



Feel comfortable in your building

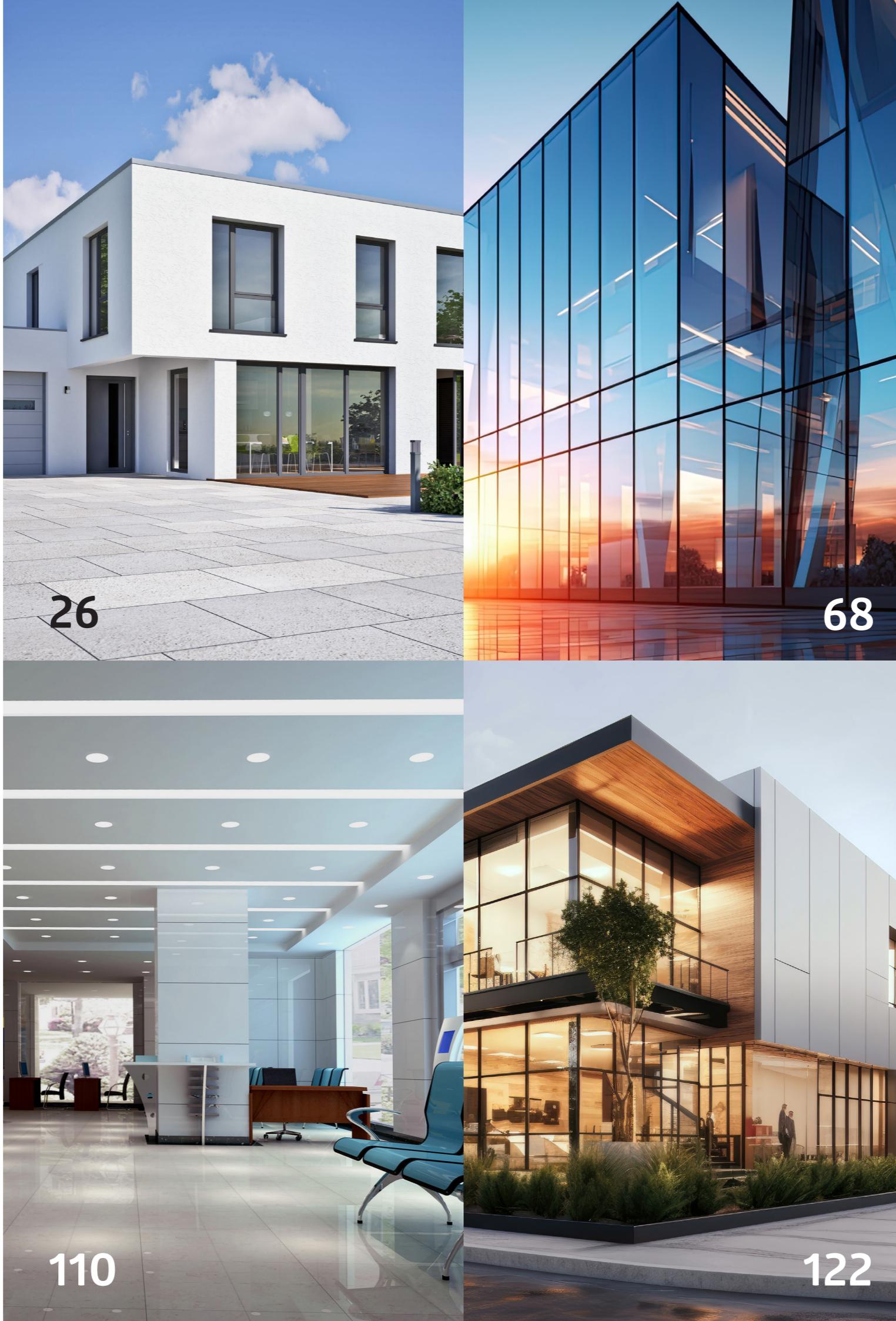
# General catalog 2026



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

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110

122

KNX®

CASAMBI

DALI®  
Alliance

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# HISTORY

**2025**

50th company anniversary - B.E.G. encompasses 16 international branches

**2021**

Commissioning of the AutoStore

**2020**

Expansion of the central warehouse to 8,000 square meters on the occasion of the company anniversary

**2017**

The former administrative headquarters of B.E.G. is being converted into a research and development centre with its own lighting laboratory.

**2014**

Administration and training centre to be built

**2007**

Inauguration of the European sales and logistics centre with attached production and development department.

**2000**

Development of presence detectors with brightness sensors for daylight-dependent lighting control

**1999**

Establishment of a branch office in France

**1986**

Manufacture of motion detectors and automatic lighting.

The LUXOMAT® trademark is registered.

**1975**

Company founded through the development of emergency lighting



## 50 YEARS OF INNOVATIVE SPIRIT AND QUALITY

For 50 years, the internationally active family-owned company B.E.G. Brück Electronic GmbH, headquartered in Lindlar in the Oberberg region, has stood for quality and innovation. Since the beginning, our employees have focused on customer satisfaction.

Since 1975, B.E.G. Brück Electronic GmbH has been synonymous with pioneering technology in the field of intelligent lighting solutions. As a family-owned company headquartered in Lindlar, B.E.G. has grown from a small manufacturer of emergency lighting to become a leading international specialist in motion and presence detection technology.

A decisive milestone was the introduction of motion detectors under the LUXOMAT® brand in 1986—at that time an industry innovation in Germany. Steady international expansion led to the establishment of branches in Europe and later worldwide, as well as continuous expansion of the product portfolio.

Today, 50 years after its founding, B.E.G. employs over 300 people in 16 countries and supplies customers worldwide. The company combines product quality with state-of-the-art technology—from its own research laboratory to highly automated logistics. The focus remains unchanged: innovative solutions and the highest level of customer orientation.



# Energy security & energy independence

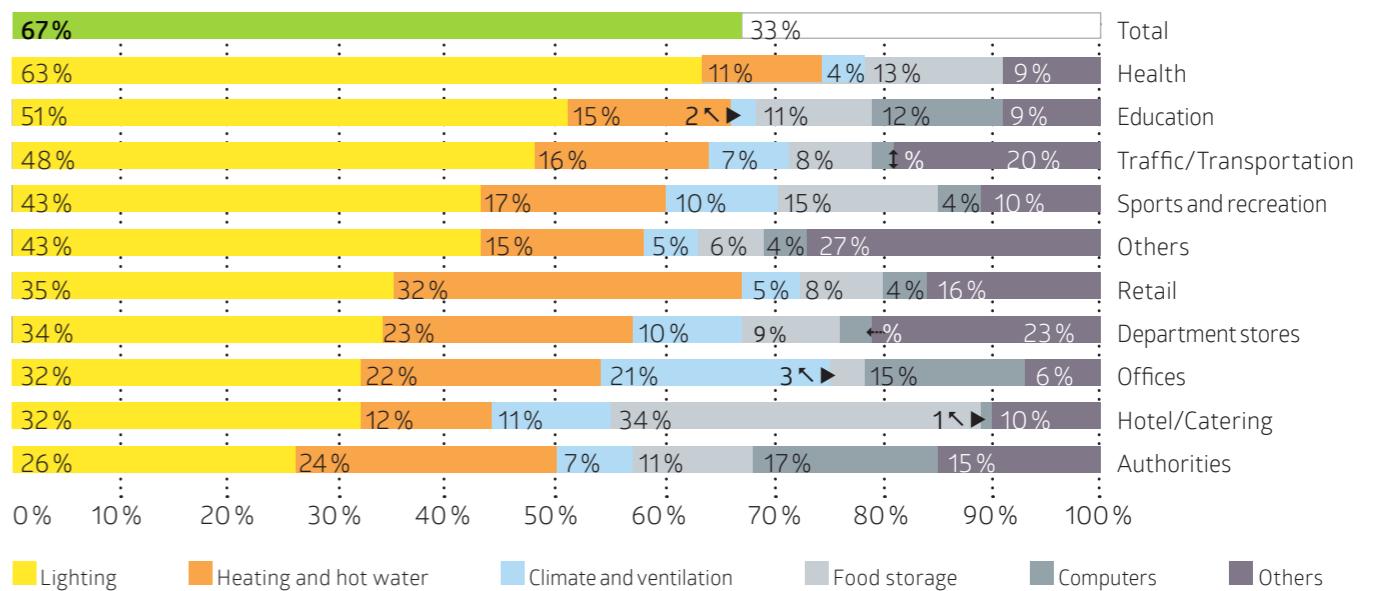


*Species extinction, changing climate zones, and extreme weather events—global warming can no longer be denied. It is high time to take action: for the global community, but also for each individual. With B.E.G., saving energy means reducing costs and protecting the environment at the same time.*

Climate change: Hardly any other topic is discussed more frequently in the media. We can all feel that our climate is changing. Over the last 150 years, the average temperature on Earth has risen by 1 degree—and the trend is upward. The current global warming is largely influenced by humans. One of the main causes of warming is the greenhouse effect. This is caused, for example, by industry and transport, which use fossil fuels such as coal and oil. We are already feeling the consequences

of climate change today, as the list of climate changes is long. Heat waves, droughts, heavy rainfall events – these are all threats brought about by climate change. Global warming is also noticeable in Germany: the number of hot days is increasing, as the record summers of 2018, 2019, and 2022 have shown.

Typical annual energy consumption (approximate values)



## The necessity of saving energy

In recent years, energy conservation has become an increasingly important issue and is now a major concern for individuals and industry alike. A key task is to contribute to the reduction of CO<sub>2</sub> greenhouse gases.

Politicians have recognized that something has to change: at the UN Climate Change Conference in Paris, almost all countries in the world agreed to reduce their greenhouse gas emissions. The global temperature increase should be significantly less than 2 degrees by 2100, preferably 1.5 degrees.

## Energy independence with B.E.G.

What will our energy supply look like in the future? How can we become less dependent and more climate-friendly? These are questions that have never been more relevant to us all than they are today.

The aim is to become less dependent on natural gas imports and to minimize the use of fossil fuels such as natural gas. B.E.G. has brought together a comprehensive range of energy-efficient products in its product range.

Measurements show that in a typical office in Central Europe, daylight provides up to 80% of the light during the summer months, meaning that the proportion of artificial light can be reduced to 20%.

## Environment



### Save energy and costs – Slow down climate change

38% of global climate emissions are caused by the construction and operation of buildings. Against the backdrop of political uncertainty, skyrocketing energy prices, and the tangible effects of climate change, immediate action is required.

The aim in developing our B.E.G. motion and presence detectors is to switch lighting on and off as required and to achieve maximum energy savings, safety, and comfort. Artificial lighting is only used where it is needed, i.e., where building users are present. B.E.G. presence detectors continuously measure the available natural light and only dim as much artificial light as is necessary. This can significantly reduce energy consumption.

Today, two million B.E.G. sensors sold save 815,189,760 kWh annually. This corresponds to 11 kg CO<sub>2</sub> per second. Join us! For a secure future!

### Certifications

In order to meet the requirements for a clean environment, we have developed products that contribute to needs-based and optimal light and heat management. In addition, B.E.G. complies with the latest environmental guidelines and standard requirements of the European Union.

## For an environment worth living in

*Energy is precious, which is why saving energy means protecting the climate and conserving environmental resources so that our habitats are preserved.*

Energy is a sought-after and scarce commodity. Rising prices, the energy transition, and the tangible effects of the climate crisis require us to rethink many areas of our lives. Buildings play a significant role in climate protection. They account for around 38% of our CO<sub>2</sub> emissions. Intelligent solutions are needed: one of these solutions is building automation.

### Saving energy made easy

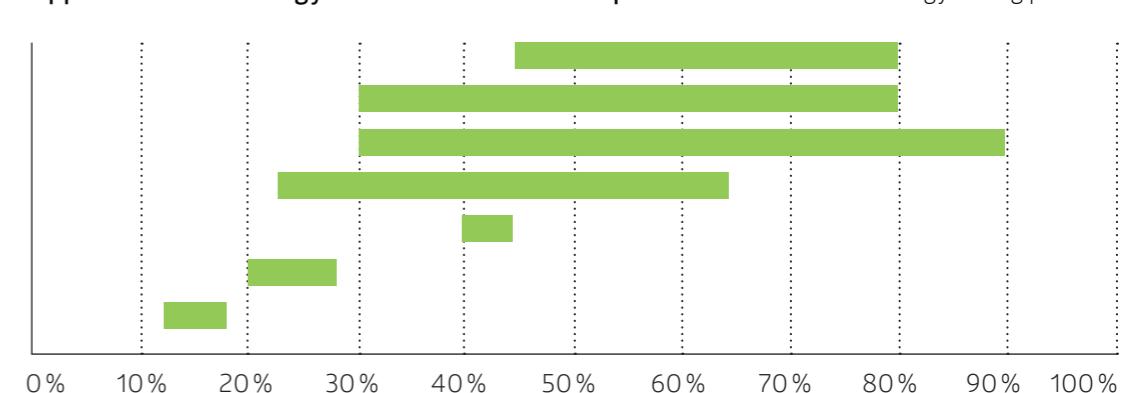
There is significant potential for savings in the field of building automation, both in commercial and private set-

tings. For example, intelligent lighting control can make a major contribution to reducing electricity consumption.

### For the sake of the environment

With B.E.G., saving energy also means reducing costs and protecting the environment. In order to meet the requirements for a clean environment, we have developed products that contribute to optimal light and heat management.

### Opportunities for energy and cost reduction with presence detectors



Lighting is a significant cost factor in energy consumption. In some buildings, it can account for up to 50% of total electricity costs.

## B.E.G. solutions at a glance



# Customized building solutions

The buildings of the future are automated, and there is a great need for energy-efficient, comfortable solutions. B.E.G. sensors and actuators are used worldwide, e.g., in the control of office buildings, industrial companies, production facilities, and logistics centres. You will find them in universities, schools, hotels, banks, shopping malls, parking garages, and many other properties.

### Lighting, transmitted values Luminaires

- Operating hours of the luminaires, overview of service life for optimal maintenance planning
- Energy consumption measurement and trend analyses, identification of potential savings, and sustainable optimization of energy use
- Fault diagnosis EVG / DALI
  - Early detection of light source or EVG faults
  - Detection and display of DALI short circuits for quick troubleshooting

### Room climate & presence, transmitted values Occulog detector

- Presence status, recording of room usage for demand-based control of lighting and climate
- Temperature measurement, optimization of the indoor climate by controlling heating and cooling output for greater comfort and energy efficiency
- VOC and CO<sub>2</sub> monitoring of air quality for a healthy indoor climate
- Controlling humidity to regulate climate

### Emergency lighting, transmitted values Emergency lights

- General lighting and emergency lighting testing using the same DALI loop tests
- Function test for maximum safety and endurance test
- Digital test reports, complete documentation of all tests, sent by email

We are proud to contribute to sustainable building operation.



Industries / Branches



School classes



Gymnasiums

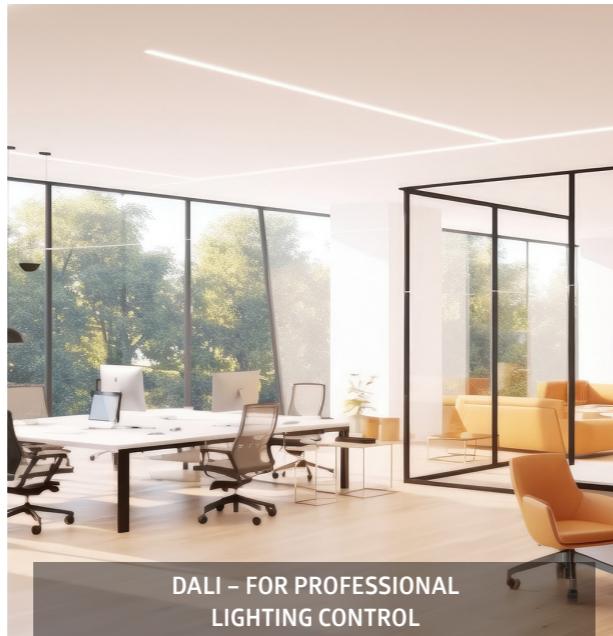
### Control function, transmitted values Consumer

- Check all connected devices and print out or email a "health list" in PDF format.
- Importing and placing connected devices in the floor plan
- Cloud connection and thus remote access
- Logic functions and scene configuration

## B.E.G. solutions at a glance



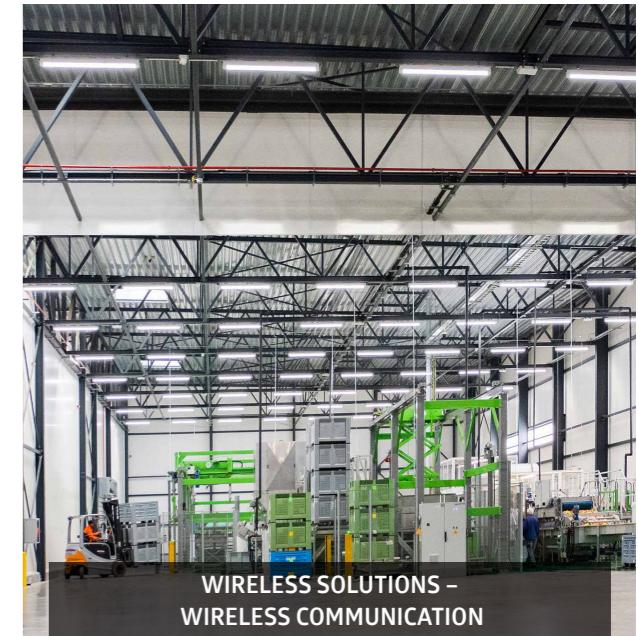
**KNX – THE SUSTAINABLE SOLUTION FOR  
BUILDING AUTOMATION**



**DALI – FOR PROFESSIONAL  
LIGHTING CONTROL**



**BUILDING MANAGEMENT SYSTEM –  
CROSS-SYSTEM BUILDING AUTOMATION**



**WIRELESS SOLUTIONS –  
WIRELESS COMMUNICATION**

### Comfort and energy efficiency with KNX

KNX leaves nothing to be desired. Lighting control, heating control, climate control, ventilation control, air quality control, blind control, and many technical installations—with KNX, the building becomes a functional unit and a modern feel-good space for all users.

Building automation is increasingly becoming standard practice, as it helps to reduce operating costs and emissions. In addition to improving the overall energy efficiency of buildings, KNX provides you with a secure, stable system offering exceptional interoperability and flexibility. KNX Secure ensures that KNX communication is particularly well protected against external interference and manipulation.

We provide support in setting up building automation with efficient, user-friendly tools. These ensure a reduction in workload. Choose KNX and B.E.G. In addition to sustainable, high-quality products, you will receive advice, planning support, and specialist training.



### Work productively while saving energy with DALI

Light not only makes us happy, it also influences our concentration and learning behavior. Modern building systems technology allows us to harness the positive effects of light so that we feel truly comfortable in buildings.

DALI is the globally established industry standard for dimmable lighting. DALI elevates lighting to a higher, extremely comfortable level of well-being. This begins as soon as the lights are switched on, when the lights in a room are dimmed up simultaneously via a soft start, which is easy on the eyes. Individual dimming allows the required illuminance or desired lighting atmosphere to be quickly created in the room.

Presence detectors and the integration of the DALI bus system alone can reduce energy consumption for lighting by 60-80%.

We have made it our mission to create solutions for every building. That is why we also offer our own developments, which are easy on the wallet and make working with DALI easy.

#### Select:

- DACO: Single room solution
- DALI-LINK: Multi-room solution
- DALI-SYS: Building solution
- DALI BMS: DALI Sensors



### The path to automated buildings that promote well-being

Heating, shading, temporarily excluding unused areas, increasing safety, enjoying comfort—the numerous demands placed on modern buildings for well-being are constantly increasing. With them, a market based on different systems is growing.

The aim here is to create intelligent networking and combine various components to achieve maximum efficiency for the building and for climate and environmental protection.

B.E.G. offers its own hardware solutions for efficient bus system networking, such as the DALI/KNX gateway or the Router2-DALI-SYS-BACnet-REG. If you need to integrate additional bus systems and communication protocols, we will be happy to assist you with the implementation.



**Greater comfort and higher energy efficiency thanks to modern building control systems—something many people would like to benefit from.**

However, breaking open walls and installing new wiring is not always worthwhile. That is why we offer wireless solutions as an alternative, some of which can be installed with little or no additional wiring.

### Casambi for lighting control and lighting design

Control lights, dim them, and change the light color—this is possible with DALI and the Casambi wireless solution. Finnish manufacturer Casambi has created an open, wireless lighting control platform based on Bluetooth Low Energy (BLE). It enables control via mobile devices such as smartphones and tablets. Renowned manufacturers around the world have now equipped a wide range of devices such as lights, controllers, buttons, and sensors with a Casambi chip.

B.E.G. offers the successful PD4-GH, PD4N, and PD2N presence detectors with Casambi and additionally for Casambi with DALI.





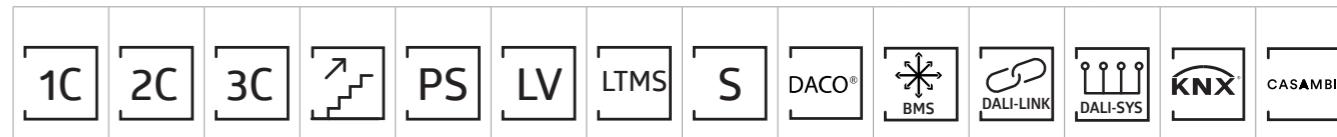
## Sensor overview Outdoor

### Typical applications

Outdoor area	Private office	Entrance area	High-bay warehouse	Open-plan office	Conference rooms	Classroom	Corridor	Sports hall	Storage rooms	Underground car park	Toilets	Utility room	Stairwell
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Aleum / Aleum Glow – 180°, PIR, max. r=16m, 400m<sup>2</sup>, IP54

■		■					■				■		
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RC-plus next N – 130°, PIR, max. r=20m, 450m<sup>2</sup>, IP54 / 230°, PIR, max. r=20m, 800m<sup>2</sup>, IP54 / 280°, PIR, max. r=20m, 970m<sup>2</sup>, IP54

130°	■										■		
230°	■										■		
280°	■										■		

130°	■ 93321												
	■ 93323												
	■ 93324												
230°	■ 93331												
	■ 93333												
	■ 93334												
	■ 93346												
280°	■ 93341												
	■ 93343												
	■ 93344												

LC-plus – 280°, PIR, max. r=16m, 620m<sup>2</sup>, IP54

■													
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■ 91008													□ 93308
■ 91028													
■ 91018													
■ 91048													

LC-Click-N – 140°, PIR, max. r=12m, 170m<sup>2</sup>, IP54 / 200°, PIR, max. r=12m, 250m<sup>2</sup>, IP54

140°	■										■		
200°	■										■		

140°	■ 91001												
	■ 91021												
200°	■ 91002												
	■ 91022												
	■ 91012												

LC-Click – 140°, PIR, max. r=12m, 170m<sup>2</sup>, IP44 / 200°, PIR, max. r=12m, 250m<sup>2</sup>, IP44

140°	■												
200°	■										■		

140°	■ 91101												
	■ 91121												
200°	■ 91102												
	■ 91122												

LC-Mini – 120°, PIR, max. r=10m, 100m<sup>2</sup>, IP44

■													
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■ 93541													
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All housing combinations and colour variants can be found on page 130 and on our website.

1C = 1 channel | 1C-Micro = 1 channel with acoustic sensor | 1C-NO-PF = 1 channel potential-free | 2C = 2 channels | 3C = 3 channels | 3P = 3 phases | ↗ = Staircase | DS = 2 phases  
 PS = Positive safety | LV = Low voltage | LTMS = Proprietary bus systems | S = Slave device | DACO = DALI compact  
 FC = False ceiling | FM = Flush-mounted | SM = Surface-mounted | □ = FM with frame | □ = FM without frame

## Sensor overview Indoor

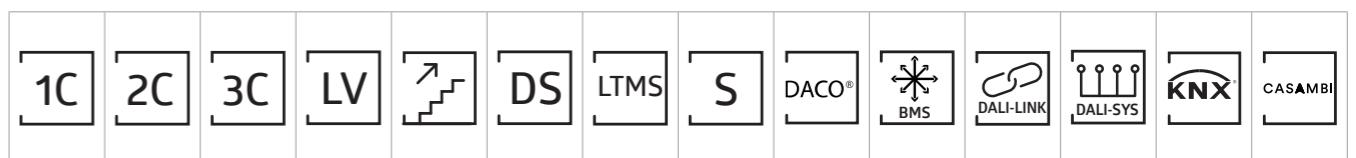
## Sensor overview Indoor

### Typical applications

Outdoor area	Private office	Entrance area	High-bay warehouse	Open-plan office	Conference rooms	Classroom	Corridor	Sports hall	Storage rooms	Underground car park	Toilets	Utility room	Stairwell
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**Indoor 180N** – 180°, PIR, max. r=14m, 300m<sup>2</sup>, IP20

■	■						■			■	■		

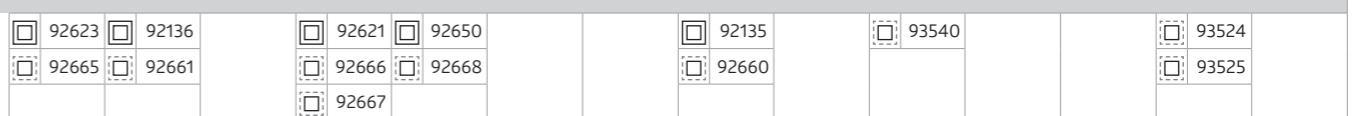


**Indoor HF** – 180°, HF, 8x4m, 32m<sup>2</sup>, IP20

		■					■						

**Indoor 180** – 180°, PIR, max. 10m, 150m<sup>2</sup>, IP20

■	■						■			■			



**Indoor 140-L** – 120°, PIR, max. r=8m, 67m<sup>2</sup>, IP20

		■								■	■		



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FC = False ceiling | FM = Flush-mounted | SM = Surface-mounted | = FM with frame | = FM without frame

## Sensor overview Motion detectors

## Sensor overview Motion detectors

Typical applications	Outdoor area	Private office	Entrance area	High-bay warehouse	Open-plan office	Conference rooms	Classroom	Corridor	Sports hall	Storage rooms	Underground car park	Toilets	Utility room	Stairwell	1C	1C Micro	1C NO-PF	2C	LV	24V	24V LED	24V 2W	DACO®	BMS	DALI-LINK	DALI-SYS	KNX	CASambi	
PD3 – 360°, PIR, max. Ø 10m, 78m <sup>2</sup> , IP20 / IP44										■		■	■	■															
															FC 92197														
															SM 92194														
PD3N – 360°, PIR, max. Ø 10m, 78m <sup>2</sup> , IP20 / IP23 / IP44											■		■	■	■														
															FC 92196	FC 92184	FC 92576	FC 92198											
															FM 92186	SM 92219		FM 92188											
															SM 92190														
PD4N – 360°, PIR, max. Ø 24m, 450m <sup>2</sup> , IP20 / IP23 / IP44											■	■	■		■														
															FC 92149														
															FM 92151														
															SM 92144														
PD4N-C – 360°, PIR, max. 40x5m, 250m <sup>2</sup> , IP23 / IP44									■																				
									■							FC 92274													
															SM 92270														
PD9 – 360°, PIR, max. Ø 10m, 78m <sup>2</sup> , IP20										■		■	■	■	■														
																FC 92902													
HF – 360°, HF, max. Ø 16m, 200m <sup>2</sup> , IP20										■		■	■	■	■														
																FM 94401													
															SM 94402														
BL2 – 360°, PIR, max. Ø 8m, 50m <sup>2</sup> , IP23										■		■	■	■	■														
																FC 93317													
BL4 – 360°, PIR, max. Ø 19m, 280m <sup>2</sup> , IP20											■	■																	
																FC 93288													
BL4-C – 360°, PIR, max. 32x5m, 200m <sup>2</sup> , IP20									■								FC 93284												

All housing combinations and colour variants can be found on page 130 and on our website.

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PS = Positive safety | LV = Low voltage | LMS = Proprietary bus systems | S = Slave device | DACO = DALI compact

FC = False ceiling | FM = Flush-mounted | SM = Surface-mounted |  = FM with frame |  = FM without frame

## Sensor overview Presence detectors

## Sensor overview Presence detectors

Typical applications														1C	2C	3C	3P	DS	PS	LV	LTMS	S	DACO®	BMS	DALI-LINK	DALI-SYS	KNX	CASAMBI				
Outdoor area	Private office	Entrance area	High-bay warehouse	Open-plan office	Conference rooms	Classroom	Corridor	Sports hall	Storage rooms	Underground car park	Toilets	Utility room	Stairwell	1C	2C	3C	3P	DS	PS	LV	LTMS	S	DACO®	BMS	DALI-LINK	DALI-SYS	KNX	CASAMBI				
PD2 - 360°, PIR, max. Ø 10m, 78m <sup>2</sup> IP20											■	■		FC 92565	FC 92165					FC 92164		FC 92166										
PD2N - 360°, PIR, max. Ø 10m, 78m <sup>2</sup> IP20											■	■	■	FC 94055						FC 92119	FC 93240	FC 93452	FC 93543		FC 93369	FC 93533	FC 93476					
PD4 - 360°, PIR, max. Ø 24m, 450m <sup>2</sup> IP20 / IP54											■	■	■	FC 92585	FC 92148	FC 92745		FC 92760		FC 92254	FC 93484											
PD4-C - 360°, PIR, max. 40x5m, 250m <sup>2</sup> , IP20 / IP54											■	■	■	FM 92575	FM 92255	SM 92740		SM 92761		FM 92163	SM 93485											
PD4-GH - 360°, PIR, max. 30x19m, 440m <sup>2</sup> , IP20 / IP54											■			SM 92245						SM 92265	SM 93469	SM 93545	SM 93845	SM 93345	SM 93518	SM 93479						
PD4N - 360°, PIR, max. Ø 24m, 450m <sup>2</sup> , IP20											■	■	■	FC 92586	FC 92143		FC 92746		FC 92480		FC 92444											
BL2-PLUS - 360°, PIR, max. Ø 8m, 50m <sup>2</sup> , IP23											■	■		SM 92587	SM 92440		SM 92747		SM 92485		SM 92442											
BL4-PLUS - 360°, PIR, max. Ø 19m, 280m <sup>2</sup> , IP20											■	■		FC 93405						FC 92709	FC 93241	FC 93460	FC 93546	FC 93377	FC 93340	FC 93535	FC 93474					

All housing combinations and colour variants can be found on page 130 and on our website.

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PS = Positive safety | LV = Low voltage | LTMS = Proprietary bus systems | S = Slave device | DACO = DALI compact

## Sensor overview Mini presence detectors

Typical applications	Outdoor area	Private office	Entrance area	High-bay warehouse	Open-plan office	Conference rooms	Classroom	Corridor	Sports hall	Storage rooms	Underground car park	Toilets	Utility room	Stairwell	1C	2C	3C	DS	PS	LV	LTMS	S	DACO®	BMS	DALI-LINK	DALI-SYS	KNX	CASambi			
	■	■			■			■				■											■ 93358		■ 93509						
PD5N – 360°, PIR, max. Ø 12m, 110m <sup>2</sup> , IP20																								□ 93354		□ 93508					
PD9 – 360°, PIR, max. Ø 10m, 78m <sup>2</sup> , IP20 / IP65	■	■						■				■	■	■		FC 92900	FC 92976						FC 92905	FC 93470				FC 93520			
PD11 – 360°, PIR, max. Ø 9m, 63m <sup>2</sup> , IP20 / IP54	■	■					■	■			■	■	■		FC 92583							FC 92594	FC 92593	FC 93459	FC 93542	FC 93068	FC 92731	FC 93522	FC 93523		
PICO – 360°, PIR, max. Ø 10m, 78m <sup>2</sup> , IP20 / IP65	■	■										■	■	■		FC 93159							FC 92700		FC 93547	FC 93908	FC 93909	FC 93539		FC 93529	

## Sensor overview Mini presence detectors

All housing combinations and colour variants can be found on page 130 and on our website.

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PS = Positive safety | LV = Low voltage | LTMS = Proprietary bus systems | S = Slave device | DACO = DALI compact

FC = False ceiling | FM = Flush-mounted | SM = Surface-mounted |  = FM with frame |  = FM without frame

# PRESENCE AND MOTION DETECTORS



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## Presence detectors – maximum energy efficiency and pleasant comfort

Buildings play a significant role in climate protection. They account for around 38% of our CO<sub>2</sub> emissions. Presence detectors can greatly reduce energy consumption in buildings. Our high-quality B.E.G. presence detectors automatically provide optimal lighting conditions in all used interior spaces, so you don't have to worry about lighting. A presence detector continuously measures brightness. Installed in a room, it detects when someone enters the room and is able to detect even the slightest movements, such as the tap of a finger on a computer mouse.

Whenever movement is detected and the brightness is below the set lux value, the lighting is switched on or maintained. If there is sufficient daylight in the room, the artificial lighting can be automatically dimmed or switched off. This results in particularly high energy savings.

## Outdoor motion detectors



### Technical Data

	Aleum Glow	RC-plus next N 130
<b>Product information</b>	<ul style="list-style-type: none"> <li>Motion detector with 180° detection area and anti-creep zone</li> <li>Ambient light</li> <li>Further functions can be set via Bluetooth using the B.E.G. app</li> </ul>	<ul style="list-style-type: none"> <li>Motion detector with 130° detection area and anti-creep zone</li> <li>Mechanical range adjustment</li> <li>Different follow-up time depending on direction of movement</li> </ul>
<b>Voltage</b>	230 V AC ±10% 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz (can also be supplied with other operating voltages ON request)
<b>Power consumption</b>	approx. 0.5 W	approx. 0.5 W
<b>Detection area</b>	horizontal 180° (Wall mounting)	horizontal 130° (Wall mounting)
<b>Range</b>	max. 16 m across max. 5 m towards max. 3 m anti-creep protection	max. 20 m across max. 6 m towards max. 4 m anti-creep protection
<b>Monitored area (tangential movement)</b>	400 m² / 2.5 m mounting height	450 m² / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 4 m / 2.5 m	2 m / 5 m / 2.5 m
<b>Impact strength</b>	IK03	IK03
<b>Ambient temperature</b>	-25 °C to +50 °C	-25 °C to +50 °C
<b>Housing</b>	polycarbonate, UV-resistant	polycarbonate, UV-resistant
<b>Connections and wires</b>	for solid conductors 0.5 – 2.5 mm²	–
<b>Switching power</b>	<b>Channel 1 (lighting control)</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A	<b>Channel 1 (lighting control)</b> 3000 W, cos φ = 1 1500 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A
<b>Type of contact</b>	1x µ-contact, NO contact with tungsten pre-make contact	1x µ-contact, NO contact with tungsten pre-make contact
<b>Follow-up time</b>	10 sec – 30 min, Pulse	15 sec – 16 min, Pulse
<b>Ambient light</b>	0 – 100 % / 10 s – 6 h / 16 colours	–
<b>Switch-on threshold</b>	10 – 2500 Lux	2 – 500 Lux
<b>Degree of protection</b>	IP54	IP54
<b>Protection class</b>	Class II	Class II
<b>Item number</b>	93132 white mat, similar to RAL9010 93134 anthracite mat, similar to RAL7016	93321 white mat, similar to RAL9010 93323 black mat, similar to RAL9005 93324 brown mat, similar to RAL8014
<b>Comprehensive product information</b>		

## Outdoor motion detectors



### Technical Data

	RC-plus next N 230	RC-plus next N 280	LC-plus 280
<b>Product information</b>	<ul style="list-style-type: none"> <li>Motion detector with 230° detection area and anti-creep zone</li> <li>Mechanical range adjustment</li> <li>Different follow-up time depending on direction of movement</li> </ul>	<ul style="list-style-type: none"> <li>Motion detector with 280° detection area and anti-creep zone</li> <li>Mechanical range adjustment</li> <li>Different follow-up time depending on direction of movement</li> </ul>	<ul style="list-style-type: none"> <li>Motion detector with downward detection for gapless monitoring</li> <li>Adjustable ball head</li> <li>Zero crossing switching</li> </ul>
<b>Voltage</b>	110 – 240 V AC 50 / 60 Hz (can also be supplied with other operating voltages ON request)	110 – 240 V AC 50 / 60 Hz (can also be supplied with other operating voltages ON request)	110 – 240 V AC 50 / 60 Hz
<b>Power consumption</b>	approx. 0.5 W	approx. 0.5 W	approx. 0.24 W
<b>Detection area</b>	horizontal 230° (Wall mounting)	horizontal 280° (Wall mounting)	horizontal 280° (Wall mounting)
<b>Range</b>	max. 20 m across max. 6 m towards max. 4 m anti-creep protection	max. 20 m across max. 6 m towards max. 4 m anti-creep protection	max. 16 m across max. 9 m towards
<b>Monitored area (tangential movement)</b>	800 m² / 2.5 m mounting height	970 m² / 2.5 m mounting height	620 m² / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 3 m / 2.5 m
<b>Impact strength</b>	IK03	IK03	IK02
<b>Ambient temperature</b>	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C
<b>Housing</b>	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
<b>Connections and wires</b>	–	–	–
<b>Switching power</b>	<b>Channel 1 (lighting control)</b> 3000 W, cos φ = 1 1500 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A	<b>Channel 1 (lighting control)</b> 3000 W, cos φ = 1 1500 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A	<b>Channel 1 (lighting control)</b> 2000 W, cos φ = 1 1000 VA, cos φ = 0.5 400 W LED
<b>Type of contact</b>	1x µ-contact, NO contact with tungsten pre-make contact	1x µ-contact, NO contact with tungsten pre-make contact	1x µ-contact, NO contact
<b>Follow-up time</b>	15 sec – 16 min, Pulse	15 sec – 16 min, Pulse	15 sec – 16 min, Pulse
<b>Ambient light</b>	–	–	–
<b>Switch-on threshold</b>	2 – 500 Lux	2 – 500 Lux	2 – 500 Lux
<b>Degree of protection</b>	IP54	IP54	IP54
<b>Protection class</b>	Class II	Class II	Class II
<b>Item number</b>	93331 white mat, similar to RAL9010 93333 black mat, similar to RAL9005 93334 brown mat, similar to RAL8014 93346 silver mat, similar to RAL9006	93341 white mat, similar to RAL9010 93343 black mat, similar to RAL9005 93344 brown mat, similar to RAL8014 91048 silver mat, similar to RAL9006	91008 white mat, similar to RAL9010 91028 black mat, similar to RAL9005 91018 brown mat, similar to RAL8014 91048 silver mat, similar to RAL9006
<b>Comprehensive product information</b>			

## Outdoor motion detectors



### Technical Data

Product information	LC-Click-N 140
■ Motion detector with 140° detection area and 180° anti-creep zone	
■ Adjustable ball head	
■ Detection area can be restricted with blinds	
<b>Voltage</b>	110 – 240 V AC 50 / 60 Hz
<b>Power consumption</b>	approx. 0.4 W
<b>Detection area</b>	horizontal 140° (Wall mounting)
<b>Range</b>	max. 12 m across max. 4 m towards max. 2 m anti-creep protection
<b>Monitored area (tangential movement)</b>	170 m <sup>2</sup> / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 3 m / 2.5 m
<b>Impact strength</b>	IK04
<b>Ambient temperature</b>	-25 °C to +50 °C
<b>Housing</b>	polycarbonate, UV-resistant
<b>Switching power</b>	<b>Channel 1 (lighting control)</b> 1000 W, cos φ = 1 500 VA, cos φ = 0.5 400 W LED
<b>Type of contact</b>	1x µ-contact, NO contact
<b>Follow-up time</b>	4 sec – 20 min
<b>Switch-on threshold</b>	2 – 500 Lux
<b>Degree of protection</b>	IP54
<b>Protection class</b>	Class II
<b>Item number</b>	91001 white mat, similar to RAL9010 91021 black mat, similar to RAL9005 91012 brown mat, similar to RAL8014
<b>Comprehensive product information</b>	

