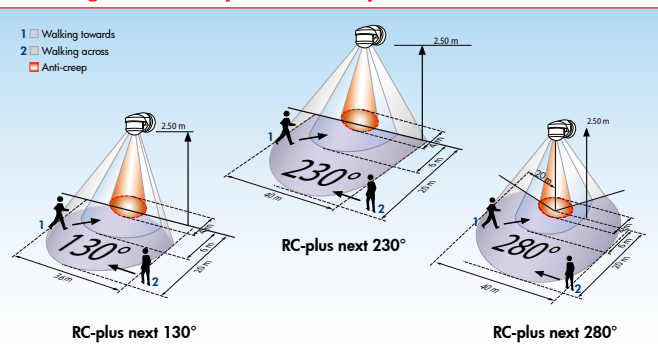


**B.E.G. LUXOMAT®**

Motion detector  
for outside use

**Coverage of the RC-plus next – super sensitive**



**Description**

Type	Colour	Part Number
RC-plus next 130	white	97001
RC-plus next 130	brown	97011
RC-plus next 130	black	97021
RC-plus next 230	white	97002
RC-plus next 230	brown	97012
RC-plus next 230	black	97022
RC-plus next 230	silver	97042
RC-plus next 280	white	97003
RC-plus next 280	brown	97013
RC-plus next 280	black	97023
IR-RC	grey	92000
IR-RC-Mini	grey	92090

**Technical data**

Power supply	230 V~ ± 10%; 50 - 60 Hz
Switching power	3000 W, cos(φ)=1; 1500 W, cos(φ)=0,5
Range (walking across)	approx. 36 m (RC-plus next 130), approx. 40 m (RC-plus next 230 and 280)
Detection area	130°/230°/280° + 360°-anti-creep
Time settings	15 sec. - 16 min.
Photo electric switch	2 - 2500 Lux
Degree of protection	IP54
Class	II / CE
Dimensions	L 121 x P 71 x L 85 mm
Housing UV- and shock-resistant Polycarbonate	
Ambient temperature	-25°C to +50°C
Walking direction identification	Individual display of the four main walking directions, as well as <b>different switch-on times for entering and leaving</b> the house.

**B.E.G. LUXOMAT®**

Motion detector  
for outside use

**B.E.G. motion detector range for outdoor use**

RC-plus next series		<i>The premier class</i> Remote controllable motion detector with 130°, 230° or 280° detection. <b>New:</b> with higher switching capacity (3000 W) as well as dynamic follow-up time adjustment; now in KNX version.
LC-plus series		<i>The middle class</i> Motion detector with up to 280° detection with separate base.
LC-Click-N series		<i>The very reasonable one</i> Motion detector with separate base and 140° or 200° detection. <b>New:</b> now with anti-creep.
LC-Mini series		<i>The attractive offer</i> Motion detector with 120° or 180° detection and small dimensions. Settings via potentiometer.

Distributor:

www.beg-luxomat.com



IFL 5689 - 140612-4 / B.E.G. operates a policy of continuous product improvement and development. As seen we reserve the right to change the product specifications at any time. Errors excepted.

**B.E.G. LUXOMAT®**



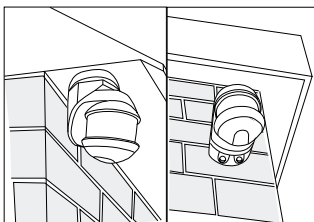
Now is **NEXT** time!



Energy savings  
cost reduction  
environmental protection

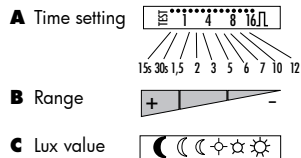
**LUXOMAT® RC-plus next**

Easy installation by mounting on a wall, ceiling or outer corner

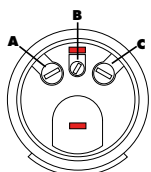


The setting elements are located under the removable protective ring.

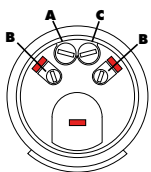
Rotary control dial:



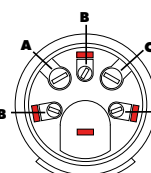
LED



RC-plus next 130°



RC-plus next 230°



RC-plus next 280°

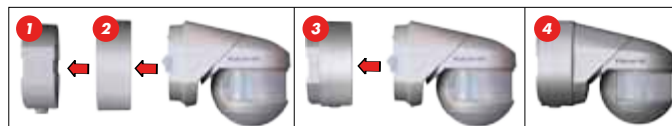
**Super sensitive!**



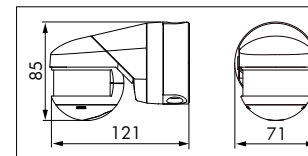
**The super sensitive LUXOMAT® RC-plus next with dynamic follow-up time adjustment**

- Latest PIR technology
- Maximum security and much comfort
- Large signal-noise ratio so even more reliable and stable
- Automatic read-in function of the current twilight value at LUXOMAT® RC-plus next via IR-RC remote control
- **New: energy saving by courtesy of follow-up accommodation**
- Up to four detection levels and 360° creep protection for a gapless monitoring, connectible and disconnectible with remote control LUXOMAT® IR-RC
- Factory-set program for prompt activation
- Wall-, ceiling- and outside corner mountable
- **Now also as KNX version available**
- Additional cover clips also ensure stepless adjustment of the detection area
- Modern sensor technology for a better quality of the detection, especially by walking towards
- Detector is compatible to the socket base of LUXOMAT® RC-plus and LUXOMAT® Vario
- Detection of the direction of motion and upgradeable with radio module
- Many programmes adjustable (with remote control LUXOMAT® IR-RC)
- Simple corner socket installation
- Special socket base corner mounting available as an accessory
- Easy installation with plug-in socket
- **Application examples:** for narrow premises, walkways, gateways

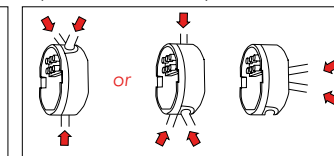
The RC-plus next is compatible with the socket LUXOMAT® RC-plus and Vario  
 1) Old socket 2) Extra cover (included) 3) Previous socket with pluggable extra cover 4) Socket complete



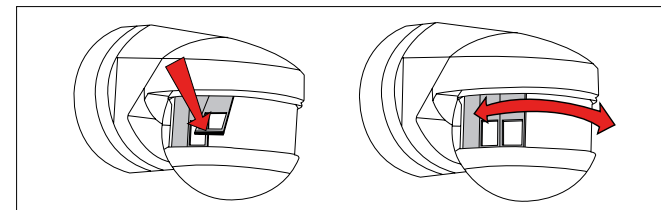
Dimensions



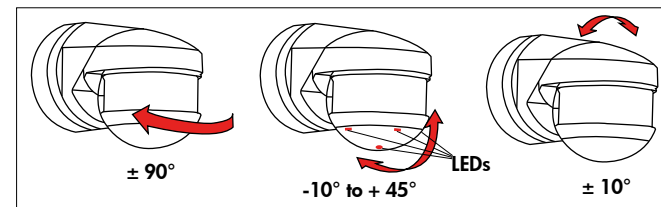
Options of cable entry



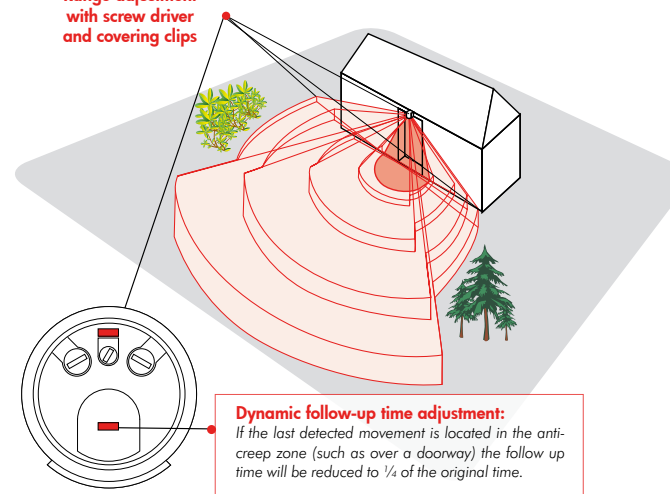
The detection range can be changed as required by simply clipping open the cover ring or by resetting the unit with the remote control.



By swivelling the ball head into the various directions of rotation the RC-plus next can meet even the most difficult requirements.



Range adjustment with screw driver and covering clips



**Dynamic follow-up time adjustment:**  
 If the last detected movement is located in the anti-creep zone (such as over a doorway) the follow up time will be reduced to 1/4 of the original time.

## Product

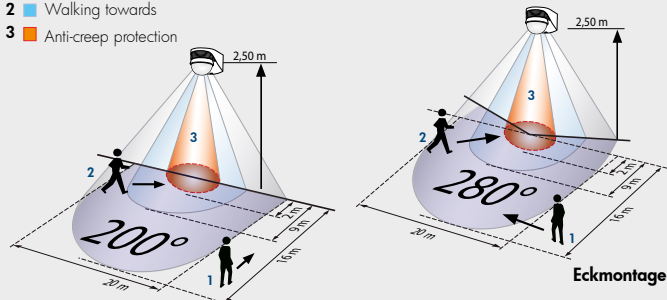
Article	Colour	Part-no.
LC-plus 280	white	91008
LC-plus 280	brown	91018
LC-plus 280	black	91028
LC-plus 280	silver	91048

## Technical data

	110 - 240V AC; 50/60Hz
	IP44 / II / CE
	-25°C to +50°C
	Housing UV- and shock resistant polycarbonate
	IR-LC-plus, IR-LC-Mini
<b>Channel 1 (control the lighting)</b>	
	2000 W, cosφ=1; 1000 VA, cosφ=0,5
	15 sec. - 16 min. or pulse
	2 - 2000 Lux

## Detection area

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



Wandmontage

Eckmontage



## Accessory

Article	Colour	Part-no.
IR-BIRC Adapter for B.E.G. Remote control app	black	92827
IR-LC-Mini	grey	92093
IR-LC-plus	grey	92095

Remote control app downloadable free of charge:



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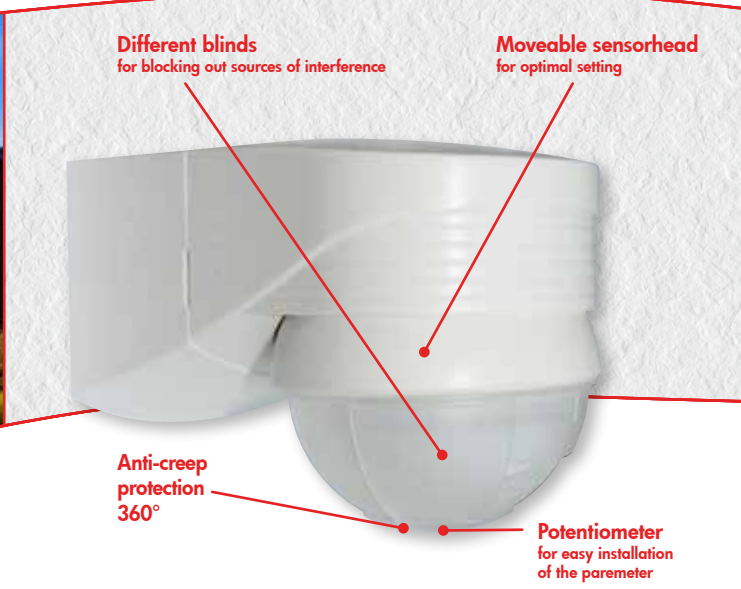
## The tried and tested one

Exterior motion detector for applications demanding high levels of functionality and quality



**LC-plus 280**

LFI XXXX - 160415-1/ B.E.G. operates a policy of continuous product improvement and development. As seen we reserve the right to change the product specifications at any time. Errors excepted.



**Convenient detection**

The remotely-controllable exterior motion detector provides reliable detection of movements in driveways, garages and entrances, which the connected lighting system then illuminates.

As well as its 280° detection area, the LC-plus 280 is equipped with a 360° anti-creep zone, with which the area directly under the detector is completely covered.

**Simple setup**

The potentiometers for setting brightness threshold and follow-up time are located on the underside of the sensor head. Standard factory settings allow for immediate use.

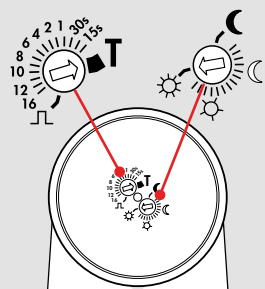
The detection area can be adjusted as required using the moveable head. The range can also be restricted with the blinds included.

**Fast installation**

Installing the detector is easy and quick with the single-handed socket: once the socket is installed, the motion detector is simply inserted into it.

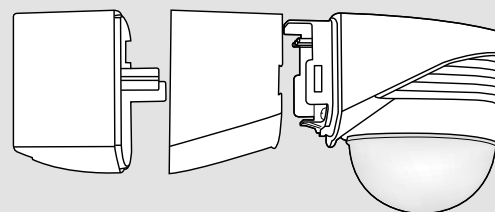
The included corner socket also allows for external corner mounting positions. This enables full utilisation of the LC-plus 280's detection area. The detector provides reliable gap-free detection of movement in the area to be monitored.

**Easily accessible potentiometers**



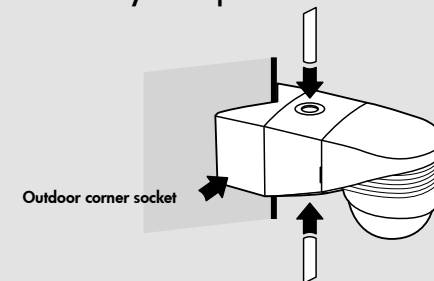
- Brightness threshold (☾☀): Lux value from which a detected movement triggers switch-on of the lighting
- Follow-up time (T): Period after which lighting is deactivated after the last movement detected. Impuls-schaltung möglich (⏏).

**Easy installation with plug-in socket**



Outdoor corner socket      Socket      Motion detector

**Cable entry from up and down**



Outdoor corner socket

## Product

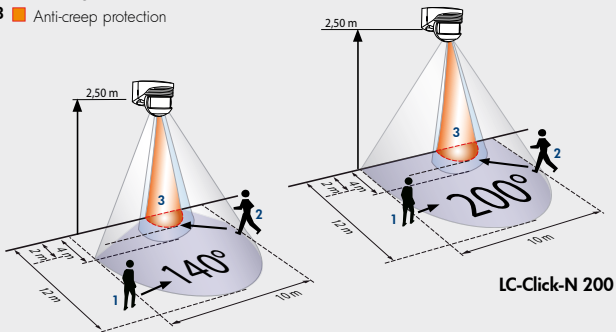
Article	Colour	Part-no.
LC-Click-N 140	white	91001
LC-Click-N 140	brown	91011
LC-Click-N 140	black	91021
LC-Click-N 200	white	91002
LC-Click-N 200	brown	91012
LC-Click-N 200	black	91022

## Technical data

	110 - 240 V AC; 50/60 Hz
	IP54 / II / CE
	L 103 x W 78 x H 80 mm
	-25°C to +50°C
	Housing UV- and shock resistant polycarbonate
<b>Channel 1 (control the lighting)</b>	
	1000 W, cosφ=1; 500 VA, cosφ=0,5
	4 sec. - 20 min.
	2 - 2000 Lux

## Detection area

- 1 ■ Walking across
- 2 ■ Walking towards
- 3 ■ Anti-creep protection



LC-Click-N 140

LC-Click-N 200



## B.E.G. motion detector range for outdoor use

<b>RC-plus-next-series</b>		<b>The premier class</b> Remote controllable motion detector with 130°, 230° or 280° detection.
<b>LC-plus-series</b>		<b>The tried and tested one</b> Remote controllable motion detector with detection up to 280°.
<b>LC-Click-N-series</b>		<b>The economical one</b> Motion detector with 140° or 200° detection.
<b>LC-Mini-series</b>		<b>The little one</b> Motion detector with 120° or 180° detection and small dimensions.

