	56	92700	PICO-S-FC	13	117
92148	PD4-M-2C-FC	13	51	92396	IR-CdS-FP	9	184	92709	PD4N-LTMS-RR-FC	13	145
92149	PD4N-1C-FC	13	26	92440	PD4-M-2C-C-SM	13	52	92716	Indoor 180N-R/2W-UK covering included	13	155
92150	PD2-M-2C-SM	13	50	92441	Wall holder PD4-SM	6	27	92719	PICO-KNX-DX-FC	23	135
92151	PD4N-1C-FM	13	26	92442	PD4-S-C-SM	13	111	92721	PD4-S-DAA4G-FC	24	88
92152	PD2-S-SM	13	109	92443	PD4-M-2C-C-FM	13	52	92726	IR-Adapter for smartphones	9	184
92153	PD2-M-DIM-SM	13	61	92444	PD4-S-C-FC	13	111	92730	PD4-M-TRIO-DIM-SM	13	67
92154	PD2-M-2C-12-48V-3A-SM	13	57	92445	PD4-S-C-FM	13	111	92732	PBM-DALILINK-4W-BLE	24	96
92155	PD2-M-2C-FM	13	50	92467	Wire basket BSK (Ø 164 x 143 mm)	6	13	92734	PD2N-LON-SM	19	139
92156	PD2-S-FM	13	109	92473	IR-PD4-TRIO-2R1D	9	184	92735	PD4-M-TRIO-DIM-FC	13	67
92157	PD2-M-DIM-FM	13	61	92475	IR-PD-2C	9	184	92736	PD2N-LON-FC	19	139
92158	PD4-M-2C-DUO-SM	13	55	92479	IR-PD-LD	9	184	92740	PD4-M-3C-TRIO-SM	13	56
92159	IR-PD-Mini	9	184	92480	PD4-M-1C-C-PS-FC	13	40	92743	PD4-M-DAA4G-SM	24	87
92160	IR-PD	9	184	92485	PD4-M-1C-C-PS-SM	13	40	92745	PD4-M-3C-TRIO-FC	13	56
92161	SM-Socket IP54 PD2/PD4-SM	6	37	92486	PD2-M-DALI/DSI-1C-FC	24	79	92746	PD4-M-TRIO-C-3P-FC	13	41
92163	PD4-S-FM	13	110	92488	PD4-M-DALI/DSI-1C-FC	24	81	92747	PD4-M-TRIO-C-3P-SM	13	41
92164	PD2-M-2C-12-48V-3A-FC	13	57	92489	PD4-M-DALI/DSI-1C-SM	24	81	92750	PD4-M-TRIO-DALI/DSI-SM	24	84
92165	PD2-M-2C-FC	13	50	92507	PD4-M-DIM-HVAC-3A-FC	13	68	92751	PD4-M-TRIO-2DALI/DSI-1C-SM	24	85
92166	PD2-S-FC	13	109	92520	IR-PD-1C	9	184	92755	PD4-M-TRIO-DALI/DSI-FC	24	84
92167	PD2-M-DIM-FC	13	61	92530	PD4-M-DALI/DSI-C-SM	24	75	92756	PD4-M-TRIO-2DALI/DSI-1C-FC	24	85
92184	PD3N-1C-FC Micro	13	24	92537	Cover ring PD11 Ø 52 mm	6	48	92759	PD4-S-DAA4G-SM	24	88
92185	IR-LTMS	9	184	92547	PD4-M-DIM-HVAC-16A-FC	13	69	92760	PD4-M-2C-DS-FC	13	53
92186	PD3N-1C-FM	13	23	92550	PD2-M-1C-SM	13	37	92790	PD4-M-TRIO-2R-1D-FC	13	86
92188	PD3N-2C-FM	13	31	92555	PD2-M-1C-FM	13	37	92831	PD4N-LON-FC	19	140
92190	PD3N-1C-SM	13	23	92562	CdS-DALI/DSI-FC	10	181	92832	In-wall mounting set 1 / PD11	6	48
92196	PD3N-1C-FC	13	23	92563	CdS-DALI/DSI-SM	10	181	92833	In-wall mounting set 2 / PD11	6	48
92198	PD3N-2C-FC	13	31	92565	PD2-M-1C-FC	13	37				
92199	Wire basket BSK (Ø 200 x 90 mm)	6	23	92575	PD4-M-1C-FM	13	38				