### LC-Click-N 200

- Motion detector with 200° detection area and 180° anti-creep zone
- Adjustable ball head
- Detection area can be restricted with blinds

110 – 240 V AC 50 / 60 Hz

approx. 0.4 W

horizontal 200° (Wall mounting)

max. 12 m across  
max. 4 m towards  
max. 2 m anti-creep protection

250 m<sup>2</sup> / 2.5 m mounting height

2 m / 3 m / 2.5 m

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

### Channel 1 (lighting control)

1000 W, cos φ = 1  
500 VA, cos φ = 0.5  
400 W LED

1x µ-contact, NO contact

4 sec – 20 min

2 – 500 Lux

IP54

Class II

91002 white mat, similar to RAL9010  
91022 black mat, similar to RAL9005  
91012 brown mat, similar to RAL8014



### LC-Click 140

- Motion detector with detection area of 140°
- Adjustable ball head
- Simple mounting thanks to plug base

110 – 240 V AC 50 / 60 Hz

approx. 0.4 W

horizontal 140° (Wall mounting)

max. 12 m across  
max. 4 m towards

170 m<sup>2</sup> / 2.5 m mounting height

2 m / 3 m / 2.5 m

–

-25 °C to +50 °C

polycarbonate, UV-resistant

### Channel 1 (lighting control)

1000 W, cos φ = 1  
500 VA, cos φ = 0.5  
400 W LED

1x µ-contact, NO contact

4 sec – 10 min

10 – 300 Lux

IP44

Class II

91101 white mat, similar to RAL9010  
91121 black mat, similar to RAL9005



### LC-Click 200

- Motion detector with detection area of 200°
- Adjustable ball head
- Simple mounting thanks to plug base

110 – 240 V AC 50 / 60 Hz

approx. 0.4 W

horizontal 200° (Wall mounting)

max. 12 m across  
max. 4 m towards

250 m<sup>2</sup> / 2.5 m mounting height

2 m / 3 m / 2.5 m

–

-25 °C to +50 °C

polycarbonate, UV-resistant

### Channel 1 (lighting control)

1000 W, cos φ = 1  
500 VA, cos φ = 0.5  
400 W LED

1x µ-contact, NO contact

4 sec – 10 min

10 – 300 Lux

IP44

Class II

91102 white mat, similar to RAL9010  
91122 black mat, similar to RAL9005



## Outdoor motion detectors

## Wall-mounted detectors



### Technical Data

Product information	<ul style="list-style-type: none"> <li>Wall-mounted presence detector with HF technology</li> <li>Relay version with three-wire technology</li> <li>Manual switching via push-button possible</li> </ul>
Voltage	230 V AC 10% 50 / 60 Hz
Power consumption	approx. 0.2 W
Detection area	horizontal 180° (Wall mounting)
Range	max. 8 m x 4 m across max. 8 m x 4 m towards
Monitored area (tangential movement)	32 m <sup>2</sup> / 1.1 m mounting height
Mounting height min./max./recommended	1 m / 1.2 m / 1.1 m
Impact strength	IK05
Ambient temperature	5 °C to +50 °C
Housing	polycarbonate, UV-resistant
Switching power	<b>Channel 1 (lighting control)</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A
Type of contact	1x µ-contact, NO contact
Follow-up time	10 sec – 18 h
Switch-on threshold	–
Brightness set value	10 – 2500 Lux
Switching power	<b>Channel 2</b> – – –
Type of contact	<b>Channel 2</b> – – –
Follow-up time	<b>Channel 2</b> – – –
Degree of protection	FM = IP20 / FM = IP20
Protection class	Class II
Item number	FM = 93261 traffic white mat, similar to RAL9016 FM = 93263 traffic white glossy, similar to RAL9016
Comprehensive product information	



### Indoor180N-M-1C

- Wall-mounted presence detector with PIR technology and additional acoustic sensor
- Relay version with three-wire technology
- Acoustic sensor independently adjustable



### Indoor 140-L

- Wall-mounted presence detector with integrated push-button
- One channel for switching light (selectively main light or orientation light)
- Integrated downlight with the function of an orientation or a night light



### Indoor 180-R

- Wall-mounted motion detector with acoustic sensor
- Relay version with three-wire technology
- Acoustic sensor independently adjustable



### Indoor 180-M-2C

- Wall-mounted presence detector with acoustic sensor
- One channel for light switching
- One additional potential-free (dry) contact for HVAC

110 – 240 V AC 50 / 60 Hz

approx. 0.4 W / approx. 0.8 W with nightlight

horizontal 120° (Wall mounting)

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

IK07

-25 °C to +50 °C

94325: (covering not included)

94328: polycarbonate, UV-resistant

**Channel 1 (lighting control)**

2000 W, cos φ = 1

1150 VA, cos φ = 0.5

800 W LED

max. inrush current Ip (20 ms) = 165 A

max. inrush current Ip (20 µs) = 800 A

1x µ-contact, NO contact with tungsten pre-make contact

15 sec – 30 min

0 – 100 % / OFF / 15 s – 30 min

0 – 100 %

10 – 2000 Lux

–

**Channel 2**

–

–

–

FM = IP20 / FM = IP20

Class II

FM = 94328 pure white glossy, similar to RAL9010

FM = 94325 –



### Indoor 180-L

110 – 240 V AC 50 / 60 Hz

approx. 0.5 W

horizontal 180° (Wall mounting)

max. 10 m across

max. 3 m towards

150 m<sup>2</sup> / 1.1 m mounting height

1 m / 2.2 m / 1.1 m

IK05

-25 °C to +50 °C

polycarbonate, UV-resistant



### Indoor 180-R

110 – 240 V AC 50 / 60 Hz

approx. 0.4 W

horizontal 180° (Wall mounting)

max. 10 m across

max. 3 m towards

150 m<sup>2</sup> / 1.1 m mounting height

1 m / 2.2 m / 1.1 m

IK05

-25 °C to +50 °C

polycarbonate, UV-resistant



### Indoor 180-M-2C

110 – 240 V AC 50 / 60 Hz

approx. 0.4 W

horizontal 180° (Wall mounting)

max. 10 m across

max. 3 m towards

150 m<sup>2</sup> / 1.1 m mounting height

1 m / 2.2 m / 1.1 m

IK05

-25 °C to +50 °C

polycarbonate, UV-resistant

## Wall-mounted detectors

## Wall-mounted detectors



### Technical Data

Product information	Indoor 180-S	Indoor 180-TR
■ Slave device		
■ For extending the detection area of a Master device		
■ Compatible with 230 V devices. Concerning exceptions please see the respective master device.		
<b>Voltage</b>	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz Power supply via staircase switch
<b>Power consumption</b>	approx. 0.2 W	approx. 0.8 W
<b>Detection area</b>	horizontal 180° (Wall mounting)	horizontal 180° (Wall mounting)
<b>Range</b>	max. 10 m across max. 3 m towards	max. 10 m across max. 3 m towards
<b>Monitored area (tangential movement)</b>	150 m <sup>2</sup> / 1.1 m mounting height	150 m <sup>2</sup> / 1.1 m mounting height
<b>Mounting height min./max./recommended</b>	1 m / 2.2 m / 1.1 m	1 m / 2.2 m / 1.1 m
<b>Impact strength</b>	IK05	IK05
<b>Ambient temperature</b>	-25 °C to +50 °C	-25 °C to +50 °C
<b>Housing</b>	polycarbonate, UV-resistant	polycarbonate, UV-resistant
<b>Switching power</b>	Channel 1 –	Channel 1 0.2 A / 230 V – Pulse duration: 0.1 s; Deactivation of light evaluation 1 min – 10 min 2 – 2000 Lux
<b>Type of contact</b>	–	–
<b>Follow-up time</b>	–	–
<b>Switch-on threshold</b>	–	–
<b>Pulse interval</b>	2 or 9 sec	–
<b>Degree of protection</b>	FM = IP20 / FM = IP20	FM = IP20 / FM = IP20
<b>Protection class</b>	Class II	Class II
<b>Item number</b>	FM = 92135 pure white mat, similar to RAL9010 FM = 92660 –	FM = 92650 pure white mat, similar to RAL9010 FM = 92668 –
<b>Comprehensive product information</b>		



### Indoor 180-R-11-48V-3A

- Wall-mounted motion detector with acoustic sensor, operating voltage 11-48 V
- One potential-free switching channel
- Acoustic sensor independently adjustable

11 – 48 V AC / DC

approx. 1W

horizontal 180° (Wall mounting)

max. 10 m across

max. 3 m towards

150 m<sup>2</sup> / 1.1 m mounting height

1 m / 2.2 m / 1.1 m

IK05

-25 °C to +50 °C

polycarbonate, UV-resistant

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

3 A; cos φ = 1

μ-contact, dry NO contact

15 sec – 16 min, Pulse

5 – 2000 Lux

–

FM = IP20 / FM = IP20

Class II

FM = 92621 pure white mat, similar to RAL9010

FM = 92666 –



### Indoor 180-R-11-48V-RR

- Wall-mounted motion detector with acoustic sensor, operating voltage 11-48 V
- One potential-free switching channel
- Acoustic sensor independently adjustable

11 – 48 V AC / DC

approx. 1W

horizontal 180° (Wall mounting)

max. 10 m across

max. 3 m towards

150 m<sup>2</sup> / 1.1 m mounting height

1 m / 2.2 m / 1.1 m

IK05

-25 °C to +50 °C

polycarbonate, UV-resistant

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

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

–

FM = IP20

Class II

FM = 92667 –



## Wall-mounted detectors

## Ceiling-mounted motion detectors



### Technical Data

	PD3-1C
Product information	<ul style="list-style-type: none"> <li>Ceiling-mounted motion detector</li> <li>One channel for light switching</li> <li>Zero crossing switching</li> </ul>
Voltage	110 – 240 V AC 50 / 60 Hz
Power consumption	< 0.3 W
Detection area	horizontal 360° (Ceiling mounting)
Range	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated
Monitored area (tangential movement)	78 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	2 m / 5 m / 2.5 m
Impact strength	–
Ambient temperature	-25 °C to +50 °C
Housing	polycarbonate, UV-resistant
Switching power	Channel 1 (lighting control) 2000 W, cos φ = 1 1000 VA, cos φ = 0.5 400 W LED, minimum runtime > 5 min max. inrush current Ip (20 ms) = 80 A
Type of contact	μ-contact, NO contact
Follow-up time	30 sec – 30 min, Pulse
Switch-on threshold	10 – 2000 Lux
Switching power	Channel 2 –
Type of contact	–
Follow-up time	–
Degree of protection	FC = IP20 / SM = IP44 / FM = IP20 / SM = IP44
Protection class	Class II
Item number	FC = 92197 white mat, similar to RAL9010 SM = 92194 white mat, similar to RAL9010 SM = 93091 black mat, similar to RAL9005
Comprehensive product information	

### PD3N-1C

- Remote control-capable ceiling-mounted detector
- One channel for light switching
- Zero crossing switching

110 – 240 V AC 50 / 60 Hz

approx. 0.5 W

horizontal 360° (Ceiling mounting)

max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seated

78 m<sup>2</sup> / 2.5 m mounting height

2 m / 5 m / 2.5 m

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

#### Channel 1 (lighting control)

2300 W, cos φ = 1  
1150 VA, cos φ = 0.5  
800 W LED  
max. inrush current Ip (20 ms) = 165 A  
max. inrush current Ip (200 μs) = 800 A

1x μ-contact, NO contact with tungsten pre-make contact

15 sec – 30 min, Pulse

10 – 2000 Lux

#### Channel 2

–

–

–

FC = IP23 / SM = IP44 / FM = IP20 / SM = IP44

Class II

FC = 92196 white mat, similar to RAL9010  
SM = 92190 white mat, similar to RAL9010  
FM = 92186 white mat, similar to RAL9010  
SM = 93092 black mat, similar to RAL9005

### PD3N-1C Micro



### PD3N-1C Micro

- Remote control-capable ceiling-mounted motion detector with integrated acoustic sensor
- One channel for light switching
- Zero crossing switching

110 – 240 V AC 50 / 60 Hz

approx. 0.5 W

horizontal 360° (Ceiling mounting)

max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seated

78 m<sup>2</sup> / 2.5 m mounting height

2 m / 5 m / 2.5 m

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

#### Channel 1 (lighting control)

2300 W, cos φ = 1  
1150 VA, cos φ = 0.5  
800 W LED  
max. inrush current Ip (20 ms) = 165 A  
max. inrush current Ip (200 μs) = 800 A

1x μ-contact, NO contact with tungsten pre-make contact

30 sec – 30 min, Pulse

10 – 2000 Lux

#### Channel 2

–

–

–

FC = IP23 / SM = IP44 / FM = IP20

Class II

FC = 92184 white mat, similar to RAL9010  
SM = 92219 white mat, similar to RAL9010  
SM = 93093 black mat, similar to RAL9005

### PD3N-1C-NO-PF



### PD3N-1C-NO-PF

- Remote control-capable ceiling-mounted motion detector
- One potential-free (dry) switching contact
- Zero crossing switching

110 – 240 V AC 50 / 60 Hz

approx. 0.4 W

horizontal 360° (Ceiling mounting)

max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seated

78 m<sup>2</sup> / 2.5 m mounting height

2 m / 5 m / 2.5 m

IK04

-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  
800 W LED  
max. inrush current Ip (20 ms) = 165 A  
max. inrush current Ip (200 μs) = 800 A

1x μ-contact, dry NO contact with tungsten pre-make contact

15 sec – 30 min, Pulse

10 – 2000 Lux

#### Channel 2

–

–

–

FC = IP23

Class II

FC = 92576 white mat, similar to RAL9010

### PD3N-2C



### PD3N-2C

- Remote control-capable ceiling-mounted motion detector
- One channel for light switching
- Zero crossing switching

110 – 240 V AC 50 / 60 Hz

approx. 0.5 W

horizontal 360° (Ceiling mounting)

max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seated

78 m<sup>2</sup> / 2.5 m mounting height

2 m / 5 m / 2.5 m

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

#### Channel 1 (lighting control)

2300 W, cos φ = 1  
1150 VA, cos φ = 0.5  
800 W LED  
max. inrush current Ip (20 ms) = 165 A  
max. inrush current Ip (200 μs) = 800 A

1x μ-contact, NO contact with tungsten pre-make contact

30 sec – 30 min, Pulse

10 – 2000 Lux

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

3 A (230 V), cos φ = 1  
1x NO contact (dry)

5 min – 120 min

FC = IP23 / FM = IP20

Class II

FC = 92198 white mat, similar to RAL9010  
FM = 92188 white mat, similar to RAL9010

### Comprehensive product information



## Ceiling-mounted motion detectors



### Technical Data

	PD4N-1C	PD4N-1C-C
Product information	<ul style="list-style-type: none"> <li>■ Remote-control capable ceiling-mounted motion detector with large detection range</li> <li>■ One channel for light switching</li> <li>■ Zero crossing switching</li> </ul>	<ul style="list-style-type: none"> <li>■ Remote control-capable ceiling-mounted motion detector designed for corridors</li> <li>■ One channel for light switching</li> <li>■ Zero crossing switching</li> </ul>
Voltage	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz
Power consumption	approx. 0.5 W	approx. 0.4 W
Detection area	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
Range	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	max. Ø 40 m across max. Ø 20 m towards
Monitored area (tangential movement)	450 m <sup>2</sup> / 2.5 m mounting height	250 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	2 m / 5 m / 2.5 m	2.4 m / 2.6 m / 2.5 m
Impact strength	IK04	IK04
Ambient temperature	-25 °C to +50 °C	-25 °C to +50 °C
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant
Connections and wires	-	-
Switching power	<p><b>Channel 1 (lighting control)</b></p> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A 1x µ-contact, NO contact with tungsten pre-make contact 15 sec – 30 min, Pulse 10 – 2000 Lux FC = IP23 / SM = IP44 / FM = IP20 Class II FC = 92149 white mat, similar to RAL9010 SM = 92144 white mat, similar to RAL9010 FM = 92151 white mat, similar to RAL9010	<p><b>Channel 1 (lighting control)</b></p> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A 1x µ-contact, NO contact with tungsten pre-make contact 15 sec – 30 min, Pulse 10 – 2000 Lux FC = IP23 / SM = IP44 Class II FC = 92274 white mat, similar to RAL9010 SM = 92270 white mat, similar to RAL9010 FM = 93317 white
Type of contact	1x µ-contact, NO contact with tungsten pre-make contact	1x µ-contact, NO contact with tungsten pre-make contact
Follow-up time	15 sec – 30 min, Pulse	15 sec – 30 min, Pulse
Switch-on threshold	10 – 2000 Lux	10 – 2000 Lux
Degree of protection	FC = IP23 / SM = IP44	FC = IP23 / SM = IP44
Protection class	Class II	Class II
Item number	FC = 92149 white mat, similar to RAL9010 SM = 92144 white mat, similar to RAL9010 FM = 92151 white mat, similar to RAL9010	FC = 93288 white mat, similar to RAL9010 SM = 93284 white mat, similar to RAL9010 FM = 93284 white mat, similar to RAL9010
Comprehensive product information		

## Ceiling-mounted motion detectors



### BL2

- Ceiling-mounted motion detector for indoor use with a 360° detection area
- For mounting in suspended ceilings
- One channel for light switching

110 – 240 V AC 50 / 60 Hz

0.3 W

horizontal 360° (Ceiling mounting)

max. Ø 8 m across  
max. Ø 4.8 m towards  
max. Ø 3.2 m seated

50 m<sup>2</sup> / 2.5 m mounting height

2 m / 5 m / 2.5 m

IK05

-25 °C to +50 °C

polycarbonate, UV-resistant

0.5 – 1.5 mm<sup>2</sup> for solid conductors

**Channel 1 (lighting control)**

1000 W, cos φ = 1  
500 VA, cos φ = 0.5  
400 W LED

1x µ-contact, NO contact

15 sec – 60 min

10 – 2000 Lux

FC = IP23

Class II

FC = 93317 white

### BL4

- Ceiling-mounted motion detector for indoor use with a 360° detection area
- For mounting in suspended ceilings
- One channel for light switching

110 – 240 V AC 50 / 60 Hz

approx. 0.3 W

horizontal 360° (Ceiling mounting)

max. Ø 19 m across  
max. Ø 6.4 m towards  
max. Ø 5 m seated

280 m<sup>2</sup> / 2.5 m mounting height

2 m / 5 m / 2.5 m

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

0.5 – 2.5 mm<sup>2</sup> for solid conductors

**Channel 1 (lighting control)**

1000 W, cos φ = 1  
500 VA, cos φ = 0.5  
400 W LED

1x µ-contact, NO contact

15 sec – 60 min

10 – 2000 Lux

FC = IP20

Class II

FC = 93288 white mat, similar to RAL9010

### BL4-C

- Remote control-capable ceiling-mounted motion detector designed for corridors
- For mounting in suspended ceilings
- One channel for light switching

110 – 240 V AC 50 / 60 Hz

approx. 0.3 W

horizontal 360° (Ceiling mounting)

max. Ø 32 m across  
max. Ø 16 m towards

200 m<sup>2</sup> / 2.5 m mounting height

2.4 m / 2.6 m / 2.5 m

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

0.5 – 2.5 mm<sup>2</sup> for solid conductors

**Channel 1 (lighting control)**

1000 W, cos φ = 1  
500 VA, cos φ = 0.5  
400 W LED

1x µ-contact, NO contact

15 sec – 60 min

10 – 2000 Lux

FC = IP20

Class II

FC = 93284 white mat, similar to RAL9010

## Ceiling-mounted motion detectors



### Technical Data

Product information	<b>PD9-1C</b>
Voltage	110 – 240 V AC 50 / 60 Hz
Power consumption	approx. 0.5 W
Detection area	horizontal 360° (Ceiling mounting)
Range	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated
Monitored area (tangential movement)	78 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	2 m / 5 m / 2.5 m
Impact strength	IK03
Ambient temperature	-25 °C to +50 °C
Housing	polycarbonate, UV-resistant
Cable length	45 cm
Switching power	<b>Channel 1 (lighting control)</b> 1000 W, cos φ = 1 500 VA, cos φ = 0.5 400 W LED
Type of contact	1x µ-contact, NO contact
Follow-up time	30 sec – 30 min, Pulse
Switch-on threshold	10 – 2000 Lux
Radar / HF technology	–
Degree of protection	FC = IP20
Protection class	Class II
Item number	FC = 92902 white mat, similar to RAL9010



## Ceiling-mounted motion detectors



### HF-MD1

- Mini-motion detector with operating voltage 12-48 V
- One channel for light switching
- Easy installation on device

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

approx. 1.2 W

horizontal 360° (Ceiling mounting)

Ø 0.4 – 16 m

max. Ø 16 m towards

200 m<sup>2</sup> / 2.5 m mounting height

1 m / 4 m / 2.5 m

–

-15 °C to +50 °C

polycarbonate, UV-resistant

–

**Channel 1 (lighting control)**

1200 W, cos φ = 1  
800 W LED  
max. inrush current Ip (20 ms) = 165 A

max. inrush current Ip (200 µs) = 800 A

1x µ-contact, dry NO contact with tungsten pre-make contact

30 sec – 30 min, Pulse

10 – 2000 Lux

–

FC = IP20

Class II

FC = 92985 white mat, similar to RAL9010



### HF-MD2

- Microwave motion detector, designed for surface mount and installation in lights
- Temperature-independent detection
- Detection can be made through various materials

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

approx. 1.2 W

horizontal 360° (Ceiling mounting)

Ø 0.4 – 16 m

–

200 m<sup>2</sup> / 2.5 m mounting height

1 m / 4 m / 2.5 m

–

-15 °C to +50 °C

polycarbonate, UV-resistant

–

**Channel 1 (lighting control)**

1200 W, cos φ = 1  
800 W LED  
max. inrush current Ip (20 ms) = 120 A

1x µ-contact, NO contact

5 sec – 15 min

2 – 2000 Lux

5.8 GHz, < 10 mW

IP20

Class II

94401 white mat, similar to RAL9010



## Ceiling-mounted presence detectors



### Technical Data

	PD2-M-1C	PD2-M-2C	PD2-M-2C-12-48V-3A	PD2-M-2C-12-48V-RR	PD2N-M-1C-LED
<b>Product information</b>	<ul style="list-style-type: none"> <li>Presence detector with one potential-free dry contact</li> <li>Version as master device</li> <li>One channel for light switching</li> </ul>	<ul style="list-style-type: none"> <li>Presence detector with circular detection area</li> <li>One channel for light switching</li> <li>One additional potential-free (dry) contact for HVAC</li> </ul>	<ul style="list-style-type: none"> <li>Presence detector with operating voltage of 12-48 V</li> <li>Two potential-free (dry) channels</li> <li>Can be used as either Master device or Slave device</li> </ul>	<ul style="list-style-type: none"> <li>Presence detector with operating voltage of 12-48 V</li> <li>Two potential-free (dry) channels</li> <li>Can be used as either Master device or Slave device</li> </ul>	<ul style="list-style-type: none"> <li>Remote control-capable presence detector for inside use with circular detection area</li> <li>Integrated LED light as separately adjustable orientation- and night light</li> <li>One channel for light switching</li> </ul>
<b>Voltage</b>	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	12 – 48 V AC / DC	12 – 48 V AC / DC	110 – 240 V AC 50 / 60 Hz
<b>Luminous flux / intensity</b>	–	–	–	–	LED circuit board securely mounted Luminous flux of light 90 lm
<b>Power consumption</b>	approx. 0.4 W	approx. 0.5 W	< 1 W	< 1 W	approx. 0.3 W / approx. 2 W with LED
<b>Detection area</b>	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
<b>Range</b>	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated
<b>Monitored area (tangential movement)</b>	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m
<b>Impact strength</b>	IK05	IK05	IK05	IK05	IK03
<b>Ambient temperature</b>	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-20 °C to +40 °C
<b>Housing</b>	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	Polycarbonate
<b>Switching power</b>	<b>Channel 1 (lighting control, potential-free (dry))</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A	<b>Channel 1 (lighting control)</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A	<b>Channel 1 (lighting control, potential-free (dry))</b> 3 A; cos φ = 1	<b>Channel 1 (lighting control, potential-free (dry))</b> 0.1 A; cos φ = 1 with Reed relay	<b>Channel 1 (lighting control, potential-free (dry))</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A
<b>Type of contact</b>	1x µ-contact, dry NO contact with tungsten pre-make contact	1x µ-contact, NO contact with tungsten pre-make contact	1x µ-contact, dry NO contact	1x µ-contact, dry NO contact	1x µ-contact, dry NO contact with tungsten pre-make contact
<b>Follow-up time</b>	15 sec – 30 min, Pulse	15 sec – 30 min, Pulse	15 sec – 30 min, Pulse	15 sec – 30 min, Pulse	10 sec – 18 h
<b>Orientation light</b>	–	–	–	–	20 – 100 % / OFF / 10 s – 18 h
<b>Night light</b>	–	–	–	–	20 – 100 % / 10 sec – 18 h / ∞
<b>Switch-on threshold</b>	10 – 2000 Lux	10 – 2000 Lux	10 – 2000 Lux	10 – 2000 Lux	10 – 2000 Lux
<b>Brightness set value</b>	–	–	–	–	–
<b>Switching power</b>	<b>Channel 2</b> –	<b>Channel 2 (HVAC control potential-free (dry))</b> 3 A (230 V), cos φ = 1 1x µ-contact, dry NO contact 5 min – 120 min, Alarm pulse, Pulse	<b>Channel 2 (HVAC control potential-free (dry))</b> 3 A; cos φ = 1 1x µ-contact, dry NO contact 5 min – 120 min, Alarm pulse, Pulse	<b>Channel 2 (HVAC control potential-free (dry))</b> 0.1 A; cos φ = 1 with Reed relay 1x µ-contact, dry NO contact 5 min – 120 min, Alarm pulse, Pulse	<b>Channel 2</b> –
<b>Type of contact</b>	–	–	–	–	–
<b>Follow-up time</b>	–	–	–	–	–
<b>Mixed light measuring</b>	Mixed light measuring	Mixed light measuring	Mixed light measuring	Mixed light measuring	Mixed light measuring
<b>Degree of protection</b>	FC = IP20 / SM = IP20 / FM = IP20	FC = IP20 / SM = IP20 / FM = IP20	FC = IP20 / SM = IP20	FC = IP20 / SM = IP20	FC = IP20
<b>Protection class</b>	Class II	Class II	Class II	Class II	Class II
<b>Item number</b>	FC = 92565 white mat, similar to RAL9010 SM = 92550 white mat, similar to RAL9010 FM = 92555 white mat, similar to RAL9010	FC = 92165 white mat, similar to RAL9010 SM = 92150 white mat, similar to RAL9010 FM = 92155 white mat, similar to RAL9010	FC = 92164 white mat, similar to RAL9010 SM = 92154 white mat, similar to RAL9010	FC = 92306 white mat, similar to RAL9010 SM = 92305 white mat, similar to RAL9010	FC = 94055 white mat, similar to RAL9010
<b>Comprehensive product information</b>					

## Ceiling-mounted presence detectors



## Ceiling-mounted presence detectors



## Ceiling-mounted presence detectors



PD4-M-2C-DS	PD4-M-3C-TRIO	PD4-M-1C-C
<ul style="list-style-type: none"> <li>■ Presence detector connectable to two different phases</li> <li>■ 2 channels for switching light: the illumination system can be divided into two separate groups being electrically isolated.</li> <li>■ Version as master device</li> </ul> <p>110 – 240 V AC 50 / 60 Hz &lt; 1.5 W horizontal 360° (Ceiling mounting) max. Ø 24 m across max. Ø 9 m towards max. Ø 8 m seated 450 m² / 2.5 m mounting height 2 m / 10 m / 2.5 m IK04 -25 °C to +50 °C polycarbonate, UV-resistant 0.5 ... 1.5 mm² rigid</p>	<ul style="list-style-type: none"> <li>■ Presence detector particularly for classrooms and training classrooms</li> <li>■ Two contacts, one of them dry, for two groups of light, separate switching possible</li> <li>■ One potential-free contact for blackboard illumination or HVAC</li> </ul> <p>110 – 240 V AC 50 / 60 Hz approx. 0.5 W horizontal 360° (Ceiling mounting) 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 IK04 -25 °C to +50 °C polycarbonate, UV-resistant</p>	<ul style="list-style-type: none"> <li>■ Presence detector designed for corridors</li> <li>■ One potential-free (dry) switching contact</li> <li>■ Version as master device</li> </ul> <p>110 – 240 V AC 50 / 60 Hz approx. 0.5 W horizontal 360° (Ceiling mounting) 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 IK04 -25 °C to +50 °C polycarbonate, UV-resistant</p>
<b>Channel 1 and Channel 2 (lighting control)</b>	<b>Channel 1 (lighting control)</b>	<b>Channel 1 (lighting control, potential-free (dry))</b>
2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A 2x µ-contact, NO contact with tungsten pre-make contact 15 sec – 60 min, Pulse 10 – 2000 Lux	3000 W, cos φ = 1 1500 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A 1x µ-contact, NO contact with tungsten pre-make contact – 10 – 2000 Lux	2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A 1x µ-contact, dry NO contact with tungsten pre-make contact 15 sec – 30 min, Pulse 10 – 2000 Lux
<b>Channel 2</b>	<b>Channel 2 (lighting control potential-free (dry))</b>	<b>Channel 2</b>
– – –	– 1x µ-contact, dry NO contact with tungsten pre-make contact –	– – –
<b>Channel 3</b>	<b>Channel 3 (HVAC control or lighting control, potential-free (dry))</b>	<b>Channel 3</b>
– – –	3000 W, cos φ = 1 1500 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20ms) = 120 A 1x µ-contact, dry NO contact	– – –
Mixed light measuring FC = IP20 / SM = IP20 Class II FC = 92760 white mat, similar to RAL9010 SM = 92761 white mat, similar to RAL9010	<b>Channel 1 to channel 3</b> 1 min – 90 min Mixed light measuring FC = IP20 / SM = IP20 Class II FC = 92745 white mat, similar to RAL9010 SM = 92740 white mat, similar to RAL9010	Mixed light measuring FC = IP20 / SM = IP54 Class II FC = 92586 white mat, similar to RAL9010 SM = 92587 white mat, similar to RAL9010
		

## Ceiling-mounted presence detectors



### Technical Data

	PD4-M-2C-C	PD4-M-1C-C-PS	PD4-M-TRIO-C-3P	PD4-M-1C-GH	BL2-PLUS
Product information	<ul style="list-style-type: none"> <li>Presence detector designed for corridors</li> <li>One channel for light switching</li> <li>One additional potential-free (dry) contact for HVAC</li> </ul>	<ul style="list-style-type: none"> <li>Presence detector with NO contact and safety circuit by NC contact</li> <li>Guarantees illumination even if sensor fails</li> <li>Designed for corridors</li> </ul>	<ul style="list-style-type: none"> <li>1-channel presence detector with two simultaneously operating relay outputs, which enable distribution to different phases</li> <li>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.</li> <li>The device requires an operating voltage. The third phase can be used for this purpose.</li> </ul>	<ul style="list-style-type: none"> <li>Presence detector designed for high-bay warehouses</li> <li>One potential-free (dry) switching contact</li> <li>Version as master device</li> </ul>	<ul style="list-style-type: none"> <li>Remote control-capable presence detector for inside use with circular detection area</li> <li>For mounting in suspended ceilings</li> <li>One channel for light switching</li> </ul>
Voltage	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	110 – 240 V 50 / 60 Hz
Power consumption	< 0.5 W	approx. 0.7 W	approx. 0.5 W	approx. 0.5 W	0.3 W
Detection area	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° oval (Ceiling mounting)	horizontal 360°
Range	max. Ø 40 m across max. Ø 20 m towards	max. Ø 40 m across max. Ø 20 m towards	max. Ø 40 m across max. Ø 20 m towards	max. Ø 40 m across max. Ø 20 m towards	max. Ø 8 m across max. Ø 4.8 m towards max. Ø 3.2 m seated
Monitored area (tangential movement)	250 m <sup>2</sup> / 2.5 m mounting height	250 m <sup>2</sup> / 2.5 m mounting height	250 m <sup>2</sup> / 2.5 m mounting height	440 m <sup>2</sup> / 14 m mounting height	50 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	2.4 m / 2.6 m / 2.5 m	2.4 m / 2.6 m / 2.5 m	2.4 m / 2.6 m / 2.5 m	5 m / 16 m / 14 m	2 m / 5 m / 2.5 m
Impact strength	IK04	IK04	IK04	IK04	-
Ambient temperature	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
Connections and wires	-	-	-	-	0.5 – 1.5 mm <sup>2</sup> for solid conductors
Switching power	<b>Channel 1 (lighting control)</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A	<b>Channel 1 (lighting control)</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 120 A	<b>Channel 1 (lighting control, potential-free (dry))</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 300 W LED	<b>Channel 1 (lighting control, potential-free (dry))</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A	<b>Channel 1 (lighting control)</b> 1000 W, cos φ = 1 500 VA, cos φ = 0.5 400 W LED
Type of contact	1x µ-contact, NO contact with tungsten pre-make contact	1x µ-contact, NO contact with tungsten pre-make contact, additional NC-safety contact	2x µ-contact, dry Contact NC with tungsten pre-make contact	1x µ-contact, dry NO contact with tungsten pre-make contact	1x µ-contact, NO contact
Follow-up time	15 sec – 30 min, Pulse	15 sec – 30 min, Pulse	15 sec – 30 min, Pulse	15 sec – 30 min, Pulse	15 sec – 30 min
Switch-on threshold	10 – 2000 Lux	10 – 2000 Lux	10 – 2000 Lux	20 – 2000 Lux	10 – 2000 Lux
Switching power	<b>Channel 2 (HVAC control potential-free (dry))</b> 3 A (230 V), cos φ = 1	<b>Channel 2</b> -	<b>Channel 2</b> -	<b>Channel 2</b> -	<b>Channel 2</b> -
Type of contact	1x µ-contact, dry NO contact	-	-	-	-
Follow-up time	5 min – 120 min, Alarm pulse, Pulse	-	-	-	-
Degree of protection	Mixed light measuring	Mixed light measuring	Mixed light measuring	Mixed light measuring	Mixed light measuring
Protection class	FC = IP20 / SM = IP54	FC = IP20 / SM = IP54	FC = IP20 / SM = IP20	SM = IP20	FC = IP23
Item number	Class II FC = 92143 white mat, similar to RAL9010 SM = 92440 white mat, similar to RAL9010	Class II FC = 92480 white mat, similar to RAL9010 SM = 92485 white mat, similar to RAL9010	Class II FC = 92746 white mat, similar to RAL9010 SM = 92747 white mat, similar to RAL9010	Class II SM = 92245 white mat, similar to RAL9010	Class II FC = 93405 white
Comprehensive product information					

## Ceiling-mounted presence detectors



## Ceiling-mounted presence detectors



### Technical Data

	BL4-PLUS	PD9-M-1C	PD9-M-1C-SDB-IP65	PD11-M-1C-FLAT	PICO-N-M-1C
<b>Product information</b>	<ul style="list-style-type: none"> <li>■ Remote control-capable presence detector for inside use with circular detection area</li> <li>■ For mounting in suspended ceilings</li> <li>■ One channel for light switching</li> </ul>	<ul style="list-style-type: none"> <li>■ Mini-presence detector</li> <li>■ One channel for light switching</li> <li>■ Version as master device</li> </ul>	<ul style="list-style-type: none"> <li>■ Mini-presence detector designed for high-humidity locations</li> <li>■ One potential-free (dry) switching contact</li> <li>■ Version as master device</li> </ul>	<ul style="list-style-type: none"> <li>■ Particularly flat presence detector without additional power supply</li> <li>■ Visible portion when built into ceiling: height 0.85 mm</li> <li>■ One channel for light switching</li> </ul>	<ul style="list-style-type: none"> <li>■ Mini-presence detector, no additional power unit, suitable for high-humidity locations</li> <li>■ One channel for light switching</li> <li>■ Manual switching via push-button possible</li> </ul>
<b>Voltage</b>	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	230 V AC ±10% 50 Hz	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz
<b>Power consumption</b>	approx. 0.3 W	approx. 0.5 W	2.2 W	approx. 0.3 W	approx. 0.35 W
<b>Detection area</b>	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
<b>Range</b>	max. Ø 19 m across max. Ø 6.4 m towards max. Ø 5 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 9 m across max. Ø 6 m towards max. Ø 3 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated
<b>Monitored area (tangential movement)</b>	280 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	63 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m
<b>Impact strength</b>	IK04	IK03	IK03	IK02	IK04
<b>Ambient temperature</b>	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C
<b>Housing</b>	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
<b>Cable length</b>	–	45 cm, screened	–	–	140 cm
<b>Connections and wires</b>	0.5 – 2.5 mm <sup>2</sup> for solid conductors	–	–	–	–
<b>Switching power</b>	<b>Channel 1 (lighting control)</b> 1000 W, cos φ = 1 500 VA, cos φ = 0.5 400 W LED  2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A	<b>Channel 1 (lighting control)</b> 1x µ-contact, NO contact  5 min – 30 min, Pulse	<b>Channel 1 (lighting control, potential-free (dry))</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20 ms) = 80 A	<b>Channel 1 (lighting control)</b> 1x µ-contact, dry NO contact  15 sec – 30 min, Pulse	<b>Channel 1 (lighting control)</b> 2300 W, cos φ = 1 1150 VA, cos φ = 0.5 400 W LED  max. inrush current Ip (20 ms) = 165 A max. inrush current Ip (200 µs) = 800 A
<b>Type of contact</b>	1x µ-contact, NO contact	1x µ-contact, NO contact with tungsten pre-make contact	–	1x µ-contact, NO contact with tungsten pre-make contact	1x µ-contact, NO contact
<b>Follow-up time</b>	15 sec – 30 min	5 min – 30 min, Pulse	–	5 min – 30 min, Pulse	15 sec – 30 min, Pulse
<b>Switch-on threshold</b>	10 – 2000 Lux	20 – 1000 Lux	20 – 1500 Lux	20 – 2000 Lux	10 – 2000 Lux
<b>Degree of protection</b>	FC = IP20	Mixed light measuring	Mixed light measuring	Mixed light measuring	Mixed light measuring
<b>Protection class</b>	Class II	FC = IP20	FC = IP65	FC = IP20	FC = IP65
<b>Item number</b>	FC = 93404 white mat, similar to RAL9010	FC = 92900 white mat, similar to RAL9010	FC = 92912 white mat, similar to RAL9010	FC = 92583 white mat, similar to RAL9010	FC = 93159 white mat, similar to RAL9010
<b>Comprehensive product information</b>					

## Ceiling-mounted presence detectors



# DALI COMPACT



## The all-in-one solution for lighting control

B.E.G. has revamped its range of compact DALI detectors. Generation 2 introduces a powerful range of stand-alone devices. The devices, with integrated application controllers and a DALI BUS power supply, are optimised to the maximum. Available in four colour variants, versatile in application, digitally readable and controllable, the DALI-2 certified products impress with their unobtrusive appearance and outstanding flexibility.