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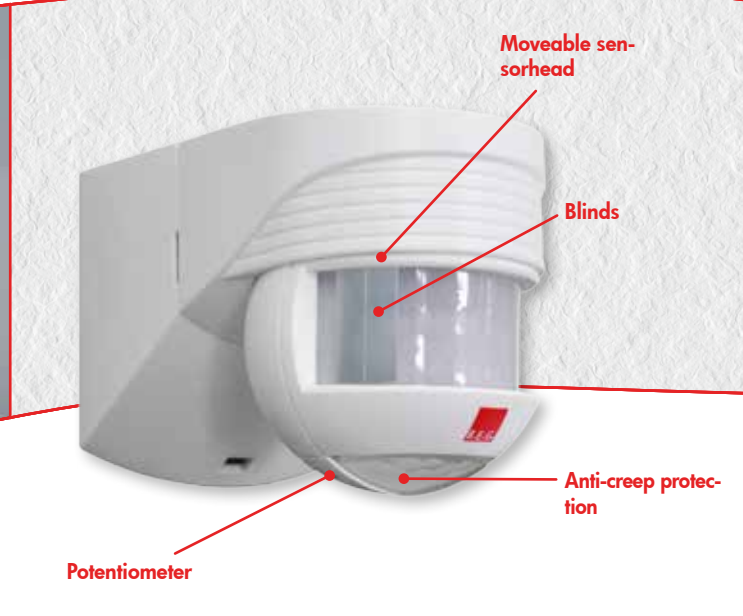
[www.beg-luxomat.com](http://www.beg-luxomat.com)

## The economical one

Energy-saving motion detector  
with anti-creep zone



**LC-Click-N**



**Gapless detection area**

This proven exterior motion detector has a detection area of 140° or 200° depending on model, and a 180° anti-creep zone for gapless coverage.

The LC-Click-N can easily be adapted to local requirements. It is particularly suited to the monitoring of narrow properties and entrances, or for installation above doors to be used as an entry sensor

**Easily installed and set up**

Mounting the detector on the wall is fast, thanks to the single-handed socket. Any flush-mounted boxes installed are completely covered by the socket.

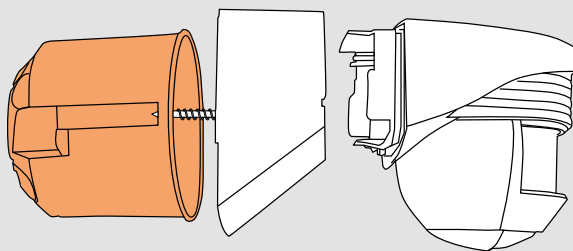
The potentiometers for setting brightness threshold and follow-up time are located on the underside of the sensor head. Using a screwdriver, the motion detector can easily be adapted to local requirements.

**Maximum security and convenience**

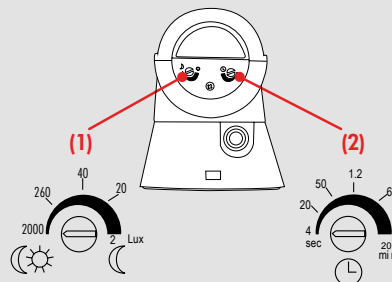
The detection area can be adjusted as required using the moveable head. The range can also be restricted with the blinds included. These are simply clipped in front of the lens.

This economical small motion detector turns on the lighting when movement is detected, starting at the installed brightness threshold, thus providing exterior security.

**Easy socket installation**

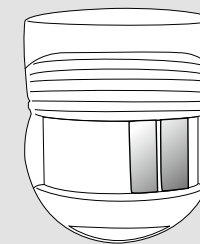


**Easily accessible potentiometers**



- Brightness threshold (1): Lux value from which a detected movement triggers switch-on of the lighting
- Follow-up time (2): Period after which lighting is deactivated after the last movement detected

**Blocking out sources of interference**



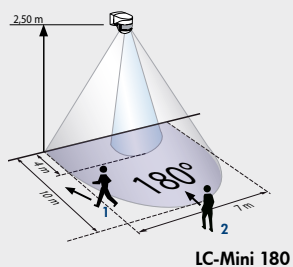
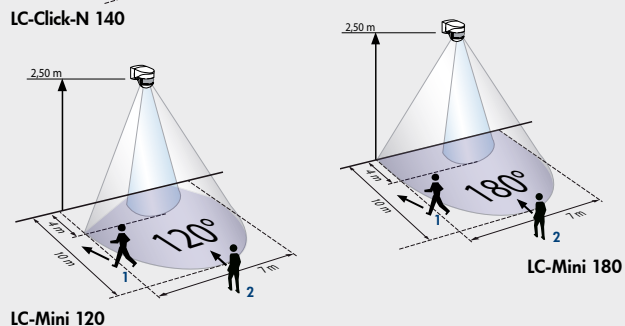
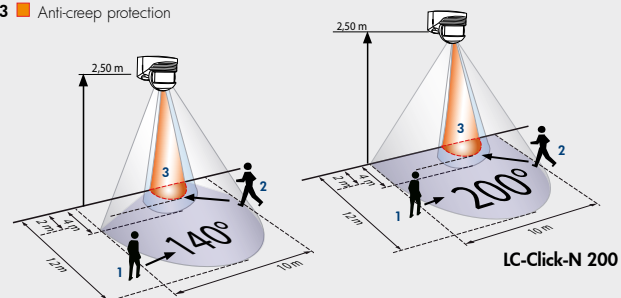
- With suitable blinds (included in the pack), sources of interference can be filtered out as appropriate, or the detection area can be restricted.

## Technical data

	LC-Click-N	LC-Mini
	110 - 240V AC; 50/60Hz	230V AC ± 10%
	IP54 / II / CE	IP44 / II / CE
	L 103 x W 78 x H 80 mm	L 80 x W 55 x H 70 mm
	-25°C to +50°C	-25°C to +50°C
	Housing UV- and shock resistant polycarbonate	Housing UV- and shock resistant polycarbonate
<b>Channel 1 (control the lighting)</b>		
	1000W, cosφ=1; 500VA, cosφ=0,5	1000W, cosφ=1; 500VA, cosφ=0,5
	4 sec. - 20 min.	4 sec. - 10 min.
	2 - 2000 Lux	2 - 2000 Lux

## Detection area

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



LC-Mini 120



## Product

Article	Colour	Part-no.
LC-Click-N 140	white	91001
LC-Click-N 140	brown	91011
LC-Click-N 140	black	91021
LC-Click-N 200	white	91002
LC-Click-N 200	brown	91012
LC-Click-N 200	black	91022
LC-Mini 120	white	91051
LC-Mini 120	black	91071
LC-Mini 180	white	91052
LC-Mini 180	black	91072

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LC-Click-N



LC-Mini



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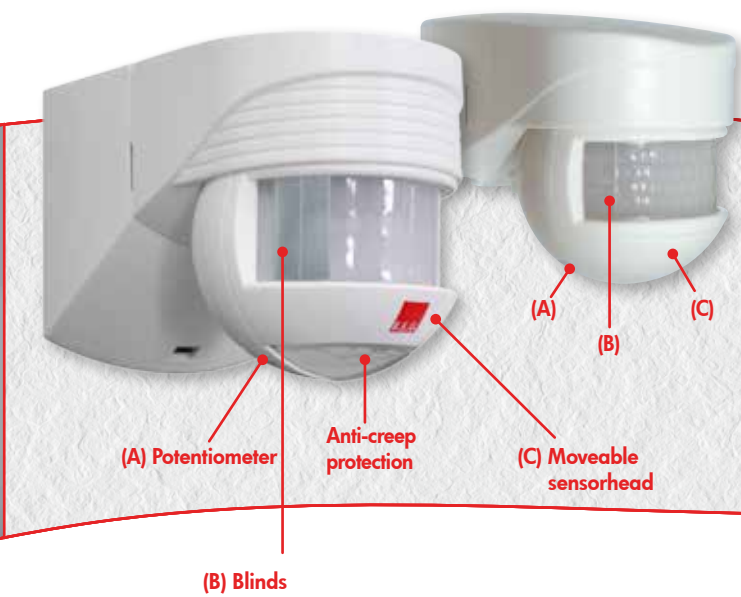
[www.beg-luxomat.com](http://www.beg-luxomat.com)

## The small ones

Exterior motion detectors  
with reliable detection



**LC-Click-N and LC-Mini**



**LC-Click-N – The economical one**

This exterior motion detector offers a good price-performance ratio, and has a detection angle of 140° or 200° depending on model. An additional 180° anti-creep zone covers the area directly under the detector. This guarantees gap-free monitoring. It is especially suited to monitoring narrow properties and entrances, or for installation above doors to be used as an entry sensor.

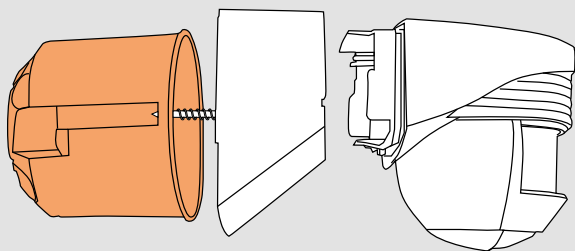
**LC-Mini – The small one**

This extremely compact mini exterior motion detector has a 120° or 180° detection angle, depending on model. Its small dimensions mean it is very discreet. Clever technology in a small space gives a detection area of up to 10 m.

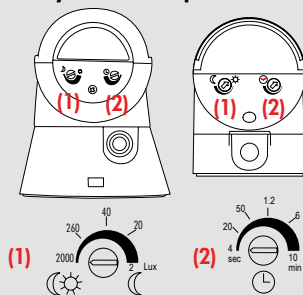
**Proven features**

- Potentiometers for brightness threshold and follow-up time on underside of sensor head
- Tilting movable head for adjustment of detection area as required
- Blinds included, to limit detection area
- Quick and easy single-handed socket mounting

**LC-Click-N: Mounting on FM-socket**

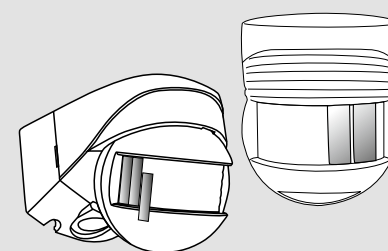


**Easily accessible potentiometers**



- Brightness threshold (1): Lux value from which a detected movement triggers switch-on of the lighting
- Follow-up time (2): Period after which lighting is deactivated after the last movement detected

**Blocking out sources of interference**



- The detection area can be reduced with blinds if needed.

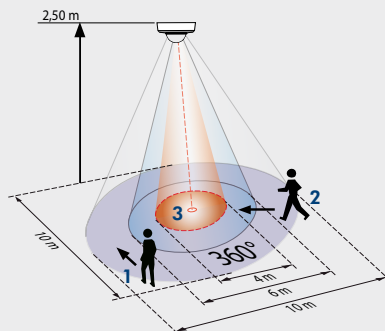


## Technical data

	110 - 240V AC; 50/60 Hz
	360°
	Ø 10 m across Ø 6 m towards Ø 4 m kleinere Bewegungen
	AP= IP44 DE= IP23 UP= IP20 / Class II / C€
	AP Ø 106 x H 53 mm DE Ø 83 x H 81 mm UP Ø 106 x H 63 mm
	-25°C to +50°C
	Housing UV- and shock resistant polycarbonate
	IR-PD3N (PD3N-1C), IR-PD3N-2C (PD3N-2C), IR-PD-Mini
<b>Channel 1 (control the lighting)</b>	
	2300 W, cosφ=1; 1150 VA, cosφ=0,5
	30 sec. - 30 min. or pulse
	10 - 2000 Lux
<b>Channel 2 (control HVAC potential free) (only PD3N-2C)</b>	
	Dry contact type NO 3A, 230 V, cosφ=1
	5 min. - 120 min.

## Detection area

- 1 Walking across
- 2 Walking towards
- 3 Kleinere Bewegungen



## Product

Article	Colour	Part-no.
PD3N-1C-SM	white	92190
PD3N-1C-FC	white	92196
PD3N-1C-FM	white	92186
PD3N-1C-NO-PF-FC	white	92576
PD3N-1C-SM Micro	white	92219
PD3N-1C-FC Micro	white	92184
PD3N-2C-FC	white	92198
PD3N-2C-FM	white	92188

## Accessory

Article	Colour	Part-no.
IR-BIRC Adapter for B.E.G. Remote control app	black	92827
IR-PD-Mini	grey	92159
IR-PD3N	grey	92105
IR-PD3N-2C	grey	92115
Wire basket BSK (Ø 200 x 100)	white	92199

Remote control app downloadable free of charge:



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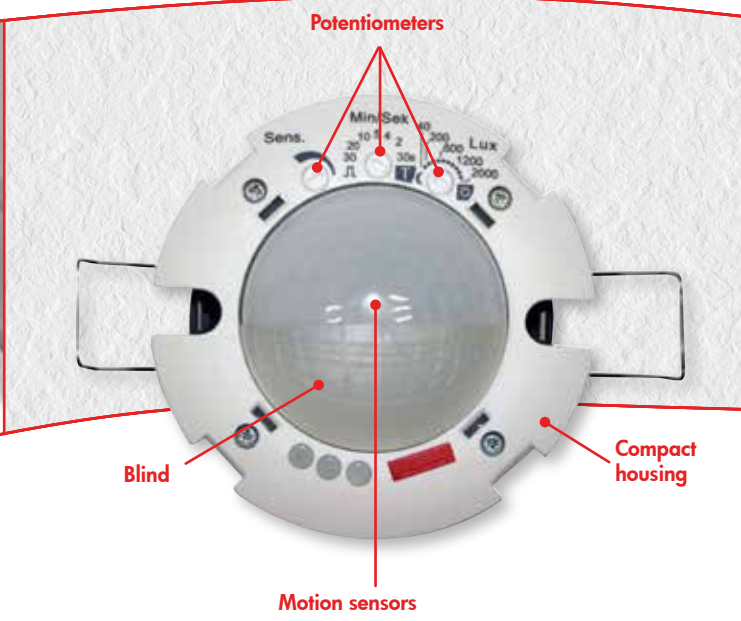
[www.beg-luxomat.com](http://www.beg-luxomat.com)

## The compact one

Big on features, small in size



PD3N



**Energy saving made easy**

Motion detectors can substantially reduce energy costs for lighting buildings. The high-performance relay in the PD3N enables presence-dependent switching of high-output lamps.

The compact housing of the PD3N contains state-of-the-art technology: the sensor can detect even the smallest movements with its special optical system.

**Simple setup**

The potentiometers are directly under the cover ring. These can be adjusted with a screwdriver to set sensitivity, follow-up time and brightness threshold. Alternatively, these values can be programmed in to the detector with the remote control (available as accessory).

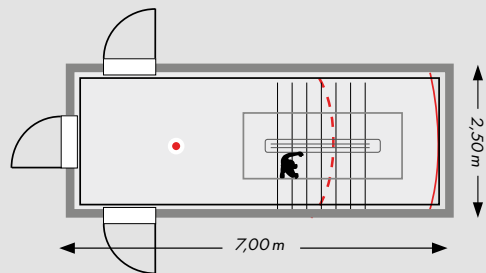
If required, the detection area can be restricted with the blinds included.

**Compact design**

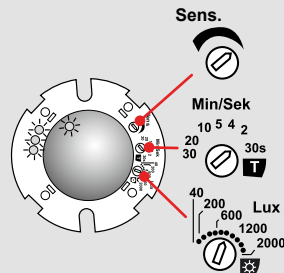
The sensors and power components are located in the PD3N's case. The detector is available in surface-mount, false ceiling, and flush-mount versions. For simple installation, the surface-mount version has a separate housing.

LEDs provide a visual indication when movement is detected. These LEDs can be covered up if required.