## Product listing

Part no.	Description	Prod./Gr.	Page	Part no.	Description	Prod./Gr.	Page
92834	PD4N-LON-SM	19	140	93337	PD2N-BMS-FM	38	99
92835	IR-PD-LON	9	184	93341	RC-plus next N 280, white	1	15
92851	IR-PD4-TRIO-3C	9	184	93343	RC-plus next N 280, black	1	15
92900	PD9-M-1C-FC	13	43	93344	RC-plus next N 280, brown	1	15
92902	PD9-1C-FC	13	28	93346	RC-plus next N 230, silver	1	14
92905	PD9-S-FC	13	113	93357	PD4-BMS-C-SM	38	101
92910	PD9-M-DIM-FC	13	64	93360	PD2N-KNX-DX-FC	18	129
92912	PD9-M-1C-SDB-IP65-FC, white	13	45	93361	PD2N-KNX-DX-FM	18	129
92913	PD9-M-1C-SDB-IP65-FC, silver	13	45	93362	Indoor 180-KNX-BA without frame	42	123
92915	PD9-S-SDB-FC (Slave device sensor)	13	115	93363	Indoor 180-KNX-ST without frame	42	127
92917	PD9-DIGI	13	30	93364	Indoor 180-KNX-DX without frame	42	138
92920	PD9-M-DALI/DSI-FC	24	77	93377	PD4N-DALILINK	24	94
92923	PD9-M-1C-GH-FC	13	44	93380	PD2N-KNX-BA-FC	42	121
92924	PD9-M-DIM-GH-FC	13	65	93381	PD2N-KNX-BA-FM	42	121
92928	PD9-S-GH-FC	13	114	93382	PD2N-KNX-ST-FC	18	124
92931	PD9-M-1C-SDB-IP65-GH-FC, white	13	46	93383	PD2N-KNX-ST-FM	18	124
92932	PD9-M-1C-SDB-IP65-GH-FC, silver	13	46	93384	PD4N-KNX-ST-FC	18	125
92933	PD9-S-SDB-GH-FC (Slave device sensor)	13	116	93385	PD4N-KNX-ST-FM	18	125
92934	PD9-1C-GH-FC	13	29	93386	PD4N-KNX-DX-FC	18	130
92938	PD9-M-DALI/DSI-GH-FC	24	78	93387	PD4N-KNX-DX-FM	18	130
92958	Cover PD9 IP65 PD9 sensor head	6	28	93388	PD4N-KNX-C-DX-FC	18	131
92973	PD9-M-DIM-HVAC-FC	13	70	93389	PD4N-KNX-C-DX-FM	18	131
92976	PD9-M-2C-FC	13	54	93390	PD9-KNX-DX-FC	18	133
92985	PD9-1C-12-48V-FC	13	33	93391	PD9-KNX-GH-DX-FC	18	134
92989	PD9-LON-FC	19	141	93392	PD11-KNX-FLAT-DX-FC	18	136
92991	Square design frame rectangular PD3N-FC	6	23	93393	Indoor 140-L-KNX-DX without frame	18	137
92992	Square design frame rectangular PD4-FC	6	38	93394	RC-plus next N 230 KNX-DX	23	128
92993	Square design frame rectangular PD9-FC	6	43	93395	RC-plus next N 230 KNX-DX	23	128
92994	Square design frame rectangular PD11-FC	6	48	93397	Indoor 180-BMS	38	105
93006	PD4-M-HCL-FC	24	89	93398	IR-PD-KNX-Mini	9	184
93007	PD4-M-HCL-SM	24	89	93399	PD4-KNX-GH-DX-SM	18	132
93015	PD4-M-DALI/DSI-GH-SM	38	76	93802	PD11-KNX-FLAT-ST-FC	18	126
93016	CdS-LC-SM black	10	178	93803	PD11-KNX-FLAT-BA-FC	18	122
93025	PD4-BMS-GH-SM	38	102	93908	PICO-DALILINK-FC	24	95
93033	PD2-M-DALI/DSI-1C-SM	24	79	93924	PICO-BMS-FC	38	103
93041	LC-Click-N 140 UK 2.000 W, white	1	17	94055	PD2N-M-1C-LED-FC	13	49
93042	LC-Click-N 200 UK 2.000 W, white	1	18	94327	Indoor 140-L without frame	13	159
93051	LC-Click-N 140 UK 2.000 W, brown	1	17	94341	Frame IP20 Indoor 140-L	6	148
93052	LC-Click-N 200 UK 2.000 W, brown	1	18	94342	Frame IP20 Indoor 140-L	6	148
93061	LC-Click-N 140 UK 2.000 W, black	1	17	94343	Frame IP20 Indoor 140-L	6	148
93062	LC-Click-N 200 UK 2.000 W, black	1	18	94344	Frame IP20 Indoor 140-L	6	148
93067	BLE-IR-Adapter	9	184	94401	HF-MD1	27	166
93068	PD11-DALILINK-FLAT-FC	24	93	94402	HF-MD2-SM	27	165
93110	IR-PD3/4N-1C-E	9	184	94417	HF-MD1 ESL	27	165
93159	PICO-N-M-1C-FC	13	47	94431	HF-H-MD1 Standard	27	167
93307	SM socle mounting set IP54 PD2N/4N-FM	6	94	94437	HF-MD3	27	168
93311	PD4N-BMS	38	100	94438	HF-MD4	27	169
93312	PD4-BMS-FC	38		94459	HF-EM1 external light sensor with IR receiver	6	168
93321	RC-plus next N 130, white	1	13	94460	HF-CO1 Impact protection and Strain relief	6	168
93323	RC-plus next N 130, black	1	13	96510	PD3-MIC-2C-FC	1	32
93324	RC-plus next N 130, brown	1	13	97005	Inside corner socket RC-plus next	6	13
93325	PD4-BMS-SM	38					
93329	PD2N-BMS-FC	38	99				
93330	PD11-BMS-FLAT-FC	38	104				
93331	RC-plus next N 230, white	1	14				
93332	PD4-BMS-C-FC	38	101				
93333	RC-plus next N 230, black	1	14				
93334	RC-plus next N 230, brown	1	14				







■ Subsidiaries and commercial agencies