The communication protocol impresses with its robustness and ease of installation, and the new DALI-2 certification process adds forward-looking stability. Previously, only operating devices had to comply with the standard. With DALI-2, device types such as application controllers, push buttons, light sensors and motion sensors (so-called control devices) are also defined in the standard. This makes it possible to combine products from different manufacturers, put them into operation and avoid errors.

## Presence detectors DALI Compact



### Technical Data

Product information	<ul style="list-style-type: none"> <li>Presence detector with integrated DALI application controller for energy-efficient lighting control</li> <li>DALI-2 certified product</li> <li>Integrated DALI power supply</li> </ul>
Voltage	230 V AC ±10% 50 Hz
Power consumption	approx. 2 W
slave devices	up to 8
Detection area	horizontal 360° (Ceiling mounting)
Range	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated
Monitored area (tangential movement)	78 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	2 m / 5 m / 2.5 m
Impact strength	IK05
Ambient temperature	-25 °C to +50 °C
Housing	polycarbonate, UV-resistant
DALI output	80 mA (guaranteed), 125 mA (max.), shut down mechanism
supported control gear	DTO, DT5, DT6, DT7
supported control devices	- (single master)
Follow-up time	1 min - 150 min
Orientation light	10 - 30 % / OFF / 5 min - 60 min / ∞
Brightness set value	10 - 2500 Lux
Switching power	Channel 2
Type of contact	-
Follow-up time	-
Degree of protection	Mixed light measuring
Protection class	FC = IP20
Item number	Class II
Comprehensive product information	FC = 93452 white mat, similar to RAL9010



## Presence detectors DALI Compact



### Technical Data

Product information	<ul style="list-style-type: none"> <li>Presence detector with integrated DALI application controller for energy-efficient lighting control</li> <li>2 channels</li> <li>DALI-2 certified product</li> </ul>
Voltage	230 V AC ±10% 50 Hz
Power consumption	approx. 3 W
slave devices	up to 4
Detection area	horizontal 360° (Ceiling mounting)
Range	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated
Monitored area (tangential movement)	78 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	2 m / 5 m / 2.5 m
Impact strength	IK05
Ambient temperature	-25 °C to +50 °C
Housing	polycarbonate, UV-resistant
DALI output	40 mA (guaranteed), 60 mA (max.), shut down mechanism
supported control gear	DTO, DT5, DT6, DT7
supported control devices	- (single master)
Follow-up time	1 min - 150 min
Orientation light	10 - 30 % / OFF / 5 min - 60 min / ∞
Brightness set value	10 - 2500 Lux
Switching power	Channel 2
Type of contact	-
Follow-up time	-
Degree of protection	Mixed light measuring
Protection class	FC = IP20
Item number	Class II
Comprehensive product information	FC = 93453 white mat, similar to RAL9010



## Presence detectors DALI Compact



### Technical Data

#### Product information

#### PD4N-M-DACO-DUO DALI-2

- Presence detector with integrated DALI application controller for energy-efficient lighting control
- 2 channels
- DALI-2 certified product

#### PD4-M-HCL2-SM DALI-2

- Bidirectional presence detector with integrated DALI application controller for an energy-efficient and biologically effective light control (Human Centric Lighting)
- Integrated DALI power supply and 3 push-button inputs
- Preset and freely adjustable HCL curves (12 anchor points per 24h)

#### Voltage

230 V AC  $\pm 10\%$  50 Hz

#### Power consumption

approx. 3 W

#### slave devices

up to 4

#### Detection area

horizontal 360° (Ceiling mounting)

#### Range

max. Ø 24 m across  
max. Ø 8 m towards  
max. Ø 6.4 m seated

#### Monitored area (tangential movement)

450 m<sup>2</sup> / 2.5 m mounting height

#### Mounting height min./max./recommended

2 m / 10 m / 2.5 m

#### Impact strength

IK04

#### Ambient temperature

-25 °C to +50 °C

#### Housing

polycarbonate, UV-resistant

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

#### DALI output

40 mA (guaranteed), 60 mA (max.), shut down mechanism

#### supported control gear

DT0, DT5, DT6, DT7

#### supported control devices

- (single master)

#### Follow-up time

1 min - 150 min

#### Orientation light

5 - 100 % / OFF / 5 min - 60 min /  $\infty$

#### Brightness set value

10 - 2500 Lux

#### -

#### Switching power

-

#### Type of contact

-

#### Follow-up time

-

#### Switching power

-

#### Follow-up time

-

#### Brightness set value

-

#### Pulse interval

Mixed light measuring

#### Degree of protection

FC = IP20

#### Protection class

Class II

#### Item number

FC = 93461 white mat, similar to RAL9010

SM = 93485 white mat, similar to RAL9010

#### Comprehensive product information



## Presence detectors DALI Compact



### Technical Data

#### PD4-M-DAA4G

- Flexible DALI Compact solution designed for conference rooms, training rooms and classrooms
- High-sensitivity presence 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

110 – 240 V AC 50 / 60 Hz

approx. 0.4 W

-

horizontal 360° (Ceiling mounting)

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

IK04

-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 (Lighting zones)

10 – 30 % / OFF / 5 min – 60 min /  $\infty$

10 – 2000 Lux

#### Relay (dry NO)

2300 W, cos  $\varphi$  = 1  
1150 VA, cos  $\varphi$  = 0.5

800 W LED  
max. inrush current  $I_p$  (20 ms) = 165 A,  $I_p$  (200  $\mu$ s) = 800 A

1x  $\mu$ -contact, NO contact

5 sec – 120 min (HVAC)

#### Channel 3

-

-

-

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#### Mixed light measuring

-

FC = IP20 / SM = IP20

Class II

FC = 92591 white mat, similar to RAL9010

SM = 92743 white mat, similar to RAL9010

FC = 92721 white mat, similar to RAL9010

SM = 92759 white mat, similar to RAL9010

FC = IP20 / SM = IP54

Class II

FC = 92759 white mat, similar to RAL9010

SM = 92759 white mat, similar to RAL9010



#### PD4-S-DAA4G

- 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

22 V DC via DALI Bus

-

-

horizontal 360° (Ceiling mounting)

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

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

up to 4 slave devices in combination with one PD4-M-DAA4G

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## Presence detectors DALI Compact



### Technical Data

	PD4-M-TRIO-2DALI/DSI-1C	PD4-M-DACO-GH-SM DALI-2	PD9-M-DACO-FC DALI-2	PD11-M-DACO-FLAT DALI-2
<b>Product information</b>	<ul style="list-style-type: none"> <li>Presence detector for two separate lighting groups, for daylight-dependent lighting control</li> <li>One potential-free switching channel for control of equipment (HVAC) or lighting</li> <li>Two independent, movable light sensors</li> </ul>	<ul style="list-style-type: none"> <li>Presence detector for large heights with integrated DALI application controller for energy-efficient lighting control</li> <li>External telescopic light sensor for a mounting height between 5 and 16 m (mechanically adjustable) for measuring the light according to the application.</li> <li>DALI-2 certified product</li> </ul>	<ul style="list-style-type: none"> <li>Mini presence detector with integrated DALI application controller for energy-efficient lighting control</li> <li>DALI-2 certified product</li> <li>Integrated DALI power supply</li> </ul>	<ul style="list-style-type: none"> <li>Presence detector with integrated DALI application controller for energy-efficient lighting control</li> <li>DALI-2 certified product</li> <li>Integrated DALI power supply</li> </ul>
<b>Voltage</b>	110 – 240 V AC 50 / 60 Hz	230 V AC $\pm 10\%$ 50 Hz	230 V AC $\pm 10\%$ 50 Hz	230 V AC $\pm 10\%$ 50 Hz
<b>Power consumption</b>	approx. 2 W	approx. 2 W	approx. 2 W	approx. 2 W
<b>slave devices</b>	–	up to 8	up to 8	up to 8
<b>Detection area</b>	horizontal 360° (Ceiling mounting)	horizontal 360° oval (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
<b>Range</b>	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	30 m x 19 m	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 9 m across max. Ø 6 m towards max. Ø 3 m seated
<b>Monitored area (tangential movement)</b>	450 m <sup>2</sup> / 2.5 m mounting height	440 m <sup>2</sup> / 14 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	63 m <sup>2</sup> / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 10 m / 2.5 m	5 m / 16 m / 14 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m
<b>Impact strength</b>	IK04	IK04	IK03	IK02
<b>Ambient temperature</b>	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C
<b>Housing</b>	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
<b>Cable length</b>	–	–	50 cm	50 cm
<b>DALI output</b>	up to 25 DALI / DSI-EB per channel	Channel 1 (lighting control) 80 mA (guaranteed), 125 mA (max.), shut down mechanism DTO, DT5, DT6, DT7 - (single master) 1 min – 150 min	Channel 1 (lighting control) 80 mA (guaranteed), 125 mA (max.), shut down mechanism DTO, DT5, DT6, DT7 - (single master) 1 min – 150 min	Channel 1 (lighting control) 80 mA (guaranteed), 125 mA (max.), shut down mechanism DTO, DT5, DT6, DT7 - (single master) 1 min – 150 min
<b>supported control gear</b>	–	–	–	–
<b>supported control devices</b>	–	–	–	–
<b>Follow-up time</b>	–	–	–	–
<b>Orientation light</b>	10 – 30 % / OFF / 1 min – 60 min / ∞	10 – 30 % / OFF / 5 min – 60 min / ∞	10 – 30 % / OFF / 5 min – 60 min / ∞	10 – 30 % / OFF / 5 min – 60 min / ∞
<b>Brightness set value</b>	–	10 – 2500 Lux	10 – 2500 Lux	10 – 2500 Lux
<b>Switching power</b>	3000 W, cos φ = 1 1500 VA, cos φ = 0.5 800 W LED max. inrush current Ip (20ms) = 165 A, (200 µs) = 800 A	Channel 3 –	Channel 3 –	Channel 3 –
<b>Type of contact</b>	1x µ-contact, dry NO contact with tungsten pre-make contact	–	–	–
<b>Follow-up time</b>	1 min – 60 min	–	–	–
<b>Brightness set value</b>	10 – 2000 Lux	Mixed light measuring	Mixed light measuring	Mixed light measuring
<b>Degree of protection</b>	Mixed light measuring	SM = IP20	FC = IP20	FC = IP20
<b>Protection class</b>	SM = IP54	Class II	Class II	Class II
<b>Item number</b>	Class II	SM = 92751 white mat, similar to RAL9010	FC = 93469 white mat, similar to RAL9010	FC = 93470 white mat, similar to RAL9010
<b>Comprehensive product information</b>				

## Presence detectors DALI Compact



## Slave



### Technical Data

	PD2-S	PD2N-S	PD4-S	PD4N-S	PD4-S-C
<b>Product information</b>	<ul style="list-style-type: none"> <li>Slave device with circular detection area</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>	<ul style="list-style-type: none"> <li>Slave device with circular detection area</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>	<ul style="list-style-type: none"> <li>Slave device with extended detection area</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>	<ul style="list-style-type: none"> <li>Slave device with extended detection area</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>	<ul style="list-style-type: none"> <li>Slave device designed for corridors</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>
<b>Voltage</b>	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz
<b>Power consumption</b>	approx. 0.2 W	approx. 0.2 W	approx. 0.2 W	approx. 0.2 W	approx. 0.2 W
<b>Detection area</b>	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)			
<b>Range</b>	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	max. Ø 40 m across max. Ø 20 m towards
<b>Monitored area (tangential movement)</b>	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	450 m <sup>2</sup> / 2.5 m mounting height	450 m <sup>2</sup> / 2.5 m mounting height	250 m <sup>2</sup> / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 10 m / 2.5 m	2 m / 10 m / 2.5 m	2.4 m / 2.6 m / 2.5 m
<b>Impact strength</b>	IK05	IK05	IK04	IK04	IK04
<b>Ambient temperature</b>	-25 °C to +50 °C	-25 °C to +50 °C			
<b>Housing</b>	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
<b>Pulse interval</b>	2 or 9 sec	2 or 9 sec			
<b>Degree of protection</b>	FC = IP20 / SM = IP20 / FM = IP20	FC = IP20	FC = IP20 / SM = IP54 / FM = IP20	FC = IP20	FC = IP20 / SM = IP54
<b>Protection class</b>	Class II	Class II	Class II	Class II	Class II
<b>Item number</b>	FC = 92166 white mat, similar to RAL9010 SM = 92152 white mat, similar to RAL9010 FM = 92156 white mat, similar to RAL9010	FC = 93240 white mat, similar to RAL9010	FC = 92254 white mat, similar to RAL9010 SM = 92142 white mat, similar to RAL9010 FM = 92163 white mat, similar to RAL9010		FC = 92444 white mat, similar to RAL9010 SM = 92442 white mat, similar to RAL9010
<b>Comprehensive product information</b>					

## Slave



### Technical Data

	PD4-S	PD4N-S	PD4-S-C
<b>Product information</b>	<ul style="list-style-type: none"> <li>Slave device with extended detection area</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>	<ul style="list-style-type: none"> <li>Slave device with extended detection area</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>	<ul style="list-style-type: none"> <li>Slave device with extended detection area</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>
<b>Voltage</b>	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz
<b>Power consumption</b>	approx. 0.2 W	approx. 0.2 W	approx. 0.2 W
<b>Detection area</b>	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
<b>Range</b>	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	max. Ø 40 m across max. Ø 20 m towards
<b>Monitored area (tangential movement)</b>	450 m <sup>2</sup> / 2.5 m mounting height	450 m <sup>2</sup> / 2.5 m mounting height	250 m <sup>2</sup> / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 10 m / 2.5 m	2 m / 10 m / 2.5 m	2.4 m / 2.6 m / 2.5 m
<b>Impact strength</b>	IK04	IK04	IK04
<b>Ambient temperature</b>	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C
<b>Housing</b>	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
<b>Pulse interval</b>	2 or 9 sec	2 or 9 sec	2 or 9 sec
<b>Degree of protection</b>	FC = IP20 / SM = IP54 / FM = IP20	FC = IP20	FC = IP20 / SM = IP54
<b>Protection class</b>	Class II	Class II	Class II
<b>Item number</b>	FC = 92254 white mat, similar to RAL9010 SM = 92142 white mat, similar to RAL9010 FM = 92163 white mat, similar to RAL9010		FC = 92444 white mat, similar to RAL9010 SM = 92442 white mat, similar to RAL9010
<b>Comprehensive product information</b>			

## Slave



### Technical Data

	PD4-S-GH	PD9-S
Product information	<ul style="list-style-type: none"> <li>Slave device for high-bay applications</li> <li>For extending the detection area of a Master device</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>	<ul style="list-style-type: none"> <li>Mini slave device for extending the detection area of a master device</li> <li>Power supply passes through the hole in the ceiling for the detector (34 mm Ø)</li> <li>Trigger pulse to master device upon detected movement independent of the ambient light level</li> </ul>
Voltage	110 – 240 V AC 50 / 60 Hz	110 – 240 V AC 50 / 60 Hz
Power consumption	approx. 0.2 W	approx. 0.2 W
Detection area	horizontal 360° oval (Ceiling mounting)	horizontal 360° (Ceiling mounting)
Range	30 m x 19 m max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated
Monitored area (tangential movement)	440 m <sup>2</sup> / 14 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	5 m / 16 m / 14 m	2 m / 5 m / 2.5 m
Impact strength	IK04	IK03
Ambient temperature	-25 °C to +50 °C	-25 °C to +50 °C
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant
Cable length	–	45 cm
Pulse interval	2 or 9 sec	9 sec
Degree of protection	SM = IP54	FC = IP20
Protection class	Class II	Class II
Item number	SM = 92265 white mat, similar to RAL9010	FC = 92905 white mat, similar to RAL9010
Comprehensive product information		



### PD9-S-SDB

- Slave device especially for moisture-proof applications, suitable to miniature presence detector PD9-M-1C-SDB-IP65-FC
- For extending the detection area of a Master device
- Trigger pulse to master device upon detected movement independent of the ambient light level



### PD11-S-FLAT

- 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



### PICO-S

- 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



### FC = IP65

- 
- 
- 350 cm
- 
- 9 sec
- FC = IP20
- Class II
- FC = 92593 white, similar to RAL9010



### FC = IP20

- 
- 
- max. Ø 9 m across
- max. Ø 6 m towards
- max. Ø 3 m seated
- 78 m<sup>2</sup> / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IK03
- 
- 
- 9 sec
- FC = IP65
- Class II
- FC = 92593 white, similar to RAL9010



### FC = IP65

- 
- 
- max. Ø 10 m across
- max. Ø 6 m towards
- max. Ø 4 m seated
- 78 m<sup>2</sup> / 2.5 m mounting height
- 2 m / 5 m / 2.5 m
- IK04
- 
- 
- 9 sec
- FC = IP65
- Class II
- FC = 92700 white mat, similar to RAL9010

## Slave

## Sensors



PD2N-LTMS

<b>Product information</b>	
<b>Voltage</b>	16 – 48 V DC
<b>Power consumption</b>	< 1 W
<b>Detection area</b>	horizontal 360° (Ceiling mounting)
<b>Range</b>	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated
<b>Monitored area (tangential movement)</b>	78 m <sup>2</sup> / 2.5 m mounting height
<b>Mounting height min./max./recommended</b>	2 m / 5 m / 2.5 m
<b>Impact strength</b>	IK05
<b>Measured light output</b>	0 – 1000 Lux, 0-10 V, ca. 10 mV/Lux
<b>Temperatur output</b>	0 °C – +50 °C, 0-10 V, ca. 200 mV/°C
<b>Ambient temperature</b>	0 °C to +50 °C
<b>Housing</b>	polycarbonate, UV-resistant
<b>Cable length</b>	–
<b>Channel 1</b>	
<b>Switching power</b>	48 V DC / 3 A, cos φ = 1
<b>Type of contact</b>	μ-contact, dry NO contact
<b>Follow-up time</b>	15 sec – 30 min, Pulse
<b>Degree of protection</b>	Mixed light measuring
<b>Protection class</b>	FC = IP20
<b>Item number</b>	Class II FC = 92113 white mat, similar to RAL9010
<b>Comprehensive product information</b>	
	



PD2N-LTMS-RR

- Multi-sensor for acquisition of data concerning presence (presence), temperature, and brightness.
- For integration into proprietary bus system
- Output of motion detection via switch contact

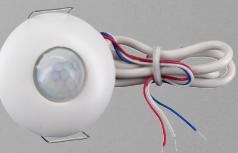
16 - 48 V DC  
< 1 W  
horizontal 360° (Ceiling mounting)  
max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seated  
78 m<sup>2</sup> / 2.5 m mounting height  
2 m / 5 m / 2.5 m  
IK05  
0 - 1000 Lux, 0-10 V, ca. 10 mV/Lux  
0 °C - +50 °C, 0-10 V, ca. 200 mV/°C  
0 °C to +50 °C  
polycarbonate, 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  
FC = IP20  
Class II  
FC = 92119 white mat, similar to RAL9010

## Sensors



PD11-LTMS-RR

uper flat multi-sensor for acquisition of data concerning presence (presence), temperature, and brightness or integration into proprietary bus system	■ Mini-motion detector ■ For integration into building automation systems ■ Output 24V DC / 0.5mA
output of motion detection via switch contact	
48 V DC	24 V DC
ox. 0.4 W	-
ontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
Ø 9 m across	max. Ø 10 m across
Ø 6 m towards	max. Ø 6 m towards
Ø 3 m seated	max. Ø 4 m seated
² / 2.5 m mounting height	78 m² / 2.5 m mounting height
/ 5 m / 2.5 m	2 m / 5 m / 2.5 m
000 Lux, 0-10 V, approx. 10 mV / Lux	IK03
- +50 °C, 0-10 V, approx. 200 mV/°C	-
to +50 °C	-
carbonate, UV-resistant	-5 °C to +45 °C
<b>annel 1 (lighting control, potential-free (dry))</b>	polycarbonate, UV-resistant
DC / 0.1 A , cos φ = 1	350 mm
contact, dry NO contact	<b>Channel 1</b>
- 60 min	24V DC / 0.5mA
d light measuring	-
IP20	-
II	-
92594 white mat, similar to RAL9010	FC = IP20 / FC = IP20
	Class II
	FC = 93210 white, similar to RAL9010
	FC = 93211 white, similar to RAL9010



PD9-SH-24V

Mini-motion detector  
For integration into building automation  
systems  
Output 24V DC / 0.5mA

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V DC

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Horizontal 360° (Ceiling mounting)  
ax. Ø 10 m across  
ax. Ø 6 m towards  
ax. Ø 4 m seated

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m<sup>2</sup> / 2.5 m mounting height

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m / 5 m / 2.5 m

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03

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°C to +45 °C

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ycarbonate, UV-resistant

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0 mm

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annel 1

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V DC / 0.5mA

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T = IP20 / FC = IP20

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ass II

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= 93210 white, similar to RAL9010

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= 93211 white, similar to RAL9010

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## Sensors



### Technical Data

	PD9-SH-24V-2W	OCCULOG-1C
Product information	<ul style="list-style-type: none"> <li>■ motion detector</li> <li>■ For integration into building automation systems</li> <li>■ Output 24V DC / 0.5mA</li> </ul>	<ul style="list-style-type: none"> <li>■ VOC indicator for good air quality</li> <li>■ Thanks to the coloured LED display, the current air quality can be quickly recognised even from a distance by means of the LED colours.</li> <li>■ Traffic light function: red - ventilation mandatory, yellow - ventilation recommended, green - good air quality.</li> </ul>
Voltage	24 V DC	110 – 240 V AC 50 / 60 Hz
Power consumption	-	approx. 1W
Detection area	horizontal 360° (Ceiling mounting)	-
Range	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	-
Monitored area (tangential movement)	78 m <sup>2</sup> / 2.5 m mounting height	-
Mounting height min./max./recommended	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m
Impact strength	IK03	IK05
Ambient temperature	-5 °C to +45 °C	-5 °C to +45 °C
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant
Cable length	350 mm	-
Connections and wires	-	0.5 – 2.5 mm <sup>2</sup> for solid conductors 0.5 – 2.5 mm <sup>2</sup> fine-wired
Switching power	24 V DC / 100mA Pulse	1000 W / 6 A, cos φ = 1 800 W LED
Type of contact	-	μ-contact, dry NO contact
Switch-on delay	-	-
Switch-off delay	-	-
Switch-on and -off delay	-	-
Switch-on threshold	-	-
Degree of protection	FC = IP20	FC = IP20
Protection class	Class II	Class II
Item number	FC = 93213 white, similar to RAL9010	FC = 93563 white mat, similar to RAL9010
Comprehensive product information		

## Photoelectric switches



### CdS-T

- 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

110 – 240 V AC 50 / 60 Hz

< 0.5 W

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## Photoelectric switches

		
Technical Data		
Product information	CdS-R	TS-DD
	<ul style="list-style-type: none"> <li>Photoelectric switch with switch relay</li> <li>For retrofitting in outdoor lights and for use in branch boxes</li> <li>Continuously variable twilight value</li> </ul>	<ul style="list-style-type: none"> <li>Photoelectric switch set for DIN rail</li> <li>LED adjustment aid (without delay) for adjustment of the switch-on threshold</li> <li>Electronic component for installation onto DIN rail for convenient adjustment in the control cabinet</li> </ul>
Voltage	110 – 240 V AC 50 / 60 Hz	230 V AC +/- 10% 50 Hz
Typ. power input	–	10 mA
Power consumption	< 0.5 W	–
Ambient temperature	-25 °C to +50 °C	Light sensor -35 °C to +50 °C Electronical unit -10 °C to +40 °C
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant
Switching power	<b>Channel 1 (lighting control)</b> 1000 W, cos φ = 1 350 VA, cos φ = 0.4	<b>Channel 1 (lighting control)</b> Resistive loads 1000 W, cos φ = 1 Fluorescent lamps parallel compensated 600 W LV halogen lamps 450 W
Type of contact	1x µ-contact, NO contact	1x NO contact
Switch-on delay	–	approx. 8 s
Switch-off delay	–	approx. 40 s
Switch-on and -off delay	10 s - 15 s	–
Switch-on threshold	2 – 100 Lux	1 – 100 Lux / 50 – 1000 Lux
Degree of protection	IP54	IP54
Protection class	Class II	Class II
Item number	92365 black mat, similar to RAL9005	92681 white glossy, similar to RAL7047
Comprehensive product information		



B.E.G.

Feel comfortable in your building

# Aleum Glow

HIGHLIGHT  
YOUR HOME  
THROUGH  
MOTION



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



- Timeless, clear design, high-quality technology
- Available in two colour variants
- 'Glow', selectable ambient lighting
- r = 3 m to r = 16 m detection range
- Electronically and mechanically adjustable range

# BUILDING AUTOMATION



68



## Building automation with B.E.G. sensors and actuators

Buildings have always provided protection from external influences. We spend a large part of our lives here. B.E.G. develops automation solutions and products that increase the well-being of building users – for example, through a pleasant indoor climate, shading and lighting that supports the natural biorhythm.

By connecting photovoltaics, heating, air conditioning, ventilation, lighting, emergency and access systems, building functions interact with each other to form an automated unit. This building automation helps to reduce energy consumption, lower operating costs and manage buildings sustainably. Building automation is therefore the basis for every green building.

## KNX function matrix

## KNX function matrix

DESCRIPTION	PD2N			PD4N			PD4-GH			PD9(-GH)		PD11		PICO		PD5N	Indoor 180		RC-plus next N
	BA <sup>1</sup>	ST <sup>2</sup>	DX <sup>3</sup>	BA <sup>1</sup>	ST <sup>2</sup>	DX <sup>3</sup>	DX <sup>3</sup>	DX <sup>3</sup>	ST <sup>2</sup>	DX <sup>3</sup>	ST <sup>2</sup>	DX <sup>3</sup>	ST <sup>2</sup>	DX <sup>3</sup>	DX <sup>3</sup>	ST <sup>2</sup>	DX <sup>3</sup>	DX <sup>3</sup>	
Requirements																			
Number of light sensors	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	1	1	1	
Number of motion sensors	1	1	1	4	4	4	3	1	1	1	1	1	1	1	2	1	1	3	
Number of HVAC outputs	●	3	3	●	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
PIR sensitivity adjustment	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Bidirectional remote control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
end-user remote control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
temperature sensor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
noise sensor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
logic module	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
presence simulation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Internal orientation light	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
slave output	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
slave input	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
switching operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
normal operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Semi-automatic/fully automatic	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
lighting scenes	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
offset operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
orientation light function	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
burn-in function	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Parameter changes via object	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Self-adjustment of the follow-up time	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
brief attendance	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
direction detection	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Daylight-dependent switch-off	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
HCL/RGB control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
KNX Secure	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

<sup>1</sup>Basic – as a cost-effective solution for simple requirements

<sup>2</sup>Standard – a comprehensive solution for common requirements

<sup>3</sup>Deluxe – the premium solution for demanding requirements

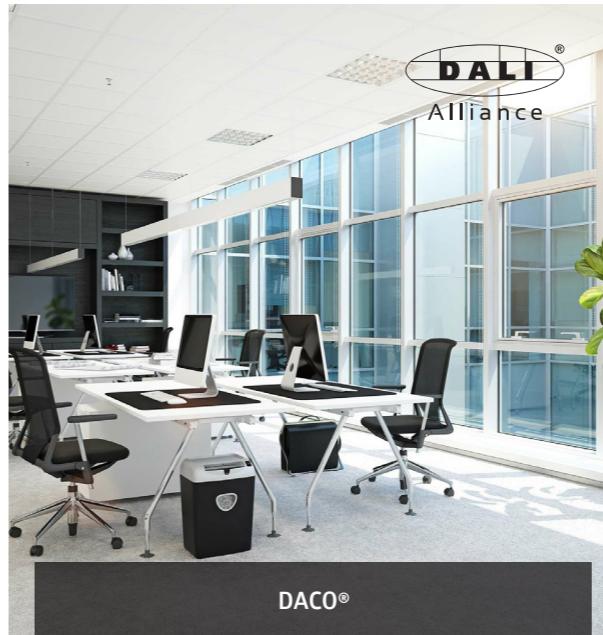
## Function matrix DALI

DESCRIPTION	DALI COMPACT			DALI-LINK				
	DACO®	DAA4G	HCL2	DALI-LINK BLE	DALI-LINK KNX	DALI-SYS BACnet	BMS	CASAMBI
<b>Requirements</b>								
Reduce energy consumption	●	●	●	●	●	●	●	●
Monitoring the energy consumption of lights	●	●	●	●	●	●	●	●
Monitor operating hours of lights	●	●	●	●	●	●	●	●
Light value (lux) can be read out in a standardized way via DALI-BUS	●	●	●	●	●	●	●	●
Presence status can be read out in a standardized manner via DALI-BUS	●	●	●	●	●	●	●	●
Button status can be read out in a standardized way via DALI-BUS	●	●	●	●	●	●	●	●
Presence-dependent switching of lights	●	●	●	●	●	●	●	●
Presence-dependent switching of HVAC	●	●	●	●	●	●	●	●
Daylight-dependent switching of lights	●	●	●	●	●	●	●	●
Daylight-dependent control (closed loop) of light	●	●	●	●	●	●	●	●
Orientation light	●	●	●	●	●	●	●	●
Soft start (glare protection when switching on)	●	●	●	●	●	●	●	●
HCL (Time-dependent colour temperature and light intensity)	●	●	●	●	●	●	●	●
Timer function	●	●	●	●	●	●	●	●
Suitable for applications with folding doors	●	●	●	●	●	●	●	●
Classroom function	●	●	●	●	●	●	●	●
Emergency lighting management	●	●	●	●	●	●	●	●
<b>Solution features</b>								
Open (can be networked with other systems)	●	●	●	●	●	●	●	●
Ideal for single-room applications	●	●	●	●	●	●	●	●
Ideal for multi-room applications	●	●	●	●	●	●	●	●
Ideal for building applications	●	●	●	●	●	●	●	●
Suitable for simple overall requirements	●	●	●	●	●	●	●	●
Suitable for high overall requirements	●	●	●	●	●	●	●	●
Suitable for complex overall requirements	●	●	●	●	●	●	●	●
<b>Commissioning interface</b>								
Infrared remote control (unidirectional)	●	●	●	●	●	●	●	●
BLE/IR adapter (unidirectional)	●	●	●	●	●	●	●	●
BLE/IR adapter (bidirectional)	●	●	●	●	●	●	●	●
LAN	●	●	●	●	●	●	●	●
BLE	●	●	●	●	●	●	●	●
ETS/KNX BUS	●	●	●	●	●	●	●	●
DALI-2 Configuration Tool/DALI BUS	●	●	●	●	●	●	●	●
<b>Operation during ongoing operations</b>								
Via conventional push button (normally open contact)	●	●	●	●	●	●	●	●
Via conventional switch (bistable)	●	●	●	●	●	●	●	●
About the mini IR remote control	●	●	●	●	●	●	●	●
Via smartphone (BLE or WiFi)	●	●	●	●	●	●	●	●
Via Windows PC (BLE or LAN/WiFi)	●	●	●	●	●	●	●	●

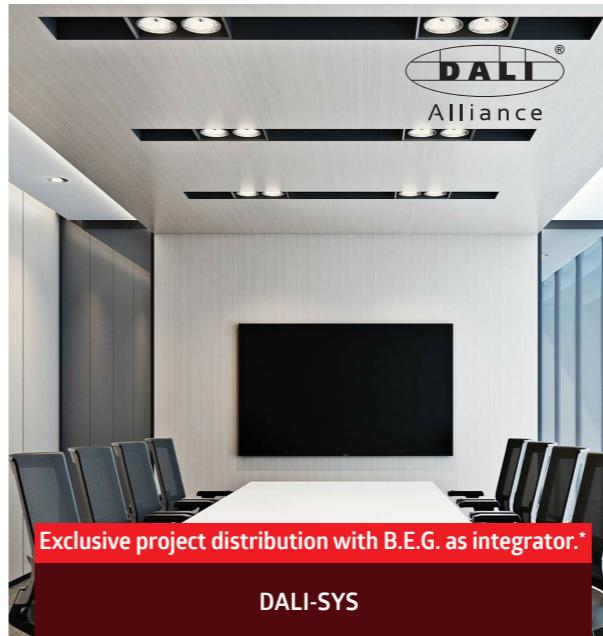
● Yes

● Depending on additional device(s)

● No

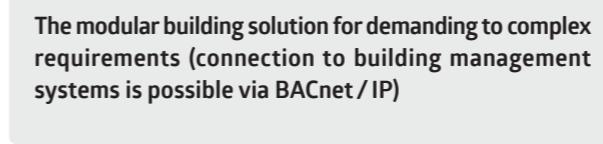


DACO®

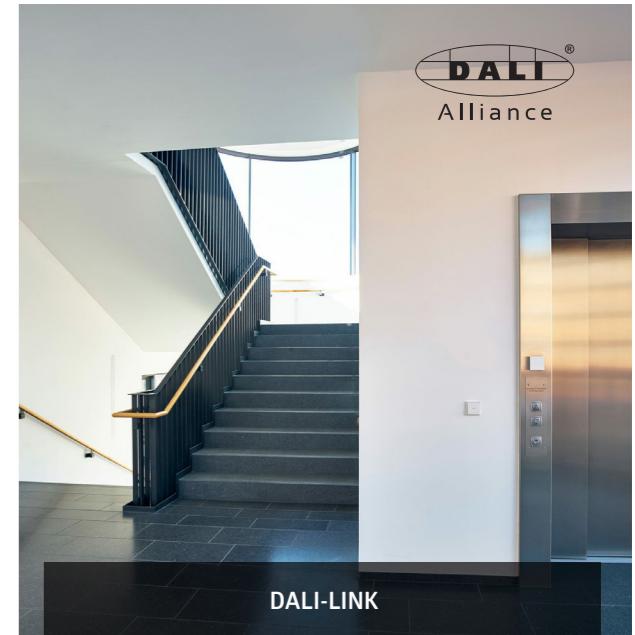


Exclusive project distribution with B.E.G. as integrator.\*

DALI-SYS



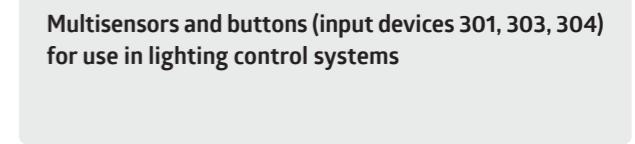
The modular building solution for demanding to complex requirements (connection to building management systems is possible via BACnet / IP)



DALI-LINK



BMS DALI-2



Multisensors and buttons (input devices 301, 303, 304) for use in lighting control systems

\*Products in this product family can only be ordered after a pre-approved release process by B.E.G. Project Sales. Please contact B.E.G. or your direct B.E.G. contact person for further information.