**Installation example: Stairwell**

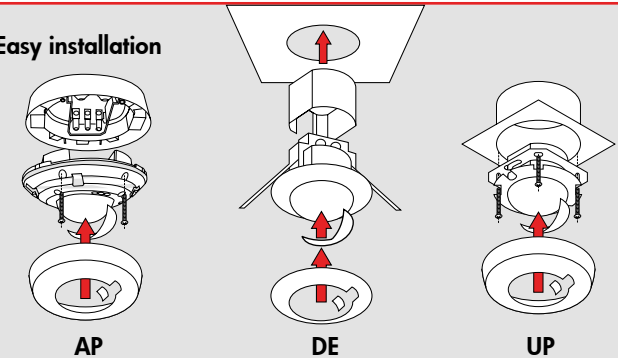


**Easily accessible potentiometers**















- Sensitivity (**Sens.**): Reduction of sensitivity
- Follow-up time (**Min/Sek**): Period after which lighting is deactivated after the last movement detected
- Brightness threshold (**Lux**): Lux value from which a detected movement triggers switch-on of the lighting

**Easy installation**

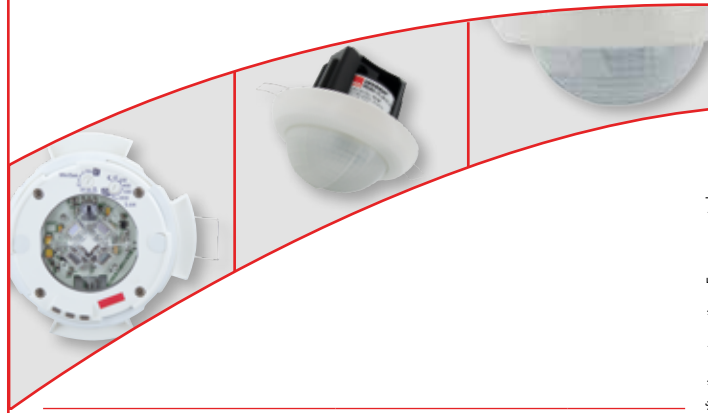
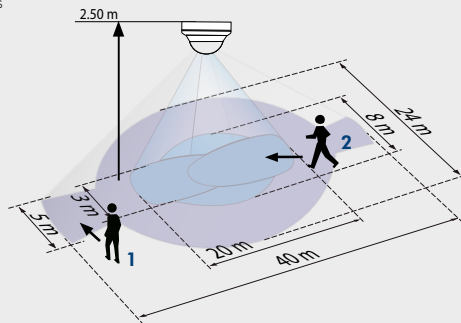


## Technical data

	110 - 240V AC; 50/60Hz
	360°
	Ø 40m across Ø 20m towards
	Mandatory mounting height 2.4m - 2.6m
	SM= IP44 FC= IP23 / Class II / CE
	SM Ø 109 x H 65 mm FC Ø 106 x H 90 mm
	-25°C to +50°C
	Housing UV- and shock resistant polycarbonate
	IR-PD3N, IR-PD-Mini
<b>Channel 1 (control the lighting)</b>	
	2300 W, cosφ=1; 1150 VA, cosφ=0.5
	30 sec. - 30 min. or pulse
	10 - 2000 Lux

## Detection area

- 1 Walking across
- 2 Walking towards



## Product

Article	Colour	Part-no.
PD4N-1C-C-SM	white	92270
PD4N-1C-C-FC	white	92274

## Accessory

Article	Colour	Part-no.
IR-Adapter for Smartphones	black	92726
Remote control IR-PD-Mini	grey	92159
Remote control IR-PD3N	grey	92105
Wire basket BSK (Ø 200 x 100)	white	92199

Remote control  
app downloadable  
free of charge:



## B.E.G. (UK) Ltd.

Q West, Great West Road • Brentford, Middlesex, TW8 0GP  
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## MARLIN Electrical Ltd

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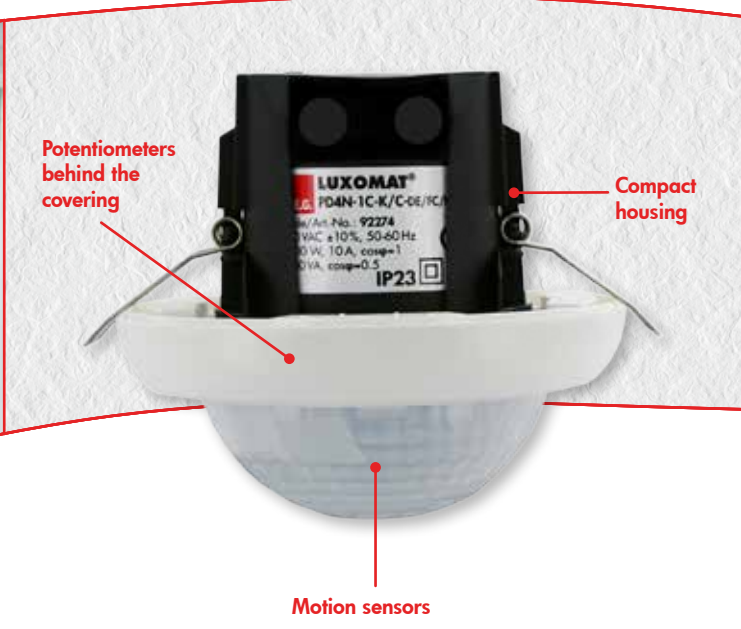
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## Large detection

Ceiling-mounted motion detector  
designed for corridors



**PD4N-1C-C**



**Capture large areas safe**

The motion detectors of the PD4N series possess extremely large detection ranges thanks to their innovative sensor technology. Thereby they are particularly suitable for monitoring large areas such as parking areas.

Especially with the corridor version long corridors can be motion dependent controlled. Thus, the lighting will be switched on demand and energy can be saved.

**Simple setup**

The potentiometers are directly under the cover ring. These can be adjusted with a screwdriver to set sensitivity, follow-up time and brightness threshold. Alternatively, these values can be programmed in to the detector with the remote control (available as accessory).

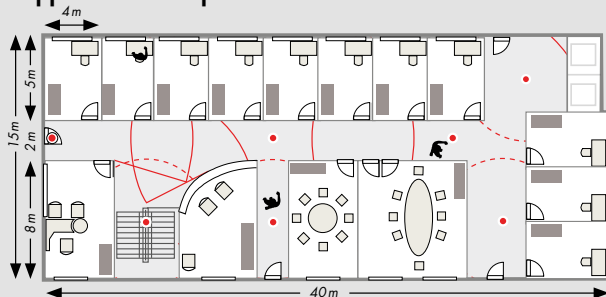
If required, the detection area can be restricted with the included blinds.

**Compact design**

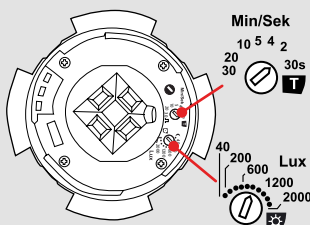
The sensors and power components are located in the PD4N's case. The detector is available in surface-mount and false ceiling versions.

For maximum sensitivity the detector, lens- and corridor-axis must match.

**Application example: Corridor**

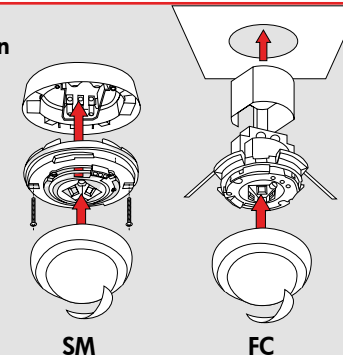


**Easily accessible potentiometers**

















- Follow-up time (**Min/Sek**): Period after which lighting is deactivated after the last movement detected
- Brightness threshold (**Lux**): Lux value from which a detected movement triggers switch-on of the lighting

**Easy installation**



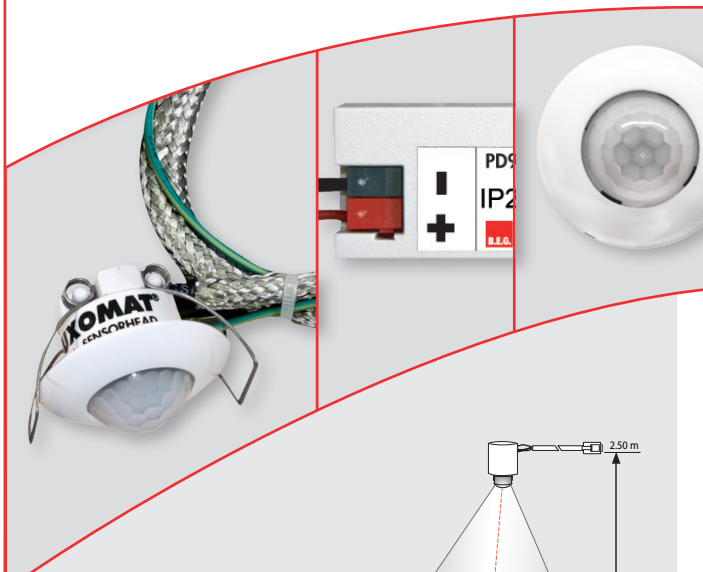
## Product

Article	Colour	Part-no.
PD9-DIGI-FC	–	92917
PD9-1C-FC	white	92902
PD9-1C-GH-FC	white	92934
PD9-1C-12-48V-FC	white	92985
 PD9-M-1C-FC	white	92900
 PD9-M-1C-GH-FC	white	92923
 PD9-M-1C-SDB-IP65-FC	white	92912
 PD9-M-1C-SDB-IP65-GH-FC	white	92931
 PD9-M-2C-FC	white	92976
 PD9-M-DIM-FC	white	92910
 PD9-M-DIM-GH-FC	white	92924
 PD9-M-DIM-HVAC-FC	white	92973
 PD9-M-DALI/DSI-FC	white	92920
 PD9-M-DALI/DSI-GH-FC	white	92938
PD9-S-FC	white	92905
PD9-S-GH-FC	white	92928
PD9-S-SDB-FC	white	92915
PD9-S-SDB-GH-FC	white	92933
 PD9-KNX-FC	white	92890
 PD9-KNX-GH-FC	white	92891
 PD9N-LON-FC	white	92989
 – remote controllable		

## Accessory

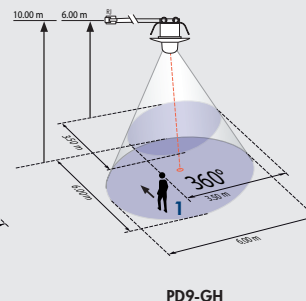
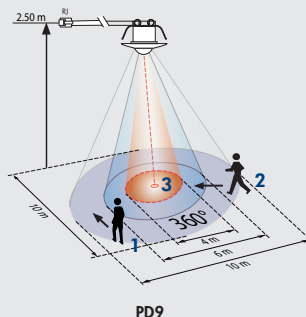
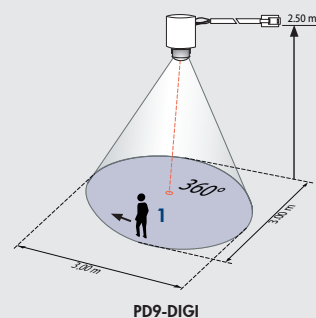
Article	Colour	Part-no.
IR-Adapter for B.E.G. Remote control app	black	92726
Cover ring for PD9 (Ø 36 mm)	white silver	92238 92237
<b>not for SDB devices</b>	anthracite	92235
Cover ring for PD9 (Ø 45 mm)	white silver	92327 92346
<b>not for SDB devices</b>		

Remote control app downloadable free of charge:



## Detection area

- Walking across
- Walking towards
- Smaller movements/ Seated



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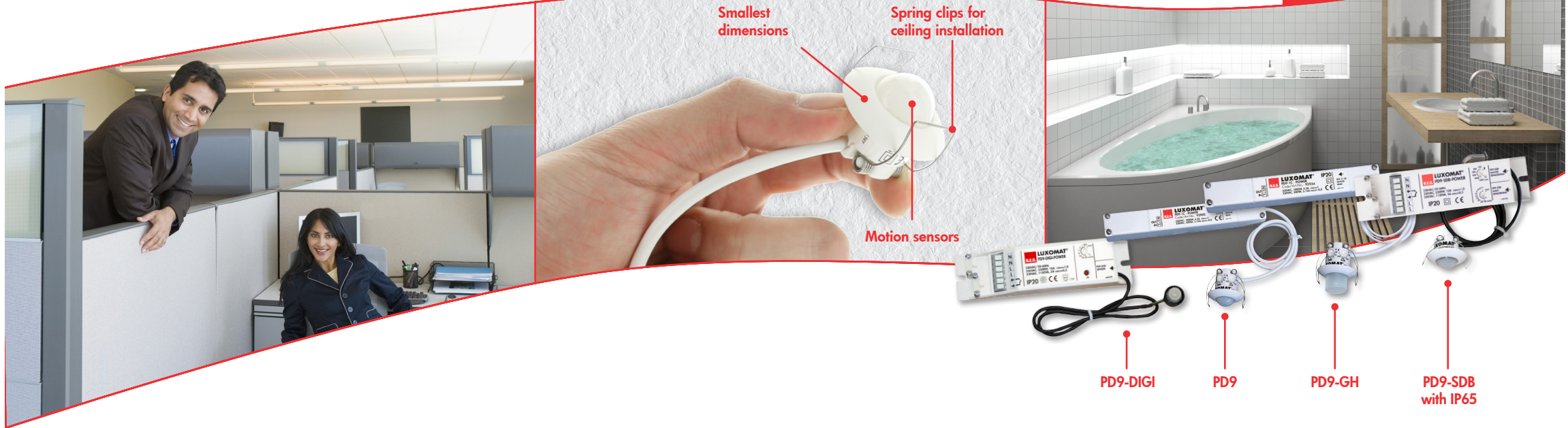
[www.beg-luxomat.com](http://www.beg-luxomat.com)

## Big family – small detectors

Small, unobtrusive detectors for intelligent lighting control



PD9-Series



**Almost invisible**

The PD9 family of ceiling motion and occupancy detectors have a very small sensor head and power unit, and have been developed especially for time-saving installation directly into light fittings or in suspended ceilings.

Despite their small dimensions (max. 45 mm outer ring and 25 mm sensor), their powerful relays have no problem controlling high-power lamps.

**Versatility**

The mini occupancy detectors have a 360° detection area and a range of up to 10 m in diameter.

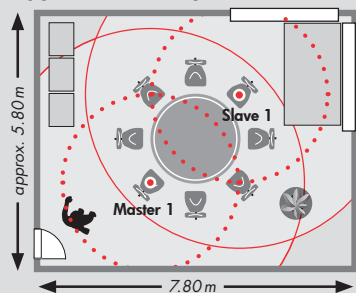
An exciting range: They are available for **110-240V, 12-48V, KNX, DALI, DIM** and **LON**. There are stand alone, Master and Slave versions, and versions for special applications such as for large heights (GH), e.g. in high-bay warehouses, or for moisture-proof (SDB-IP65) use, e.g. bathrooms.

**Straightforward installation**

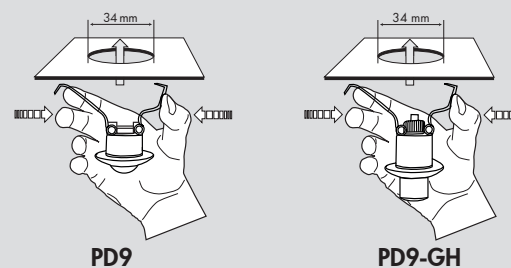
The power unit can pass through the hole for the sensor head. The sensor head is easy to install, simply using an RJ12 plug to connect the sensor and power units.

Individual settings can be made by potentiometers on the power unit or sensor head (depending on version), or via a compatible remote control (required for some functions).

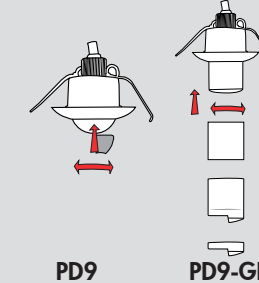
**Application example: Conference room**



**Easy fitting with spring clips**




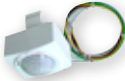








**Exclude sources of interference**



▪ The range can be reduced through use of the blinds.

Save energy and money automatically with occupancy detectors from B.E.G.

PD1N		Remote controllable occupancy detector with square detection area and a range of 7.5 x 7.5 m. Available as master, slave and DIM version; ideal adjustment to the geometry of rooms.
PD2		Remote controllable occupancy detector with circular detection area and range of 10 m Ø as master, slave and DIM version, two switching channels.
PD4		Remote controllable occupancy detector with circular detection area, two channels and a range of 24 m Ø as master, slave and DIM version, with one, two or three switching channels. Special versions for corridors, for big heights and for two independent light zones with separate control are available also.
PD5		Remote controllable occupancy detector with circular detection area and a range of 10 m Ø as master, slave and DIM version, two switching channels for fluorescent tubes.
PD9		Remote controllable mini-occupancy detector (only 45 mm Ø) with circular detection area and range of 10 m Ø as master, slave and DIM version, one switching channel. Also available in IP65 version.
Indoor 180		Remote controllable occupancy detector as wall switch with 180° detection area and range of 10 m Ø as master, slave and DIM version, one switching channel.
PD2-/Indoor 180-24V		Occupancy detector as wall switch with circular detection area and range of 10 m Ø, for 24V-version
PD2-/4-DALI/DSI		Remote controllable occupancy detector with circular detection area and a range of 10 m or 24 m Ø for DALI-DSI-lights.
PD2-/PD4-/Indoor 180-KNX		Occupancy detector with circular detection area and a range of 10 m or 24 m Ø for KNX-Bus.
PD2-/Indoor 180-LON		Remote controllable occupancy detector with circular detection area and a range of 10 m Ø for KNX-Bus.

B.E.G. occupancy detectors – high technology for you

- Extensive range for almost all applications, like offices, schools, nursery schools etc.
- Special solutions for corridors, great heights for warehouses and gyms
- High protection IP65 for use in damp environments
- As master, slave, one, two or three channels, DIM versions
- For mounting on wall, ceiling and flush mounting

LFL 6104 – 240812-4 / B.E.G. operates a policy of continuous product improvement and development. As seen we reserve the right to change the product specifications at any time. Errors excepted.



Energy savings  
cost reduction  
environmental protection

Save energy and money automatically



**B.E.G. – Occupancy detectors**



Saving energy with modern B.E.G. occupancy detectors is possible in different areas.

**LUXOMAT® Occupancy detectors with 360° detection area**

- Blended measurement of daylight and artificial light
- Light measurement continues to be active after movement is registered and after the artificial lighting has been switched on
- Special solutions e.g. for great heights, for connection to KNX/EIB, ION BUS or as DALI version
- Saves a great deal of energy throughout the building
- Operate in either presence (**automatic**) or absence (**semi-automatic**)
- Predominantly remote controlled
- High quality workmanship and materials

- **Application examples:** offices, nursery school, corridors, schools, warehouses, conference rooms, solarium, sports halls, in rooms with two areas of lighting, in damp environments or for use without direct contact



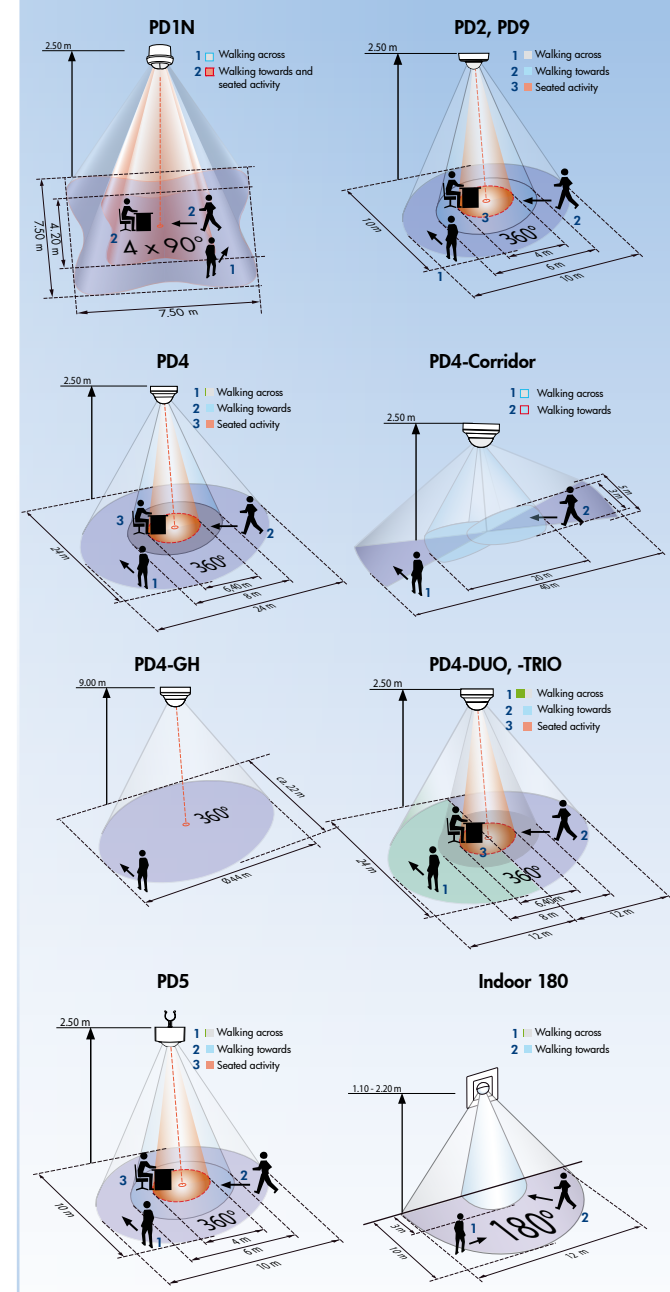
**Example: Energy and environmental balance**

Open-plan office with PD2-M-1C			
Mode / bulb	16 Lights 4 x 18 W T5		Savings
	with OD	without OD	
Consumption in kWh/year on 250 workdays	1440 kWh	2304 kWh	864 kWh
CO <sub>2</sub> emission reductions/year			432 kg*
Also available trees for CO <sub>2</sub> reduction			1 tree x 22**
Costs per year at 0.20 €/kWh	288.00 €	460.80 €	172.80 €

172.80 € saved

\*0.5 kg CO<sub>2</sub> for generating 1 kWh with average energy mix  
 \*\*1 tree absorbs approx. 20 kg CO<sub>2</sub>/year  
 without D (motion detector) = permanent light (mean total of the time lamps are switched on approx. 8 h in 24 h)  
 with D = light only on with movement (mean total of the time lamps are switched on approx. 1 h in 24 h)

**Occupancy detectors detection areas**












**PD4-M-2C-DS - Technical Data**

Power supply:	230V- ±10%
Ambient temperature:	-25°C - +50°C
Degree of protection/class:	IP20 / II
Lux values:	20 - 1000Lux with remote control 10 - 2000Lux with potentiometer
Area of coverage:	circle 360°
Range of coverage Ø H 2,50 m / T = 18°C:	seated 6,40m / tangential 24 m / frontal 8 m
Recommended height for mounting:	2 - 3 m
Type of contact:	NOC/with pretravel tungsten contact and zero crossing circuit
Contact load:	2300 W cos φ=1 / 1150 VA cos φ=0.5, µ-Contact
Time-settings:	15 sec. - 60 min./ Test with potentiometer 5 min. - 30 min./ Test with remote control
Dimension:	H 100 x Ø 117 mm
Visible portion when built into ceiling FC:	H 37 x Ø 117mm

**Article / Part nr. / Accessory**

Typ	Colour	Art.-Nr.
PD4-M-2C-DS-FC	white	92760
<b>Accessory (optional)</b>		
LUXOMAT® IR-PD-1C	grey	92520
LUXOMAT® IR-PD-Mini	grey	92159
BSK Ball basket guard	white	92199

**B.E.G. Motion detector with 360° - Detection**

<b>PD1N</b>		Remote controllable occupancy detector with square detection area and a range of 7,5 x 7,5 m. 1 or 2 switching channels, slave version. Also as a KNX solution.
<b>PD2</b>		Remote controllable occupancy detector with circular detection area and a range of 10 m Ø. 1 or 2 switching channels, DIM and slave version. Also as a KNX /LON-solution. NEW: PD2N-LTMS with analog output for light and temperature value at 16-48V BUS.
<b>PD3N</b>		Remote controllable occupancy detector with circular detection area and a range of 10 m Ø. 1 or 2 switched channels for switching light.
<b>PD4N/ PD4N-C</b>		Remote controllable occupancy detector with circular detection area and a range of 24 m Ø. One channel for switching light, not remote controlled. Also available as optional version for corridors.
<b>PD9-DIGI</b>		Mini motion detector specifically designed for installation in luminaires, with circular detection area and 3m Ø range. One channel for switching light.
<b>PD9</b>		Remote-Controlled Mini-Motion Ceiling (only 36mm Ø) with circular detection area and 10m Ø range. One channel for switching light. Also as a DIM, KNX and slave version and 12-48V
<b>PD9-GH</b>		Mini-presence detector for indoor applications with circular detection area and about 5.40 m Ø range specifically for high-bay-warehouse.


[www.beg-luxomat.com](http://www.beg-luxomat.com)
**The 2-phase detector**
**B.E.G. (UK) Ltd.**

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**B.E.G. Ireland**

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10 Vesey Place • Monkstown  
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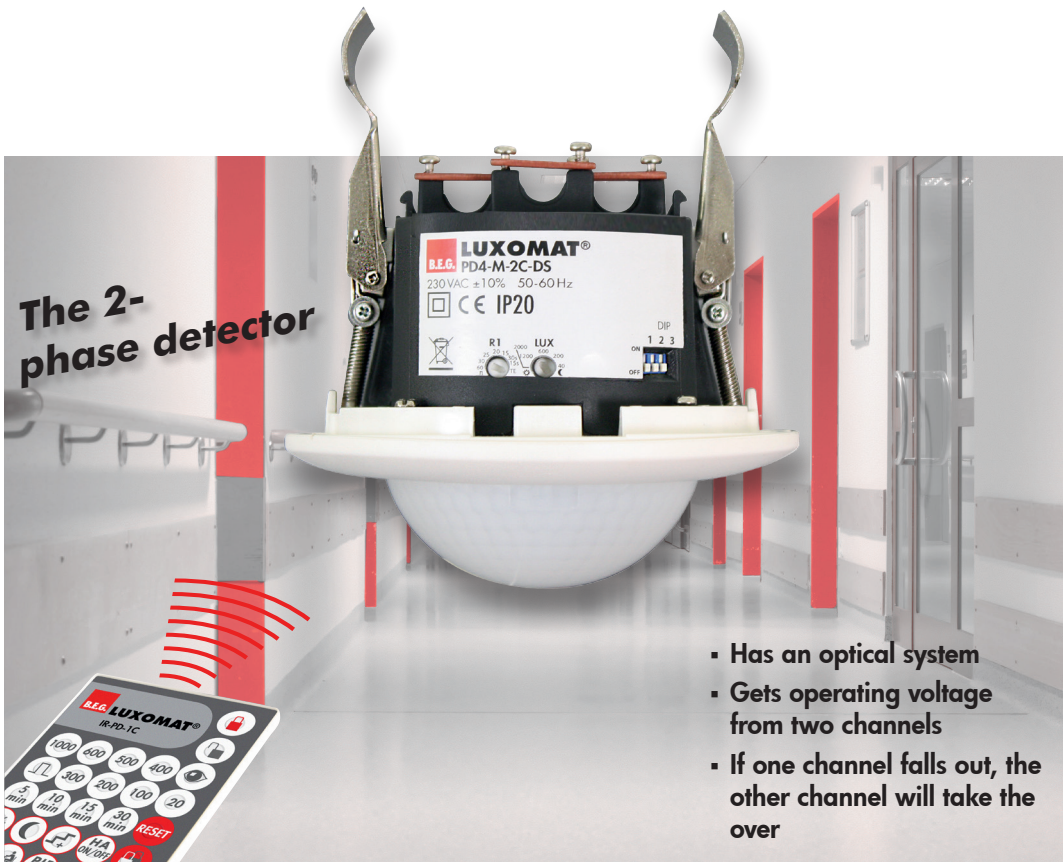

 Environmental  
management

 Quality  
management

IEL 8038 - 0810131 / B.E.G. operates a policy of continuous product improvement and development. As seen we reserve the right to change the product specifications at any time. Errors excepted.



Energy savings  
cost reduction  
environmental protection



**With safety light - even in an emergency**

The PD4-M-2C-DS is an absolute new market innovation - it can be connected to two separate circuits of the AC power. The lighting system can be split into two separate groups, all lights are divided between the two groups.

If the power supply is working regularly, the system is running as a normal presence detectors and controls all connected lights. The detector applies his operating voltage from both phases.

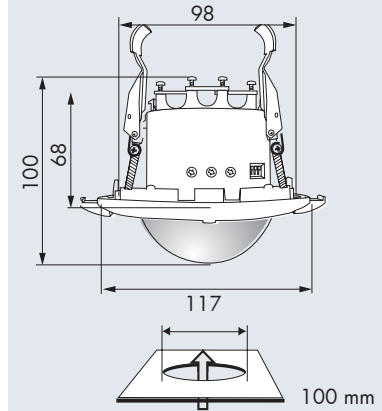
If a phase fails, the PD4-M-2C-DS-FC still controls the lights connected to the other phase. Some lights remain operational.

In spite of the separate power circuits the PD4-M-2C-DS-FC can be switched manually via a button, because it is electrically isolated. The detector is also remote control. The 2-phase-detector PD4-M-2C-DS-FC having a shared optical system for both channels. With a further PD4-M-2C-DS-FC as a slave, the area is once again extended.

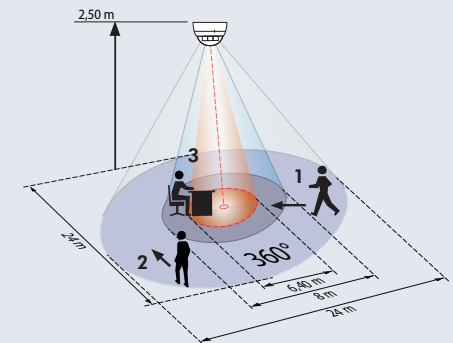
- Can be connected to two separate power circuits of the AC mains plug
- Is galvanically divided into two groups
- The probability of a total failure of the lighting is therefore considerably reduced
- A shared key for both groups

**Examples:**  
Furnished emergency networks, such as in the hospital or data centers.

**PD4-M-2C-DS - Dimension**



**Range**



- 1 walking towards
- 2 walking across
- 3 seated

**Technical data DALI/DSI detectors**

<b>Power supply</b>	230V~ ±10%		
<b>Detection area</b>	circular, 360°		
<b>Range in m (Ø)</b> H= 2.50 m / T= 18 °C	<b>seated</b>	<b>walking across</b>	<b>walking towards</b>
• PD2/PD9	4.00 m	10.00 m	6.00 m
• PD4	6.40 m	24.00 m	8.00 m
• PD9-GH		max. 6 m	
<b>Parallel operation</b>	Master/Slave		
<b>Power consumption</b>	< 1W		
<b>Light sensor</b>			
• PD2/PD4(-DUO)	10 - 2000 Lux		
• PD9	2 - 2500 Lux		
• PD4-TRIO	10 - 1200 Lux		
<b>Mounting height</b>			
• PD2/PD4/PD9	2 - 3 m		
• PD9-GH	10 m		
<b>Time settings</b>			
• PD2/PD4(-DUO)/PD9	1 - 30 min. / test		
• PD4-TRIO	1 - 60 min. / test		
<b>Light measurement</b>	daylight and artificial light, suitable for constant light control		
<b>Orientation light (20% of the nominal light)</b>	as permanent light settable via timer		
<b>DALI-output</b>			
• PD2-/PD4(-DUO)/PD9	Connection up to 50 DALI-EBs for each channel		
• PD4-TRIO	Connection up to 25 for DALI output 1 and 2, and up to 10 for DALI output 3		
Input contact 230 V for on/off button and dimming			
<b>Channel 2 (only PD2/PD4-M-DALI/DSI-1C)</b>			
<b>Type of contact:</b>	NOC/with pretravel tungsten contact		
<b>Contact load:</b>	2300 W cos φ=1 / 1150 VA cos φ=0.5, µ-Contact		
<b>Dimensions</b>	(Ø x H)		
• PD2-M-DALI/DSI-SM/-FC	98 x 50 mm, 80 x 84.5 mm		
• PD4-M-DALI/DSI-SM/-FC	98 x 65 mm, 97 x 103 mm		
• PD9-M-DALI/DSI-FC	45 x 28 mm (detector), L 165 x W 24 x H 24 mm (power supply)		
• PD9-M-DALI/DSI-GH-FC	45 x 40 mm (detector), L 165 x W 24 x H 24 mm (power supply)		
• PD4-M-DUO-DALI/DSI-FC	97 x 103 mm		
• PD4-M-TRIO-DALI/DSI-SM/FC	124 x 85 mm, 117 x 100 mm		
<b>Protection/class</b>	IP20 / II / CE		
Housing UV- and shock-resistant Polycarbonate			
<b>Ambient temperature</b>	-25°C to +50°C		

**Description**

Type	Colour	Part number
PD2-M-DALI/DSI-SM	white	92280
PD2-M-DALI/DSI-FC	white	92258
PD2-M-DALI/DSI-1C-FC	white	92486
PD2-S-SM	white	92152
PD2-S-FC	white	92166
PD4-M-DALI/DSI-SM	white	92279
PD4-M-DALI/DSI-FC	white	92275
PD4-M-DALI/DSI-1C-FC	white	92488
PD4-M-DUO-DALI/DSI-FC	white	92276
PD4-M-TRIO-DALI/DSI-FC	white	92755
PD4-M-TRIO-DALI/DSI-SM	white	92750
PD4-S-SM	white	92142
PD4-S-FC	white	92254
PD9-M-DALI/DSI-FC	white	92920
PD9-M-DALI/DSI-GH-FC	white	92938
PD9-S-FC	white	92905
<b>Accessory (optional)</b>		
LUXOMAT® IR-PD-DALI (remote control)	grey	92094
LUXOMAT® IR-PD4-TRIO-DALI (remote control)	grey	92104



**Set new standards with  
DALI/DSI-occupancy  
detectors for dimming**



Energy savings  
cost reduction  
environmental protection



**B.E.G.-occupancy detectors PD2/PD4/PD9-DALI/DSI**

- Remote controllable group occupancy detector with **DALI**-interface
- Integrated light sensor for automatic **constant light control**
- Circular detection area
- Available with additional switching relay
- Toggle between DSI- and DALI-program
- PD4 also available as DUO- and TRIO-DALI/DSI version
- PD2/PD4 also available with second HVAC channel
- Orientation light, 20% of the nominal light, can be set as permanent light in standard version using timer
- More comfort thanks to a gentle balance of the variation in daylight