## Function matrix DALI



## Technical Data

	PD2N-KNXs-BA	PD2N-KNXs-ST	PD2N-KNXs-DX	PD2N-KNXs-OCCULOG-DX	PD4N-KNXs-BA
Product information	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus connector</li> <li>KNX Secure ready</li> <li>Individual adaption of the PIR sensor sensitivity</li> </ul>	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus connector</li> <li>KNX Secure ready</li> <li>Parameterisation from ETS 5 for integration into KNX systems</li> </ul>	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus connector</li> <li>KNX Secure ready</li> <li>HCL/RGB control</li> </ul>	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus connector</li> <li>Low installation depth</li> <li>1 x Light (for regulating or switching), 1 x slave output, 3 separate HVAC-blocs</li> </ul>	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus connector</li> <li>KNX Secure ready</li> <li>Individual adaption of detection sensitivity for each PIR sensor</li> </ul>
Voltage	via KNX BUS	via KNX BUS	via KNX BUS	via KNX BUS	via KNX BUS
Typ. power input	12 mA	12 mA	12 mA	25 mA	12 mA
Detection area	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
Range	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated
Monitored area (tangential movement)	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	450 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 10 m / 2.5 m
Impact strength	IK05	IK05	IK05	IK05	IK04
Temperature measurement range	-	-	-5 °C to +45 °C	-5 °C to +45 °C	-25 °C to +55 °C
Ambient temperature	-25 °C to +55 °C	-25 °C to +55 °C	-25 °C to +55 °C	-25 °C to +55 °C	polycarbonate, UV-resistant
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
Number of light sensors	2	2	2	2	2
Number of PIR sensors	1	1	1	1	4
KNX TP 256	Yes	Yes	Yes	Yes	Yes
Orientation light	-	5 – 100 % / OFF / 1 min – 255 min	5 – 100 % / OFF / 1 min – 255 min	5 – 100 % / OFF / 1 min – 255 min	-
Night light	-	5 – 100 %	5 – 100 %	5 – 100 %	-
Brightness set value	5 – 2000 Lux	5 – 2000 Lux	5 – 2000 Lux	5 – 2000 Lux	5 – 2000 Lux
Degree of protection	FC = IP20 / FM = IP20	FC = IP20 / FM = IP20	FC = IP20 / FM = IP20	FC = IP20 / FM = IP20	FC = IP20 / FM = IP20
Protection class	Class III	Class III	Class III	Class III	Class III
Item number	FC = 93533 white mat, similar to RAL9010 FM = 93534 white mat, similar to RAL9010	FC = 93510 white mat, similar to RAL9010 FM = 93511 white mat, similar to RAL9010	FC = 93512 white mat, similar to RAL9010 FM = 93513 white mat, similar to RAL9010	FC = 93530 white mat, similar to RAL9010 FM = 93531 white mat, similar to RAL9010	FC = 93535 white mat, similar to RAL9010 FM = 93536 white mat, similar to RAL9010
Comprehensive product information					





## Technical Data

	PD4N-KNXs-ST	PD4N-KNXs-DX	PD4-KNXs-GH-DX	PD5N-LAMELLA-KNXs-DX	PICO-KNXs-ST
Product information	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus connector</li> <li>KNX Secure ready</li> <li>Parameterisation from ETS 5 for integration into KNX systems</li> </ul>	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus connector</li> <li>KNX Secure ready</li> <li>HCL/RGB control</li> </ul>	<ul style="list-style-type: none"> <li>KNX presence detector designed for high-bay warehouses, with integrated KNX bus connector</li> <li>KNX Secure ready</li> <li>HCL/RGB control</li> </ul>	<ul style="list-style-type: none"> <li>KNX sensor for installation in slatted ceilings or luminaires</li> <li>KNX Secure ready</li> <li>HCL/RGB control</li> </ul>	<ul style="list-style-type: none"> <li>KNX mini presence detector with integrated bus connector</li> <li>KNX Secure ready</li> <li>Parameterisation from ETS 5 for integration into KNX systems</li> </ul>
Voltage	via KNX BUS	via KNX BUS	via KNX BUS	via KNX BUS	via KNX BUS
Typ. power input	12 mA	12 mA	12 mA	12 mA	12 mA
Detection area	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° oval (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
Range	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	30 m x 19 m	110 m² / 2.5 m mounting height	78 m² / 2.5 m mounting height
Monitored area (tangential movement)	450 m² / 2.5 m mounting height	450 m² / 2.5 m mounting height	440 m² / 14 m mounting height	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m
Mounting height min./max./recommended	2 m / 10 m / 2.5 m	2 m / 10 m / 2.5 m	5 m / 16 m / 14 m	IK04	IK04
Impact strength	IK04	IK04	IK04	-	-
Temperature measurement range	-5 °C to +45 °C	-25 °C to +55 °C	-5 °C to +45 °C	-25 °C to +55 °C	-25 °C to +55 °C
Ambient temperature	-25 °C to +55 °C	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
Housing	polycarbonate, UV-resistant	2	1	2	1
Number of light sensors	2	4	3	2	1
Number of PIR sensors	4	4	Yes	Yes	Yes
KNX TP 256	Yes	Yes	5 – 100 % / OFF / 1 min – 255 min	5 – 100 % / OFF / 1 min – 255 min	5 – 100 % / OFF / 1 min – 255 min
Orientation light	5 – 100 % / OFF / 1 min – 255 min	5 – 100 % / OFF / 1 min – 255 min	5 – 100 %	5 – 100 %	5 – 100 %
Night light	5 – 100 %	5 – 100 %	5 – 2000 Lux	5 – 2000 Lux	5 – 2000 Lux
Brightness set value	5 – 2000 Lux	5 – 2000 Lux	SM = IP54	IP20	FC = IP20
Degree of protection	FC = IP20 / FM = IP20	FC = IP20 / FM = IP20	Class III	Class III	Class III
Protection class	Class III	FC = 93516 white mat, similar to RAL9010 FM = 93517 white mat, similar to RAL9010	SM = 93518 white mat, similar to RAL9010	93508 white mat, similar to RAL9010 93509 black mat, similar to RAL9005	FC = 93539 white mat, similar to RAL9010
Item number	FC = 93514 white mat, similar to RAL9010 FM = 93515 white mat, similar to RAL9010				
Comprehensive product information					





## Technical Data

## PICO-KNXs-DX

## PD9-KNXs-DX

## PD11-KNXs-FLAT-ST

## PD11-KNXs-FLAT-DX

## Indoor 180-KNXs-ST

## Product information

- KNX mini presence detector with integrated bus connector
- KNX Secure ready
- HCL/RGB control

- KNX mini presence detector with integrated bus connector
- KNX Secure ready
- HCL/RGB control

- Low profile KNX presence detector with integrated KNX bus connector
- KNX Secure ready
- Parameterisation from ETS 5 for integration into KNX systems

- Low profile KNX presence detector with integrated KNX bus connector
- KNX Secure ready
- HCL/RGB control

- KNX presence detector with integrated KNX bus coupler, especially for installation in walls
- KNX Secure ready
- Parameterisation from ETS 5 for integration into KNX systems

## Voltage

via KNX BUS

## Typ. power input

12 mA

12 mA

12 mA

12 mA

12 mA

## Detection area

horizontal 360° (Ceiling mounting)

horizontal 360° (Ceiling mounting)

horizontal 360° (Ceiling mounting)

horizontal 360° (Ceiling mounting)

horizontal 180° (Wall mounting)

## Range

max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seatedmax. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seatedmax. Ø 9 m across  
max. Ø 6 m towards  
max. Ø 3 m seatedmax. Ø 9 m across  
max. Ø 6 m towards  
max. Ø 3 m seatedmax. 10 m across  
max. 3 m towards

## Monitored area (tangential movement)

78 m<sup>2</sup> / 2.5 m mounting height78 m<sup>2</sup> / 2.5 m mounting height63 m<sup>2</sup> / 2.5 m mounting height63 m<sup>2</sup> / 2.5 m mounting height150 m<sup>2</sup> / 1.1 m mounting height

## Mounting height min./max./recommended

2 m / 5 m / 2.5 m

1 m / 2.2 m / 1.1 m

## Impact strength

IK04

IK03

IK02

IK02

IK05

## Temperature measurement range

-5 °C to +45 °C

-5 °C to +45 °C

-25 °C to +55 °C

-25 °C to +55 °C

-25 °C to +55 °C

## Ambient temperature

-25 °C to +55 °C

-25 °C to +55 °C

polycarbonate, UV-resistant

polycarbonate, UV-resistant

polycarbonate, UV-resistant

## Housing

polycarbonate, UV-resistant

polycarbonate, UV-resistant

polycarbonate, UV-resistant

polycarbonate, UV-resistant

polycarbonate, UV-resistant

## Number of light sensors

1

1

1

1

1

## Number of PIR sensors

1

1

1

1

1

## KNX TP 256

Yes

Yes

Yes

Yes

Yes

## Cable length

-

45 cm

-

-

-

## Orientation light

5 – 100 % / OFF / 1 min – 255 min

5 – 100 % / OFF / 1 min – 255 min

5 – 100 % / OFF / 1 min – 255 min

5 – 100 % / OFF / 1 min – 255 min

5 – 100 % / OFF / 1 min – 255 min

## Night light

5 – 100 %

5 – 100 %

5 – 100 %

5 – 100 %

5 – 100 %

## Brightness set value

5 – 2000 Lux

## Degree of protection

FC = IP20

FC = IP20

FC = IP54

FC = IP54

FC = IP20

## Protection class

Class III

Class III

Class III

Class III

Class III

## Item number

FC = 93529 white mat, similar to RAL9010

FC = 93520 white mat, similar to RAL9010

FC = 93522 white mat, similar to RAL9010

FC = 93523 white mat, similar to RAL9010

FM = 93524 –

## Comprehensive product information





## Technical Data

## Indoor 180-KNXs-DX

## RC-plus next N 230 KNXs-DX 230

## PSN-230 / 640 / 30 / KNX REG

## PSN-230 / 1280 / 30 / KNX REG

## UAD1-230/KNXs REG

Product information	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus coupler, especially for installation in walls</li> <li>KNX Secure ready</li> <li>HCL/RGB control</li> </ul>	<ul style="list-style-type: none"> <li>KNX presence detector with integrated KNX bus connector</li> <li>KNX Secure ready</li> <li>Integrated downlight with orientation or a night light (RGB) function</li> </ul>	<ul style="list-style-type: none"> <li>Compact KNX bus power supply SELV with integrated choke</li> <li>Auxiliary voltage unchoked 30V DC</li> <li>Various status indicators via LED</li> </ul>	<ul style="list-style-type: none"> <li>Compact KNX bus power supply SELV with integrated choke</li> <li>Auxiliary voltage unchoked 30V DC</li> <li>Various status indicators via LED</li> </ul>	<ul style="list-style-type: none"> <li>Universal dimming actuator and switching actuator (1-channel)</li> <li>Valve actuator with pulse width modulation (PWM) for thermal actuators</li> <li>KNX Secure ready</li> </ul>
Voltage	via KNX BUS	via KNX BUS	200 – 240 V AC 50 / 60 Hz	200 – 240 V AC 50 / 60 Hz	3 mA
Typ. power input	12 mA	12 mA	–	–	–
Output voltage	–	–	–	–	–
Power consumption	–	–	–	–	–
Detection area	horizontal 180° (Wall mounting)	horizontal 230° (Wall mounting)	–	–	–
Range	max. 10 m across max. 3 m towards	max. 20 m across max. 6 m towards max. 4 m anti-creep protection	–	–	–
Monitored area (tangential movement)	150 m <sup>2</sup> / 1.1 m mounting height	800 m <sup>2</sup> / 2.5 m mounting height	–	–	–
Mounting height min./max./recommended	1 m / 2.2 m / 1.1 m	2 m / 5 m / 2.5 m	–	–	–
Impact strength	IK05	IK03	–	–	–
Temperature measurement range	-5 °C to +45 °C	-20 °C to +45 °C	–	–	–
Ambient temperature	-25 °C to +55 °C	-25 °C to +55 °C	-5 °C to +50 °C	-5 °C to +45 °C	-5 °C to +45 °C
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant (PC)	polycarbonate, UV-resistant (PC)	Polycarbonate
Number of light sensors	1	1	–	–	–
Number of PIR sensors	1	3	–	–	–
Display elements	–	–	Green LED: in operation Red LED: Reset Red LED: overload	Status LED Bus voltage Status LED Output current Status LED Reset	Yes
KNX TP 256	Yes	Yes	Yes	Yes	Yes
Connections and wires	–	–	KNX bus terminal black/red	KNX bus terminal black/red	1x KNX bus terminal black/red
Switching power	–	–	–	–	6 x Screw terminals 0.34 ... 2.5 mm <sup>2</sup> rigid 0.34 ... 2.5 mm <sup>2</sup> fine-wired
Outputs	–	–	–	–	0 - 200 W Resistive loads 0 - 24 W / 4 LED (Phase control) 0 - 100 W / 10 LED (Phase section) For details please see User manual
Orientation light	5 – 100 % / OFF / 1 min – 255 min	5 – 100 % / OFF / 1 min – 255 min	–	–	1x Semiconductor output
Night light	5 – 100 %	5 – 100 %	–	–	–
Brightness set value	5 – 2000 Lux	5 – 2000 Lux	–	–	–
Nominal current	–	–	640 mA	1280 mA	–
Nominal current (max.)	–	–	1300 mA	2620 mA	–
Degree of protection	FM = IP20	IP54	IP20	IP20	IP20
Protection class	Class III	Class III	Class I	Class I	Class II
Item number	FM = 93525 –	93527 white mat, similar to RAL9010 93528 black mat, similar to RAL9005	90214 –	90215 –	90225 –
Comprehensive product information					



## Technical Data

## LK-IP/KNXs REG

## LAN-IF/KNXs REG

## Product information

- Enables the secure forwarding (routing) of telegrams between different lines via a LAN (IP, Ethernet) as a fast backbone.
- As a secure router, the device enables the coupling of unsecured communication on a KNX TP line with a secure IP backbone
- Has an extended filter table for main group 0 to 31 and can buffer up to 150 telegrams

## Voltage

via KNX BUS

## Typ. power input

20 mA

## Power consumption

-

## Ambient temperature

-5 °C to +45 °C

## Housing

polycarbonate, UV-resistant (PC)

## KNX TP 256

Yes

## Connections and wires

1x KNX bus terminal black/red, 1x RJ45 socket (ethernet)

## Degree of protection

IP20

## Protection class

Class III

## Item number

90403 -

## Comprehensive product information



## USB-C-IF/KNX



## LK-TP/KNXs



## BIA4-KNXs REG

## Product information

- The LAN-IF/KNXs REG serves as a secure interface between a LAN (IP, Ethernet) and KNX
- Can be used as programming interface for the ETS
- As KNX Secure Interface (tunneling) the device prevents unauthorized access to the system

## Voltage

via KNX BUS

## Typ. power input

3 mA typical

## Power consumption

0.1 W

## Ambient temperature

-5 °C to +45 °C

## Housing

Polycarbonate

## KNX TP 256

Yes

## Connections and wires

1x KNX bus terminal black/red  
USB type C

## Degree of protection

IP20

## Protection class

Class III

## Item number

90408 -

## Comprehensive product information





Technical Data

BIP4-KNXs REG

## Product information

- Compact binary input with 4 channels for controlling luminaires, blinds, etc
- KNX Secure ready
- Galvanically isolated inputs for potential-free contacts



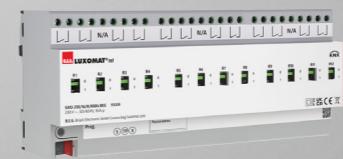
SA4 - 230 / 16 / H / KNXs REG

- Switching actuator for switching loads
- KNX Secure ready
- Industrial quality



SA8 - 230 / 16 / H / KNXs REG

- Switching actuator for switching loads
- KNX Secure ready
- Industrial quality



SA12 - 230 / 16 / H / KNXs REG

- Switching actuator for switching loads
- KNX Secure ready
- Industrial quality



ViSTATION

- Web server for visualisation of KNX installations
- Highlights:  
Visualisation solution without cloud, via IP network (LAN/WLAN) / KNX IP Secure  
Create projects on the PC in the office and load onto customer ViStation  
Operation via most web browsers, such as Chromium Browser (Chrome, Edge, many smartphone browsers), Safari, Mozilla Firefox or via APP (Windows, Android, iOS)
- General:  
PDF status reports by e-mail, sending cycle adjustable  
Project backup as file download  
Automatic backups on ViStation  
Connection to KNX system via IP/TP line coupler  
Quantity of KNX lines is not limited, quantity of KNX devices is decisive  
System status with message counter and report output  
System languages German, English, French, Chinese  
Updateable, free firmware updates in the download area  
Free software for operation in the download area and in the Appstores  
Free ViStation Desktop software as demo for up to 5 KNX devices

Voltage	via KNX BUS
Typ. power input	5 mA
Power consumption	-
Ambient temperature	-5 °C to +45 °C
Housing	polycarbonate, UV-resistant
KNX TP 256	Yes
Connections and wires	1x KNX bus terminal black/red 6 x Screw terminals ( binary input, max. 30m cable length) 0.34 ... 2.5 mm <sup>2</sup> rigid 0.34 ... 2.5 mm <sup>2</sup> fine-wired
Switching power	-
Type of contact	-
Outputs	-
Degree of protection	IP20
Protection class	Class III
Item number	90412 -

Voltage	via KNX BUS
Typ. power input	5 mA
Power consumption	-
Ambient temperature	-5 °C to +45 °C
Housing	polycarbonate, UV-resistant
KNX TP 256	Yes
Connections and wires	1x KNX bus terminal black/red 6 x Screw terminals ( binary input, max. 30m cable length) 0.34 ... 2.5 mm <sup>2</sup> rigid 0.34 ... 2.5 mm <sup>2</sup> fine-wired
Switching power	-
Type of contact	-
Outputs	-
Degree of protection	IP20
Protection class	Class II
Item number	93224 -

## Comprehensive product information



Voltage	via KNX BUS
Typ. power input	5 mA typical 20 mA max.
Power consumption	0.15 W
Ambient temperature	-5 °C to +45 °C
Housing	-
KNX TP 256	Yes
Connections and wires	KNX bus terminal black/red 0.2 ... 4.0 mm <sup>2</sup> rigid 0.25 ... 2.5 mm <sup>2</sup> fine-wired (with or without ferrule)
Switching power	-
Type of contact	-
Outputs	-
Degree of protection	IP20
Protection class	Class II
Item number	93224 -



Voltage	via KNX BUS
Typ. power input	5 mA typical 20 mA max.
Power consumption	0.15 W
Ambient temperature	-5 °C to +45 °C
Housing	-
KNX TP 256	Yes
Connections and wires	KNX bus terminal black/red 0.2 ... 4.0 mm <sup>2</sup> rigid 0.25 ... 2.5 mm <sup>2</sup> fine-wired (with or without ferrule)
Switching power	-
Type of contact	-
Outputs	-
Degree of protection	IP20
Protection class	Class II
Item number	93228 -



Voltage	via KNX BUS
Typ. power input	5 mA typical 20 mA max.
Power consumption	0.15 W
Ambient temperature	-5 °C to +45 °C
Housing	-
KNX TP 256	Yes
Connections and wires	KNX bus terminal black/red 0.2 ... 4.0 mm <sup>2</sup> rigid 0.25 ... 2.5 mm <sup>2</sup> fine-wired (with or without ferrule)
Switching power	-
Type of contact	-
Outputs	-
Degree of protection	IP20
Protection class	Class II
Item number	93328 -



Voltage	5 V DC
Typ. power input	-
Power consumption	max. 5 W
Ambient temperature	0 °C to +45 °C
Housing	Polyamide, UV-resistant
KNX TP 256	-
Connections and wires	Ethernet/LAN
Switching power	-
Type of contact	-
Outputs	-
Degree of protection	-
Protection class	-
Item number	IP20
Comprehensive product information	Class II
	93335 -





## Technical Data

## DA64-230/KNX REG DALI-2

## LK-RF/KNXs

## Product information

- KNX DALI gateway for controlling DALI lights
- DALI-2 certified product
- Each gateway is for controlling and dimming up to 64 electronic ballasts in 16 groups

## Voltage

230 V AC -15/+10% 50 / 60 Hz

## Typ. power input

6 mA (KNX, typical)

## Output voltage

16 V DC (DALI, typical)

## Power consumption

0.9 - 6 W

## Detection area

-

## Range

-

## Monitored area (tangential movement)

-

## Mounting height min./max./recommended

-

## Impact strength

-

## Temperature measurement range

-

## Ambient temperature

-5 °C to +45 °C

## Housing

PA66

## Number of light sensors

-

## Number of PIR sensors

KNX TP 256

## KNX RF 256

-

## Cable length

-

## Connections and wires

KNX bus terminal black/red

## Switching power

-

## Type of contact

-

## Outputs

-

## Orientation light

-

## Night light

-

## Brightness set value

-

## Frequency

-

## Transmit range

-

## Nominal current

160 mA

## Nominal current (max.)

250 mA

## Degree of protection

IP20

## Protection class

Class II

## Item number

93338 -

## Comprehensive product information



## PD2N-RF-KNXs-DX

- KNX RF presence detector
- Communication via KNX RF radio
- KNX Secure ready

230 V AC ±10% 50 / 60 Hz

-

-

1 W

horizontal 360° (Ceiling mounting)

max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seated

78 m² / 2.5 m mounting height

2 m / 5 m / 2.5 m

IK05

-5 °C to +45 °C

-25 °C to +55 °C

polycarbonate, UV-resistant

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Yes

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## Technical Data

## Product information

- Temperature controller and VOC (volatile organic compounds) sensor for KNX bus
- Temperature control: PI controller (continuous), 2-step controller %, 2-step switching, PWM
- Preset temperature curves for different heating/cooling systems

## Voltage

Typ. power input

via KNX BUS

12 mA

## Power consumption

Ambient temperature

-5 °C to +45 °C

Housing

Display elements

Polycarbonate

1x Programming LED, red  
2x Traffic light LED, red/yellow/green  
1x LED, red/blue  
1x LED, green

Manual operation

Programming button, push-button for comfort function, Potentiometer for setpoint adjustment

KNX TP 256

Cable length

Connections and wires

Yes

KNX bus terminal black/red

LED connector

Degree of protection

-

FM = IP20

Protection class

Class III

Item number

FM = 93806 white

Comprehensive product information



## PBM-KNXs-DX-4W

- Binary input or output device (push-button interface) for pattress boxes (60 mm)
- KNX Secure ready
- There are four channels available. Each can either be used as input for a potential-free push-button or switch contact or as binary output for switching a control lamp.

via KNX BUS

9.5 mA (typ.) (Imax parameterisable 12.5 mA or 20 mA)

-

-5 °C to +45 °C

-

Programming LED

-

Yes

270 mm

plug board: 8 pin  
Prefabricated connecting wires (extendable to a total of max. 5 m)

Imax 3.6 mA const. (PWM) LED 3.5 V / 4 mA

FM = IP20 / FM = IP20 / FM = IP20 / FM = IP20

Class III

FM = 93412





## Technical Data

Product information	
Voltage	via DALI Bus, max. 22.5 V DC
Settings	PBM-DALI-LINK-4W-BLE + Smartphone with DALI-LINK App (iOS / Android)
Typ. power input	4 mA
Power consumption	0.1 W
Detection area	horizontal 360° (Ceiling mounting)
Range	max. Ø 9 m across max. Ø 6 m towards max. Ø 3 m seated
Monitored area (tangential movement)	63 m <sup>2</sup> / 2.5 m mounting height
Mounting height min./max./recommended	2 m / 5 m / 2.5 m
Impact strength	IK02
Ambient temperature	-25 °C to +50 °C
Housing	polycarbonate, UV-resistant
Cable length	-
Connections and wires	0.5 – 2.5 mm <sup>2</sup> for solid conductors
Follow-up time	1 sec – 120 min
Orientation light	5 – 100 % / 1 min – 120 min / ∞
Brightness set value	10 – 2500 Lux
Frequency	-
Degree of protection	FC = IP20
Protection class	Class II
Item number	FC = 93068 white mat, similar to RAL9010
Comprehensive product information	

## PD11-DALI-LINK-FLAT

- Low profile DALI multisensor (visible height: 0.85 mm)
- Powered via DALI bus
- Seamless integration in DALI lighting control system B.E.G. LUXOMAT<sup>®</sup>net DALI-LINK as modular multimaster option

## PD4N-DALI-LINK

- Wide range DALI multisensor
- Powered via DALI bus
- Seamless integration in DALI lighting control system B.E.G. LUXOMAT<sup>®</sup>net DALI-LINK as modular multimaster option



## PD4-DALI-LINK-GH

- DALI multisensor for surface mounting in large mounting heights
- Powered via DALI bus
- External telescopic light sensor for a mounting height between 5 and 16 m (mechanically adjustable) for measuring the light according to the application.



## PICO-DALI-LINK

- Mini DALI multisensor with only 11mm installation depth for installation in luminaires
- Powered via DALI bus
- Seamless integration in DALI lighting control system B.E.G. LUXOMAT<sup>®</sup>net DALI-LINK as modular multimaster option



## PBM-DALI-LINK-4W-BLE

- DALI push-button 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. DALI-LINK App.
- 4 inputs for conventional push-buttons, freely configurable

via DALI Bus, max. 22.5 V DC  
Smartphone with DALI-LINK App (iOS / Android)

7 mA

via DALI Bus, max. 22.5 V DC

-

7 mA

horizontal 360° oval (Ceiling mounting)

30 m x 19 m

440 m<sup>2</sup> / 14 m mounting height

5 m / 16 m / 14 m

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

-

1 sec – 120 min

5 – 100 % / 1 min – 120 min / ∞

10 – 2500 Lux

-

SM = IP54

Class II

SM = 93845 white mat

via DALI Bus, max. 22.5 V DC

PBM-DALI-LINK-4W-BLE + Smartphone with DALI-LINK App (iOS / Android)

2 mA

horizontal 360° (Ceiling mounting)

max. Ø 10 m across

max. Ø 6 m towards

max. Ø 4 m seated

78 m<sup>2</sup> / 2.5 m mounting height

2 m / 5 m / 2.5 m

IK04

-25 °C to +50 °C

polycarbonate, UV-resistant

-

-

-

-

10 – 2500 Lux

-

FC = IP20

Class II

FC = 93908 white, similar to RAL9010

2.4 GHz ISM band, GFSK 3 dBm  
IP20  
Class II  
92732 –

1 min – 150 min (staircase mode only)

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92732 –



## Technical Data

## Product information

- Binary DALI input device for installation in in-wall sockets
- 4 inputs for conventional push-buttons, freely configurable
- Operating modes: Standard, staircase or scene mode

## Voltage

via DALI Bus, max. 22 V

## Settings

via DIP switch, HEX switch, B.E.G. BLE App

## Operating system

-

## Typ. power input

7 mA

## Output voltage

-

## Power consumption

-

## Ambient temperature

-25 °C to +50 °C

## Housing

polycarbonate, UV-resistant

## Cable length

50 cm

## Connections and wires

-

## Scope of delivery

1 min – 150 min (staircase mode only)

## Follow-up time

-

## Nominal current

-

## Nominal current (max.)

-

## Degree of protection

FM = IP20

## Protection class

Class II

## Item number

FM = 93396 white

## Comprehensive product information



## PBM-DALI-LINK-4W



## PS-DALI-LINK-FC



## PS-DALI-LINK-USB-REG



## STARTERSET-DALI-LINK-SMALL-OFFICE



## SW-DALI-LINK-BLE-APP



## STARTERSET-DALI-LINK-SMALL-OFFICE

- DALI-LINK Multi Room Solution - Starter Set
- DALI push-button module with 4 binary inputs and integrated Bluetooth gateway for hidden mounting behind flush mount switches.
- Particularly flat, addressable DALI multi sensor with a visible height of only 0.85 mm and with integrated DALI application controller.

110 – 277 V AC

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16 V DC (DALI, typical)

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## Technical Data

## RM1-LINK-REG DALI-2

Product information	<ul style="list-style-type: none"> <li>DIN-rail DALI relay module with 1 switching channel</li> <li>High-output and potential-free contact for loads with high inrush current</li> <li>Integrated application controller with different operating modes</li> </ul>	LC-plus-DALI-SYS 280	<ul style="list-style-type: none"> <li>Wide range DALI multisensor for outdoor</li> <li>Powered via DALI bus</li> <li>Seamless integration in B.E.G. LUX-OMAT®net DALI-SYS</li> </ul>	PD2N-DALI-SYS	<ul style="list-style-type: none"> <li>DALI multisensor</li> <li>Powered via DALI bus</li> <li>Seamless integration in B.E.G. LUX-OMAT®net DALI-SYS</li> </ul>	PD4N-DALI-SYS
Voltage	via DALI Bus, max. 22.5 V DC					
Settings	PBM-DALI-LINK-4W-BLE + Smartphone with DALI-LINK App (iOS / Android)					
Typ. power input	5 mA					
Detection area	–					
Range	–					
Monitored area (tangential movement)	–					
Mounting height min./max./recommended	–					
Impact strength	–					
Ambient temperature	-25 °C to +50 °C					
Housing	polycarbonate, UV-resistant					
Switching power	3000 W, cos φ = 1 1500 VA, cos φ = 0.5					
Type of contact	μ-contact, NO contact					
Follow-up time	1 min – 150 min (Cut-off and HVAC mode only)					
Orientation light	–					
Brightness set value	–					
Light measuring	–					
Degree of protection	IP20					
Protection class	Class II					
Item number	93083 white					
Comprehensive product information						



\*Products in this product family can only be ordered after a pre-approved release process by B.E.G. Project Sales. Please contact B.E.G. or your direct B.E.G. contact person for further information.





## Technical Data

## Product information

- Router with integrated web server and application controller for DIN rail mounting according to DIN EN 60715.
- 4 USB ports for controlling up to 4 separately available B.E.G. application controllers with integrated DALI power supply unit
- 1 LAN port for networking up to 100 devices, up to 400 interconnected DALI lines possible

## Voltage

5 V DC

## Settings

Via integrated web server and compatible web browser

## Typ. power input

-

## Output voltage

-

## Power consumption

max. 5 W

## Ambient temperature

0 °C to +45 °C

## Housing

Polyamide, UV-resistant

## Connections and wires

4 x USB, 1 x LAN

## Switching power

-

## Type of contact

-

## Follow-up time

-

## Nominal current (max.)

-

## Degree of protection

IP20

## Protection class

Class II

## Item number

93480 white

## Comprehensive product information



## ROUTER2-DALI-SYS-REG

## PS-DALI-SYS-USB-REG

230 V AC -15/+10% 50 / 60 Hz

Firmware update function button, B.E.G. PC Tools

-

16 V DC

6 W

+5 °C to +45 °C

Polyamide, UV-resistant

0.2 ... 4.0 mm<sup>2</sup> rigid  
0.25 ... 2.5 mm<sup>2</sup> fine-wired (with or without ferrule),  
USB

-

-

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-

210 mA

IP20

Class II

92843 white



## ViSTATION-DALI-SYS-REG

- Virtual Interface Station - The visualisation and remote server for the B.E.G. LUX-OMAT<sup>®</sup>net DALI-SYS lighting management system
- As standalone solution or for seamless integration into B.E.G. LUXOMAT<sup>®</sup>net DALI-SYS
- Integrated application controller for addressing up to 64 DALI components
- 1 Ethernet/LAN connection

## 5 V DC

-

-

-

max. 5 W

0 °C to +45 °C

Polyamide, UV-resistant

-

-

-

-

-

IP20

Class II

93023 grey



## RM1-SYS-REG DALI-2

- DIN-rail DALI relay module with 1 switching channel
- High-output and potential-free contact for loads with high inrush current
- Seamless integration in B.E.G. LUX-OMAT<sup>®</sup>net DALI-SYS

## 5 V DC

via DALI Bus, max. 22 V DC  
via B.E.G. BLE App, B.E.G. PC Tools, B.E.G. DALI Router

5 mA

-

-

-25 °C to +50 °C

polycarbonate, UV-resistant

-

## Relay

3000 W, cos φ = 1

1500 VA, cos φ = 0.5

μ-contact, NO contact

1 min – 150 min (Cut-off and HVAC mode only)

-

IP20

Class II

93082 white



\*Products in this product family can only be ordered after a pre-approved release process by B.E.G. Project Sales. Please contact B.E.G. or your direct B.E.G. contact person for further information.

All housing combinations and colour options can be found on page 130 onwards and on our website.

\*Products in this product family can only be ordered after a pre-approved release process by B.E.G. Project Sales. Please contact B.E.G. or your direct B.E.G. contact person for further information.

All housing combinations and colour options can be found on page 130 onwards and on our website.



## Technical Data

	PD4N-CAS	PD4N-CAS DALI-2	PD2N-CAS	PD2N-CAS DALI-2	PD4-CAS2-GH
Product information	<ul style="list-style-type: none"> <li>Casambi-enabled presence detector</li> <li>Bright LED indication for commissioning</li> <li>Mixed light measurement with internal and external light sensor</li> </ul>	<ul style="list-style-type: none"> <li>Casambi-enabled presence detector</li> <li>DALI-2 interface for controlling digital dimmable ECGs in broadcast/multicast mode</li> <li>Integrated temperature monitoring and short-circuit detection</li> </ul>	<ul style="list-style-type: none"> <li>Casambi-enabled presence detector</li> <li>Mixed light measurement with internal and external light sensor</li> <li>Weighting between internal and external light sensor can be adapted to suit the application</li> </ul>	<ul style="list-style-type: none"> <li>Casambi-enabled presence detector</li> <li>DALI-2 interface for controlling digital dimmable ECGs in broadcast/multicast mode</li> <li>Integrated temperature monitoring and short-circuit detection</li> </ul>	<ul style="list-style-type: none"> <li>Casambi-enabled presence detector for surface mounting in large mounting heights</li> <li>Bright LED indication for commissioning</li> <li>External telescopic light sensor for a mounting height between 5 and 16 m (mechanically adjustable) for measuring the light according to the application.</li> </ul>
Voltage	230 V AC ±10% 50 Hz	230 V AC ±10% 50 Hz	230 V AC ±10% 50 Hz	230 V AC ±10% 50 Hz	230 V AC ±10% 50 Hz
Settings	Casambi App	Casambi App	Casambi App	Casambi App	Casambi App
Power consumption	0.5 W	0.5 W	0.5 W	0.5 W	0.4 W
Detection area	horizontal 360° oval (Ceiling mounting)	horizontal 360° oval (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)	horizontal 360° (Ceiling mounting)
Range	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	max. Ø 24 m across max. Ø 8 m towards max. Ø 6.4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	max. Ø 10 m across max. Ø 6 m towards max. Ø 4 m seated	440 m <sup>2</sup> / 14 m mounting height 5 m / 16 m / 14 m
Monitored area (tangential movement)	450 m <sup>2</sup> / 2.5 m mounting height	450 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	78 m <sup>2</sup> / 2.5 m mounting height	440 m <sup>2</sup> / 14 m mounting height 5 m / 16 m / 14 m
Mounting height min./max./recommended	2 m / 10 m / 2.5 m	2 m / 10 m / 2.5 m	2 m / 5 m / 2.5 m	2 m / 5 m / 2.5 m	440 m <sup>2</sup> / 14 m mounting height 5 m / 16 m / 14 m
Impact strength	IK04	IK04	IK04	IK04	IK04
Ambient temperature	-5 °C to +45 °C	-5 °C to +45 °C	-5 °C to +45 °C	-5 °C to +45 °C	-5 °C to +45 °C
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant
Number of PIR sensors	4	4	1	1	–
Channel 1 (lighting control)	–	80 mA (guaranteed), 125 mA (max.), shut down mechanism DTO, DT5, DT6, DT7, DT8 - (single master)	–	–	–
DALI output	–	–	–	–	–
supported control gear	–	–	–	–	–
supported control devices	–	–	–	–	–
Follow-up time	1 sec – 60 min	1 sec – 60 min	1 sec – 60 min	1 sec – 60 min	1 sec – 60 min
Brightness set value	1 – 4000 Lux	1 – 4000 Lux	1 – 4000 Lux	1 – 4000 Lux	1 – 4000 Lux
Degree of protection	Mixed light measuring	Mixed light measuring	Mixed light measuring	Mixed light measuring	Mixed light measuring
Protection class	FC = IP20	SM = IP20	FC = IP20	SM = IP20	SM = IP54
Item number	Class II	Class II	Class II	Class II	Class II
Comprehensive product information	FC = 93474 white mat, similar to RAL9010	SM = 93473 white mat, similar to RAL9010	FC = 93477 white mat, similar to RAL9010	93476 white mat, similar to RAL9010	SM = 93479 white mat, similar to RAL9010



## Technical Data

## PD4-CAS2-GH DALI-2

## Product information

- Casambi-enabled presence detector for surface mounting in large mounting heights
- Integrated DALI power supply
- DALI-2 interface for controlling digital dimmable ECGs in broadcast mode

## Voltage Settings

230 V AC ±10% 50 Hz  
Casambi App

## Typ. power input

-

## Settling time

-

## Power consumption

0.4 W

## Detection area

horizontal 360° oval (Ceiling mounting)

## Range

30 m x 19 m

## Monitored area (tangential movement)

440 m<sup>2</sup> / 14 m mounting height

## Mounting height min./max./recommended

5 m / 16 m / 14 m

## Impact strength

IK04

## Measured light output

-

## Ambient temperature

-5 °C to +45 °C  
polycarbonate, UV-resistant

## Housing

polycarbonate, UV-resistant

## DALI output

80 mA (guaranteed), 125 mA (max.), shut down mechanism

## supported control gear

DTO, DT5, DT6, DT7, DT8

## supported control devices

- (single master)

## Follow-up time

1 sec - 60 min

## Brightness set value

1 - 4000 Lux

## Degree of protection

Mixed light measuring

## Protection class

SM = IP54

## Item number

Class II  
SM = 93478 white mat, similar to RAL9010

## Comprehensive product information



Feel comfortable in your building



**New solutions in building control:  
KNX/DALI gateway reduces costs and  
simplifies installation**

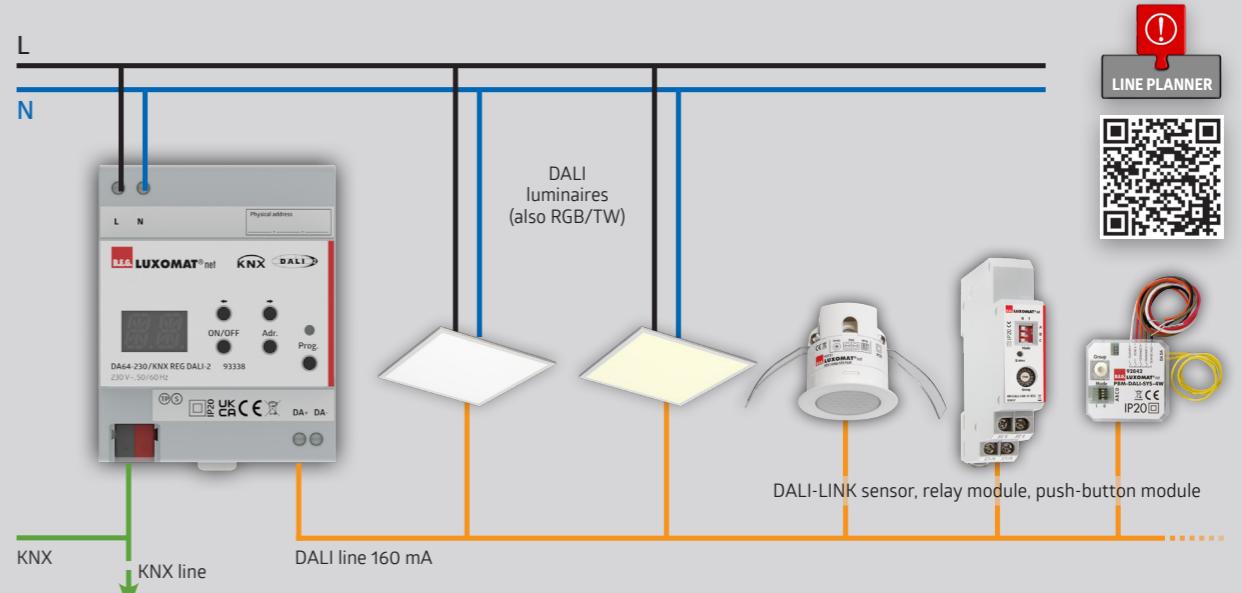
- Combines the advantages of DALI and KNX BUS
- Reduced installation effort
- Includes scene mode and RGB/TW control
- Controls up to 64 ECGs in 16 groups
- Greater flexibility and operational reliability

## Compatible DALI control and operating devices:

**Multisensors:**  
93908 PICO-DALI-LINK  
93068 PD11-DALI-LINK-FLAT  
93377 PD4N-DALI-LINK  
93845 PD4-DALI-LINK-GH

**Push buttons:**  
93396 PBM-DALI-LINK-4W

**Relays:**  
93807 RM-DALI-LINK-1C-REG  
93854 RM-DALI-LINK-4C-REG





## Technical Data

## Product information

- DALI-2 multisensor (input device)
- DALI-2 certified product
- Powered via DALI bus

## Voltage

via DALI Bus, max. 22.5 V DC

## Settings

via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304

## Typ. power input

7 mA

## Settling time

200 ms

## Detection area

horizontal 360° (Ceiling mounting)

## Range

max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seated

## Monitored area (tangential movement)

78 m<sup>2</sup> / 2.5 m mounting height

## Mounting height min./max./recommended

2 m / 5 m / 2.5 m

## Impact strength

IK05

## Measured light output

0 - 4095 Lux, Mixed light measuring

## Ambient temperature

-25 °C to +55 °C

## Housing

polycarbonate, UV-resistant

## Degree of protection

FM = IP20 / FC = IP20

## Protection class

Class II

## Item number

FC = 93543 white, similar to RAL9010  
FM = 93544 white, similar to RAL9010

## Comprehensive product information



## Technical Data

- Long-range DALI-2 multisensor (input device)
- DALI-2 certified product
- Powered via DALI bus

## Voltage

via DALI Bus, max. 22.5 V DC

via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304

## Settings

7 mA

## Settling time

200 ms

## Detection area

horizontal 360° (Ceiling mounting)

## Range

max. Ø 24 m across  
max. Ø 8 m towards  
max. Ø 4 m seated

## Monitored area (tangential movement)

450 m<sup>2</sup> / 2.5 m mounting height

## Mounting height min./max./recommended

2 m / 10 m / 2.5 m

## Impact strength

IK04

## Measured light output

0 - 4095 Lux, Mixed light measuring

## Ambient temperature

-25 °C to +55 °C

## Housing

polycarbonate, UV-resistant

## Degree of protection

IP20

## Protection class

Class II

## Item number

93546 white mat, similar to RAL9010



## Technical Data

- DALI-2 multisensor (input device) for surface mounting in large mounting heights
- DALI-2 certified product
- Powered via DALI bus

## Voltage

via DALI Bus, max. 22.5 V DC

via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304

## Settings

7 mA

## Settling time

200 ms

## Detection area

horizontal 360° oval (Ceiling mounting)

## Range

30 m x 19 m

## Monitored area (tangential movement)

440 m<sup>2</sup> / 14 m mounting height

## Mounting height min./max./recommended

5 m / 16 m / 14 m

## Impact strength

IK04

## Measured light output

0 - 4095 Lux, Mixed light measuring

## Ambient temperature

-25 °C to +50 °C

## Housing

polycarbonate, UV-resistant

## Degree of protection

SM = IP54

## Protection class

## Item number

SM = 93545 white mat, similar to RAL9010



## Technical Data

- Particularly small DALI-2 multisensor (input device) with only 11mm installation depth for installation in luminaires
- DALI-2 certified product
- Powered via DALI bus

## Voltage

via DALI Bus, max. 22.5 V DC

via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304

## Settings

7 mA

## Settling time

200 ms

## Detection area

horizontal 360° (Ceiling mounting)

## Range

max. Ø 10 m across  
max. Ø 6 m towards  
max. Ø 4 m seated

## Monitored area (tangential movement)

78 m<sup>2</sup> / 2.5 m mounting height

## Mounting height min./max./recommended

2 m / 5 m / 2.5 m

## Impact strength

IK04

## Measured light output

0 - 4095 Lux, Mixed light measuring

## Ambient temperature

-25 °C to +50 °C

## Housing

polycarbonate, UV-resistant

## Degree of protection

FC = IP20

## Protection class

## Item number

FC = 93547 white, similar to RAL9010



## Technical Data

- Low profile DALI-2 multisensor (input device) having a visible height of only 0.85 mm
- DALI-2 certified product
- Powered via DALI bus

## Voltage

via DALI Bus, max. 22.5 V DC

via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304

## Settings

7 mA

## Settling time

200 ms

## Detection area

horizontal 360° (Ceiling mounting)

## Range

max. Ø 9 m across  
max. Ø 6 m towards  
max. Ø 3 m seated

## Monitored area (tangential movement)

63 m<sup>2</sup> / 2.5 m mounting height

## Mounting height min./max./recommended

2 m / 5 m / 2.5 m

## Impact strength

IK02

## Measured light output

0 - 4095 Lux, Mixed light measuring

## Ambient temperature

-25 °C to +50 °C

## Housing

polycarbonate, UV-resistant

## Degree of protection

FC = IP20

## Protection class

## Item number

FC = 93542 white mat, similar to RAL9010





Indoor 180-BMS DALI-2



LC-Mini 120-BMS DALI-2



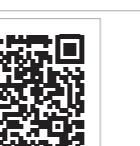
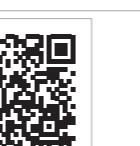
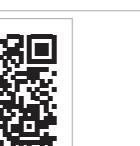
PD5N-LAMELLA-BMS2 DALI-2



IM4-BMS DALI-2



PB-BMS DALI-2

Technical Data	Indoor 180-BMS DALI-2	LC-Mini 120-BMS DALI-2	PD5N-LAMELLA-BMS2 DALI-2	IM4-BMS DALI-2	PB-BMS DALI-2
Product information	<ul style="list-style-type: none"> <li>DALI-2 multisensor (input device), especially for installation in walls</li> <li>DALI-2 certified product</li> <li>Powered via DALI bus</li> </ul>	<ul style="list-style-type: none"> <li>DALI-2 multisensor (input device) with a detection area of 120°</li> <li>DALI-2 certified product</li> <li>Powered via DALI bus</li> </ul>	<ul style="list-style-type: none"> <li>DALI-2 multisensor (input device) for installation in lamella ceilings or luminaires</li> <li>DALI-2 certified product</li> <li>Powered via DALI bus</li> </ul>	<ul style="list-style-type: none"> <li>Binary DALI input device for installation in in-wall sockets</li> <li>4 inputs for conventional push-buttons, freely configurable</li> <li>DALI-2 certified product</li> </ul>	<ul style="list-style-type: none"> <li>Binary input device (multi-point push-button) for use in 60 mm flush-mounted boxes</li> <li>Suitable for switch ranges 55x55</li> <li>Adapter for switch ranges 64x64 included</li> </ul>
Voltage	via DALI Bus, max. 22.5 V DC	via DALI Bus, max. 22.5 V DC	via DALI Bus, max. 22.5 V DC	via DALI Bus, max. 22 V	via DALI Bus, max. 22.5 V DC
Settings	via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304	via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304	via DALI-Bus and application which supports DALI multisensors according to IEC62386, parts 101, 103, 303 and 304	via DALI bus and any software that supports the configuration of existing instance types in accordance with IEC62386	-
Typ. power input	7 mA	7 mA	4.5 mA	4.6 mA	4.6 mA
Settling time	200 ms	200 ms	200 ms	200 ms	200 ms
Power consumption	approx. 0.5 W	approx. 0.5 W	-	-	-
Detection area	horizontal 180° (Wall mounting)	horizontal 120° (Wall mounting)	horizontal 360° (Ceiling mounting)	-	-
Range	max. 10 m across max. 3 m towards	max. 10 m across max. 4 m towards	max. Ø 12 m across max. Ø 5 m towards max. Ø 4 m seated	-	-
Monitored area (tangential movement)	150 m² / 1.1 m mounting height	100 m² / 2.5 m mounting height	110 m² / 2.5 m mounting height	-	-
Mounting height min./max./recommended	1 m / 2.2 m / 1.1 m	2 m / 3 m / 2.5 m	2 m / 5 m / 2.5 m	-	-
Impact strength	IK05	-	-	-	-
Measured light output	0 - 4095 Lux, Mixed light measuring	0 - 4095 Lux, Mixed light measuring	0 - 4095 Lux, Mixed light measuring	-	-
Ambient temperature	-25 °C to +55 °C	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-5 °C to +45 °C
Housing	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	polycarbonate, UV-resistant	Polycarbonate
Display elements	-	-	-	-	(2-8) x LED (status: red, green, flashing)
Manual operation	-	-	-	-	93835: 2 x Push-button function 93836: 4 x Push-button function 93837: 6 x Push-button function 93838: 8 x Push-button function
Cable length	-	-	300 mm	50 cm	-
Connections and wires	-	-	plug WAGO 890-1112	-	-
Degree of protection	IP20	IP44	IP20	FM = IP20	FM = IP20 / FM = IP20 / FM = IP20 / FM = IP20
Protection class	Class II	Class II	Class II	Class II	Class II
Item number	93540 white mat, similar to RAL9010	93541 white mat, similar to RAL9010	93354 white, similar to RAL9010 93358 black, similar to RAL9005	FM = 93359 transparent	FM = 93835 white FM = 93836 white FM = 93837 white FM = 93838 white
Comprehensive product information					



# Script-based\* & cloud-supported-building automation system

Get started in a modern working environment with convenient, cloud-based working, an intuitive user interface and time-saving tools.