- The connection of a unlimited number of slaves is possible!
- Strip lights near the window are dimmed or are often switched off in the daytime.
- If there is an individual need for more or less light, the light can be adapted to the desired condition with the help of the dim button
- There are no special knowledge

- required: simply install, set the light value and the on-period and everything is ready!
- Connection of up to 50 DALI-EBs for PD2/PD4(-DUO)/PD9 each channel resp. up to 25 for DALI output 1 and 2, and up to 10 for DALI output 3 for PD4-TRIO always as group
- **Application examples:** schools, offices, conference rooms, nursery schools, hospitals

**Example: Energy and environmental balance**

Lighting for working places in office buildings with PD2-DALI/DSI			
Mode / bulb	4 light fixtures 4 x 14W T5		Savings
	with OD	without OD	
Consumption in kWh / year	58 kWh	349 kWh	291 kWh
CO <sub>2</sub> emission reduction / year			146 kg*
Also available trees for CO <sub>2</sub> reduction			x 7**
<b>Costs per year at 0.20€ / kWh</b>	<b>11.60€</b>	<b>69.80€</b>	<b>58.20€</b>

\*0.5 kg CO<sub>2</sub> for generating 1 kWh with average energy mix  
\*\*1 tree absorbs approx. 20 kg CO<sub>2</sub> / year

**without OD** (occupancy detector) = permanent light (mean total of the time lamps are switched on approx. 8 h in 24 h)

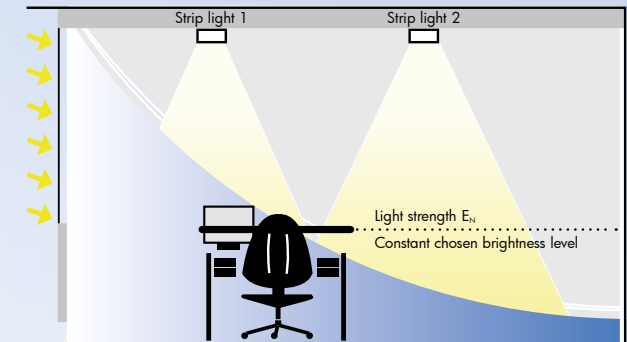
**with OD** = light only on with movement (mean total of the time lamps are switched on approx. 1 h in 24 h)

**LUXOMAT® PD-DALI/DSI – everything in a single housing:**

- Occupancy detector registers the presence of someone in the room
- Light sensor for constant light despite fluctuating daylight
- Infrared receiver for remote control
- Connection of up to 50 DALI-EBs for PD2/PD4(-DUO)/PD9 each channel resp. up to 25 for DALI output 1 and 2, and up to 10 for DALI output 3 for PD4-TRIO always as group
- Interface for 2-wire connection with electronic ballasts
- Push-button input for manual touch and dim function
- Slave connection

**One or two groups of lights?**

As the distribution of daylight within a room is uneven, different lighting conditions exist depending on distance from the window. The further away from the window a desk or work station is, the less daylight it receives compared to a desk positioned close to the window.



**Distribution of daylight and artificial light within the room**

The distribution of artificial light therefore needs to be exactly the opposite: less light is needed by the window than in the middle of the room.

- Up to 60 % energy saving by taking adjusting for daylight
- Up to 20 % saving thanks to occupancy detection

**Remote control**

In addition to setting workplace brightness and the duty cycle, the entire electronic ballast area can be dimmed using the IR-PD-DALI resp. IR-PD4-TRIO-DALI.

**Advantages for the specialist**

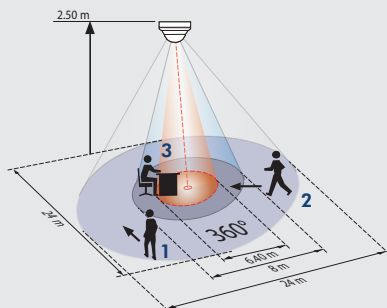
- Brightness regulation without flickering
- Use of standard buttons
- Independent of lamp manufacturer (a prerequisite, however, is a digital electronic dimming ballast)
- Settings unaffected by power fluctuations and disruptions
- 2-core BUS wiring
- No BUS wiring polarit

## Technical data

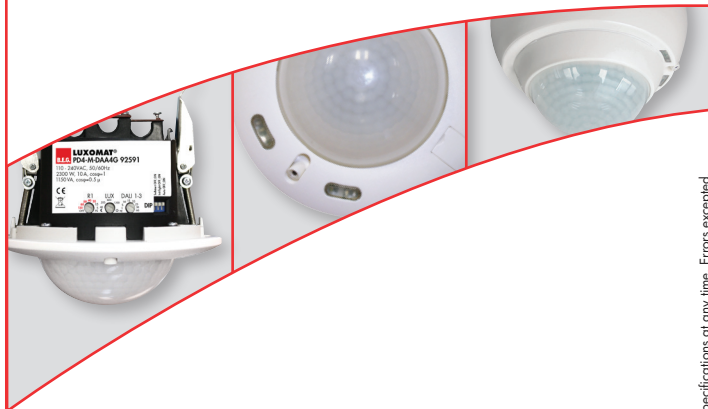
	110 - 240V AC; 50/60Hz
	IP20 / II / CE
	-25°C to +50°C
	Housing UV- and shock resistant polycarbonate
	IR-Adapter with app (iOS / Android)
<b>DALI control</b>	
	1-64 DALI-EB, max. 150 mA
	1 min - 150 min (light zones)
	100 - 1000Lux
<b>Relay (potential free NO)</b>	
	2300 W, $\cos \phi = 1$ 1150 VA, $\cos \phi = 0.5$
	5 min - 120 min (HVAC)

## Detection area\*

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



\*Extension of the detection area possible by using Slave devices



## Product

Article	Colour	Part-no.
PD4-M-DAA4G-SM	white	92743
PD4-M-DAA4G-FC	white	92591

## Accessory

Article	Colour	Part-no.
IR-Adapter for B.E.G. Remote control app	black	92726
PD4-S-DAA4G-SM	white	92759
PD4-S-DAA4G-FC	white	97030

Remote control  
app downloadable  
free of charge:



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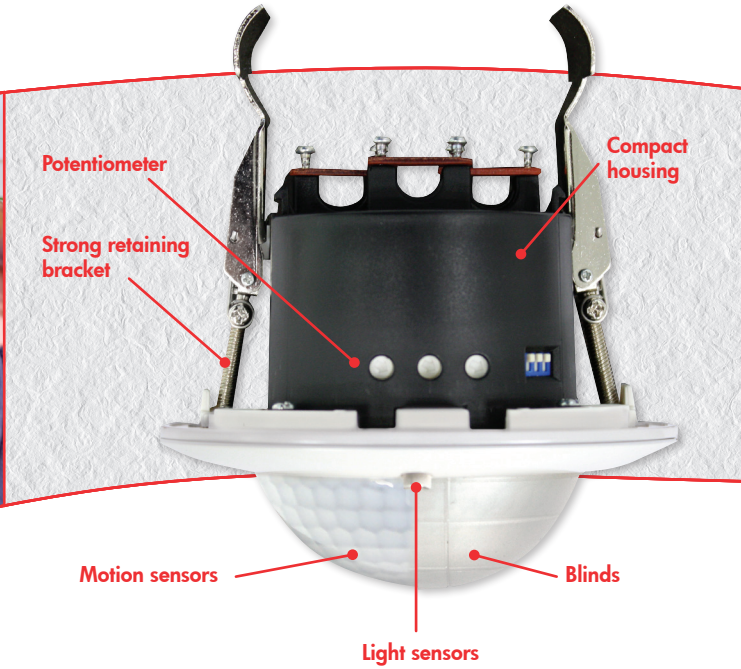
[www.beg-luxomat.com](http://www.beg-luxomat.com)

## The specialist

Compact DALI solution for  
classrooms and training rooms



**PD4-M-DAA4G**



**Flexible installation options**

The PD4-M-DAA4G is a compact lighting management system tailored for training rooms and classrooms, offering uniform lighting conditions for concentrated work and learning.

The integrated bistable relay (potential-free, NO) offers a total of 7 different operating modes: Cut-off, HVAC, Zone C, CdS, Alarm pulse, Pulse function, Off.

**4 in 1**

Contained in a single case are: a highly-sensitive occupancy detector, a DALI controller which can group DALI electronic ballasts, a DALI power supply and a push button control for up to 3 lighting zones.

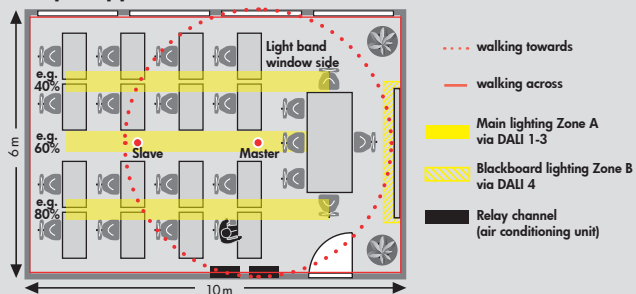
Up to 64 electronic ballasts can be connected. An integrated relay offers yet more options for individual setup according to local requirements.

**Low investment costs**

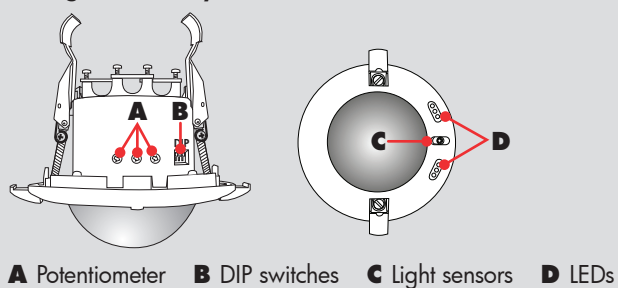
The wide detection area and the ability to adjust the light sensor to almost any part of the room mean that normally only one detector per room has to be installed. However, if it proves necessary to extend the detection area, up to 4 inexpensive Slave devices can be connected.

The detector is available for surface mounting and for being installed in false ceilings.

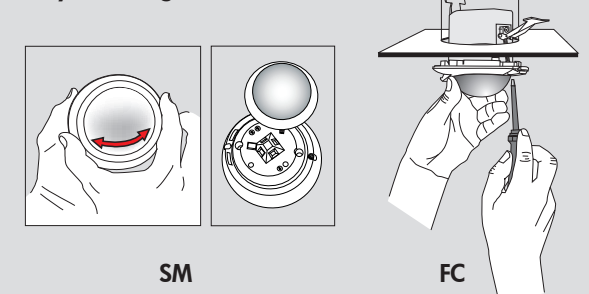
**Sample application with HVAC control**



**Setting devices easy accessible**



**Easy mounting**

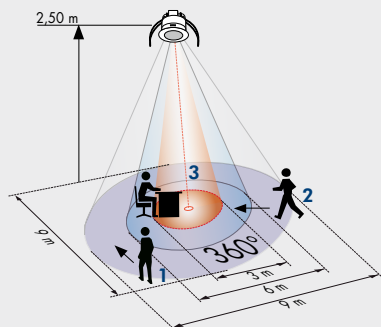


## Technical data

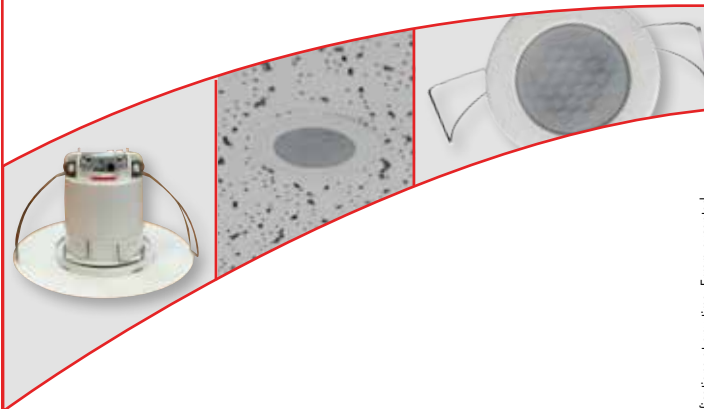
	110 - 240V AC; 50/60 Hz
	360°
	Ø 9 m across Ø 6 m towards Ø 3 m seated
	IP20 / Class II / CE
	FC Ø 52 x H 60 mm
	-25°C to +50°C
	Housing UV- and shock resistant polycarbonate
	IR-PD-1C (necessary)
<b>Channel 1 (control the lighting)</b>	
	2300 W, cosφ=1; 1150 VA, cosφ=0,5
	5 min. - 30 min. with remote control
	10 - 2000 Lux
<b>Factory settings</b>	
	10 min.
	500 Lux

## Detection area\*

- 1 Walking across
- 2 Walking towards
- 3 Seated



\*Extension of detection area possible with slave devices



## Product

Article	Colour	Part-no.
PD11-M-1C-FLAT-FC	white	92583
PD11-S-FLAT-FC	white	92593
PD11-KNX-FLAT-FC	white	92893

## Accessory

Article	Colour	Part-no.
Cover ring	black	92537
Design ring Ø 100 mm	white	92692
IR-BIRC Adapter for B.E.G. Remote control app	brown	92827
IR-PD-1C	grey	92520
IR-PD-KNX	grey	92123

Remote control app downloadable free of charge:



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[www.beg-luxomat.com](http://www.beg-luxomat.com)

## The super-flat one

Designer occupancy detector with a surface height of only 0.85 mm



**PD11**

LFL XXXX - 160415-1/ B.E.G. operates a policy of continuous product improvement and development. As seen we reserve the right to change the product specifications at any time. Errors excepted.



**Super-flat lighting control**

The PD11 flat occupancy detector impresses with its low-profile design. With an extremely low surface height of only 0.85 mm in ceilings, it is practically invisible, making it perfectly suited to properties with high architectural standards.

As well as a master-slave version with a high contact load of 2300W, this discreet occupancy detector is also available in a KNX variant.

**Individual application**

This occupancy detector is the first choice for demanding applications: thanks to its careful design, the unit can be installed securely and requires little space.

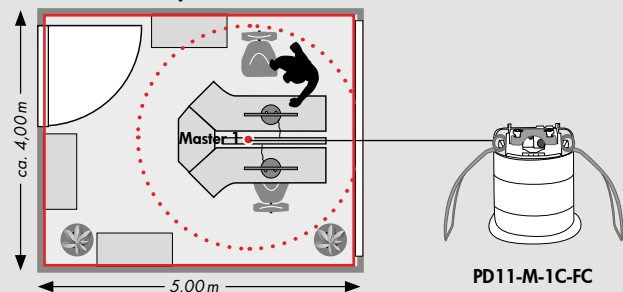
The occupancy detector can be integrated directly into light fittings with the clip-on ring included in the pack. Alternatively, the supplied spring clips make it easy and quick to install it in suspended ceilings.

**Easy programming**

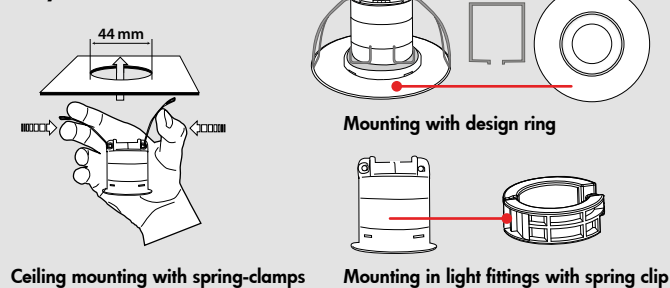
The occupancy detector is preprogrammed with standard values, and can therefore be put into service straight away. Many functions can be customised with the compatible IR-PD-1C remote control, or with the smartphone app (with adapter).

The detection area for the PD11 can be restricted manually with blinds. These are included in the pack.

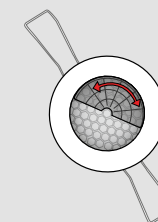
**Installationsbeispiel Einzelbüro**



**Easy installation**



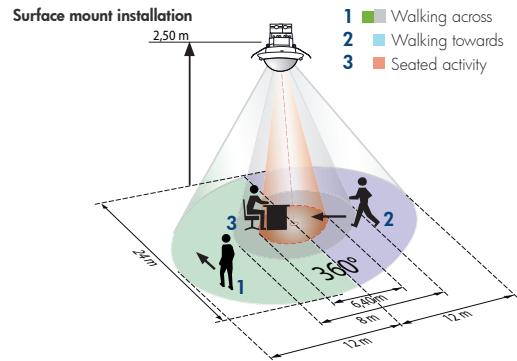
**Blocking out sources of interference**



- With suitable blinds (included in the pack), sources of interference can be filtered out as appropriate, or the detection area can be restricted.