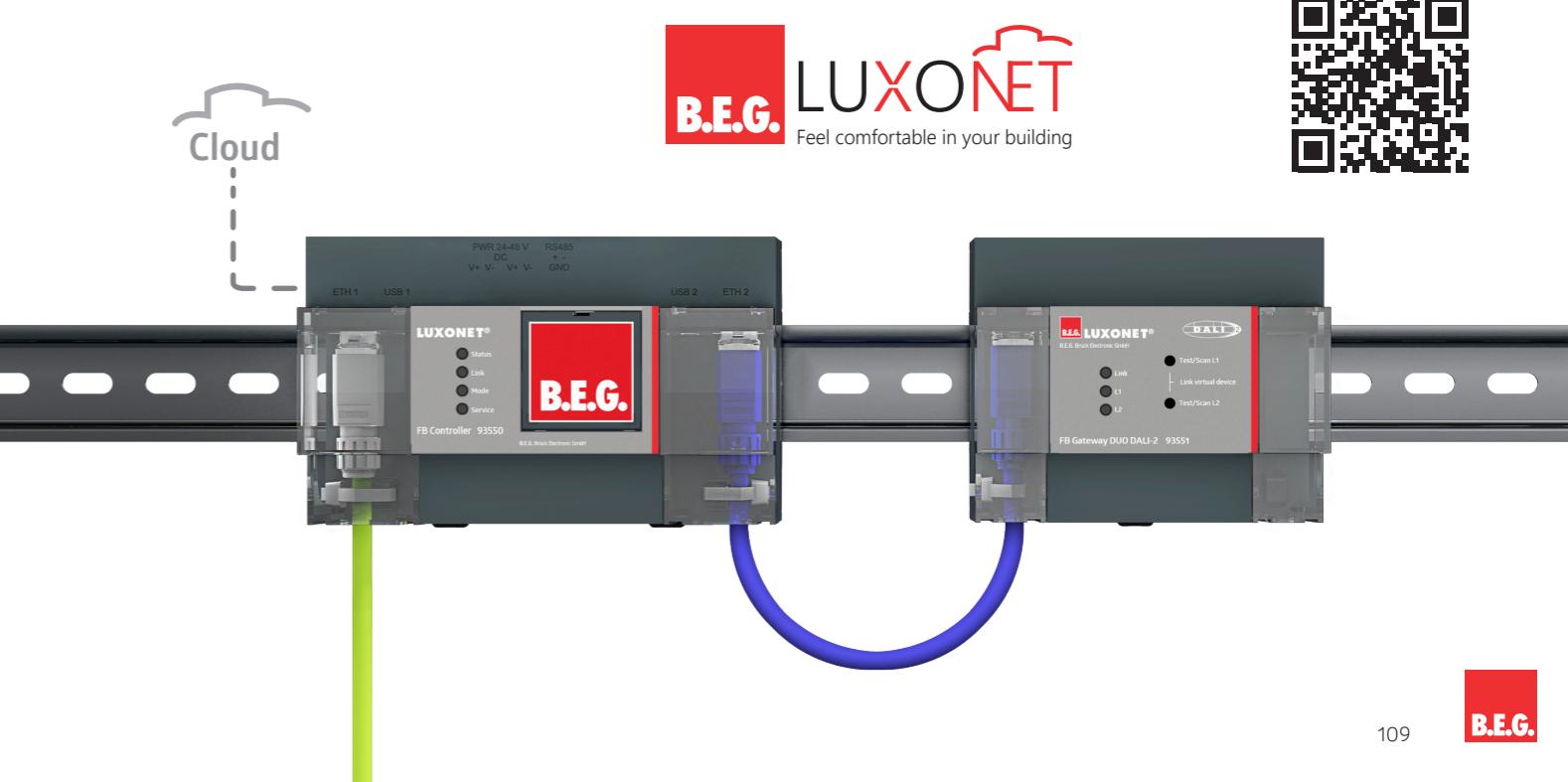
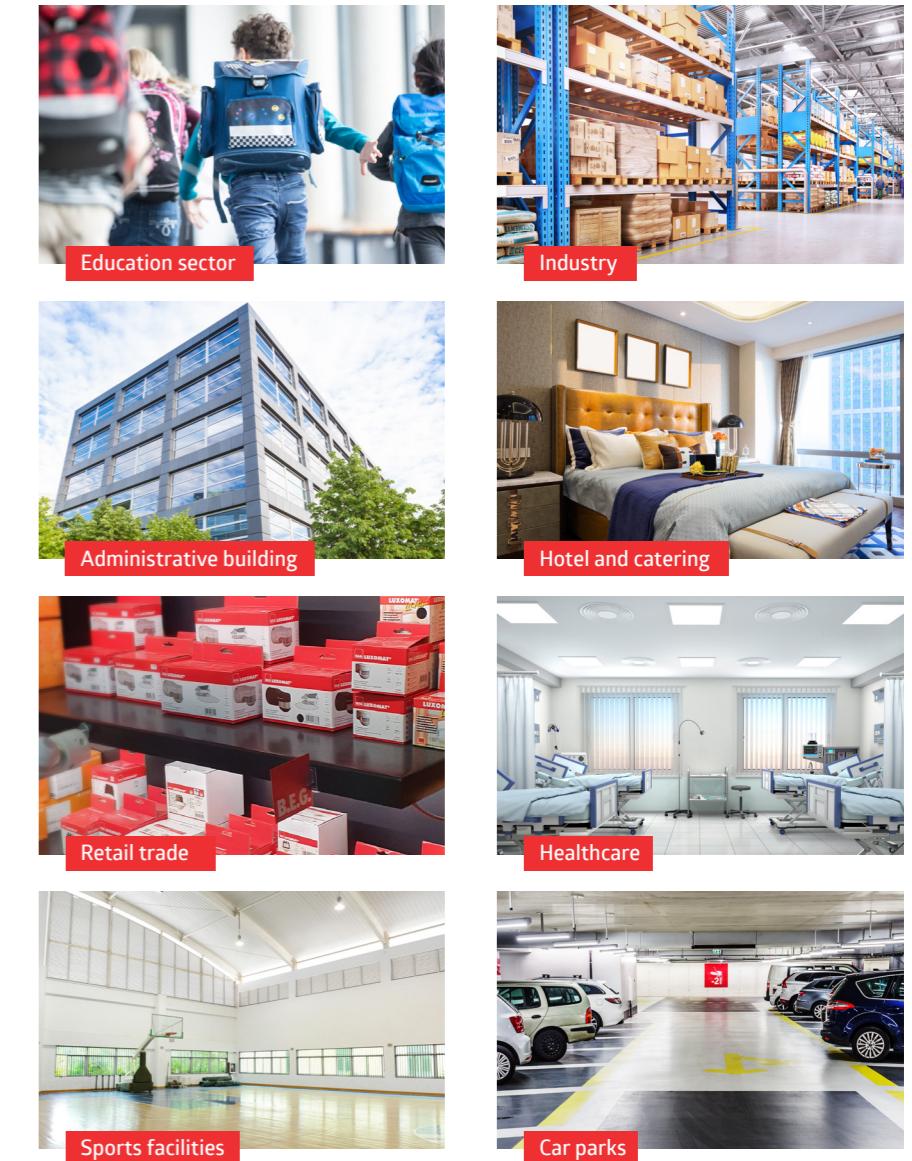
Our innovative building automation system LUXONET® creates efficiency and freedom for our best people! Planners, system integrators and electrical installers can look forward to effective, location-independent working, as well as simplicity and time savings on the construction site. The new LUXONET® thus makes work much easier and offers competitive advantages.

**Working remotely via the Internet** saves time and money and makes your work more comfortable! Numerous tasks, such as project planning and remote maintenance, can be carried out via cloud access.

Various applications are available for download as templates in the library.

You do not need to establish a physical connection to devices or install any software. A floor plan for planning and commissioning provides a convenient overview and speeds up your work processes.

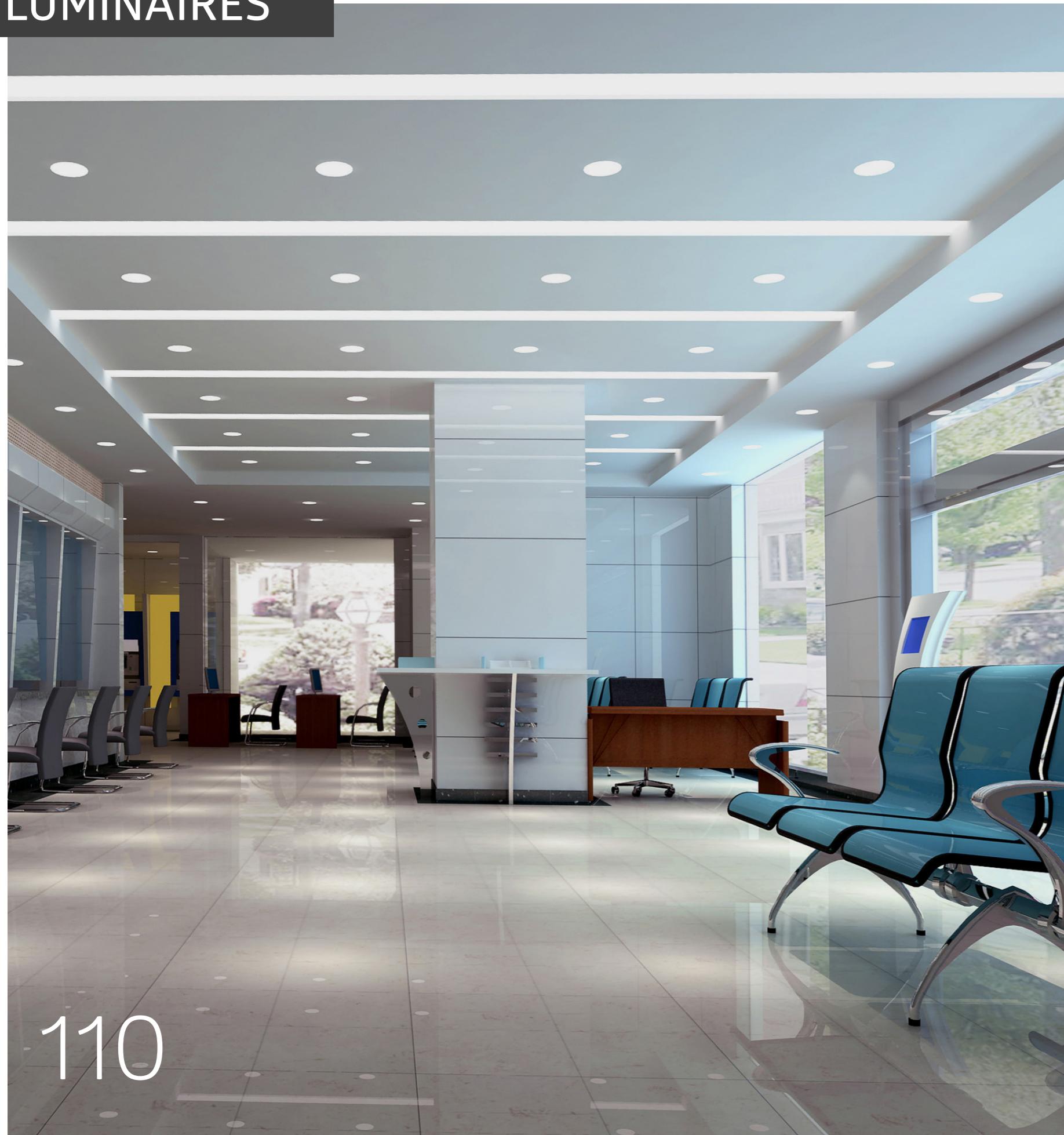
Are you looking for something special? You can always make your own individual settings or adjustments. If necessary, you can also request a more comprehensive outsourcing offer for a room configuration via the B.E.G. Scripting Service. ■



**B.E.G.** **LUXONET**  
Feel comfortable in your building



# LUMINAIRES



110



## Modern lighting with low power consumption

With the right technology, LEDs offer the possibility of achieving high light output with low consumption. The engineers at B.E.G. have developed luminaires that take full advantage of this possibility. In addition to energy savings, the focus is on high functionality, easy installation and contemporary design.

We offer lights with motion detectors based on radar technology. By using this technology with a frequency of 5.8 GHz, movements are detected independently of temperature and in an extremely short time. As detection is also possible through walls, these automatic lights are particularly suitable for applications without direct visual contact.

The B.E.G. LED lights with radar technology retain their original design thanks to the invisibly integrated motion detector. The round lights can be installed quickly and easily in the conventional manner.

## Outdoor luminaires



### Technical Data

#### ALC-B-360

#### SG Oslo

### Product information

- System light lower sections ALC-B-/K with motion detector and twilight switch
- ALC-B combinable with various system glasses. ALC-K includes system glass Crystal!
- Vertical detection range 360° and horizontal detection range 120°

- For freely combining with the system light base ALC-B-360

### Voltage

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

-

### Lamp

max. 100 W with bulb socket E 27

-

### Photobiological safety

RG 0

-

### Ambient temperature

-10 °C to +40 °C

-

### Housing

polycarbonate, UV-resistant

bubble glass - Crystal

### Switching power

1000 W, cos φ = 1

-

500 VA, cos φ = 0.5

-

### Detection area

horizontal 350° (Wall mounting)

-

### Range

max. 10 m across

-

max. 6 m towards

-

max. 4 m anti-creep protection

-

### Follow-up time

4 sec - 10 min

-

### Switch-on threshold

2 - 1000 Lux

-

### Degree of protection

IP44

-

### Protection class

Class II

-

### Item number

91301 white

-

91321 black

94101 transparent

### Comprehensive product information



#### SG Wien



#### SG KR Crystal Spare glass ALC-K



#### AL1 130

- For freely combining with the system light base ALC-B-360

- For freely combining with the system light base ALC-B-360

- AL1 all-purpose light with 130° motion detector
- Additional lights can be switched simultaneously by the one motion detector
- Potentiometer for adjustment of follow-up time and switch-on threshold behind detachable cover

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

max. 60 W with bulb socket E 27

RG 0

-10 °C to +40 °C

polycarbonate, UV-resistant

### Motion detector

1000 W, cos φ = 1

500 VA, cos φ = 0.5

horizontal 130° (Wall mounting)

max. 9 m across

max. 3 m towards

4 sec - 10 min

2 - 1000 Lux

IP44

Class II

91400 white

94113 white

94115 transparent



\*Discontinued product

All housing combinations and colour options can be found on page 130 onwards and on our website.

\*Discontinued product

All housing combinations and colour options can be found on page 130 onwards and on our website.

## Outdoor luminaires

## Indoor luminaires



### Technical Data

Product information	<ul style="list-style-type: none"> <li>Round LED light for wall or ceiling mounting with integrated microwave detector</li> <li>Energy efficient light with long service life &gt; 50,000 hours</li> <li>Broad light distribution using diffused light covers</li> </ul>
Voltage	230 V AC ±10% 50 / 60 Hz
Colour temperature	-
Luminous flux / intensity	LED circuit board securely mounted Colour temperature: 4000 K neutral white Luminous flux of LED: 1400 lm Luminous flux of light 1000 lm Peak: 312 cd
Anti-glare	-
Efficiency	83 lm/W
Photobiological safety	RG 0
Colour reproduction	CRI 81.3 / TM30: 80.4
Rated life time	50000 h (L80/B10)
Power consumption	12 W / PF 0.94
Flammability rating	-
Impact strength	IK02
Ambient temperature	-20 °C to +40 °C
Housing	Coated sheet steel case with LED circuit board, plastic cover Lens: PMMA diffuser, white
Radar / HF technology	<b>Microwave detector</b> 5.8 GHz, < 10 mW 1200 W, cos φ = 1 600 VA, cos φ = 0.5 horizontal 360° Ø 0.4 – 16 m
Switching power	<b>Microwave detector</b> 5.8 GHz, < 10 mW 1200 W, cos φ = 1 600 VA, cos φ = 0.5 horizontal 360° (Wall mounting) Ø 0.4 – 16 m
Detection area	-
Range	5 sec – 15 min
Follow-up time	5 sec – 15 min
Switch-on threshold	2 – 2000 Lux
Degree of protection	IP40
Protection class	Class I
Item number	94455* white
Comprehensive product information	

### L8-LEDN-HF

### L9-LEDN-HF



### AL8-25-300-LEDN-HF



### AL8-25-300-LED-3C-HF



### AL12-25-300-LED-3C-HF

## Indoor luminaires

<b>Microwave detector</b>	5.8 GHz, < 0.5 mW
	-
horizontal 360° (Ceiling mounting)	Ø null – 12 m
max. Ø 14 m towards	20 sec – 10 min
inactive / 5 – 50 Lux	IP20
Class II	93631 white, similar to RAL9016



<b>Microwave detector</b>	5.8 GHz, < 0.5 mW
	-
horizontal 360° (Ceiling mounting)	Ø 2 – 12 m
max. Ø 14 m towards	20 sec – 10 min
inactive / 5 – 50 Lux	IP20
Class II	93141 white, similar to RAL9016



<b>Microwave detector</b>	5.8 GHz, < 0.5 mW
	-
horizontal 360° (Ceiling mounting)	Ø 2 – 12 m
max. Ø 14 m towards	20 sec – 10 min
inactive / 5 – 50 Lux	IP20
Class II	93145 white, similar to RAL9016

## Indoor luminaires



### Technical Data

Product information	AL93-20-300-LED-3C-HF
Voltage	220 – 240 V AC 50 / 60 Hz
Colour temperature	3000 / 4000 / 5700 K
Luminous flux / intensity	1600 / 1850 / 1700 lm
Lamp	–
Anti-glare	UGR < 19
Efficiency	80 / 92 / 85 lm/W
Photobiological safety	RG 0
Colour reproduction	CRI > 80
Rated life time	50000 h (L80/B10)
Power consumption	20 W / PF 0.9
Flammability rating	UL-94 V2, 750 °C
Impact strength	IK08
Ambient temperature	-20 °C to +45 °C
Housing	Polycarbonate / ADC12
Type of contact	Microwave detector
Radar / HF technology	5.8 GHz, < 0.5 mW
Switching power	–
Detection area	horizontal 360° (Ceiling mounting) Ø 2 – 8 m
Range	max. Ø 14 m towards
Follow-up time	5 sec – 30 min
Switch-on threshold	inactive / 5 – 50 Lux
Degree of protection	IP54
Protection class	Class II
Item number	93632 white, similar to RAL9016
Comprehensive product information	

### HF-L1

- Flat round LED luminaires for ceiling mounting
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Energy efficient light with long service life > 50,000 hours

230 V AC ±10% 50 / 60 Hz

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max. 23 W with bulb socket E 27

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RG 0

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## Indoor luminaires



### Technical Data

#### Product information

- Flat LED light for wall or ceiling mounting
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Every colour temperature is externally dimmable
- Flat round LED luminaires for ceiling mounting
- Three colours in one light, switchable selection between warm, neutral or daylight white illumination
- Energy efficient light with long service life >50,000 hours

#### Voltage

200 – 240 V AC 50 Hz

#### Colour temperature

3000 / 4000 / 5700 K

#### Luminous flux / intensity

2500 / 2700 / 2600 lm

#### Lamp

–

#### Anti-glare

UGR < 25

#### Efficiency

100 / 108 / 104 lm/W

#### Photobiological safety

RG 0

#### Colour reproduction

CRI > 80 / TM30: 82

#### Rated life time

50000 h (L80/B10)

#### Power consumption

25 W / PF 0.9

#### Flammability rating

UL-94 V2, 750 °C

#### Impact strength

IK10

#### Ambient temperature

-20 °C to +45 °C

#### Housing

polycarbonate, UV-resistant

#### Degree of protection

IP54

#### Protection class

Class II

#### Item number

93615 white, similar to RAL9016

#### Comprehensive product information



## Indoor luminaires



### L1

- Round wall and ceiling light
- Ideally supplements the HF-L11
- Supply without lamp



### L11

- Round wall and ceiling light
- Ideally supplements the HF-L11
- Supply without lamp



### L7/L8

- Round wall and ceiling light
- Acrylic glass is suitable for all standard applications
- Polycarbonate is appropriate for areas where greater impact resistance is required (e.g. schools, public buildings)

230 V AC ±10% 50 / 60 Hz

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max. 23 W with bulb socket E 27

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## Indoor lights



### Technical Data

#### Product information

- Suspended LED panel luminaire
- direct and indirect illumination with separate control
- Adjustable light colour from 2700 K to 6500 K

#### Voltage

200 – 240 V AC 50 / 60 Hz

#### Luminous flux / intensity

LED circuit board securely mounted  
Selectable colour temperatures:  
2700 K (6200 lm, 88 lm/W) to 6500 K (6800 lm, 97 lm/W)

#### Anti-glare

UGR < 19

#### Efficiency

88 / 97 lm/W

#### Colour reproduction

CRI 82 / TM30: 81

#### Rated life time

60000 h (L80/B10)

#### Luminous power

–

#### Power consumption

70 W / PF 0.91

#### Ambient temperature

-20 °C to +40 °C

#### Housing

white aluminium frame  
Lens: plastic diffuser, white

#### Scope of delivery

–

#### Accu

–

#### Nominal operation duration

–

#### Range

–

#### Degree of protection

IP20

#### Protection class

Class II

#### Item number

93667 white

#### Comprehensive product information



## PL2-30120D-LED-AG-DALI-TW



### SAFETYLUX portable LED

- Extremely powerful portable LED emergency light with three operating modes: main beam, blinking warning light, and orientation light
- Central LED beam with reflector
- Broad illumination of the surroundings thanks to peripherally arranged LEDs

–  
LED circuit board securely mounted  
Colour temperature: 6500 K daylight white  
Luminous flux of light 900 lm

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long-range LED floodlight: 10 W  
LED for illuminating the surroundings: 2.5 W

–  
0 °C to +30 °C  
Polycarbonate

–  
LED emergency light, Wall holder, Charging cable, orange floodlight cover

NiMH 4.8 V  
8500 mAh

–  
Main light: 3 h  
Secondary light: 12 h  
Blink light: 24 h

–  
approx. 150 m (> 1 Lux)

–  
IP40

–  
Class II

–  
93120 grey, similar to RAL7035



## Portable emergency lights

\*Discontinued product

All housing combinations and colour options can be found on page 130 onwards and on our website.

# TIME SWITCHES



122



Save energy by programming clocks.

The Chronolux series timers are designed to meet a variety of programming requirements. They allow you to programme fixed schedules, with the main aim being to save energy.

B.E.G. offers a wide range of clocks: analogue, daily, weekly, annual, digital and astronomical clocks, which make installation and programming as easy as possible thanks to their LCD displays. Changing the switching times or adding new times is child's play, and it is even possible to copy the settings from one day of the week to another. Additional functions, such as holiday planning or automatic time changeover(winter-summer-winter), enable optimal programming of the time switches.

The latest models can be set up using a free app with NFC. They do not need to be connected to the mains. The settings can be checked on the modern LCD screen. Despite the screen, the timers have a very low energy consumption of only 0.2 W, which guarantees a power reserve of 10 years.

## Digital time switches

					
Technical Data	TS-DW1	TS-DW-2-NFC	TS-DW-3-NFC	TS-ASTRO1	TS-ASTRO-2-NFC
Product information	<ul style="list-style-type: none"> <li>Digital time switch with week program for installation in switch cabinets</li> <li>1 channel</li> <li>Switching capacity 16 A</li> </ul>	<ul style="list-style-type: none"> <li>Digital time switch with week program for installation in switch cabinets</li> <li>1 channel</li> <li>Switching capacity 16 A per channel</li> </ul>	<ul style="list-style-type: none"> <li>Digital time switch with week program for installation in switch cabinets</li> <li>2 channels</li> <li>Switching capacity 16 A per channel</li> </ul>	<ul style="list-style-type: none"> <li>Digital ASTRO time switch for installation in branches</li> <li>1 channel</li> <li>60 memory locations</li> </ul>	<ul style="list-style-type: none"> <li>Digital ASTRO time switch for installation in branches</li> <li>1 channel</li> <li>56 memory locations</li> </ul>
Voltage	230 V AC 50 / 60 Hz	230 V AC 50 / 60 Hz	230 V AC 50 / 60 Hz	230 V AC 50 / 60 Hz	230 V AC 50 / 60 Hz
Power consumption	approx. 0.7 W	0.2 – 1 W	0.2 – 1 W	–	0.2 – 1 W
Power back-up (at 20 °C)	approx. 6 years	approx. 10 years	approx. 10 years	approx. 6 years	approx. 10 years
Ambient temperature	-10 °C to +50 °C	-30 °C to +55 °C	-30 °C to +55 °C	-10 °C to +50 °C	-30 °C to +55 °C
Housing	self-extinguishing thermoplastic	self-extinguishing thermoplastic	self-extinguishing thermoplastic	self-extinguishing thermoplastic	self-extinguishing thermoplastic
Display elements	High resolution LC display	–	–	High resolution LC display	–
Connections and wires	Screw terminals (pull-up type terminals)	–	–	Screw terminals (pull-up type terminals)	–
Switching power	16 A / 250 V at cos φ = 1 max. inrush current Ip (20ms) = 30 A	3680 W / 16 A, cos φ = 1 2300 VA, cos φ = 0.6 200 W LED max. inrush current Ip (20 ms) = 50 A	3680 W / 16 A, cos φ = 1 2300 VA, cos φ = 0.6 200 W LED max. inrush current Ip (20 ms) = 50 A	16 A / 250 V at cos φ = 1 max. inrush current Ip (20ms) = 165 A 2000 W max. Resistive loads	3680 W / 16 A, cos φ = 1 2300 VA, cos φ = 0.6 200 W LED max. inrush current Ip (20 ms) = 50 A
Type of contact	contact gap < 3 mm (μ-contact), dry Changeover contact	μ-contact, Changeover contact, contact gap < 3 mm	μ-contact, Changeover contact, contact gap < 3 mm	1x contact gap < 3 mm (μ-contact), NO contact	μ-contact, Changeover contact, contact gap < 3 mm
Outputs	–	1	2	–	1
Degree of protection	IP20	IP20	IP20	–	IP20
Protection class	Class II	Class II	Class II	Class II	Class II
Item number	92656	93152	93153	92669	93142 grey
Comprehensive product information					

## Digital time switches

					
Technical Data	TS-ASTRO-3-NFC	TS-ASTRO-4-BLE	TS-ASTRO-5-BLE	TS-DY1	TS-DY2
Product information	<ul style="list-style-type: none"> <li>Digital ASTRO time switch for installation in branches</li> <li>2 channels</li> <li>56 memory locations</li> </ul>	<ul style="list-style-type: none"> <li>Digital ASTRO time switch for installation in branches</li> <li>1 channel</li> <li>Daily and weekly program</li> </ul>	<ul style="list-style-type: none"> <li>Digital ASTRO time switch for installation in branches</li> <li>2 channels</li> <li>Daily and weekly program</li> </ul>	<ul style="list-style-type: none"> <li>Digital time switch with year program for installation in switch cabinets</li> <li>1 channel</li> <li>Compact 36 mm wide housing</li> </ul>	<ul style="list-style-type: none"> <li>Digital time switch with year program for installation in switch cabinets</li> <li>4 channels</li> <li>Switching capacity 16 A</li> </ul>
Voltage	230 V AC 50 / 60 Hz	230 V AC 50 / 60 Hz	230 V AC 50 / 60 Hz	230 V AC 50 / 60 Hz	230 V AC 50 / 60 Hz
Power consumption	0.2 – 1 W	0.3 – 1 W	0.3 – 1 W	approx. 1.5 W	approx. 2 W
Power back-up (at 20 °C)	approx. 10 years	approx. 10 years	approx. 10 years	approx. 6 years	approx. 6 years
Ambient temperature	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C	-10 °C to +55 °C	-10 °C to +55 °C
Housing	self-extinguishing thermoplastic	self-extinguishing thermoplastic	self-extinguishing thermoplastic	self-extinguishing thermoplastic	self-extinguishing thermoplastic
Display elements	–	–	–	High resolution LC display	High resolution LC display
Connections and wires	–	–	–	Screw terminals (pull-up type terminals)	Screw terminals (pull-up type terminals)
Switching power	3680 W / 16 A, cos φ = 1 2300 VA, cos φ = 0.6 200 W LED max. inrush current Ip (20 ms) = 50 A	3680 W / 16 A, cos φ = 1 2300 VA, cos φ = 0.6 200 W LED max. inrush current Ip (20 ms) = 50 A	3680 W / 16 A, cos φ = 1 2300 VA, cos φ = 0.6 200 W LED max. inrush current Ip (20 ms) = 50 A	16 A / 250 V at cos φ = 1 max. inrush current Ip (20ms) = 50 A 2000 W max. Resistive loads	10 A / 250 V at cos φ = 1 max. inrush current Ip (20ms) = 50 A
Type of contact	μ-contact, Changeover contact, contact gap < 3 mm	μ-contact, Changeover contact, contact gap < 3 mm	μ-contact, Changeover contact, contact gap < 3 mm	contact gap < 3 mm (μ-contact), Changeover contact	contact gap < 3 mm (μ-contact), Changeover contact
Outputs	2	1	2	–	–
Degree of protection	IP20	IP20	IP20	IP20	IP20
Protection class	Class II	Class II	Class II	Class II	Class II
Item number	93143 grey	93161 grey	93162 grey	92674	92675
Comprehensive product information					

## Digital time switches

## Mechanical time switches



### Technical Data

	TS-AD1
Product information	<ul style="list-style-type: none"> <li>Analogue time switch for installation in switch cabinets</li> <li>Slim format 18 mm</li> <li>Daily program</li> </ul>
Voltage	230 V AC 50 / 60 Hz
Power consumption	0.4 W
Power back-up (at 20 °C)	-
Ambient temperature	-5 °C to +50 °C
Housing	self-extinguishing thermoplastic
Connections and wires	pull-up type terminals
Switching power	16 A / 250 V at cos φ = 1 2000 W max. Resistive loads
Type of contact	contact gap < 3 mm (μ-contact), dry NO contact
Degree of protection	IP20
Protection class	Class II
Item number	92676



### TS-AD2

	TS-AD2
Product information	<ul style="list-style-type: none"> <li>Analogue time switch for installation in switch cabinets</li> <li>Slim format 18 mm</li> <li>Daily program</li> </ul>
Voltage	230 V AC 50 / 60 Hz
Power consumption	0.4 W
Power back-up (at 20 °C)	≥ 70 h
Ambient temperature	-5 °C to +50 °C
Housing	self-extinguishing thermoplastic
Connections and wires	pull-up type terminals
Switching power	16 A / 250 V at cos φ = 1 2000 W max. Resistive loads
Type of contact	contact gap < 3 mm (μ-contact), NO contact
Degree of protection	IP20
Protection class	Class II
Item number	92677



### TS-AD3

	TS-AD3
Product information	<ul style="list-style-type: none"> <li>Analogue time switch for installation in switch cabinets</li> <li>Slim format 54 mm</li> <li>Daily program</li> </ul>
Voltage	230 V AC 50 / 60 Hz
Power consumption	0.4 W
Power back-up (at 20 °C)	-
Ambient temperature	-5 °C to +50 °C
Housing	self-extinguishing thermoplastic
Connections and wires	Screw terminals
Switching power	16 A / 250 V at cos φ = 1 2000 W max. Resistive loads
Type of contact	contact gap < 3 mm (μ-contact), dry Changeover contact
Degree of protection	IP20
Protection class	Class II
Item number	92678



### TS-AD4

	TS-AD4
Product information	<ul style="list-style-type: none"> <li>Analogue time switch for installation in switch cabinets</li> <li>Slim format 54 mm</li> <li>Daily program</li> </ul>
Voltage	230 V AC 50 / 60 Hz
Power consumption	0.4 W
Power back-up (at 20 °C)	≥ 70 h
Ambient temperature	-5 °C to +50 °C
Housing	self-extinguishing thermoplastic
Connections and wires	Screw terminals
Switching power	16 A / 250 V at cos φ = 1 2000 W max. Resistive loads
Type of contact	contact gap < 3 mm (μ-contact), dry Changeover contact
Degree of protection	IP20
Protection class	Class II
Item number	92680



## Mechanical time switches

# ACCESSORIES



130

**Perfectly tailored to every need: the customisation options offered by B.E.G. products.**

Whether ceiling presence detectors, outdoor motion detectors or wall detectors: B.E.G. offers all components for modern building automation – individually or as a complete solution. A particular advantage is their flexible adaptability. With the numerous items from the B.E.G. range of accessories, the basic products can be easily supplemented and thus developed into a tailor-made solution.

## **More flexibility thanks to clever accessories:**

From sturdy wall brackets and discreet cover slats to decorative designer frames, you can customise your B.E.G. devices to suit the installation situation and your personal preferences. For example, motion and presence detectors can be optimised in their detection range with different lens variants, while special mounting kits facilitate easy integration into different environments. For outdoor use, B.E.G. offers custom-fit pole mounts that ensure long-term stability thanks to their weather protection device made of stainless steel. The range of accessories also includes RC suppression elements to suppress electrical interference in the lighting system, ball protection baskets to protect B.E.G. motion and presence detectors, and numerous other products.

## **More individuality through matching colours**

In addition to accessories, B.E.G. also offers special customisation options in terms of colour selection. After all, a pure white presence detector does not always suit the local conditions. In modern hotel lobbies or industrial-style offices, for example, dark-coloured devices often blend in better with the overall look. That is why B.E.G. offers many products and accessories, such as sensors, cover rings, surface-mounted frames, bases and boxes, in several colour options:

The wide range of B.E.G. accessories and colour options guarantees our customers maximum flexibility, ensuring that every installation impresses with the desired functionality and appearance.

## Overview of accessories

OUTDOOR accessories											
Aleum / Aleum Glow											
93132	Aleum Glow WB	X	X								
93134	Aleum Glow AD	X	X								
93555	Aleum WB BMS2 DALI-2	X									
93556	Aleum AD BMS2 DALI-2	X									
RC-plus next N											
93321	RC-plus next N 130, white	X	X	X	X	X	X	X	X		
93323	RC-plus next N 130, black	X	X	X	X	X	X				
93324	RC-plus next N 130, brown	X	X	X	X	X	X				
93331	RC-plus next N 230, white	X	X	X	X	X	X	X	X		
93333	RC-plus next N 230, black	X	X	X	X	X	X				
93334	RC-plus next N 230, brown	X	X	X	X	X	X				
93346	RC-plus next N 230, silver	X	X	X	X	X	X				
93341	RC-plus next N 280, white	X	X	X	X	X	X	X	X		
93343	RC-plus next N 280, black	X	X	X	X	X	X				
93344	RC-plus next N 280, brown	X	X	X	X	X	X				
93527	RC-plus next N 230 KNXs-DX, white	X	X	X	X	X	X	X	X		
93528	RC-plus next N 230 KNXs-DX, black	X	X	X	X	X	X	X	X		
LC-plus											
91008	LC-plus 280, white	X	X	X	X	X		X			
91028	LC-plus 280, black	X	X	X	X	X		X			
91018	LC-plus 280, brown	X	X	X	X	X		X			
91048	LC-plus 280, silver	X	X	X	X	X		X			
93308	LC-plus-DALI-SYS 280, white	X	X	X	X	X		X			
LC Click-N											
91001	LC-Click-N 140, white	X	X	X	X	X			X		
91021	LC-Click-N 140, black	X	X	X	X	X			X		
91002	LC-Click-N 200, white	X	X	X	X	X			X		
91022	LC-Click-N 200, black	X	X	X	X	X			X		
91012	LC-Click-N 200, brown	X	X	X	X	X			X		
LC Click											
91101	LC-Click 140, white	X	X	X	X	X			X		
91121	LC-Click 140, black	X	X	X	X	X			X		
91102	LC-Click 200, white	X	X	X	X	X			X		
91122	LC-Click 200, black	X	X	X	X	X			X		
LC Mini											
93541	LC-Mini 120 BMS DALI-2		X								X

## INDOOR accessories

INDOOR accessories											
Indoor 180N											
93260	Indoor180N-M-1C, traffic white mat	X									
93262	Indoor180N-M-1C, traffic white glossy	X									
Indoor HF											
93261	IndoorHF-M-1C, traffic white mat	X									
93263	IndoorHF-M-1C, traffic white glossy	X									
Indoor 180											
92623	Indoor 180-R with frame	X									
92665	Indoor 180-R without frame	X									
92136	Indoor 180-M-2C with frame	X									
92661	Indoor 180-M-2C without frame	X									
92650	Indoor 180-TR with frame										
92668	Indoor 180-TR without frame										
92621	Indoor 180-R-11-48V-3A with frame										
92666	Indoor 180-R-11-48V-3A without frame										
92667	Indoor 180-R-11-48V-RR without frame										
92135	Indoor 180-S with frame										
92660	Indoor 180-S without frame										
93540	Indoor 180-BMS DALI-2 without frame										
93524	Indoor 180-KNXs-ST without frame										
93525	Indoor 180-KNXs-DX without frame										
Indoor 140 L											
94328	Indoor 140-L with frame	X									
94325	Indoor 140-L without frame	X	X	X	X	X	X	X	X	X	X

## Overview of accessories

MOTION accessories			
92197 PD3-1C-FC	X X	X	
92194 PD3-1C-SM	X X X		
92191 PD3-1C-SM, black	X X X		
PD3			
92196 PD3N-1C-FC	X X	X X	X
92186 PD3N-1C-FM	X X	X X	
92190 PD3N-1C-SM	X X X	X	
92192 PD3N-1C-SM, black	X X X	X	
92184 PD3N-1C-FC Micro	X X	X X	
92219 PD3N-1C-SM Micro	X X X	X	
92219 PD3N-1C-SM Micro, black	X X X	X	
92576 PD3N-1C-NO-PF-FC	X X	X X	
92198 PD3N-2C-FC	X X	X X	
92188 PD3N-2C-FM	X X	X X	
PD4 (motion detector)			
92149 PD4N-1C-FC	X X	X X X X X	X
92151 PD4N-1C-FM	X X	X X X X X	
92144 PD4N-1C-SM	X X X	X	
PD4N-C			
92274 PD4N-1C-C-FC	X X	X	
92270 PD4N-1C-C-SM	X X X	X	
PD9 (motion detector)			
92902 PD9-1C-FC	X	X X X X X X X	X
92985 PD9-1C-12-48V-FC	X	X X X X X X X	
HF			
94401 HF-MD1	X		
94402 HF-MD2	X X X		
BL			
93317 BL2-FC	X X X*	X X	
93288 BL4-FC	X X X*	X X	
93284 BL4-C-FC	X X X*	X X	

X\* with SM accessories

PRESENCE accessories			
92165 PD2-M-2C-FC	X X	X	
92155 PD2-M-2C-FM	X X	X	
92550 PD2-M-1C-SM	X X	X X	X X
PD2			
92565 PD2-M-1C-FC	X	X	X
92555 PD2-M-1C-FM	X	X	X
92164 PD2-M-2C-11-48V-3A-FC	X	X	X
92154 PD2-M-2C-11-48V-3A-SM	X	X X	X X
92306 PD2-M-2C-11-48V-RR-FC	X	X	X
92305 PD2-M-2C-11-48V-RR-SM	X	X X	X X
92166 PD2-S-FC	X	X	X
92156 PD2-S-FM	X	X	X
92152 PD2-S-SM	X	X X	X X
PD4			
92585 PD4-M-1C-FC	X	X	X
92575 PD4-M-1C-FM	X	X	X
92580 PD4-M-1C-SM	X X	X	X X
92148 PD4-M-2C-FC	X X		X
92255 PD4-M-2C-FM	X X		X
92140 PD4-M-2C-SM	X X	X	X X
92760 PD4-M-2C-DS-FC	X X		X
92761 PD4-M-2C-DS-SM	X X		X X
92745 PD4-M-3C-TRIO-FC	X X		X
92740 PD4-M-3C-TRIO-SM	X X		X X
92254 PD4-S-FC	X		X
92163 PD4-S-FM	X		X
92142 PD4-S-SM	X	X	X X
93484 PD4-M-HCL2-FC DALI-2	X		X
93485 PD4-M-HCL2-SM DALI-2	X		X X
92591 PD4-M-DAA4G-FC	X		X
92743 PD4-M-DAA4G-SM	X		X X
92721 PD4-S-DAA4G-FC	X		X
92759 PD4-S-DAA4G-SM	X		X X

FC = False ceiling | FM = Flush-mounted | SM = Surface-mounted

PRESENCE accessories									
	10880 RC-Arc extinction kit	92199 Wire basket BSK (Ø 200 x 90 mm)	93085 Cover ring PD2/PD3-FC, deep black	92161 SM socket IP54 for PD2- / PD4-SM	92260 Blinds PD2-SM-/FM	36635 Blinds PD2- FC	93179 Pendulum mounting set PD2/3/4 SM, white mat	92441 Wall holder PD4-SM	92992 Square design frame PD4-FC
92586 PD4-M-1C-C-FC	X	X					X		
92587 PD4-M-1C-C-SM	X	X			X	X			X
92143 PD4-M-2C-C-FC	X	X					X		
92440 PD4-M-2C-C-SM	X	X			X	X		X	
92480 PD4-M-1C-C-PS-FC	X	X					X		
92485 PD4-M-1C-C-PS-SM	X	X			X	X			X
92746 PD4-M-TRIO-C-3P-FC	X								X
92747 PD4-M-TRIO-C-3P-SM	X				X	X		X	X
92444 PD4-S-C-FC	X						X		
92442 PD4-S-C-SM	X				X	X		X	X
PD4-GH									
92245 PD4-M-1C-GH-SM	X	X	X	X			X		X
92265 PD4-S-GH-SM	X			X			X		X
93469 PD4-M-DACO-GH-SM DALI-2	X			X			X		X
93479 PD4-CAS2-GH	X			X					X
93478 PD4-CAS2-GH DALI-2	X			X					X
93518 PD4-KNXs-GH-DX-SM	X			X					X
93545 PD4-BMS-GH-SM DALI-2	X			X					X
93345 PD4-DALI-SYS-GH-SM	X			X					X
93845 PD4-DALI-LINK-GH-SM	X			X					X
BL-PLUS									
93405 BL2-PLUS	X	X							
93404 BL4-PLUS	X	X							

PRESENCE accessories									
	10880 RC-Arc extinction kit	92199 Wire basket BSK (Ø 200 x 90 mm)	93179 Pendulum mounting set PD2/3/4 AP, white	93240 Wall holder PD2N/4N Typ A, white mat	93700 Wall holder PD2N/4N Typ A, anthracite mat	93701 Wall holder PD2N/4N Typ A, traffic white mat	93702 Wall holder PD2N/4N Typ A, black mat	93703 Wall holder PD2N/4N Typ A, black mat	93707 Blinds PD2N/PD3N
94055 PD2N-M-1C-LED-FC	X	X		X					
92119 PD2N-LTMS-RR-FC	X			X					
93240 PD2N-S	X	X*	X**X**X**	X X X X X X X X X X					
93452 PD2N-M-DACO DALI-2	X	X*	X**X**X**	X X X X X X X X X X					
93455 PD2N-M-DACO-1C DALI-2	X	X*	X**X**X**	X X X X X X X X X X					
93453 PD2N-M-DACO-DUO DALI-2	X	X*	X**X**X**	X X X X X X X X X X					
93477 PD2N-CAS	X	X*	X**X**X**	X X X X X X X X X X					
93476 PD2N-CAS DALI-2	X	X*	X**X**X**	X X X X X X X X X X					
93580 PD2N-RF-KNXs-DX-FC	X	X*	X**X**X**	X X X X X X X X X X					
93533 PD2N-KNXs-BA-FC	X			X					
93534 PD2N-KNXs-BA-FM	X	X*	X**X**X**	X X X X X X X X X X					
93510 PD2N-KNXs-ST-FC	X			X					
93511 PD2N-KNXs-ST-FM	X	X*	X**X**X**	X X X X X X X X X X					
93512 PD2N-KNXs-DX-FC	X			X					
93513 PD2N-KNXs-DX-FM	X	X*	X**X**X**	X X X X X X X X X X					
93530 PD2N-KNXs-OCCULOG-DX-FC	X			X					
93531 PD2N-KNXs-OCCULOG-DX-FM	X	X*	X**X**X**	X X X X X X X X X X					
93543 PD2N-BMS-FC DALI-2	X			X					
93544 PD2N-BMS-FM DALI-2	X	X*	X**X**X**	X X X X X X X X X X					
93369 PD2N-DALI-SYS-FC	X			X					
93368 PD2N-DALI-SYS-FM	X	X*	X**X**X**	X X X X X X X X X X					
PD2N									
93781 SM socle mounting set IP54 PD2N H, white mat									
93782 SM socle mounting set IP54 PD2N H, black mat									
93783 SM socle mounting set IP54 PD2N H, black mat									
93771 Cover ring PD2N-FC, anthracite mat									
93772 Cover ring PD2N-FC, traffic white mat									
93773 Cover ring PD2N-FC, black mat									
93769 Adapter ring PD2N-FM									
93750 SM socle mounting set IP54 PD2N-FM, white mat									
93761 Cover ring PD2N-FM, anthracite mat									
93762 Cover ring PD2N-FM, traffic white mat									
93763 Cover ring PD2N-FM, black mat									
93751 SM socle mounting set IP54 PD2N-FM, anthracite mat									
93752 SM socle mounting set IP54 PD2N-FM, traffic white mat									
93753 SM socle mounting set IP54 PD2N-FM, black mat									
93465 SM socle mounting set IP54 PD4N H, white mat									
93786 SM socle mounting set IP54 PD4N H, white mat									
93787 SM socle mounting set IP54 PD4N H, traffic white mat									
93788 SM socle mounting set IP54 PD4N H, black mat									
93714 SM socle mounting set IP65 PD4N type A, cover ring, white mat									
93741 Corridor lens PD4N type A, cover ring, anthracite mat									
93742 Corridor lens PD4N type A, cover ring, traffic white mat									
93743 Corridor lens PD4N type A, cover ring, black mat									
93731 Lens PD4N, cover ring, anthracite mat									
93732 Lens PD4N, cover ring, traffic white mat									
93733 Lens PD4N, cover ring, black mat									

X\* with SM accessories

X\*\* with corresponding lens or cover ring in respective colour

## Overview of accessories

MINI-PRESENCE accessories										
10880 RC-Arc extinction kit										
92958 Cover IP65 for Sensor head PD9										
92235 Cover ring PD9 Ø 36 mm, anthracite glossy										
92238 Cover ring PD9 Ø 36mm, white glossy										
92237 Cover ring PD9 Ø 36 mm, silver Glossy										
92327 Cover ring PD9 Ø 45mm, white matt										
92346 Cover ring PD9 Ø 45 mm, silver Matt										
92993 Square design frame PD9-FC, pure white mat										
32702 Blinds Mini-Presence detector PD9										
92833 In-wall mounting set / PD11, white										
92537 Cover ring PD11(52mm), black glossy										
92692 Cover ring PD11, white mat										
92994 Square design frame PD11-FC										
38522 Cover ring PD11 with Blinds, black										
92121 Surface mounting socket PD11										
93775 Mounting set PICO, white										
93778 Mounting set PICO, black										
93777 Mounting set PICO, traffic white										
93776 Mounting set PICO, anthracite										
37731 Blinds PICO										
PD5N										
93508	PD5N-LAMELLA-KNXs-DX WB									
93509	PD5N-LAMELLA-KNXs-DX BB									
93354	PD5N-LAMELLA-BMS2 WB DALI-2									
93358	PD5N-LAMELLA-BMS2 BB DALI-2									
PD9 (presence detector)										
92900	PD9-M-1C-FC	X	X	X	X	X	X	X		
92976	PD9-M-2C-FC	X	X	X	X	X	X	X		
92905	PD9-S-FC		X	X	X	X	X	X		
92912	PD9-M-1C-SDB-IP65-FC	X								
92915	PD9-S-SDS-FC									
93470	PD9-M-DACO-FC DALI-2	X	X	X	X	X	X	X		
93520	PD9-KNXs-DX-FC	X	X	X	X	X	X	X		
PD11										
92583	PD11-M-1C-FLAT-FC	X				X	X	X	X	
92594	PD11-LTMS-RR-FLAT-FC					X	X	X	X	
92593	PD11-S-FLAT-FC					X	X	X	X	
93459	PD11-M-DACO-FLAT-FC DALI-2					X	X	X		
93522	PD11-KNXs-FLAT-ST-FC					X	X	X	X	
93523	PD11-KNXs-FLAT-DX-FC					X	X	X	X	
93542	PD11-BMS-FLAT-FC DALI-2					X	X	X	X	
92731	PD11-DALI-SYS-FLAT-FC					X	X	X	X	
93068	PD11-DALI-LINK-FLAT-FC					X	X	X	X	
PICO										
93159	PICO-N-M-1C-FC	X							X	
92700	PICO-S-FC									X
93539	PICO-KNXs-ST-FC						X	X	X	X
93529	PICO-KNXs-DX-FC						X	X	X	X
93547	PICO-BMS DALI-2						X	X	X	X
93909	PICO-DALI-SYS-FC						X	X	X	X
93908	PICO-DALI-LINK-FC						X	X	X	X

## LUXOMATIC® accessories

Interior lighting	
94453	L1
94440	HF-L1
94451	L7
94450	HF-L7
94446	L8
94445	HF-L8
94448	L11
94447	HF-L11
94456	L8-LEDN
94455	L8-LEDN-HF
94458	L9-LEDN
94457	L9-LEDN-HF
93621	AL8-25-300-LED-3C
93141	AL8-25-300-LED-3C-HF
93631	AL8-25-300-LEDN-HF
93615	AL12-25-300-LED-3C
93145	AL12-25-300-LED-3C-HF
93633	AL93-20-300-LED-3C
93632	AL93-20-300-LED-3C-HF
Outdoor lighting	
91400	AL1 130
91301	ALC-B-360 SLU, white
91321	ALC-B-360 SLU, black

## Overview of accessories

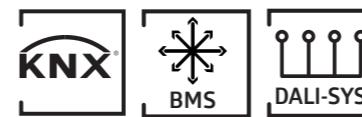
CHRONOLUX® accessories	
92676	TS-AD1
92677	TS-AD2
92678	TS-AD3
92680	TS-AD4
92669	TS-ASTRO1-1C-NO
93142	TS-ASTRO2-NFC-1C/1W
93143	TS-ASTRO3-NFC-2W
93161	TS-ASTRO-4-BLE
93162	TS-ASTRO-5-BLE
92656	TS-DW1
93152	TS-DW2-NFC
93153	TS-DW3-NFC
92674	TS-DY1
92675	TS-DY2

## PD2N housing



The images are provided as examples. The colours vary depending on your colour selection. To design the finished product from **category 2**, you must select a base unit from **category 1** and select the corresponding accessories from **category 3**. The base unit and accessories required are marked with an **X** in each row for the desired finished unit. If you have any questions, please feel free to visit our website or contact us.

## PD2N housing



## PD4N housing



Category 1	Category 3																								
	93241 PD4N-S	93460 PD4N-M-DACO DALI-2	93463 PD4N-M-DACO-1C DALI-2	93461 PD4N-M-DACO-DUO DALI-2	93474 PD4N-CAS	93473 PD4N-CAS DALI-2	93465 SM socle mounting set IP54 PD4N H, white mat	93786 SM socle mounting set IP54 PD4N H, anthracite mat	93787 SM socle mounting set IP54 PD4N H, traffic white mat	93788 SM socle mounting set IP54 PD4N H, black mat	93731 Lens PD4N, cover ring, anthracite mat	93732 Lens PD4N, cover ring, traffic white mat	93733 Lens PD4N, cover ring, black mat	93734 Wall holder PD2N/4N Typ A, white mat	93701 Wall holder PD2N/4N Typ A, anthracite mat	93702 Wall holder PD2N/4N Typ A, traffic white mat	93703 Wall holder PD2N/4N Typ A, black mat	93742 Corridor lens PD4N type A, cover ring, traffic white mat	93743 Corridor lens PD4N type A, cover ring, black mat	93700 Wall holder PD2N/4N Typ A, white mat	93701 Wall holder PD2N/4N Typ A, anthracite mat	93702 Wall holder PD2N/4N Typ A, traffic white mat	93703 Wall holder PD2N/4N Typ A, black mat	93749 Pendulum mounting set PD2/3/4 SM, white mat	93314 SM socle mounting set IP65 PD4N, white
FC, white mat	X																								
FC, anthracite mat	X																								
FC, traffic white mat	X																								
FC, black mat	X						X																		
FC Corridor, white mat	X							X																	
FC Corridor, anthracite mat	X							X																	
FC Corridor, traffic white mat	X							X																	
FC Corridor, black mat	X								X																
FM, white mat	X								X																
FM, anthracite mat	X								X																
FM, traffic white mat	X								X																
FM, black mat	X								X																
FM Corridor, white mat	X								X																
FM Corridor, black mat	X								X																
FM Corridor, traffic white mat	X								X																
FM Corridor, black mat	X									X															
SM IP54, white mat	X	X																							
SM IP54, anthracite mat	X	X	X																						
SM IP54, traffic white mat	X		X	X																					
SM IP54, black mat	X			X	X																				
SM IP65, white	X																								X
SM IP54 Corridor, white mat	X	X								X															
SM IP54 Corridor, anthracite mat	X		X							X															
SM IP54 Corridor, traffic white mat	X		X							X															
SM IP54 corridor, black mat	X			X						X															
SM IP65 Corridor, white	X									X															X
Wall holder SM IP54, white mat	X										X														
Wall holder SM IP54, anthracite mat	X										X														
Wall holder SM IP54, traffic white mat	X										X														
Wall holder SM IP54, black mat	X										X														
Wall holder SM IP54 Corridor, white mat	X										X														
Wall holder SM IP54 Corridor, anthracite mat	X										X														
Wall holder SM IP54 Corridor, traffic white mat	X										X														
Wall holder SM IP54 Corridor, black mat	X										X														
Pendulum SM IP54, white mat	X	X																							X
Pendulum SM IP54 Corridor, white mat	X	X									X														X

## PD4N housing



Category 1	Category 3											
	93535 PD4N-KNXs-BA-FC	93536 PD4N-KNXs-BA-FM	93514 PD4N-KNXs-ST-FC	93515 PD4N-KNXs-ST-FM	93516 PD4N-KNXs-DX-FC	93517 PD4N-KNXs-DX-FM	93546 PD4N-BMS DALI-2	93340 PD4N-DALI-SYS	93377 PD4N-DALI-LINK	PD4N-KNXs-FC Product	PD4N-BMS DALI-2/DALI-SYS/DALI-LINK Product	PD4N-KNXs-FM Product
FC, white mat	X									X	X	
FC, anthracite mat	X									X	X	
FC, traffic white mat	X									X	X	
FC, black mat	X									X	X	
FC Corridor, white mat	X									X	X	
FC Corridor, anthracite mat	X									X	X	
FC Corridor, traffic white mat	X									X	X	
FC Corridor, black mat	X									X	X	
FM, white mat	X									X	X	
FM, anthracite mat	X									X	X	
FM, traffic white mat	X									X	X	
FM, black mat	X									X	X	
SM IP54, white mat	X	X								X	X	
SM IP54, anthracite mat	X	X	X							X	X	

		Category 3			
Category 1					
		92149 PD4N-1C-FC 92151 PD4N-1C-FM 92144 PD4N-1C-SM 92274 PD4N-1C-C-FC 92270 PD4N-1C-C-SM		PD4N Standard Product	93736 Lens PD4N-1C, cover ring, anthracite mat
				PD4N-C Standard Product	93737 Lens PD4N-1C, cover ring, traffic white mat
					93738 Lens PD4N-1C, cover ring, black mat
					93179 Pendulum mounting set PD2/3/4 AP, white mat
Category 2					
		FC, white mat FC, anthracite mat FC, traffic white mat FC, black mat	X	X	X
		FC Corridor, white mat		X	
		FM, white mat FM, anthracite mat FM, traffic white mat FM, black mat	X	X	X
		SM IP44, white mat	X		
		SM IP44 Corridor, white mat		X	
		Pendulum SM IP54, white mat	X		X
		Pendulum SM IP54 Corridor, white mat		X	X



B.E.G.

Feel comfortable in your building

# THE HOUSING CONCEPT OF THE FUTURE

## The PD2N and PD4N housings for DALI, KNX and Casambi

## A device with many possibilities

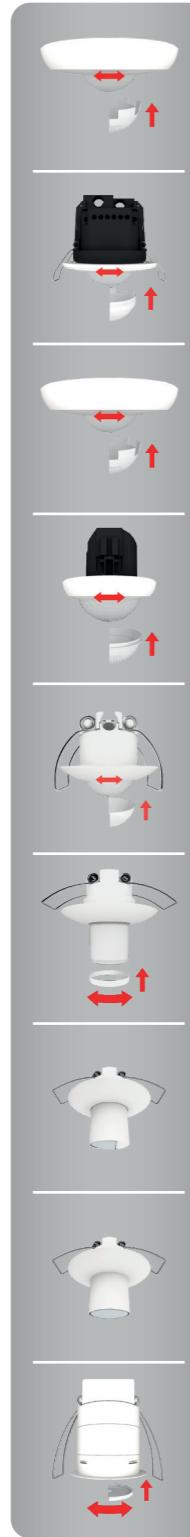


- Maximum flexibility in installation options
- Installation in suspended ceilings (ceiling installation) thanks to pre-assembled spring clamp with integrated strain relief
- Installation in flush-mounted/ fire protection box thanks to easily removable spring clamp
- Surface mounting thanks to easily removable spring clamp and accessories (SM base)
- Cavity wall mounting thanks to easily removable spring clamp and accessories (wall bracket)
- Solid wall mounting thanks to easily removable spring clamp and accessories (wall bracket and wall bracket surface-mounted base)
- Removable design ring with PIR lens for variability in terms of: colour/PIR lens type (e.g. corridor lens as accessory)
- Additional accessories for colour matching are available as options (design rings, bases, brackets):
  - Pure white (RAL 9010),
  - Traffic white (RAL 9016),
  - Anthracite (RAL 7016),
  - Deep black (RAL 9005)
- Splash protection (IPX4) for surface and wall mounting
- Internal and external light sensors for better light control quality

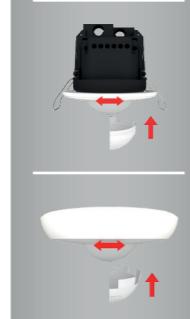
Cover slats, also known as blinds, ensure that the detection range of the detectors can be adjusted to suit local conditions. Sources of interference or unwanted areas can thus be excluded from motion detection. Blinds are included in the scope of delivery. They can be reordered if additional ones are required.

### Ceiling presence and motion detectors

- for PD2-SM+FM  
Item number 92260



- for PD2-FC  
Item number 36635



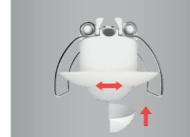
- for PD3N + PD2N  
Item number 37367



- for PD4 + PD4N  
Item number 92313



- for PD9 mini presence detector  
Item number 32702



- for PD9-GH for high altitudes  
Item number 33207



- for PD9-GH, half  
Item number 92952



- for PD9-GH, all covered  
Item number 92953



- for PD11-FC  
Item number 38522



! Cover to prevent lateral light incidence and 180° restriction of motion detection

! Cover to prevent light from entering from the side

### Outdoors

- For RC-plus next N  
Item number 32697



- For LC-plus 280  
Item number 32698



- For LC-Click-N  
Item number 32699



- LC-Mini  
Item number 33232



### Indoor

- For Indoor 180  
Item number 33233



- For Indoor 180  
Item number 92294



! To disable detection for a needs-based adjustment of the sensors detection range to local conditions

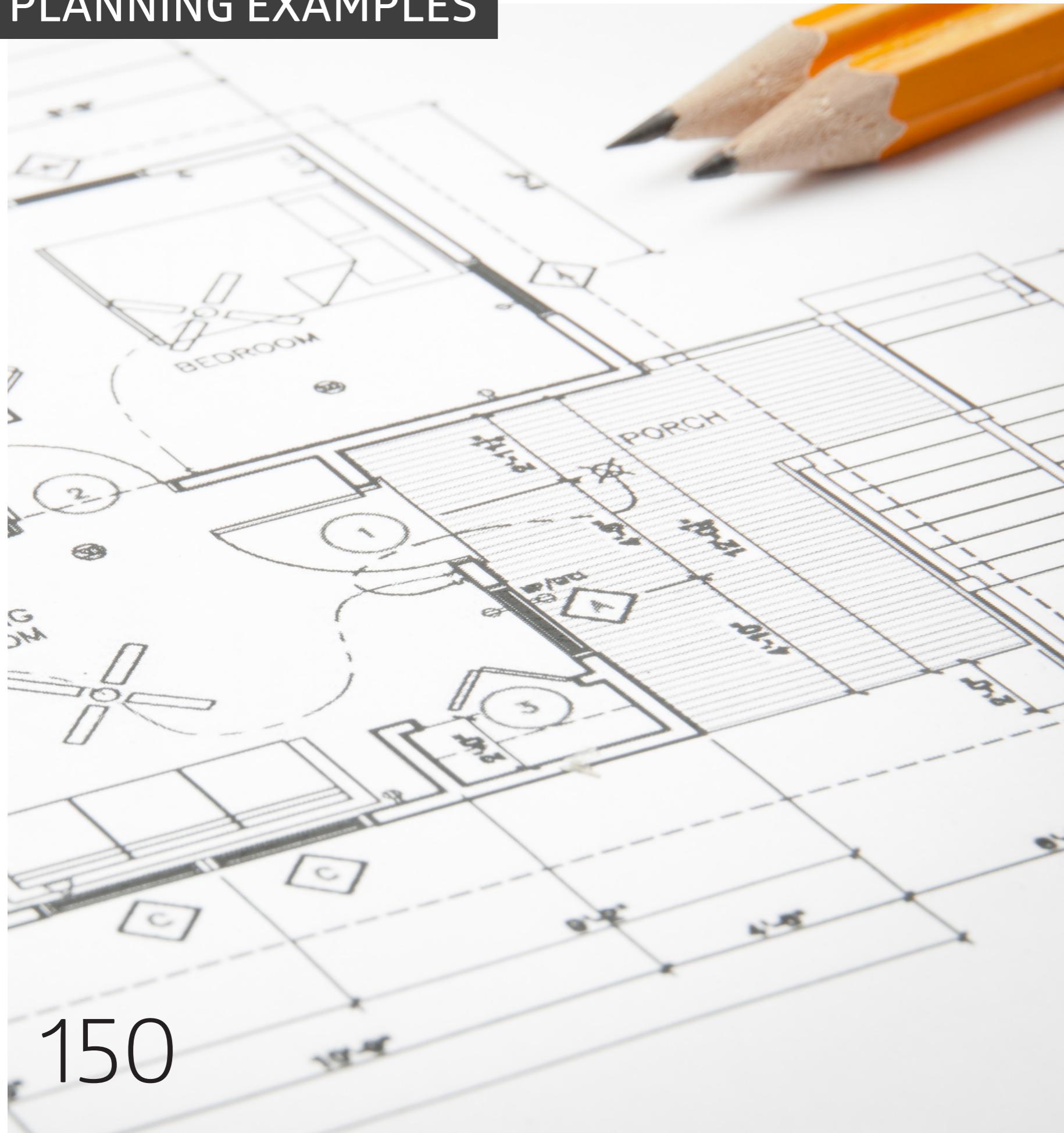
- Protective cap for Indoor 180  
Item number 92018



! Securing the potentiometer cover against unwanted removal



## PLANNING EXAMPLES



150

### Plan comfortably and securely with B.E.G.

With such a wide variety of detectors and special functions available, choosing the right motion or presence detector for a particular project is not always easy. As a specialist, B.E.G. offers detectors for almost every requirement. We would be happy to assist you with your selection and planning.

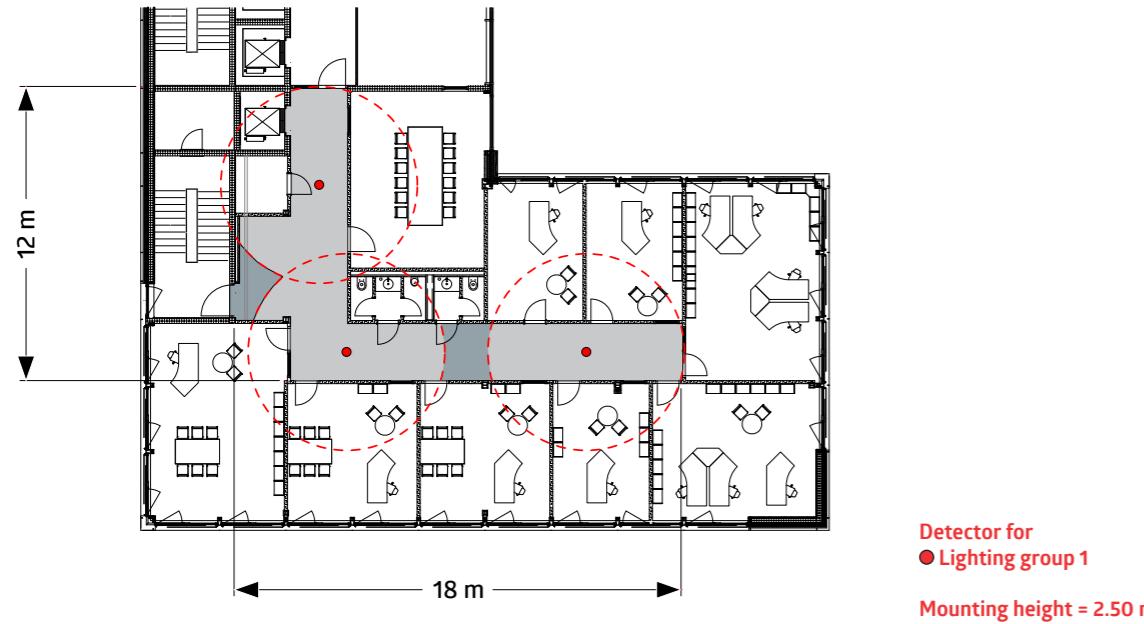
On the following pages, we have compiled tips for the optimal installation location, the correct wiring and settings for our detectors, as well as planning examples for various projects. This will help you quickly identify which detectors are best suited for which situations.

Take advantage of B.E.G.'s experience for successful planning and smooth implementation of LUXOMAT® detectors. Our field staff will advise you directly on site.

On request, our specialists will plan the optimal distribution of our motion and presence detectors based on your CAD plans. Simply send us your plans by email. We will take care of the rest – free of charge, of course.

You can count on us: even after your purchase, we will continue to provide you with advice and support until your project is complete.

## Planning example corridor with PD4-M



**Application description:**  
Automatic lighting control with presence 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)

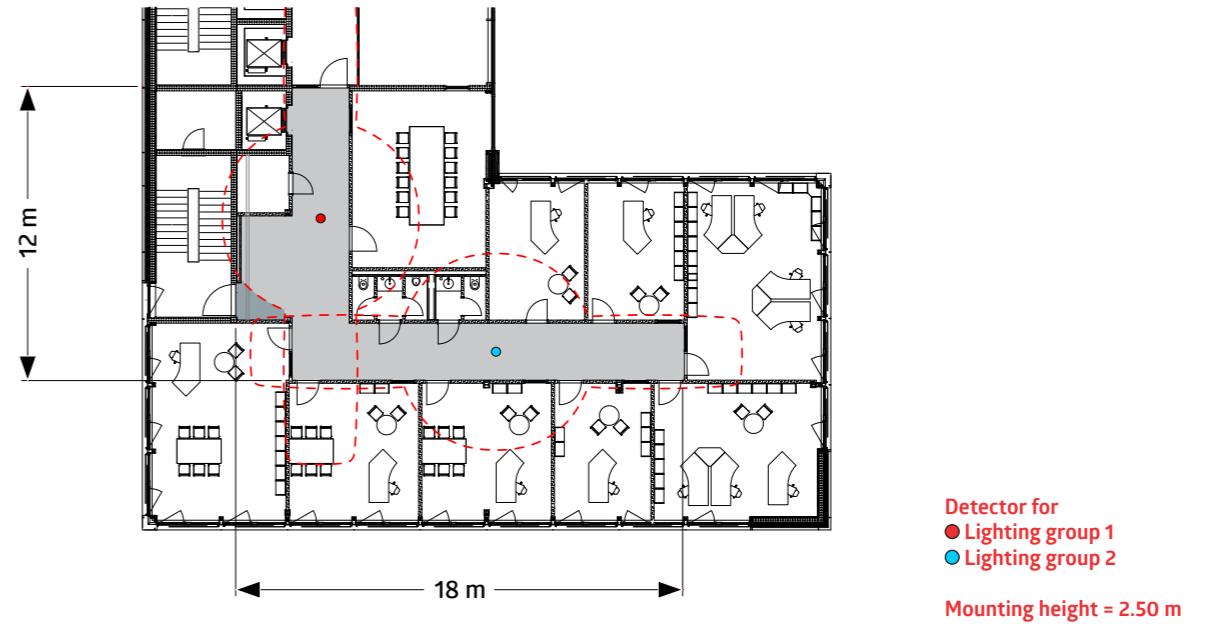
**Lighting:**  
1 luminaire group with electronic ballasts

**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.

## Planning example corridor with PD4-M-C



**Application description:**  
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)

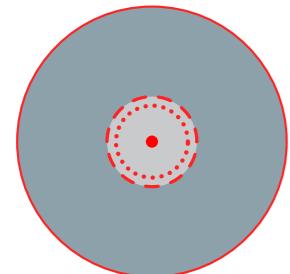
**Lighting:**  
2 luminaire groups with electronic ballasts

**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

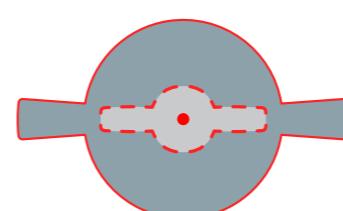
**Operation mode:**  
Both detectors in master mode (see wiring diagram PD4-M-2C-C)

### Detection range Type "PD4"



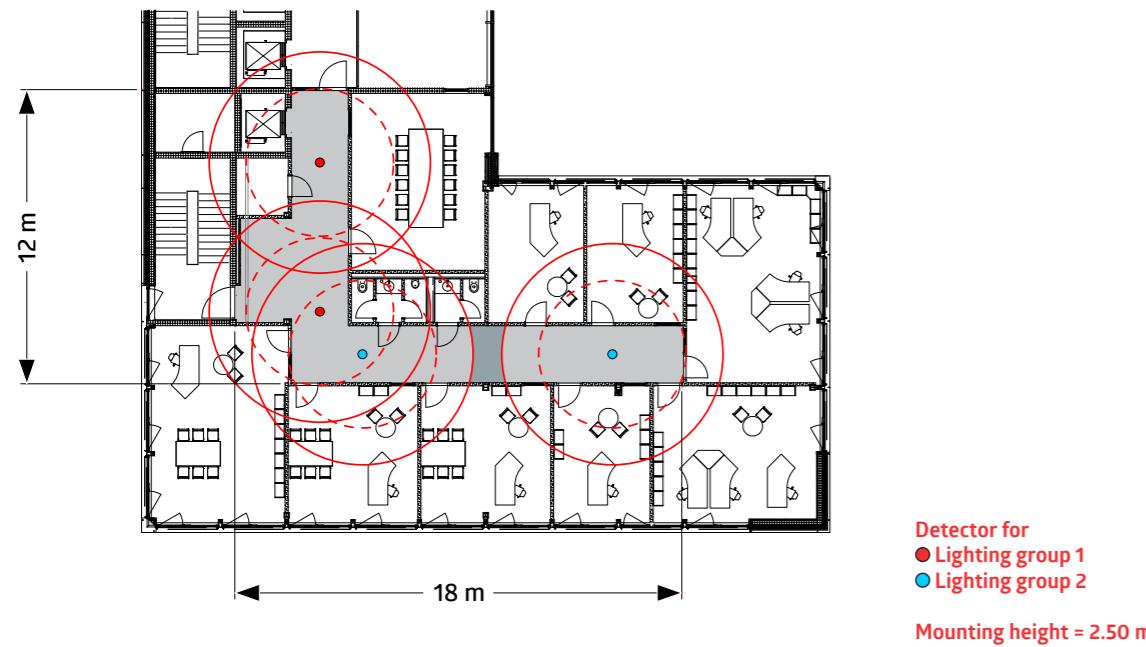
— across  $\varnothing 24\text{ m}$   
- - - - - frontally  $\varnothing 8\text{ m}$   
- - - - - seated activity  $\varnothing 6\text{ m}$   
for a mounting height of 2.50 m

### Detection range Type "PD4-C"



— across  $\varnothing 40\text{ m}$   
- - - - - frontally  $\varnothing 20\text{ m}$   
for a mounting height of 2.50 m

## Planning example corridor with PD11

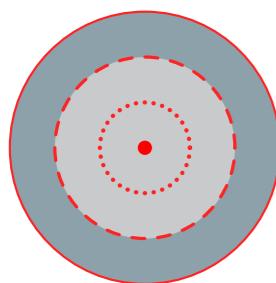


- **Application description:**  
Automatic lighting control with design presence detectors is to be implemented in a corridor on an office floor.
- **Note:**  
The PD11 design presence detector blends almost invisibly into the ceiling with only 0.85mm visible height. The detectors should be positioned in such a way that all access zones are safely covered with frontal detection zones. "Dead zones" should be avoided in corridor sections. If it is not possible to avoid gaps in the detection range, the follow-up time should be increased.