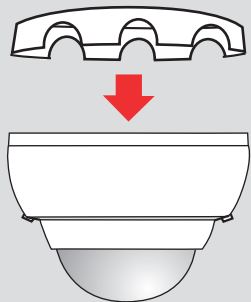
Range TRIO detector



Description

Type	Colour	Part number
PD4-M-3C-TRIO-SM	white	92740
PD4-M-3C-TRIO-FC	white	92745
PD4-M-TRIO-DIM-SM	white	92730
PD4-M-TRIO-DIM-FC	white	92735
PD4-M-TRIO-DALI/DSI-SM	white	92750
PD4-M-TRIO-DALI/DSI-FC	white	92755
Remote control IR-PD4-TRIO SWI	grey	92102
Remote control IR-PD4-TRIO	grey	92097
Remote control IR-PD4-TRIO-DALI	grey	92104
Wire basket BSK	white	92199
SM-Socket	white	92386

SM-Socket for PD4-M-TRIO-DIM-SM



- With six lateral as well as rearward cable entries
- Extra large wiring compartment

B.E.G. TRIO detector – overview

<p>PD4-M-3C-TRIO-SM/-FC</p>	<p>Remote controllable occupancy detector for inside use with two directional light meters for two lighting zones, e.g. for a window zone and interior zone, as well as independent board light control; large detection range up to 24m Ø; as surface resp. false ceiling mount version.</p>
<p>PD4-M-TRIO-DIM-SM/-FC</p>	<p>Remote controllable occupancy detector for inside use with two directional light meters for 2 lighting zones, e.g. for a window zone and interior zone, plus independent lighting control. 100h function to automatically suppress the dim function for 100 hours when starting up fluorescent lamps.</p>
<p>PD4-M-TRIO-DALI/DSI-SM/-FC</p>	<p>Remote controllable group occupancy detector for surface and false ceiling mounting with 3 DALI/DSI interfaces and with circular detection area. Control of up to 25 digital dimming electronic ballasts and control modules as a group per DALI/DSI output 1 and 2, and up to 10 for DALI/DSI output 3.</p>

LUXOMAT® TRIO detector

- Particularly for use in class rooms, seminars and training rooms
- Classroom lighting with two lighting circuits dimmed, at DALI/DSI and DIM or switched, at TRIO-3C
- One additional switch channel for the board lighting
- Great detection area with 24m coverage



**The new TRIO detector from B.E.G. – the classroom specialist**



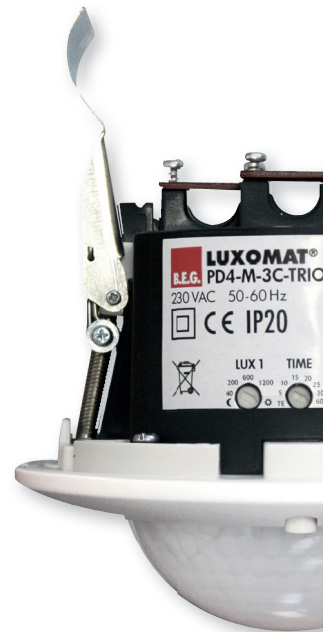
Energy savings  
cost reduction  
environmental protection



**B.E.G. LUXOMAT® PD4-M-TRIO-DIM-SM** – for two lighting zones with separately connectible board light

**LUXOMAT® B.E.G. TRIO detector - for two separately lighting areas and additional board lighting**

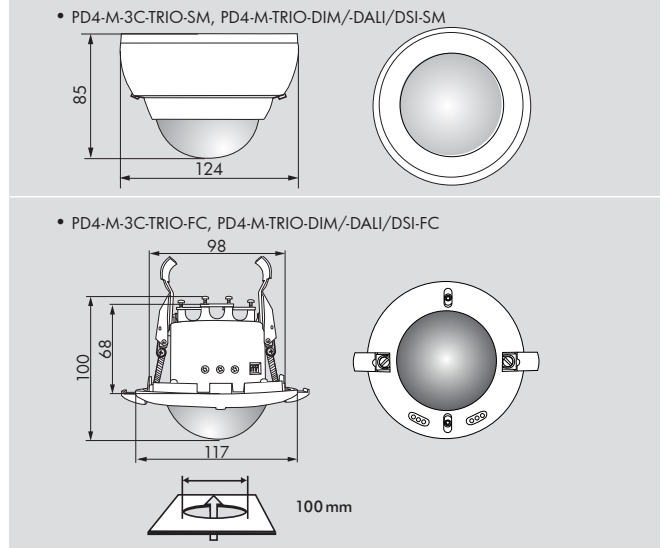
- Remote controllable occupancy detector for inside use with two directional light meters for two lighting zones, e.g. for a window zone and interior zone plus independent lighting control and with circular detection area
- Optional: switch, DIM and DALI/DSI version
- Additional switch channel for board lighting
- 100h function to automatically suppress the dim function for 100 hours when starting up fluorescent lamps (DIM and DALI/DSI version)
- SLAVE-devices for cheap enlargement of detection area available
- Surface mount (SM) and false ceiling (FC) version available
- Full and semi automatic mode can be chosen with remote control
- Large detection area up to 24 m Ø
- New solid clamping device for perfect fitting of the detector in false ceilings
- Swivelling light sensor for greater accuracy
- **Application examples:** particularly suitable for use in class and training rooms with board lighting that can be operated separately



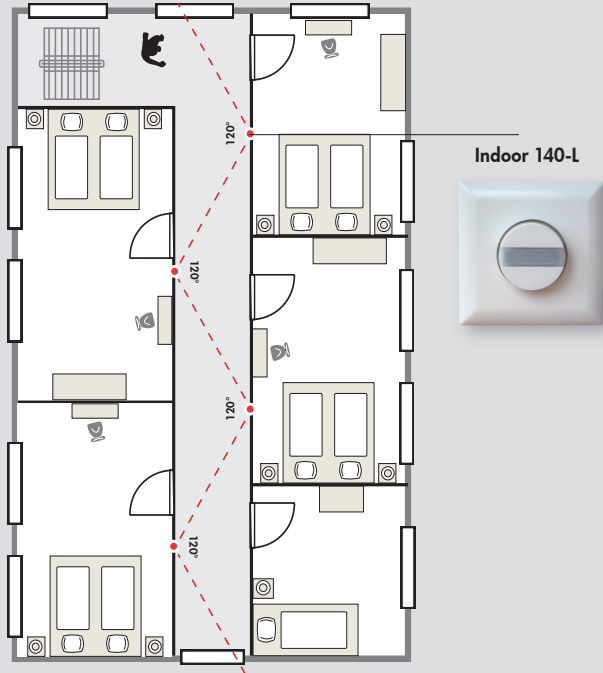
**Technical data PD4-TRIO**

Adjustments via potentiometer, DIP switches and remote control	
<b>Power supply</b>	230 V~ ±10%
<b>Range (Ø) in m</b>	seated 6.40, walking across 24.00, walking towards 8.00
<b>Power consumption</b>	< 0.5 W
<b>Mounting</b>	Surface mount or false ceiling
<b>Protection</b>	SM and FC IP20, SM with fitted SM-Socket also IP44 / class II / <b>CE</b>
<b>Housing</b>	UV- and shock-resistant Polycarbonate
<b>Ambient temperature</b>	-25°C to +50°C
• PD4-M-3C-TRIO-SM/-FC <b>Channel 1 to 3 (light control)</b> <b>Time settings</b>	
<b>Lux values – Potentiometer</b>	max. 3000 W, cosφ= 1 5 - 90 min. / Test with remote control 1 - 60 min. / Test with potentiometer 10 - 2000 Lux
• PD4-M-TRIO-DIM-SM/-FC <b>Channel 1 to 2 (light control) and channel 3 (board lighting)</b> <b>2 dim outputs</b> <b>Max. no. of series-connected electronic ballasts per channel (1 and 2)</b> <b>Time settings</b> <b>Lux values – Potentiometer</b>	
	max. 3000 W, cosφ= 1 1-10V (Channel 1 and 2) max. 50 1 - 60 min. / Test 10 - 2000 Lux
• PD4-M-TRIO-DALI/-DSI-SM/-FC <b>Channel 1, 2 and dim function sowie Channel 3</b> <b>Time settings</b> <b>Lux values – Potentiometer</b> <b>Max. no. of series-connected electronic ballasts</b>	
	DALI/DSI-Master, channel 1 and 2 max. 25 electronic ballasts 1 - 60 min. / Test 10 - 2000 Lux each 25 for Channel 1 and 2, 10 for channel 3

**Dimensions TRIO detector**

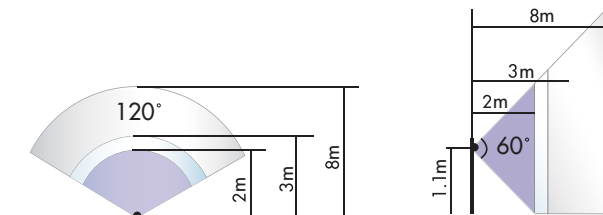


**Installation example: hotel corridor**



Equally spaced apart on both sides of the corridor, the detection range of the Indoor 140-L will reliably cover the whole length of the corridor. Thanks to the innovative push button function there is no need to install additional push buttons.

**Other application possibilities:** offices, children's bedrooms, hallways



- Walking across
- Walking towards
- Seated



**Product**

Article	Part-no.
Indoor 140-L-UK	94327

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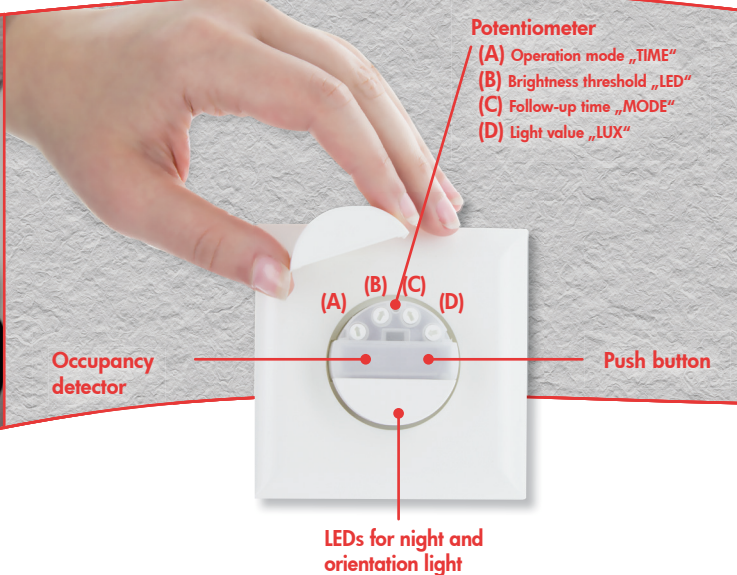
[www.beg-luxomat.com](http://www.beg-luxomat.com)

**The all-rounder**

Night light, orientation light  
and push button in one device



**Indoor 140-L-UK**



### Constant LED light

The wall occupancy detector has two integrated powerful LEDs directed to the floor. Two different brightness values can be set: as night light or as an orientation light.

The Indoor 140-L also has an integrated brightness sensor enabling an automatic activation of the night light. This insures constant illumination, for example of a corridor in a hotel.

### Automatic light

The powerful occupancy detector reliably detects movements in its detection range and activates the orientation light or the main light accordingly. So people passing by can safely find their way.

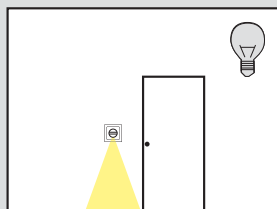
The detection area of the innovative occupancy detector can be enlarged using further Indoor 140-L.

### Manually switching the light

The round part of the occupancy detector is also a push button for switching the main light manually. This function enables people to activate and deactivate the illumination at their own will.

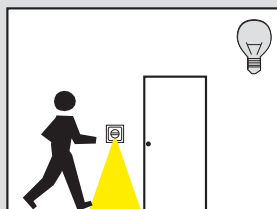
Thanks to the night light, the Indoor 140-L can be found easily in the dark. An installation of further push buttons is not necessary.

#### Night light



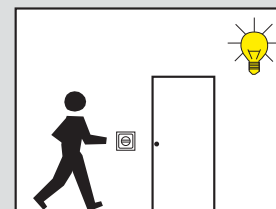
- For a smooth illumination in the dark, for example as a constant light in a hotel corridor.
- Integrated brightness sensor for automatic activation of the night light

#### Orientation light



- A second brightness value can be set for the LEDs offering a brighter light (compared to night light)
- The occupancy detector activates the orientation light upon detected movement

#### Main light



- Activating the main light either by means of the occupancy detector or via push button
- Deactivation of the main light by pressing the push button again or automatic deactivation after elapse of the follow-up time

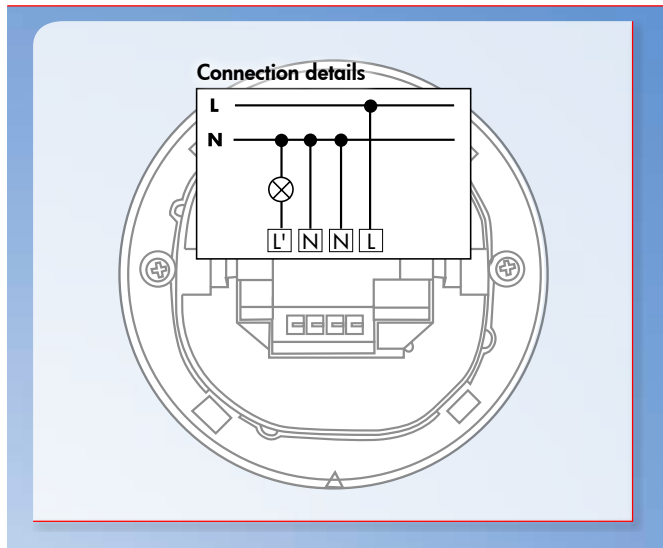
### Technical data

Power supply	230 V~ ±10%; 50-60 Hz
Switching power	2000 W, 8,7A, cos(φ)=1; 1000 W, cos(φ)=0,5
Switch-on delay	0,5 - 64 sec.
Switch-off delay	5 sec. - 30 min.
Photo electric switch	approx. 10 - 2000 Lux
Mounting	Flush ceiling installation
Protection	IP20
Class	II / CE
Dimensions	Ø 80 x H 74mm
Housing UV- and shock-resistant Polycarbonate	
Ambient temperature	-25°C to +50°C

### Description

Type	Colour	Part number
CdS-FC	white	92249
CdS-SM	white	92369
CdS-T-SM	white	92367
CdS-R	white	92365
TS-DD	light grey	92681
IR-CDS-FC (remote control for CdS-FC)	grey	92396
IR-CdS-T (remote control for CdS-T-SM)	grey	92368

### Connection CdS-FC



### B.E.G. photo electric switches program

CdS-SM		Manually programmable photo electric switch for automatic light switching with new photo resistance, automatic function and self-learning turn-off value.
CdS-FC		Remote-controllable and extra-flat photo electric switch for installation in false ceiling; programmable turn-off retardation with self-learning turn-off value and twilight-value.
CdS-T-SM		Remote-controllable photo electric switch with automatic read-in function of current light value, integrated time switch and programmable energy-saving period.
CdS-R		Photo electric switch for installation in lamps outside or in junctions boxes at a later date.
TS-DD		Photo electric switch for DIN-rail; has an electronic part for installation in distributor for setting conveniently switch cabinet as well as a separate light sensor for surface mount or mounting in false ceiling.



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**The extra flat  
photo electric switch  
for the false ceiling -  
save energy and  
money automatically**



**Energy savings  
cost reduction  
environmental protection**



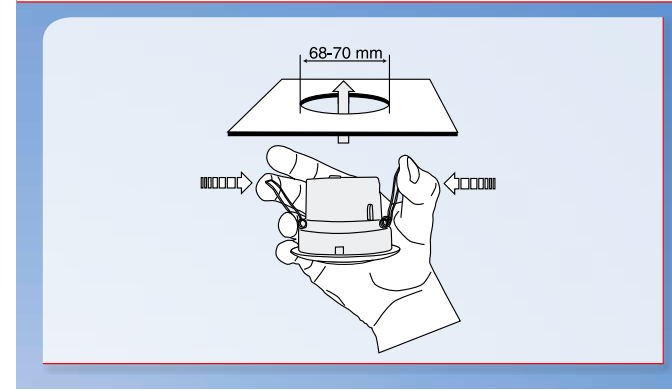
The new B.E.G. photo electric switch **LUXOMAT®** Cds-FC – extra flat ceiling form

### **LUXOMAT®** Photo electric switch Cds-FC – to switch lights automatically

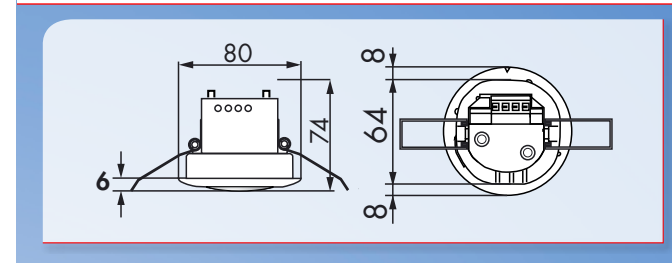
- Small visible part when built into ceiling – only 6 mm high
- Especially developed for false ceiling installation
- Programmable turn-off delay with self-learning turn-off light value and twilight value with potentiometer from the outside of the detector
- Remote controllable with **LUXOMAT®** IR-CDS-FC
- **Application examples:** Ideal for entrance areas, staircases, corridors where permanent lighting is desired



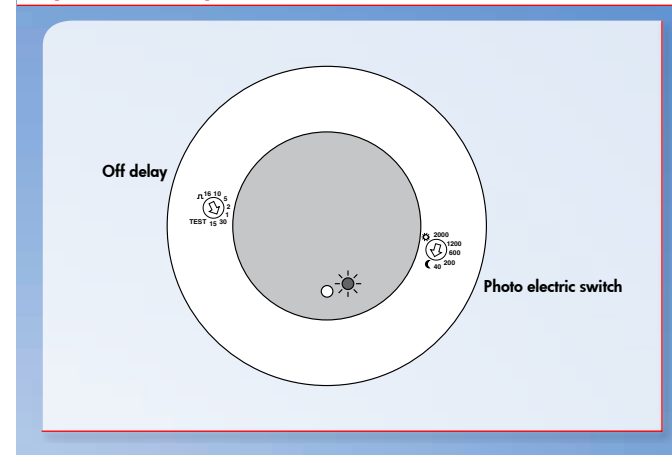
### **Simple flush ceiling**

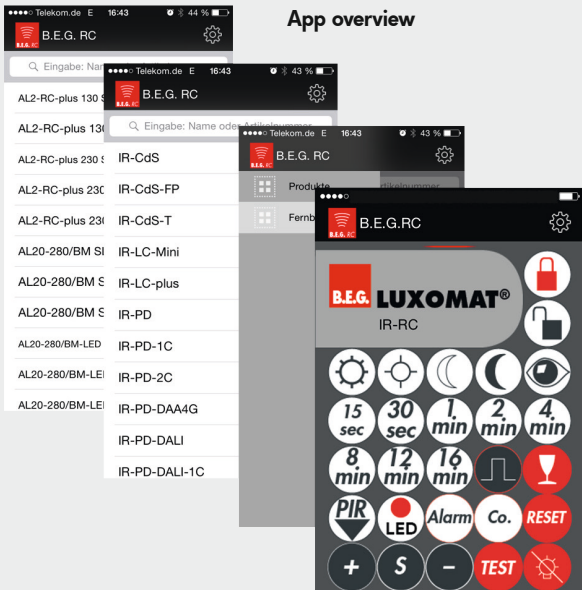


### **Dimensions of Cds-FC**



### **Adjustments via potentiometer outside**





COMPATIBLE WITH ALL  
REMOTE CONTROLLABLE  
B.E.G. DETECTORS



### Product

Article	Colour	Part-No.
IR-RC Adapter for B.E.G. Remote control app	black	92726

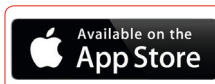
### System requirements:

Smartphone has to be compatible. An Internet connection is required for downloading the App B.E.G. LUXOMAT® REMOTE CONTROL from the respective Store:

- From version Android® 2.3
- From version iOS 7.0

Compatible with iPhone®, iPad® and iPod® touch.  
The App is optimised for iPhone 5.

Remote control app  
downloadable free  
of charge:



### B.E.G. (UK) Ltd.

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NEW



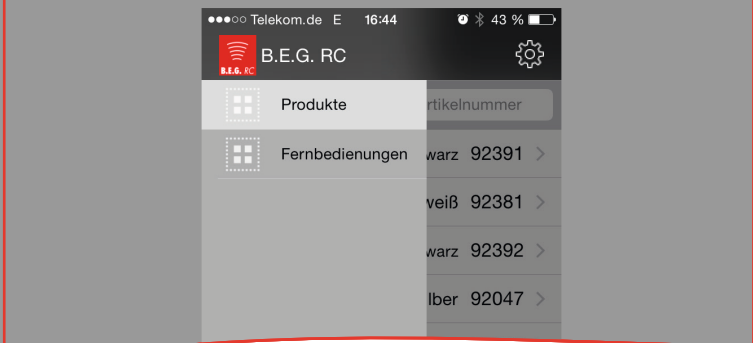
[www.beg-luxomat.com](http://www.beg-luxomat.com)

## Infrared adapter (+ App B.E.G. LUXOMAT® Remote control)

Your Smartphone will function  
as a general remote control for  
B.E.G. detectors



IR-RC-Adapter



**Installation**

- Step 1:** Download the App "B.E.G. RC" from the respective Store and install it on your Smartphone
- Step 2:** Charge the battery of the adapter via micro USB cable
- Step 3:** Plug the Adapter IR-RC in the phone connector and adjust the loudness level to max
- Step 4:** Open the app

**Search by „Products“**

It is possible to find the corresponding remote control by product name or the product's part number.

For example by searching for: **PD3N-1C-SM** or **92190**

The following results are then listed:

- Standard remote control: **IR-PD3N**
- Mini remote control: **IR-PD-Mini**

**Search by "Remote control"**

If you know the remote control's name or part number, you can also search using this information

For example: **IR-PD-1C** or **92520**



- REPLACES **MORE THAN 40 REMOTE CONTROLS**
- COMPATIBLE WITH ALL REMOTE CONTROLLABLE **B.E.G.** DETECTORS
- EASY TO USE
- ECONOMIC
- QUICK
- ENVIRONMENTALLY FRIENDLY** (BATTERY RECHARGEABLE VIA USB)



Code: 92726

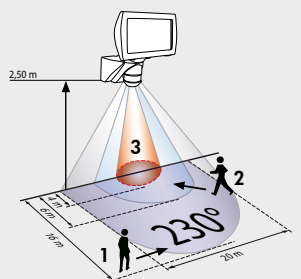


## Technical data

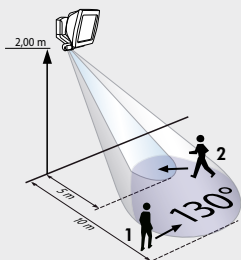
	FL2N-LED-230	FL3N-LED-130
	110 - 240V AC; 50/60Hz	110 - 240V AC; 50/60Hz
	IP44 / I / CE	IP44 / I / CE
	L 220 x W 190 x H 250 mm	L 136 x W 125 x H 218 mm
	-20°C to +40°C	-20°C to +40°C
	Floodlight housing die-cast aluminium, motion detector housing of UV- and shock resistant polycarbonate	Floodlight housing die-cast aluminium, motion detector housing of UV- and shock resistant polycarbonate
	IR-RC, IR-RC-Mini	-
	Energy efficiency class A	Energy efficiency class A
<b>Lamps</b>		
	60 high-power LEDs 2100 lm (neutral-white)	30 high-power LEDs 1050 lm (neutral-white)
	LEDs permanently mounted	LEDs permanently mounted
	<b>Total power consumption 26 W</b>	<b>Total power consumption 14 W</b>
<b>Channel 1 (control the lighting motion detector)</b>		
	2300 W, cosφ=1; 1150 VA, cosφ=0,5	1000 W, cosφ=1; 500 VA, cosφ=0,5
	15 sec. - 16 min. or pulse	30 sec. - 30 min.
	2 - 2000 Lux	2 - 2000 Lux

## Detection area

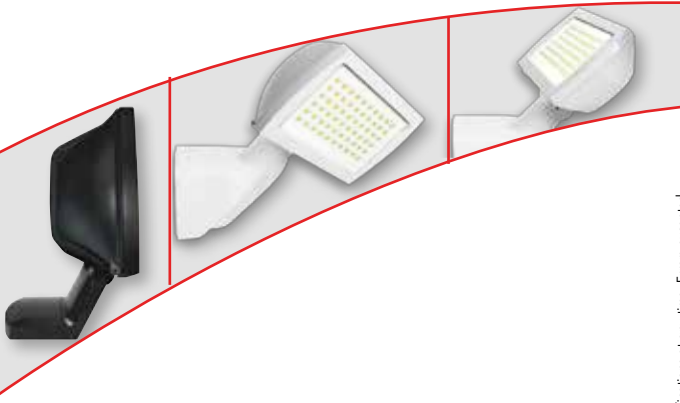
- 1 Walking across
- 2 Walking towards
- 3 Anti-creep protection



FL2N-LED-230



FL3N-LED-130



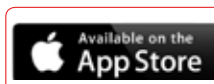
## Product

Article	Colour	Part-no.
<b>without motion detector</b>		
FL2N-LED	black / white	92598 / 92599
FL3N-LED	black / white	92702 / 92703
<b>with motion detector</b>		
FL2N-LED-230	black / white	92626 / 92627
FL3N-LED-130	black / white	92628 / 92629

## Accessory

Article	Colour	Part-no.
IR-BIRC Adapter for B.E.G. Remote control app	black	92827
Diffusion lens FL2N-LED	clear/opal	38003
Diffusion lens FL3N-LED	clear/opal	38004
IR-RC	grey	92000
IR-RC-Mini	grey	92090

Remote control app downloadable free of charge:



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[www.beg-luxomat.com](http://www.beg-luxomat.com)



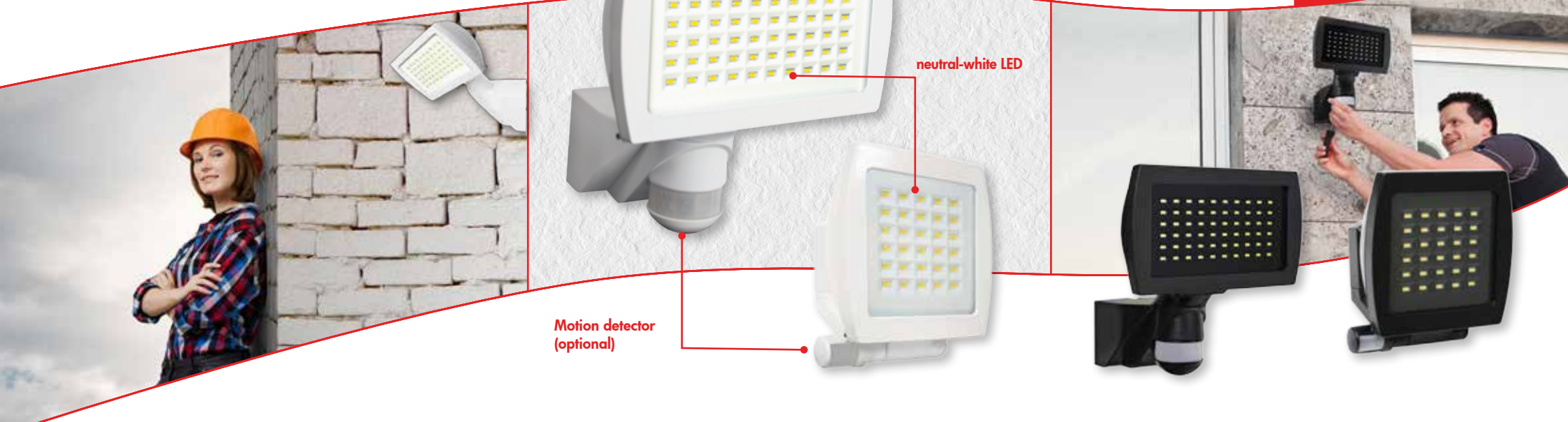
honoré as:  
**BEST PRODUCT OF THE YEAR 2014**

## The powerhouses

Bright exterior illumination with low energy consumption



**FL2N and FL3N range**



**Bright floodlight – low energy consumption**

The FL2N-LED (FL3N-LED) exterior floodlight is equipped with 60 (30) powerful LEDs with power consumption of 26 (14) watts.

Technology developed especially for these floodlights guarantees optimum illumination of the area covered. Instead of the usual point illumination, the B.E.G. LED floodlights produce an even cone of light.

**Setup options: manual and with smartphone**

Both floodlights are available with or without motion detectors. The motion detector on the FL2N-LED-230 can be adjusted as required via the potentiometers, or with a suitable remote control or the smartphone app (with adapter).

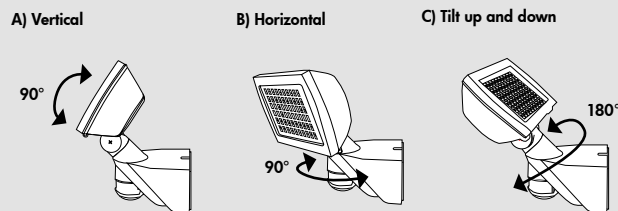
The detector's movable head can be positioned in practically any direction. The motion detector on the FL3N-LED-130 can be moved on one axis and adjusted as required.

**Fast installation**

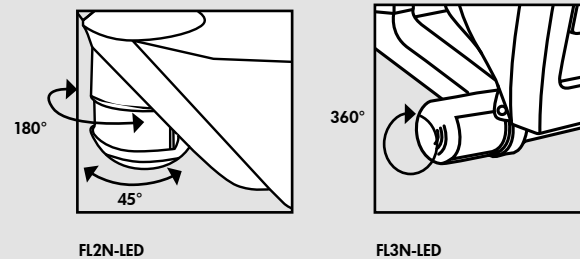
Installing the floodlight is as simple as possible: once the wall socket has been fastened and wired up, the floodlight head can be clipped on by hand, and locked in position with a screwdriver.

Even the renowned Plus X Awards jury was won over by the quality, functionality, user convenience and eco credentials of the FL2N-LED-230: it won Product of the Year 2014 in this category!

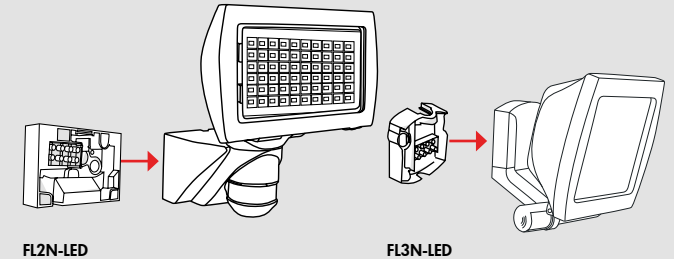
**FL2N-LED can be rotated in three axes**



**Simple alignment of motion detector**

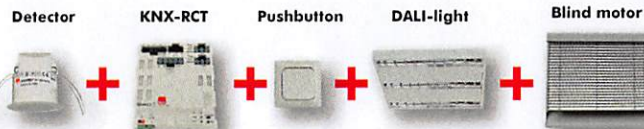


**Easy installation with plug-in socket**



**B.E.G. KNX**

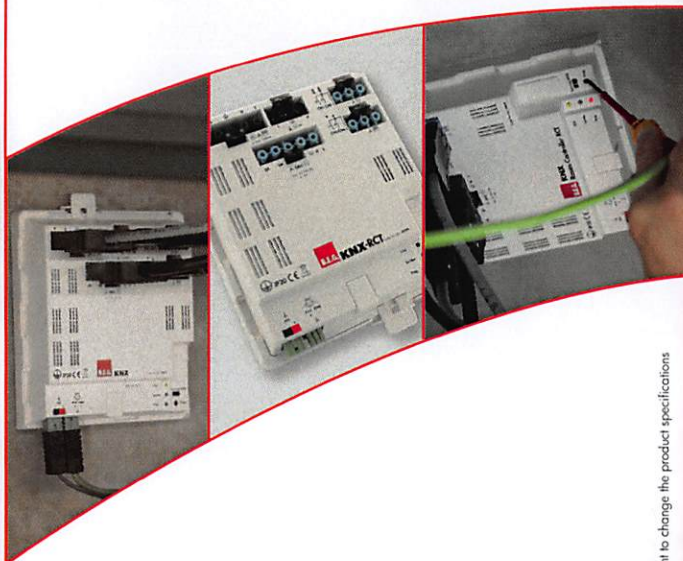
*The new KNX Room Controller – offers three ways to save costs:*



- Costs for Installing: Fast and easy and precise mounting by means of plug connections, no tools are required; up to 90% less wiring work!
- Costs for material: DALI lamps and conventional pushbuttons can be connected directly to the KNX Room Controller. **No** additional KNX/DALI gateway and pushbutton interface is needed.
- Costs for installation: The connected devices can be activated immediately without ETS programming by means of the installation mode.

As simple as that, a reduction of the total costs of up to 30% becomes possible!