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

- **Object data:**  
**Type:** Corridor without daylight  
**Corridor dimensions:**  
L 18.00 x W 12.00 m  
**Ceiling height:** 2.50 m (clear height)
- **Lighting:**  
2 luminaire groups with electronic ballasts
- **Product listing:**  
2 pcs. LUXOMAT® PD11 master device  
2 pcs. LUXOMAT® PD11 slave device

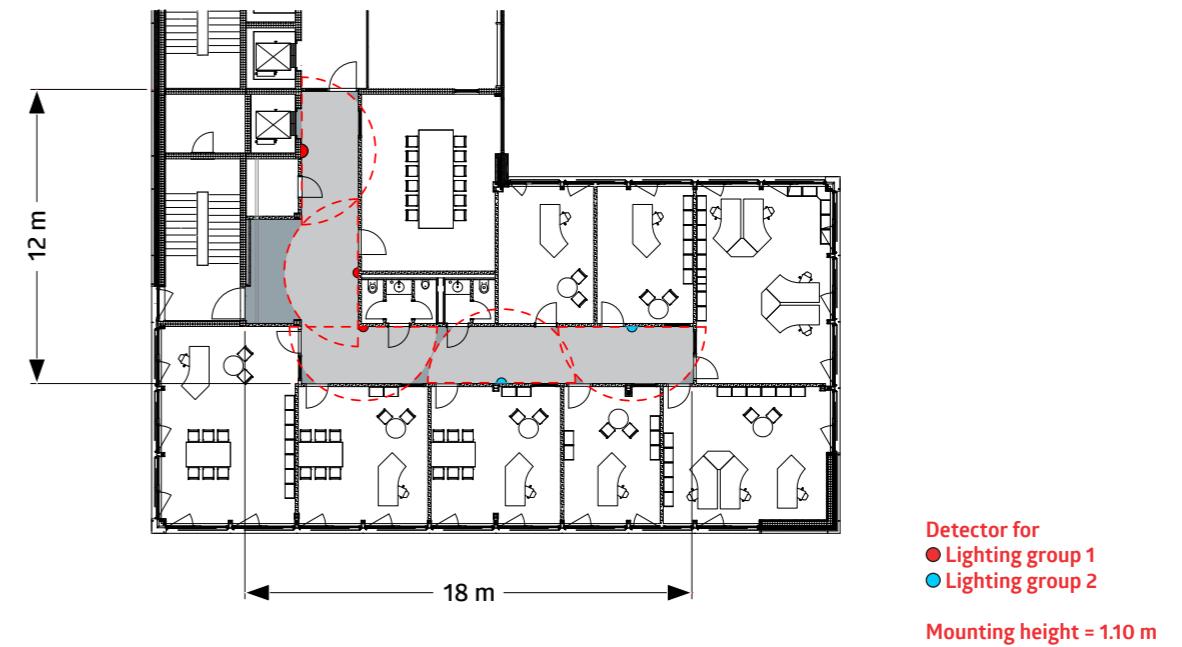
- Detection range Type “PD11”



—	across	Ø 9 m
- - -	frontally	Ø 6 m
• • • • •	seated activity	Ø 3 m

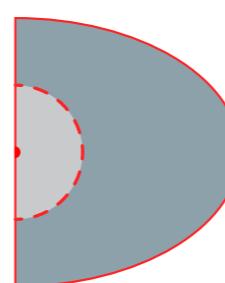
for a mounting height of 2.50 m

## Planning example corridor with Indoor 180



- **Application description:**  
Automatic lighting control is to be implemented in a corridor on an office floor. As this is an old building, wall presence detectors are desired.
- **Note:**  
The Indoor 180 wall presence 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

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

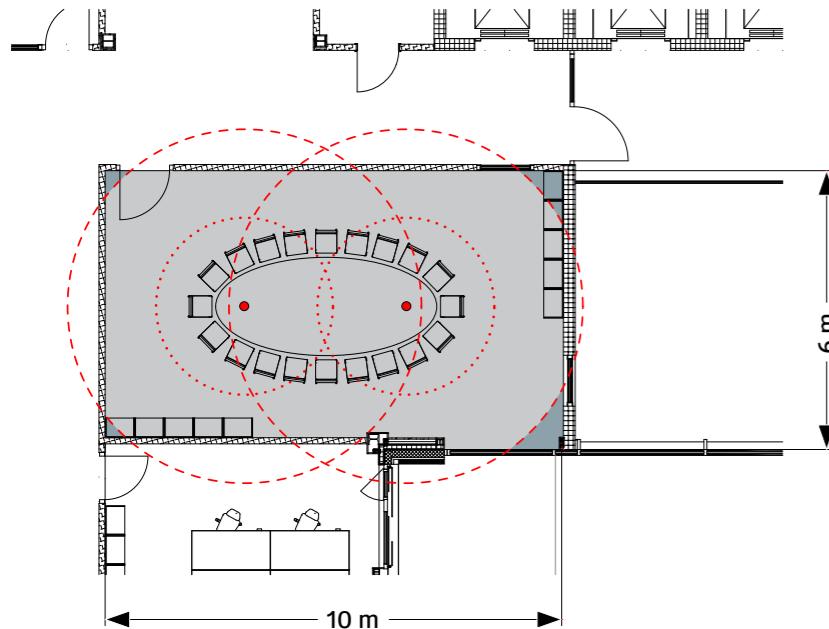


— across Ø 10 m  
- - - - - frontally Ø 3 m  
for a mounting height of 1.10 m - 2.20 m

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



## Planning example conference room with PD11



Detector for  
● Lighting group 1

Mounting height = 3.00 m

### ■ Application description:

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 presence detectors are to be mounted on the ceiling.

### ■ Note:

The PD11 design presence detector blends almost invisibly into the ceiling with only 0.85mm visible height. By installing two presence 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  
1 pcs. LUXOMAT® PD11 master device  
1 pcs. LUXOMAT® PD11 slave device

### ■ Master device setting:

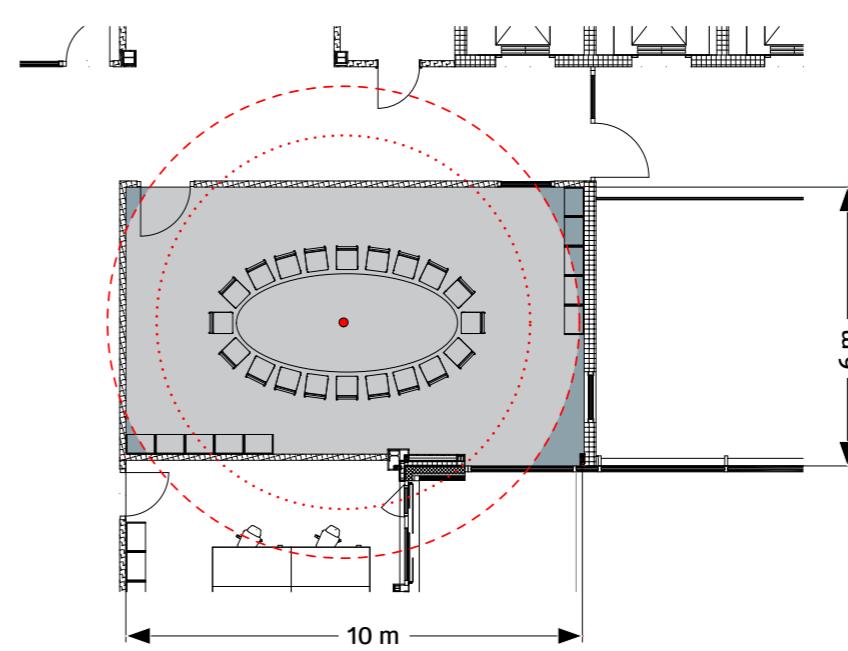
Follow-up time R1: mind. 5 min  
Switch-on threshold R1: 500 Lux

### ■ 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.

## Planning example conference room with PD4



Detector for  
● Lighting group 1

Mounting height = 3.00 m

### ■ Application description:

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 presence 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  
1 pcs. LUXOMAT® PD4 master device

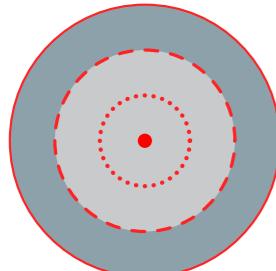
### ■ Master device setting:

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

### ■ Operation mode:

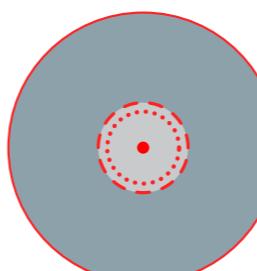
Master circuit with optional push-button control (see wiring diagram PD4-M-2C)

### ■ Detection range Type "PD11"



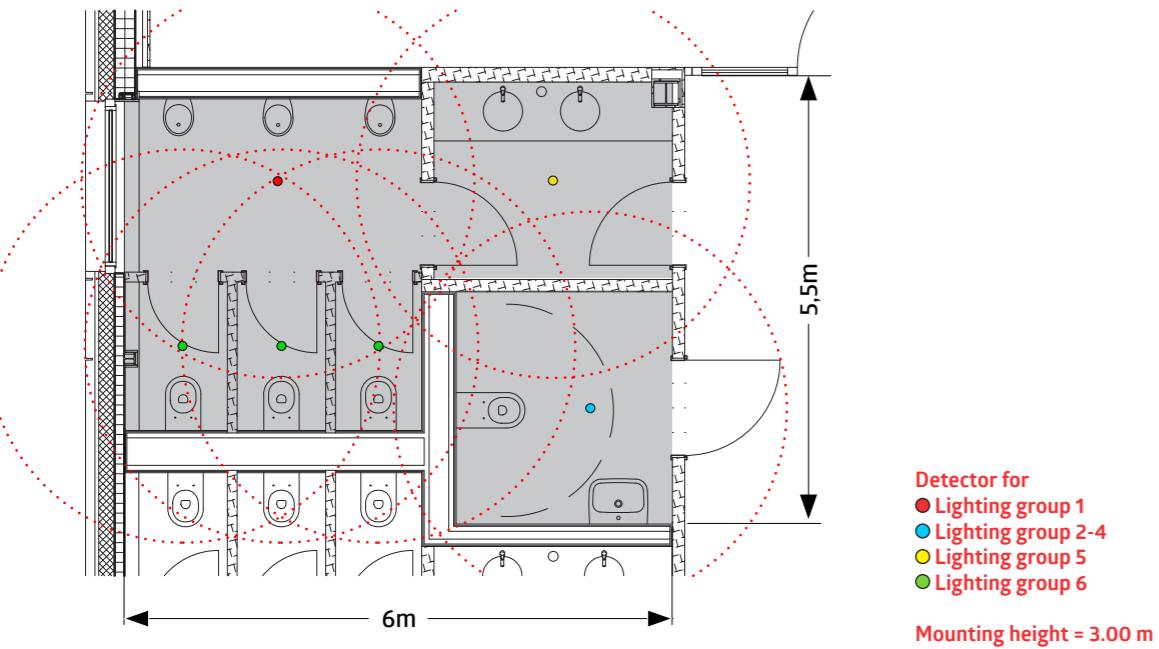
— across  
— frontally  
······ seated activity  
for a mounting height of 2.50 m

### ■ Detection range Type "PD4"



— across  
— frontally  
······ seated activity  
for a mounting height of 2.50 m

## Planning example lavatories with PD3N or PD9 (solid walls)



### Application description:

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 presence 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

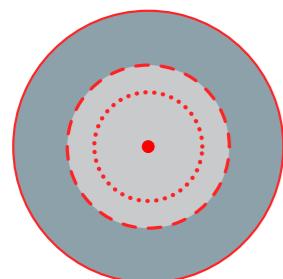
### Device setting:

Follow-up time: 10 min  
 Switch-on threshold: Day (Symbol "Sun")

### Operation mode:

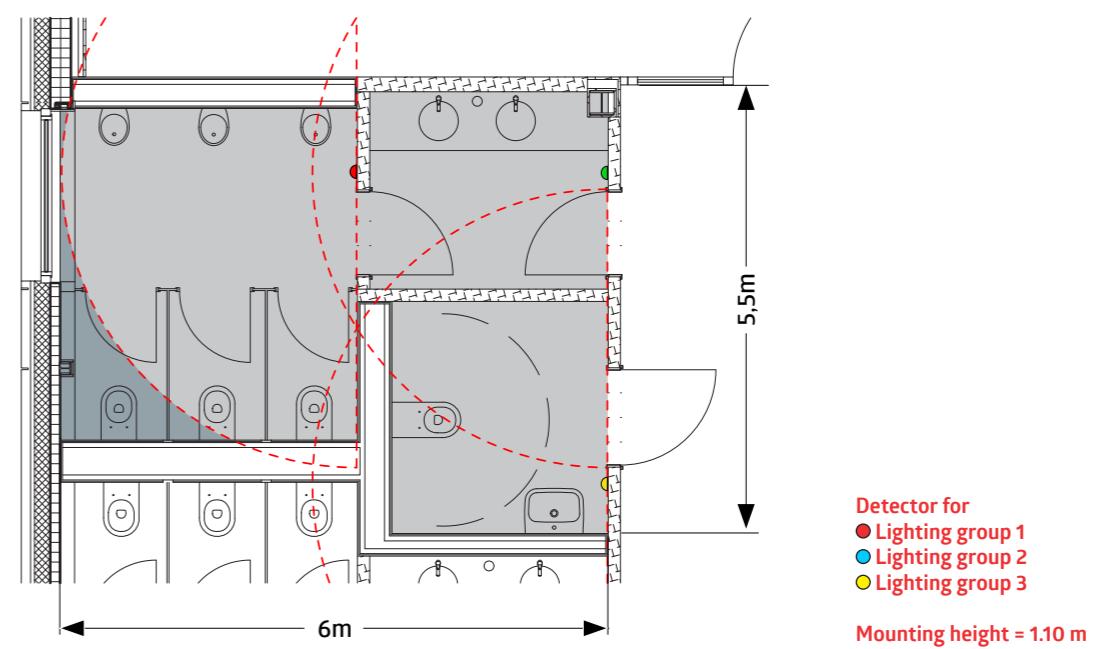
Standard operation (see wiring diagrams PD3N-1C and PD9-1C)

### Detection range Type "PD3N" or "PD9"



— across  $\varnothing 10\text{ m}$   
 - - - frontally  $\varnothing 6\text{ m}$   
 - - - - seated activity  $\varnothing 4\text{ m}$   
 for a mounting height of 2.50 m

## Planning example lavatories with Indoar 180 Micro



### Application description:

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

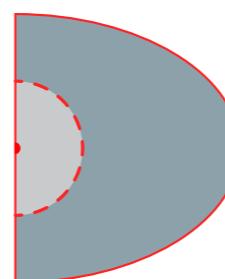
### Device setting:

Follow-up time: 10 min  
 Switch-on threshold: Day (Symbol "Sun")

### Noise sensitivity:

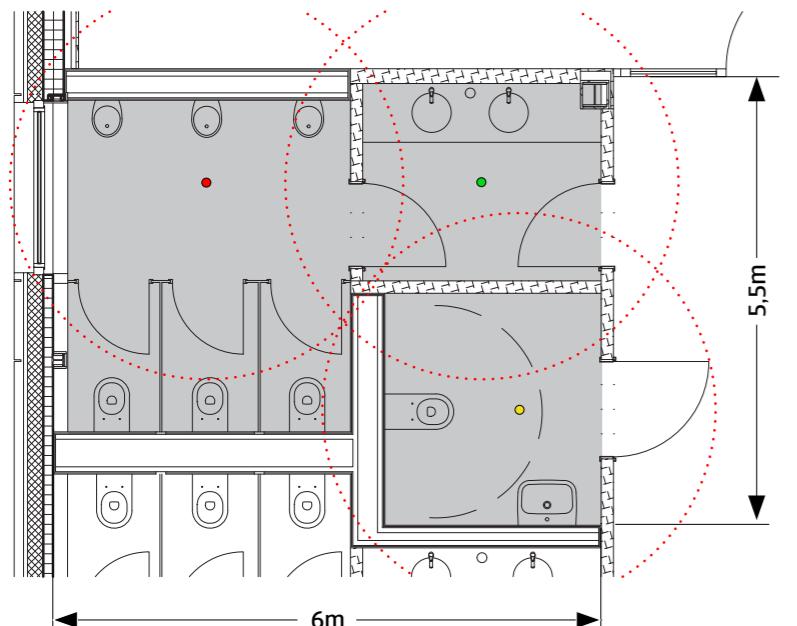
The optimum sensitivity must be determined in a test.

### Detection range Type "Indoor 180"



— across  $\varnothing 10\text{ m}$   
 - - - frontally  $\varnothing 3\text{ m}$   
 for a mounting height of 1.10 m - 2.20 m

## 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

- **Application description:**

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:**

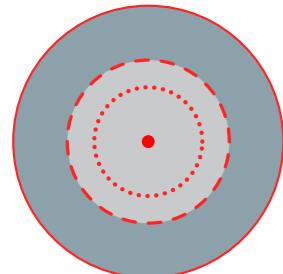
Type: public lavatory without daylight  
Room dimensions:  
L 6.00 x B 5.50 m  
Ceiling height: 3.00 m (clear height)
- **Lighting:**

1 luminaire group with electronic ballasts per room
- **Product listing:**

3 pcs. LUXOMAT® PD3N Micro devices
- **Device setting:**

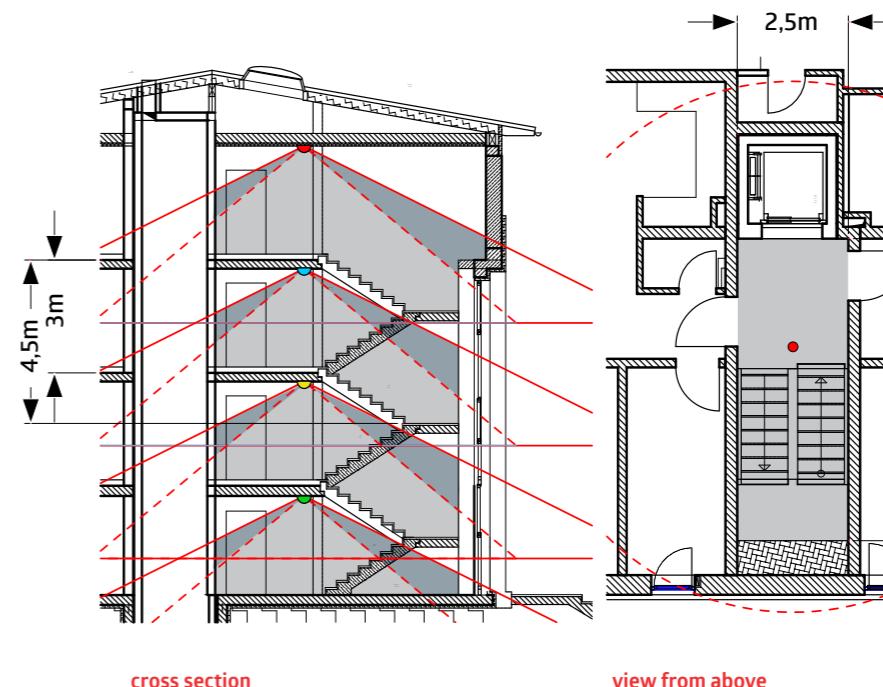
Follow-up time R1: > 5 min  
Switch-on threshold R1: 300 Lux or individually with remote control

- Detection range Type „PD3N“



—	across	Ø 10
- - -	frontally	Ø 6
• • • • •	seated activity	Ø 4

## Planning example staircase with PD2



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

view from above

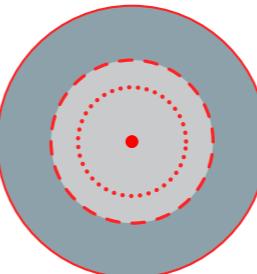
- Application description:

In the stairwell of a multi-family house, four lighting groups (3 floors/1 basement floor) are to be controlled automatically by presence 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)

<b>■ Application description:</b> In the stairwell of a multi-family house, four lighting groups (3 floors/1 basement floor) are to be controlled automatically by presence detectors. The devices should be mounted on the ceiling.	<b>■ Lighting:</b> 1 luminaire group with electronic ballasts per floor	<b>■ Operation mode:</b> Master operation with optional push-button control on the basement floor (see wiring diagram PD2-M-2C)
<b>■ Object data:</b> 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)	<b>■ Product listing:</b> 4 pcs. LUXOMAT® PD2 master device	
	<b>■ Master device setting:</b> 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	

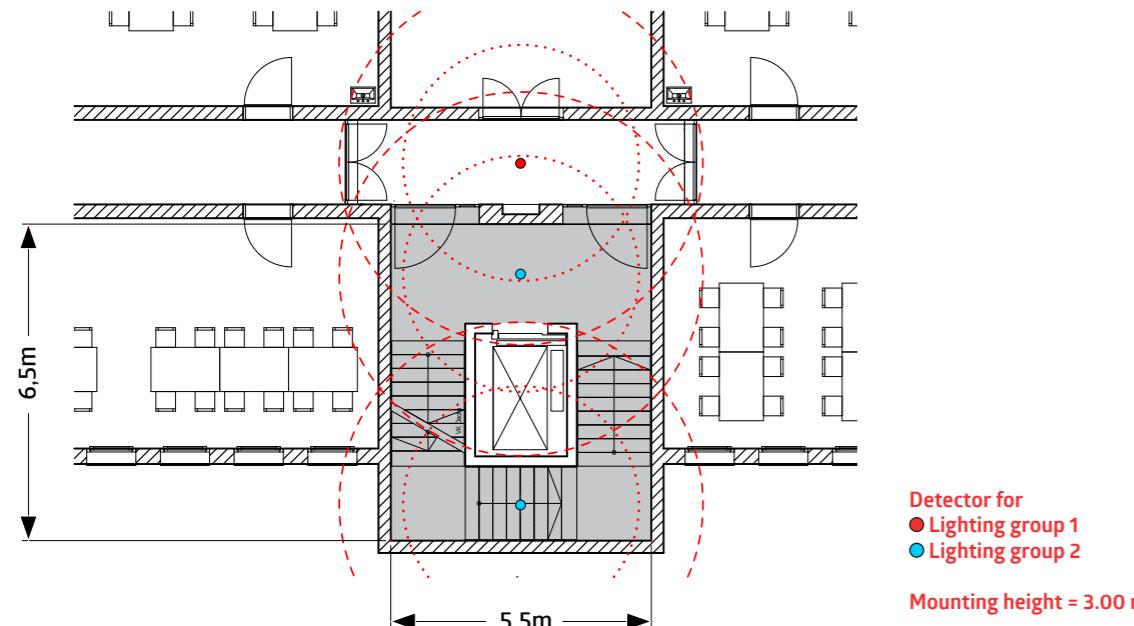
- Detection range Type „PD2“



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

for a mounting height of 2.50 m

## Planning example staircase with PD3N



### Application description:

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

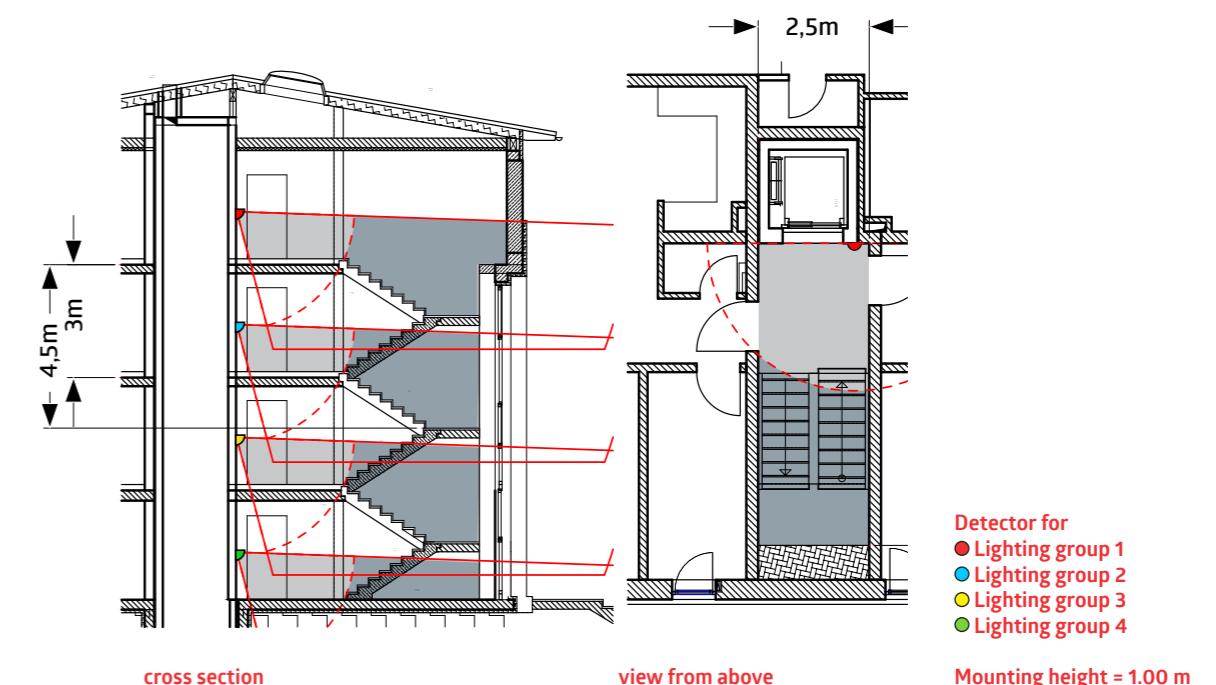
### Device setting:

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)

## Planning example staircase with Indoor 180



### Application description:

In the stairwell of an apartment building, the lighting is to be automatically controlled floor by floor with motion detectors. The motion detectors are to be mounted as wall switches.

### Object data:

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

### Lighting:

1 luminaire group with electronic ballasts per floor

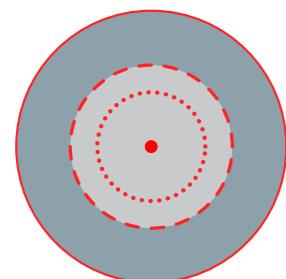
### Product listing:

4 pcs. LUXOMAT® Indoor 180-R devices

### Device setting:

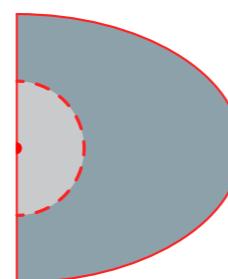
Group 1:  
 Follow-up time R1: 5 min  
 Switch-on threshold R1: Day (Symbol "Sun")  
 Group 2:  
 Follow-up time R1: 5 min  
 Switch-on threshold R1: 300 Lux

### 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 "Indoor 180"

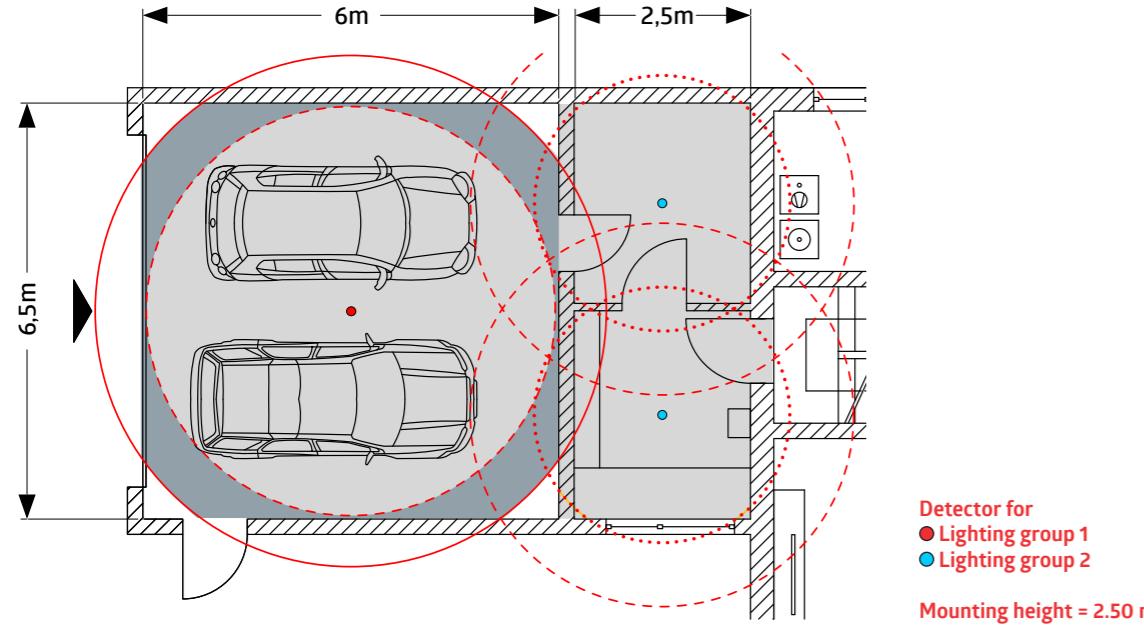


— across Ø 10 m  
 - - - - - frontally Ø 3 m  
 for a mounting height of 1.10 m - 2.20 m

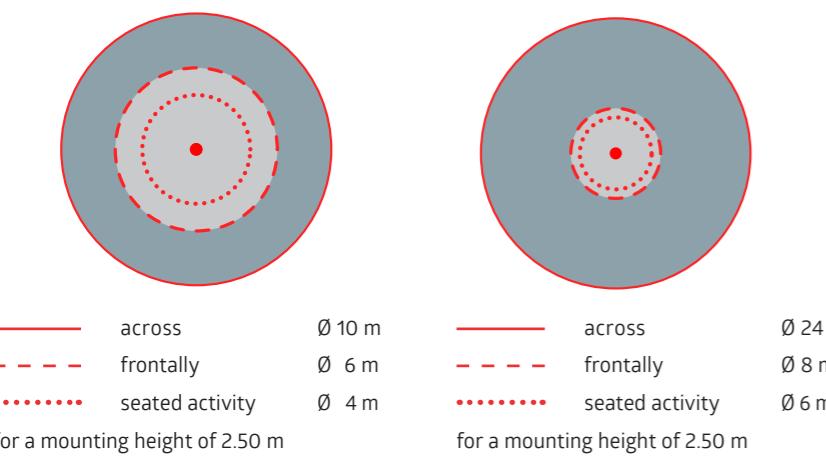




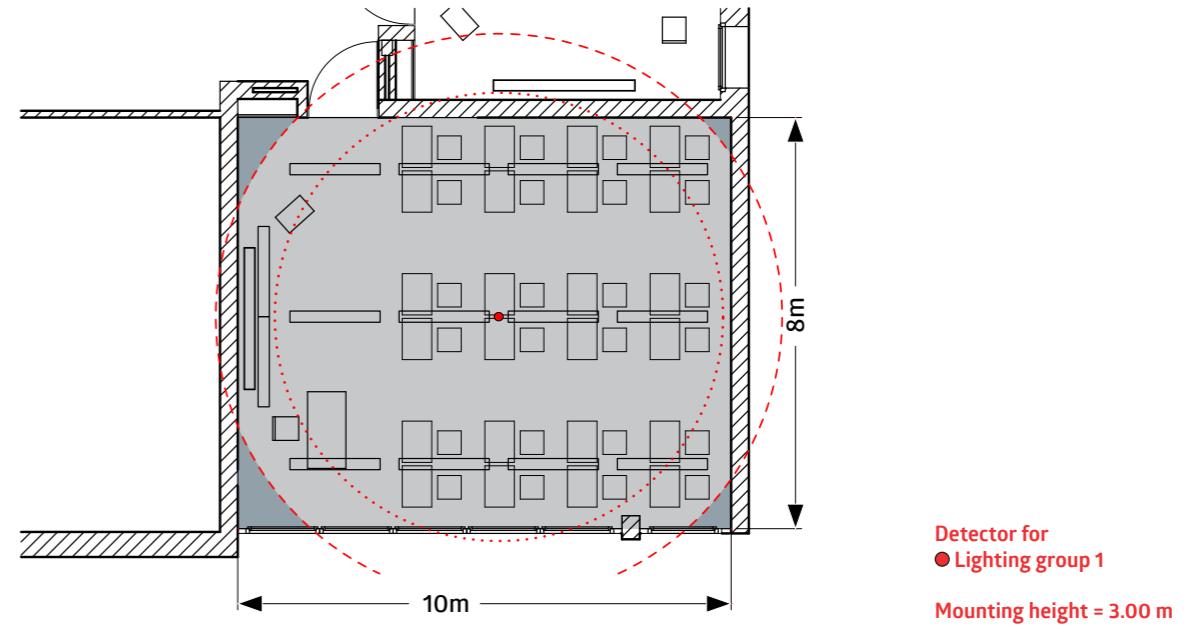
## Planning example single garage with PD4N and PD3N



- **Application description:**  
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



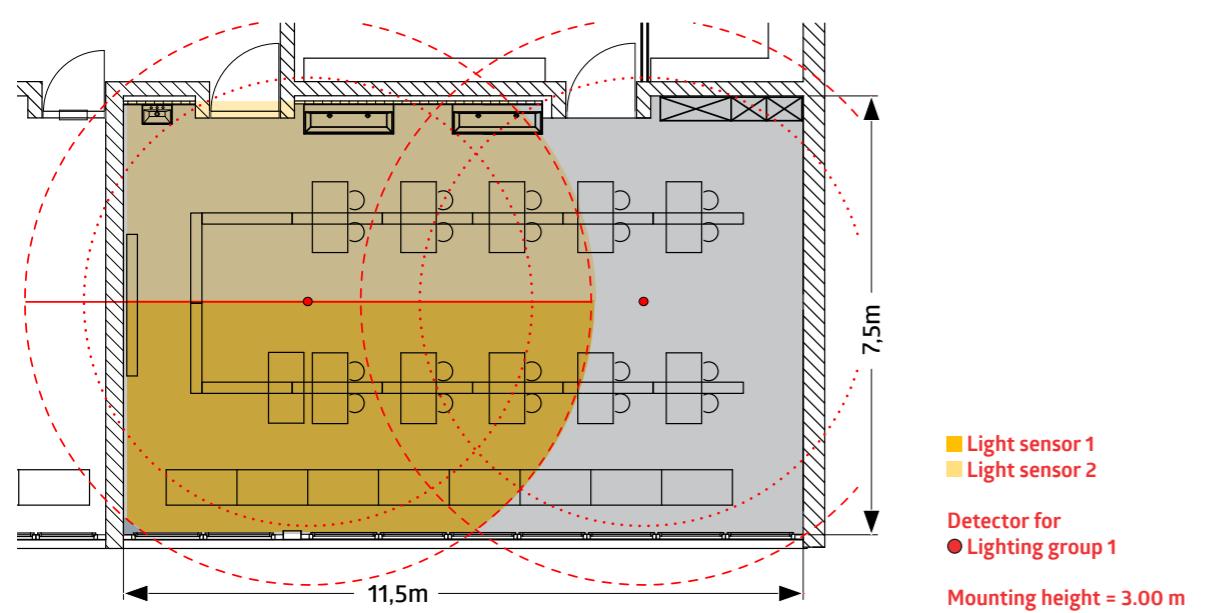
## Planning example classroom with PD4



- **Application description:**  
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 presence 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)

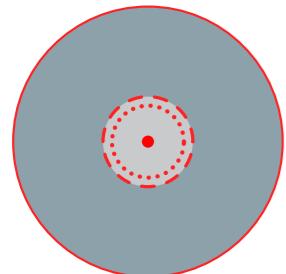


## Planning example classroom with PD4-DUO



- **Application description:**  
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 presence detector is to be mounted on the ceiling.
- **Note:**
- **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

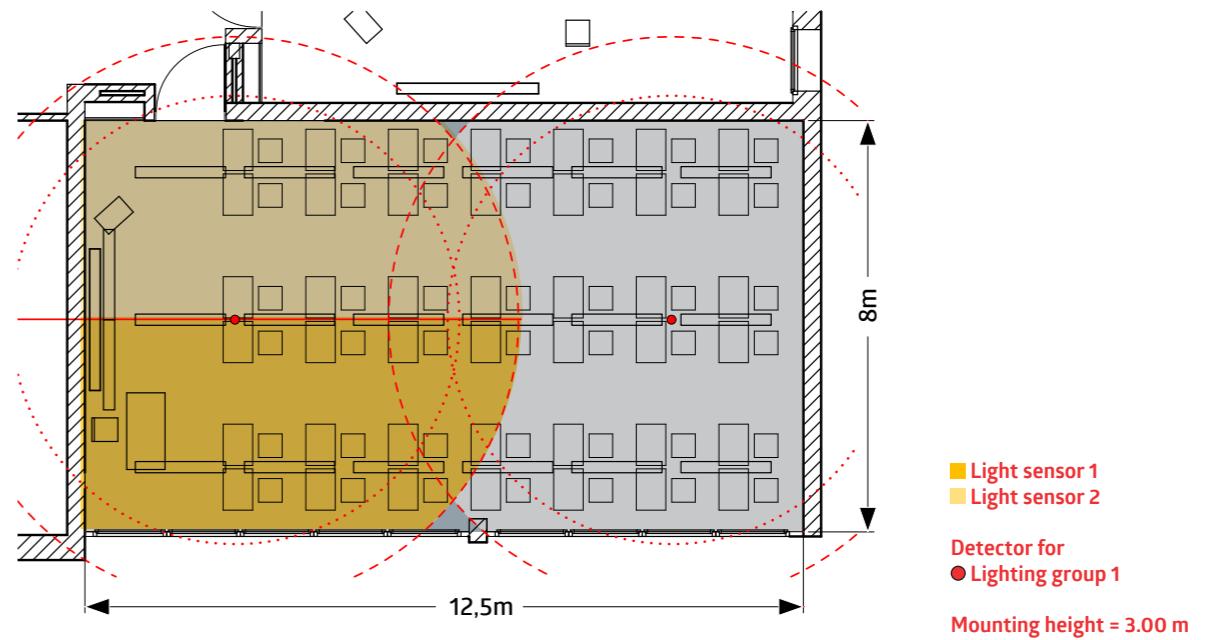
- **Detection range Type „PD4-DUO“**



—	across	Ø 24 m
- - -	frontally	Ø 8 m
• • • • •	seated activity	Ø 6 m

for a mounting height of 2.50 m

## Planning example classroom with PD4-DAA4G



- **Application description:**

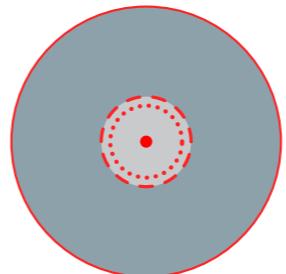
In a classroom with a window front, three light bands and separate blackboard lighting, the lighting is to be controlled according to presence and daylight. The difference in brightness between the wall and window sides is to be compensated so that the same brightness prevails at each pupil's desk. In 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
- **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

- Detection range Type „PD4-DAA4G“



—	across	Ø 24 m
- - -	frontally	Ø 8 m
• • • • •	seated activity	Ø 6 m

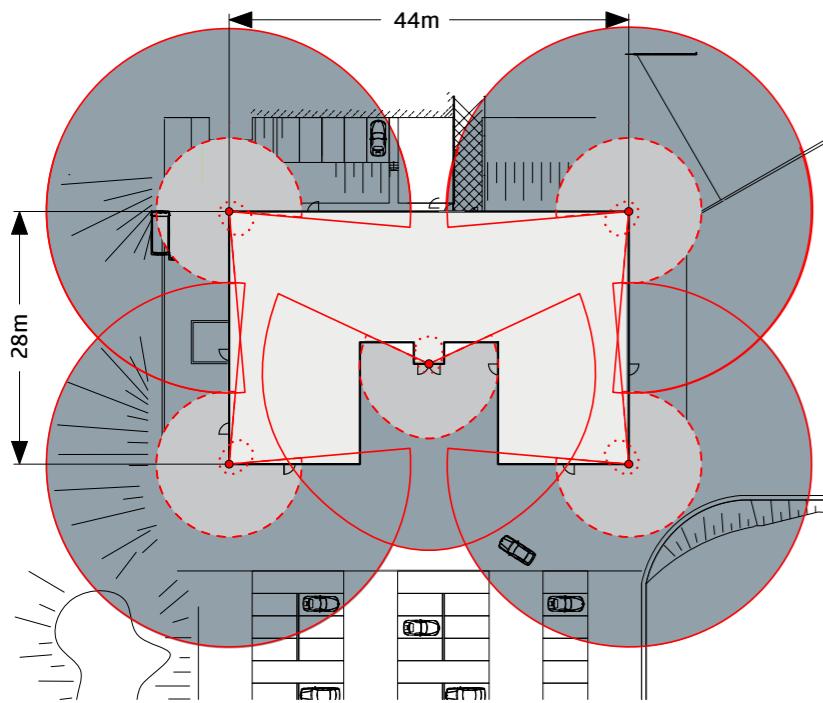
for a mounting height of 2.50 m

**Product listing:**  
ocs. LUXOMAT® PD4 master DAA4G device  
ocs. LUXOMAT® PD4 slave DAA4G device

**Master device setting:**  
ollow-up time DALI-Group 1-4: > 5 min  
witch-on threshold :DA1 - DA4: 500 Lux  
ain lighting: full automatic  
ALI group 1-3)  
annel lighting: semi-automatic  
ALI group 4)  
ollow-up time HVAC: 15 min

**Operation mode:**  
andard mode (see wiring diagram PD4-  
DAA4G)

## Planning example building with RC-plus next N

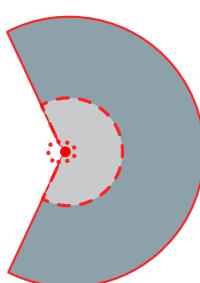


**Application description:**  
In the outdoor area of an office building, the lighting should be reliably switched by motion detectors. As few detectors as possible should be required to cover the entire area.