Up to  
30% cost  
saving



**Product**

KNX-RCT	white	92979
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**Technical data**

	230 V AC; 24 V KNX
	IP44 / II / CE
	L 180.5 x W 162 x H 45 mm
	-30°C to +50°C
	Housing UV-resistant polycarbonate
	3600 W, cosφ=1; 1800 VA, cosφ=0.5
	max. 45 DALI-EB

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**B.E.G. KNX**

Up to  
30% cost  
saving

*For building automation*

[www.beg-luxomat.com](http://www.beg-luxomat.com)

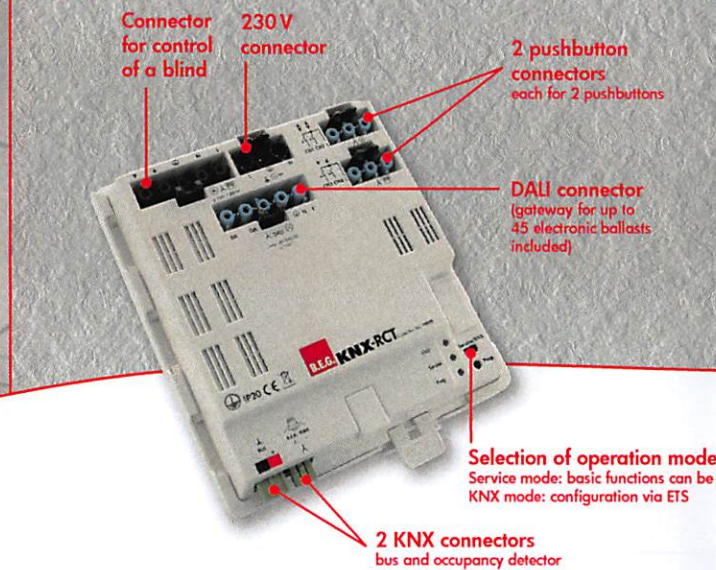


**B.E.G. Room Controller  
KNX-RCT**  
with integrated DALI-KNX-Gateway



**KNX-RCT**

IFI 8712 - 1510162 / B.E.G. operates a policy of continuous product improvement and development. As seen we reserve the right to change the product specifications at any time. Errors excepted.



**Error-free installation of KNX-DALI components**

With the B.E.G. KNX Room Controller RCT, the components in a room can be directly linked within the false ceiling, which is then the only place to which wiring needs to be installed.

The most commonly-used office components can be connected to the Room Controller: KNX occupancy detector, pushbuttons, (DALI) lighting and blind.

**KNX and DALI**

One of the two KNX connectors is used to link the KNX-RCT to the KNX system, and the other is linked to a B.E.G. KNX occupancy detector.

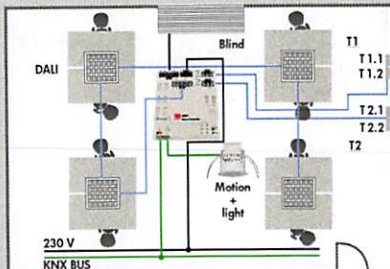
A KNX/DALI Gateway is already integrated into the Room Controller. Up to 45 DALI electronic ballasts can be connected to the DALI bus. Control can be set up via ETS. Basic functions for control of the connected devices are immediately available in service mode.

**Fast and economic installation**

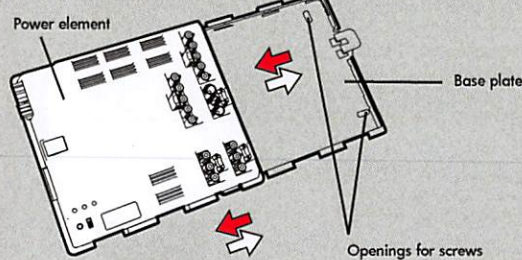
Also integrated into the Room Controller are two pushbutton interfaces, each of which can have two pushbuttons (e.g. blinds and light) directly connected.

Up to 30% of installation costs can be saved using the B.E.G. KNX-RCT, because of the quicker wiring process and the components already integrated into the Room Controller.

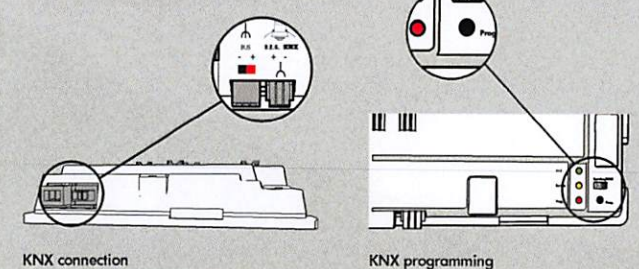
**Installation example: Open plan office**



**Easy mounting**



**Immediate KNX operation**



*Our time switches-program*

B.E.G. Time switches for DIN-rail mounting	DIGITAL								ANALOG						
Daily time switches	-	-	-	-	-	-	-	-	•	•	•	•	-	-	
Weekly time switches	•	•	•	•	•	•	-	-	-	-	-	-	•	•	
Astro time switches	-	-	-	•	•	•	-	-	-	-	-	-	-	-	
Yearly time switches	-	-	-	-	-	-	•	•	-	-	-	-	-	-	
Part number	92656	92658	92659	92669	92671	92673	92674	92675	92676	92677	92678	92680	92679	92657	
Type	TS-DW1	TS-DW2	TS-DW3	TS-ASTRO1	TS-ASTRO2	TS-ASTRO3	TS-DY1	TS-DY2	TS-AD1	TS-AD2	TS-AD3	TS-AD4	TS-AW1	TS-AW2	
Memory location	30	46	46	30	100	100	300	300	24	24	24	24	168	168	
Channel	1	1	2	1	1	2	1	4	1	1	1	1	1	1	
Data key	-	•	•	-	•	•	•	•	-	-	-	-	-	-	
Pulse	•	•	•	-	•	•	•	•	-	-	-	-	-	-	
Cycle	-	-	-	-	-	-	•	•	-	-	-	-	-	-	
Funk DCF 77	-	-	-	-	-	-	•	•	-	-	-	-	-	-	
Power back-up	4 years	6 years	6 years	4 years	6 years	6 years	6 years	6 years	70 h	70 h	70 h	70 h	70 h	70 h	
Supply voltage 230 V	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Potential-free relais contact	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Contact material	AgNi	AgCdO	AgCdO	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>	AgCdO	AgCdO	AgCdO	AgCdO	AgCdO	AgCdO	
Switching capacity	16 A	16 A	16 A	16 A	16 A	16 A	16 A	10 A	16 A	16 A	16 A	16 A	16 A	16 A	
Ambient temperature	-10°C to +50°C	-10°C to +55°C	-10°C to +55°C	-10°C to +50°C	-10°C to +55°C	-10°C to +55°C	-10°C to +50°C	-10°C to +55°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	
Quantum TU	1	2	2	1	2	2	2	4	1	1	3	3	3	3	
Type of protection	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	



**LUXOMAT®** Time switches

**Energy savings with the new time switches from B.E.G.**



For further information please order the main time switch catalogue!



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- Illuminated display
- Symbol and text based
- Keypad fast to operate
- Data transmission
- With protective cover

**LUXOMAT®-TS digital time switches from B.E.G.**

- Fast and comfortable programming thanks to text controlled LCD-Menu and easy control panels for direct use.
- Flexible creation of new switching times with gradually and targeted menu driving for individual query, change and deleting.
- Copy other week-days with equal switching times by means of copy function for a quick adaptation of daily and weekly programs.

**Example: energy savings yearly time switch**

Power density	Configuration	ON-Switching of the light	Consumption
max. power density 10W/m <sup>2</sup>	Typical open-plan office 300m <sup>2</sup>	11 hours, 260 days, 1 weekends, 1 nights in a month	11244kWh /year
max. power density 10W/m <sup>2</sup>	Typical open-plan office 300m <sup>2</sup>	11 hours 260 days	8580kWh /year
			<b>2664kWh /year</b>
			<b>25% savings</b>

- Simple installation of a date based holiday program as well as an automatic change-over of summer and winter periods according to GMT.
- Possibility to enter a PIN-Code for an optimal protection against unauthorized operation and program changing.
- Accurate control of pulse times as well as fast installation of periodical switching times with a cycle function.

**Programming with the PC**



**Time controlled energy savings - a simple concept**

- Energy-saving
- Cost efficient
- Control time
- Fast & direct
- Structured time measurement
- Optimized time management
- Switching always on time
- Future-proof



Saving when using a motion detector

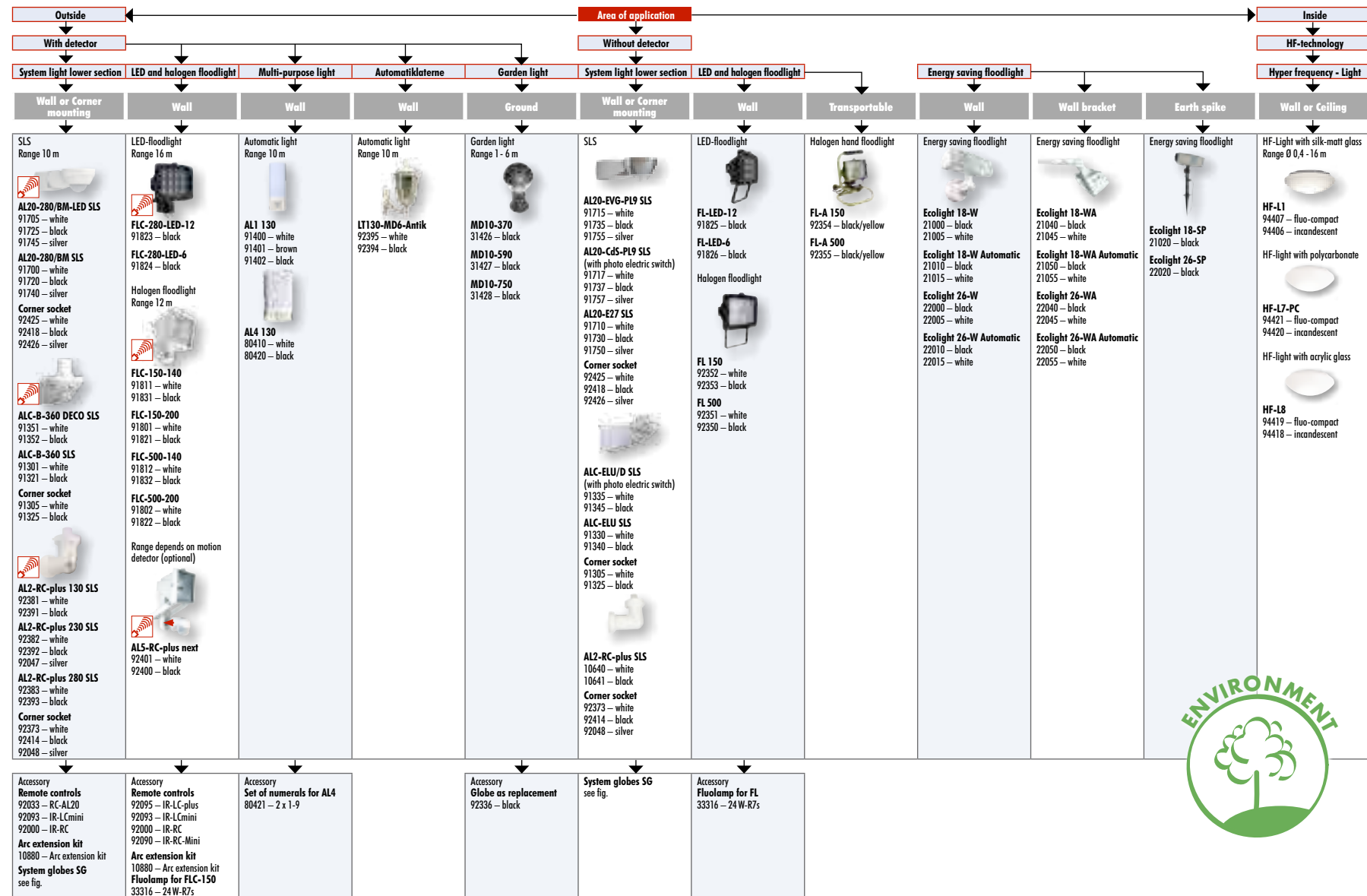
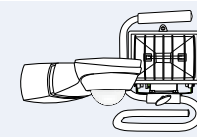
Energy and environmental balance AL1, AL4, MD6, AL20, ALC-B, AL-2						
Mode / bulb	Bulb 60W		Bulb 100W		Savings with motion detector	
	without MD	with MD	without MD	with MD	60W with MD	100W with MD
Consumption in kWh / year	175 kWh	22 kWh	292 kWh	37 kWh	153 kWh	256 kWh
CO <sub>2</sub> emission reductions / year					77 kg*	128 kg*
Also available trees for CO <sub>2</sub> reduction					x 3**	x 6**
Costs per year at 0.15 € / kWh	26 €	3 €	44 €	5 €	23 €	39 €

Saving when using an energy saving lamp

Energy and environmental balance energy saving lamp - incandescent lamp 60W				
Mode / bulb	Energy saving lamp 9W	Bulb 60W	Savings	ENVIRONMENT
Consumption in kWh / year	26 kWh	175 kWh	149 kWh	
CO <sub>2</sub> emission reductions / year			74 kg*	
Also available trees for CO <sub>2</sub> reduction				x 4**
Costs per year at 0.15 € / kWh	4 €	26 €	22 €	

Energy and environmental balance Ecolight 18				
Mode / bulb	Energy saving lamp 18W	Bulb 100W	Savings	ENVIRONMENT
Consumption in kWh / year	53 kWh	292 kWh	239 kWh	
CO <sub>2</sub> emission reductions / year			120 kg*	
Also available trees for CO <sub>2</sub> reduction				x 6**
Costs per year at 0.15 € / kWh	8 €	44 €	36 €	

Energy and environmental balance Ecolight 26				
Mode / bulb	Energy saving lamp 26W	Bulb 150W	Savings	ENVIRONMENT
Consumption in kWh / year	76 kWh	438 kWh	362 kWh	
CO <sub>2</sub> emission reductions / year			181 kg*	
Also available trees for CO <sub>2</sub> reduction				x 9**
Costs per year at 0.15 € / kWh	11 €	66 €	55 €	



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System globes SG for system light lower sections



\*does not fit to ALC-B SLS and AL2-RC-plus SLS  
 \*\*does not fit to AL2-RC-plus SLS



ENERGY SAVING WITH ...

**B.E.G. motion and occupancy detectors**  
**B.E.G. automatic and energy saving lights**

With B.E.G. energy saving = cost reduction + environmental protection

Saving when using LEDs rather than a halogen lamp

Mode / bulb	LED 12 - Floodlight with or without motion detector MD					
	LED 12 x 1W		halogen lamp 150W		Savings LED-floodlight / halogen floodlight	
	without MD	with MD	without MD	with MD	without MD	with MD
Consumption in kWh / year	36 kWh	4 kWh	438 kWh	55 kWh	402 kWh	51 kWh
CO <sub>2</sub> emission reductions / year					201 kg*	25 kg*
Also available trees for CO <sub>2</sub> reduction					x 10**	x 1**
Costs per year at 0.15 € / kWh	5 €	1 €	66 €	8 €	61 €	7 €

Saving when using an energy saving lamp and a motion detector

Mode / bulb	HF - Light with or without motion detector MD					
	Energy saving lamp 13W		Bulb 60W		Savings energy saving lamp / bulb	
	without MD	with MD	without MD	with MD	without MD	with MD
Consumption in kWh / year	38 kWh	5 kWh	175 kWh	22 kWh	137 kWh	17 kWh
CO <sub>2</sub> emission reductions / year					69 kg*	8,5 kg*
Also available trees for CO <sub>2</sub> reduction					x 3**	
Costs per year at 0.15 € / kWh	6 €	1 €	26 €	3 €	26 €	2 €

Saving when using a 24W energy saving lamp rather than a halogen lamp

Mode / bulb	FL - Floodlights: energy saving lamp - halogen lamp		
	Fluolamp 24W	Halogen lamp 150W	Savings
Consumption in kWh / year	70 kWh	438 kWh	368 kWh
CO <sub>2</sub> emission reductions / year			184 kg*
Also available trees for CO <sub>2</sub> reduction			x 9**
Costs per year at 0.15 € / kWh	11 €	66 €	55 €

\*0.5kg CO<sub>2</sub> for generating 1kWh with mean energy mix  
 \*\*1 tree absorbs around 20kg CO<sub>2</sub> / year  
 without MD (motion detector) = permanent light (mean time lamps are switched on e.g. 8h in 24h)  
 with MD = light only on with movement (mean total of the time lamps are switched on e.g. 1h in 24h)