**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.

**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

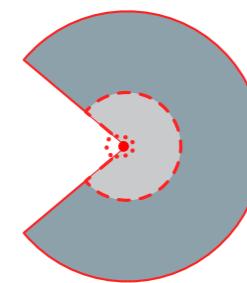
**Object data:**  
Type: Exterior office building

**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

**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

**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

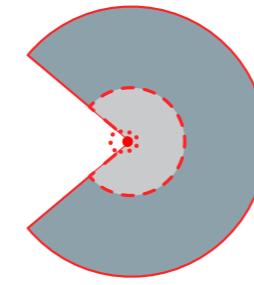
**Application description:**

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.

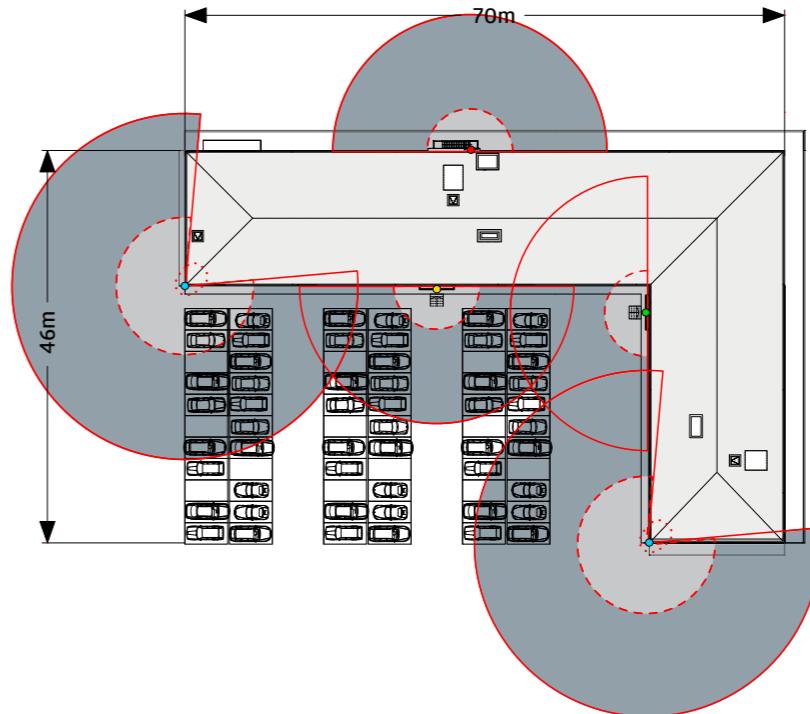
**Detection range Type  
"RC-plus next N 280"**



—	across	max. 20 m
- - -	frontally	max. 6 m
.....	Anti-creep zone	max. 4 m

for a mounting height of 2.50 m

## Planning example building with RC-plus next N and Aleum



**Object data:**  
Type: Exterior administration building

**Building dimensions:**  
L 70.00 x B 46.00 m  
Storey height: 3.00 m

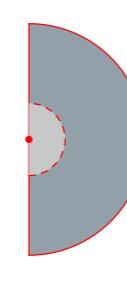
**Lighting:**  
1 Lighting group

**Product listing:**  
2 pcs. LUXOMAT® RC-plus next N 280-devices  
3 pcs. LUXOMAT® Aleum Glow 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

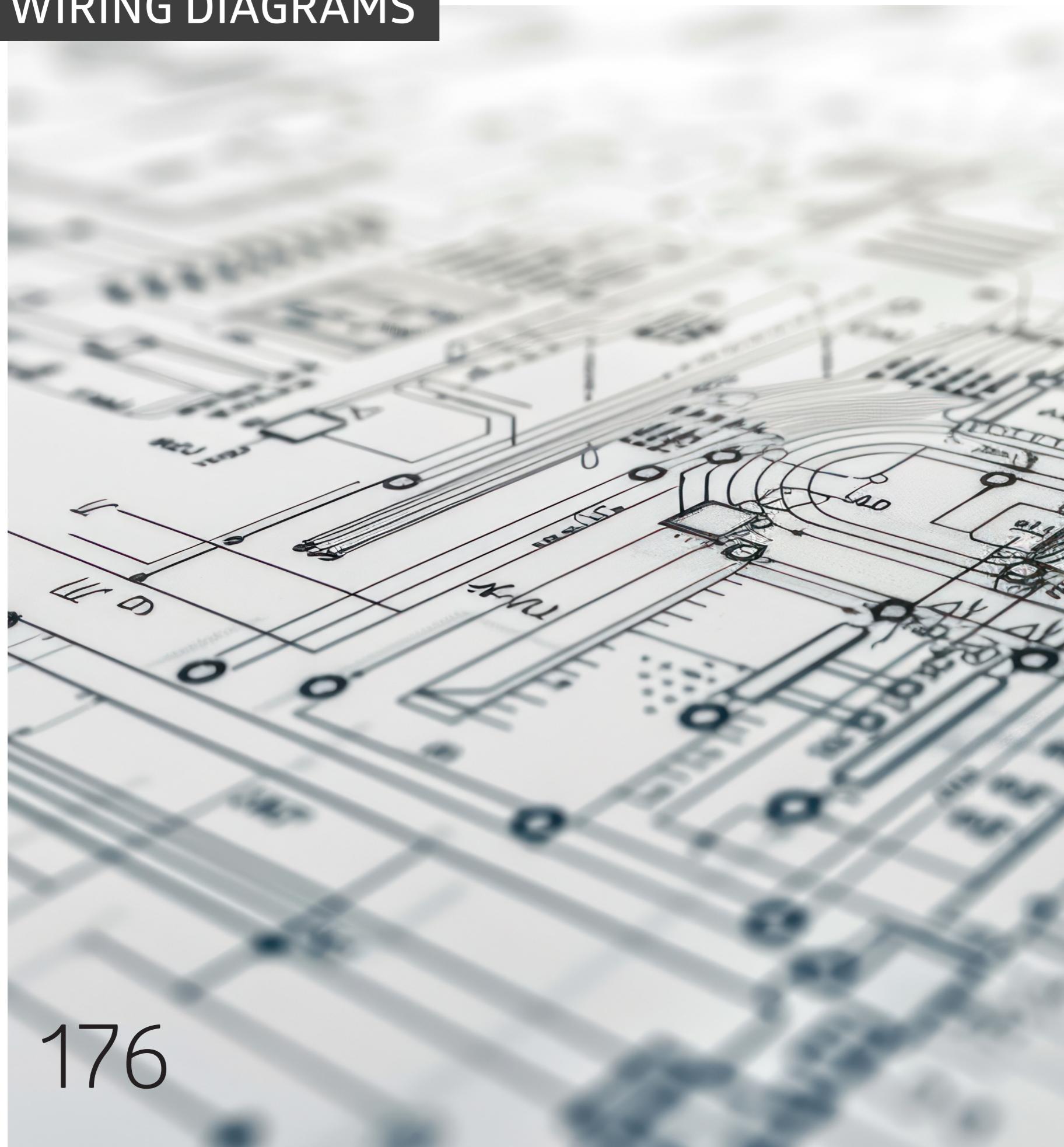
**Detection range Type  
"Aleum Glow"**



—	across	max. 16 m
- - -	frontally	max. 5 m
.....	Anti-creep zone	max. 4 m

for a mounting height of 2.50 m

# WIRING DIAGRAMS



## Top-quality products from B.E.G. – quick and easy to install

For over 50 years, we have stood for outstanding quality and reliable solutions. But B.E.G. quality goes far beyond perfect functionality and attractive design. The high standards we set for our products begin in the development department.

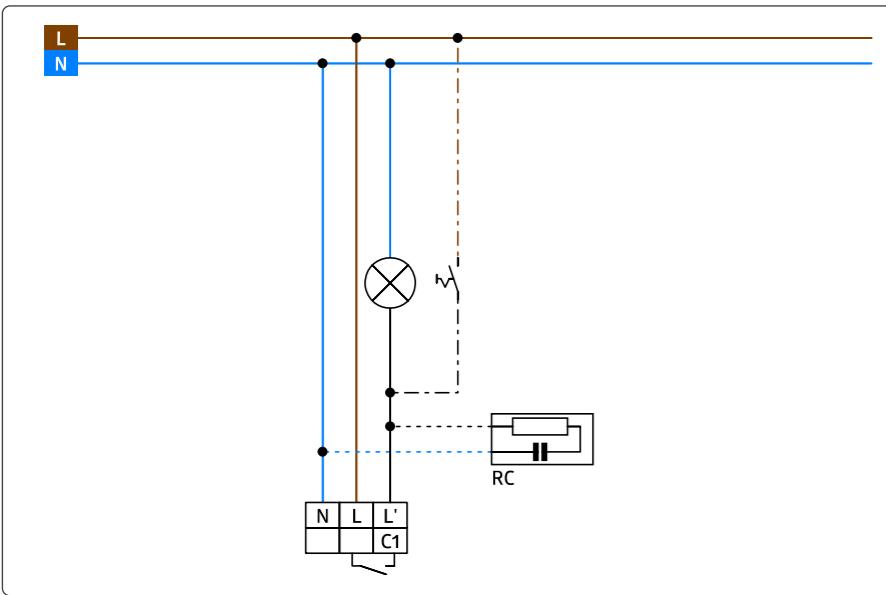
No compromises are made here: B.E.G. developers place great importance on high material quality and innovative technology. They are constantly searching for optimal solutions and new, user-friendly functions.

Right from the development stage, we ensure that our products can be installed quickly and with minimal effort. Our motion and presence detectors can be used to implement various circuit configurations. An overview can be found on the following pages, which contain the circuit diagrams for the detectors featured in this catalogue.

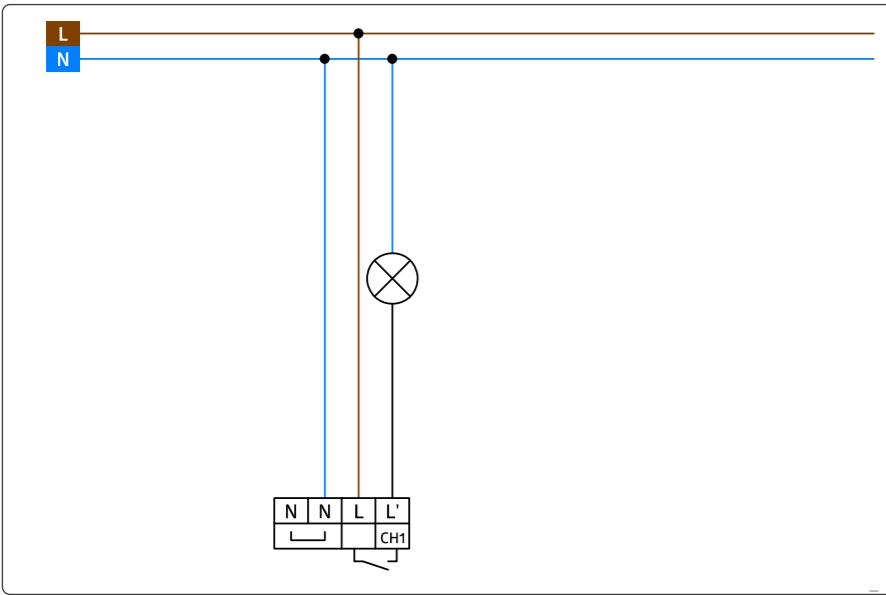
If you would like advice, please contact us. Our field and office staff will be happy to help you select the right products and plan your project.

## Wiring diagrams

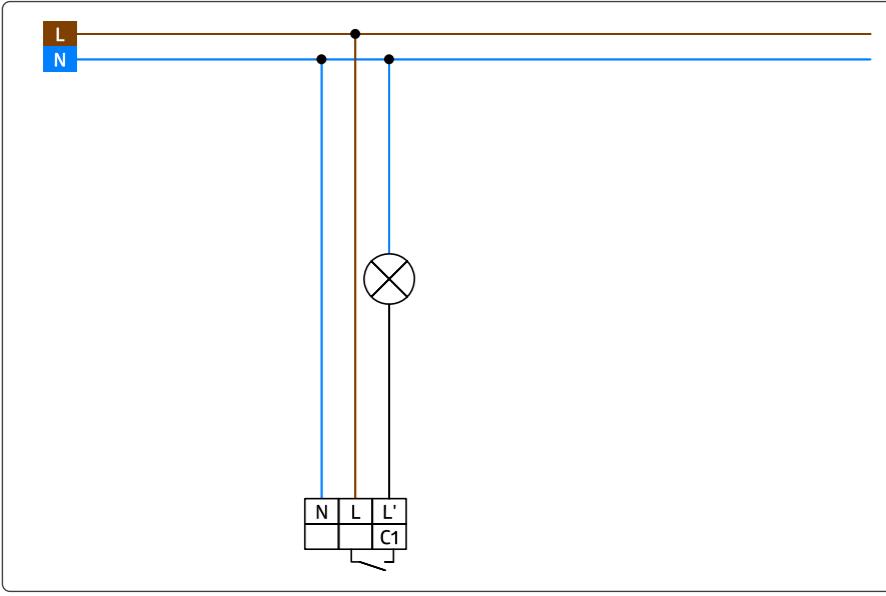
## Wiring diagrams



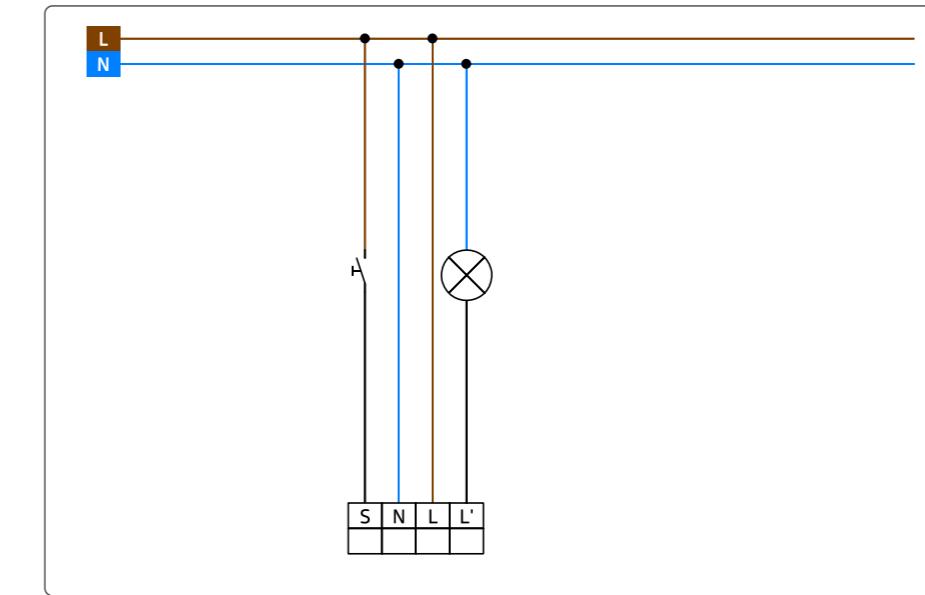
- RC-plus next N 130
- RC-plus next N 230
- RC-plus next N 280
- LC-plus 280
- LC-Click-N 140
- LC-Click-N 200
- HF-MD1
- HF-MD2
- PD3N-1C
- PD4N-1C-K
- PD9-1C
- PD9-1C-GH
- PD3N-1C Micro
- PD4N-1C



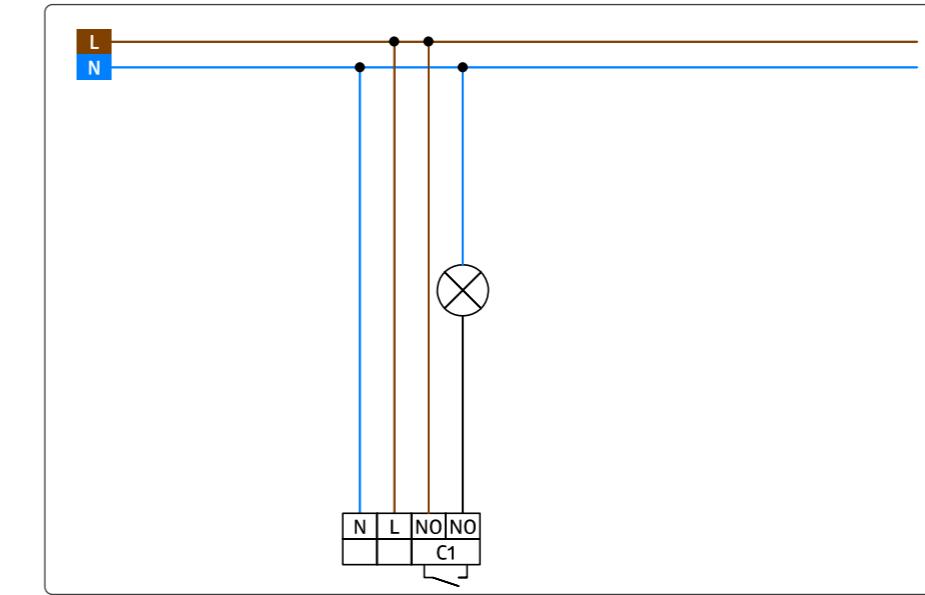
- Aleum Glow



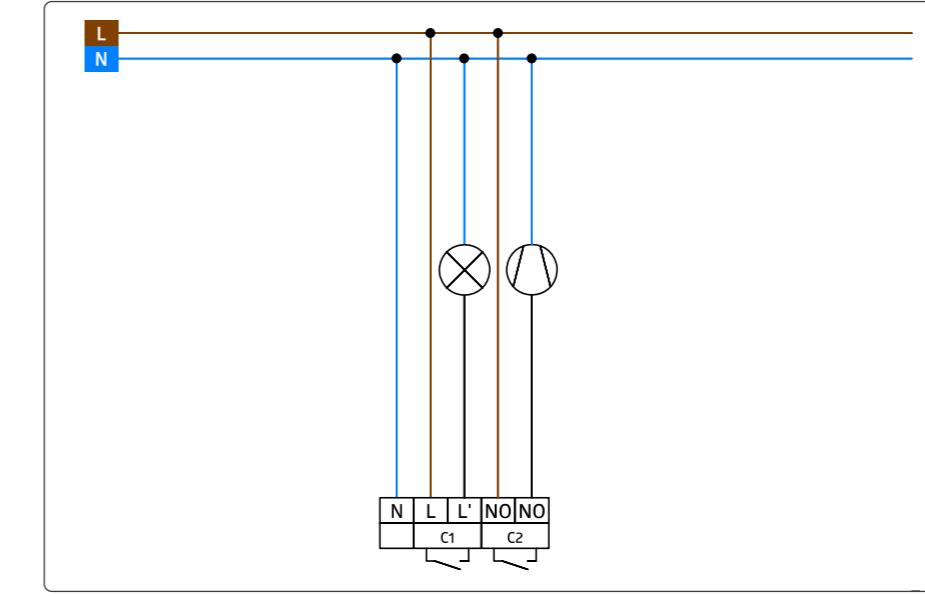
- BL2



- BL4-C
- BL4
- BL4-PLUS



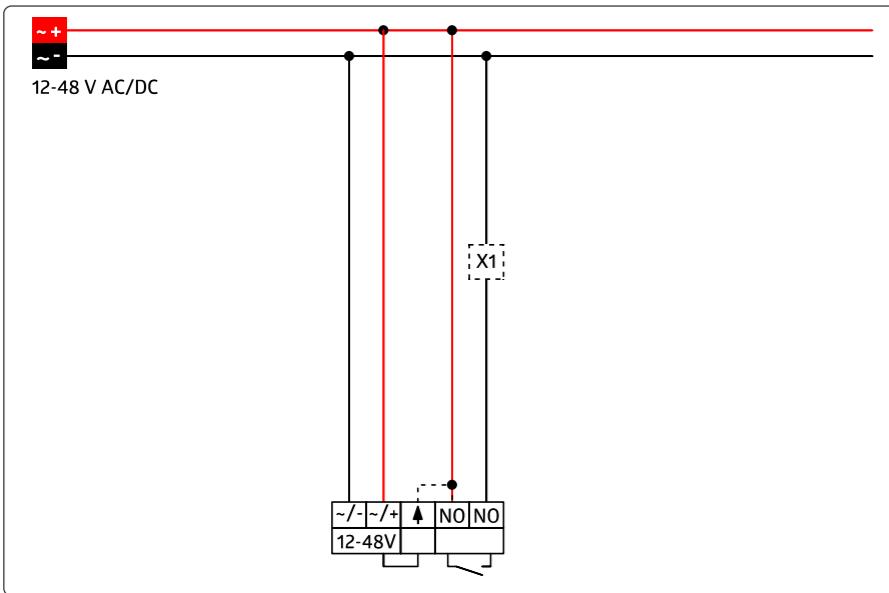
- PD3N-1C-NO-PF
- OCCULOG-1C
- PD9-M-1C-SDB-IP65
- PD9-M-1C-SDB-IP65-GH



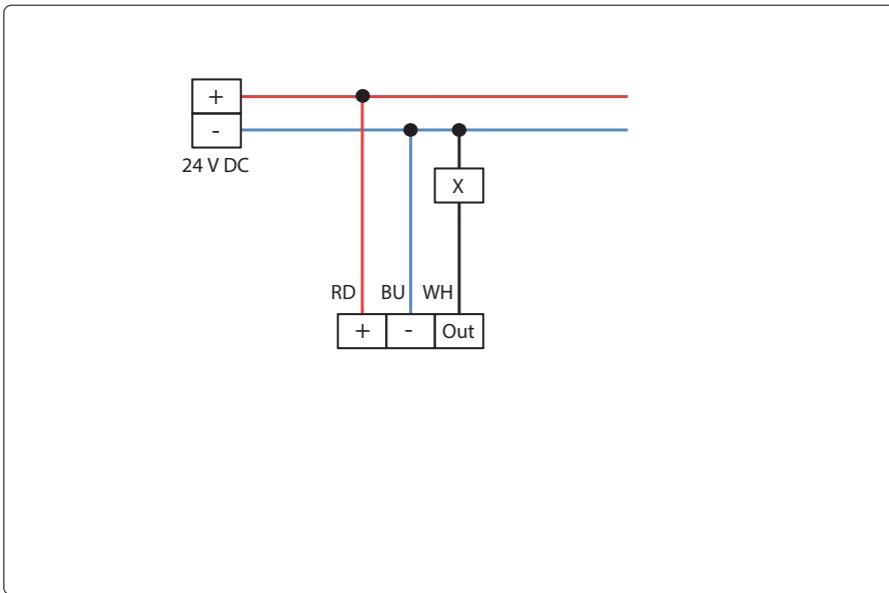
- PD3N-2C

## Wiring diagrams

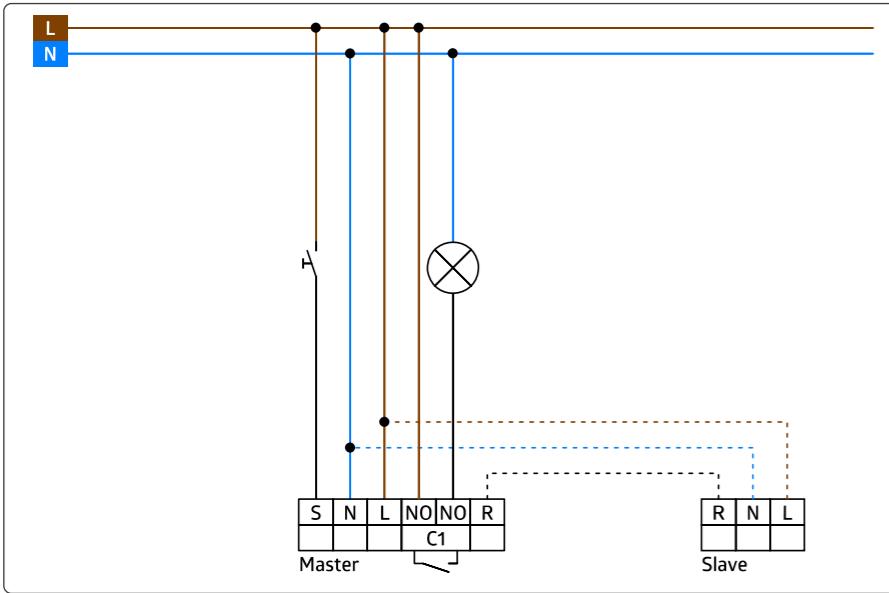
## Wiring diagrams



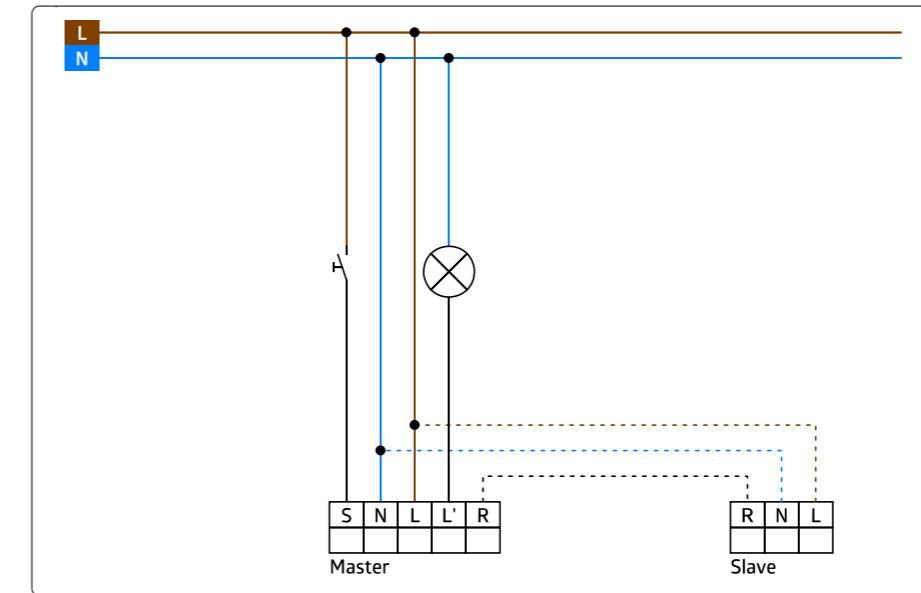
■ PD9-1C-12-48'



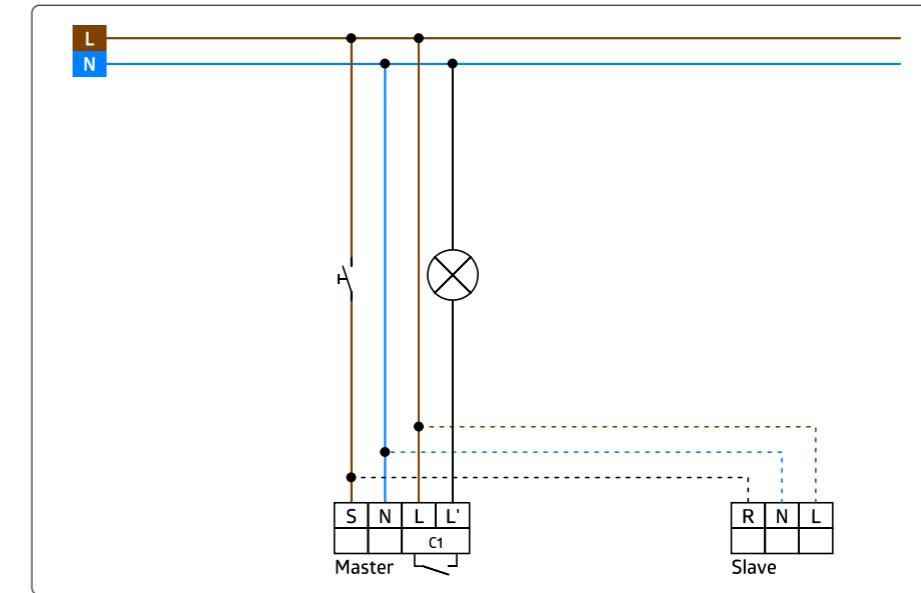
■ PD9-SH-24V



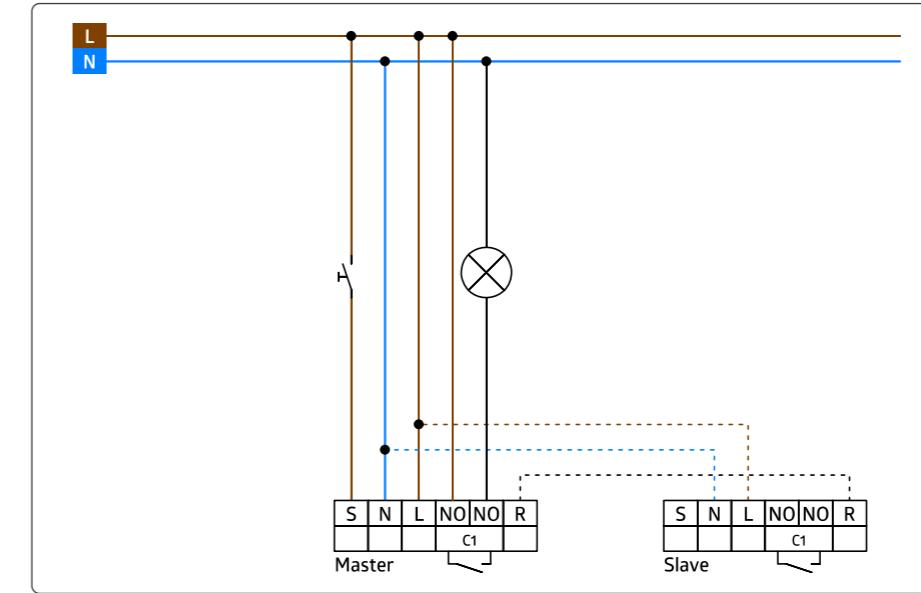
- PD2-M-1C
- PD4-M-1C
- PD4-M-1C-C
- PD4-M-1C-GH
- PD9-M-1C
- PD9-M-1C-GH
- PD2-S
- PD11-S-FLAT
- PD4-S
- PD4-S-C
- PD4-S-GH
- PD9-S
- PD9-S-GH



### ■ PD11-M-1C-FLAT



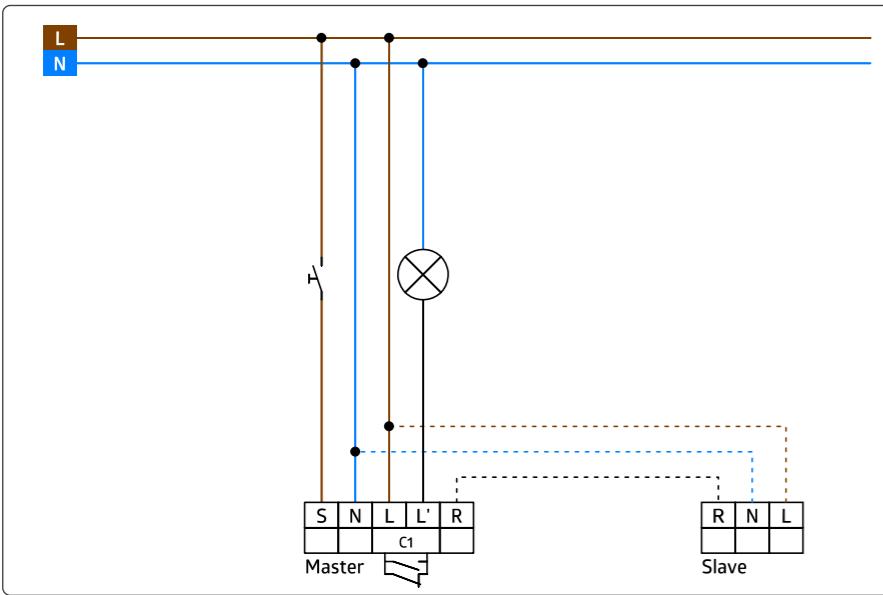
- PICO-N-M-1C
- PICO-S



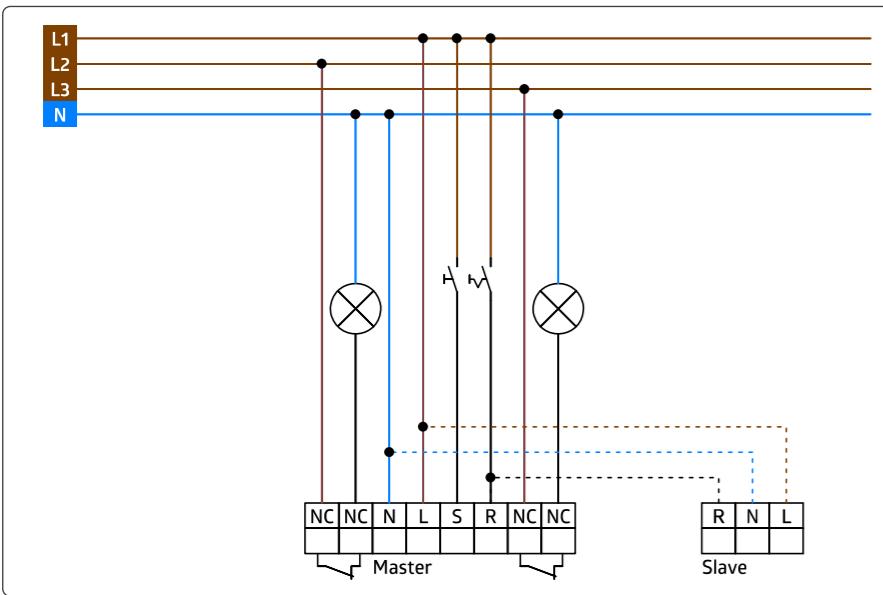
- PD2N-M-1C-LED

## Wiring diagrams

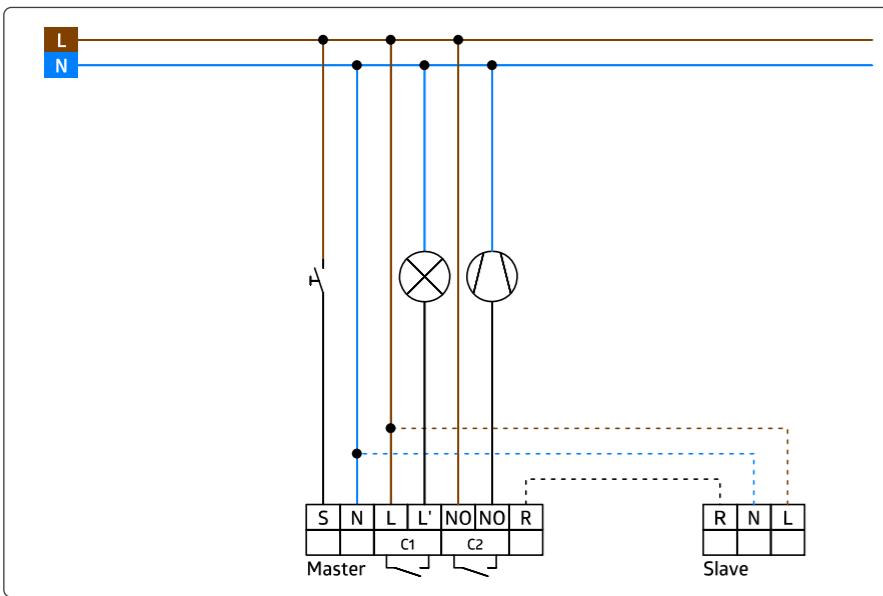
## Wiring diagrams



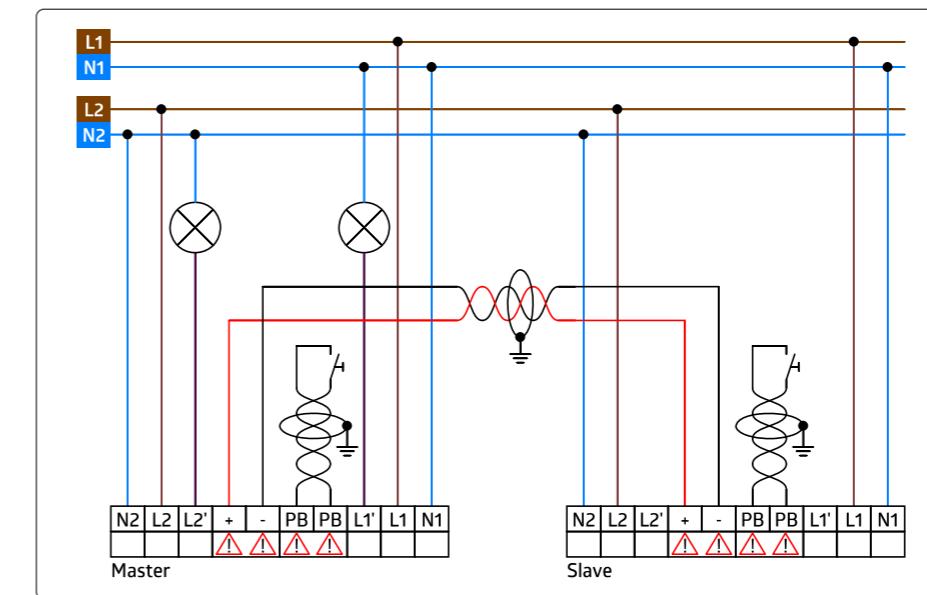
## ■ PD4-M-1C-C-P



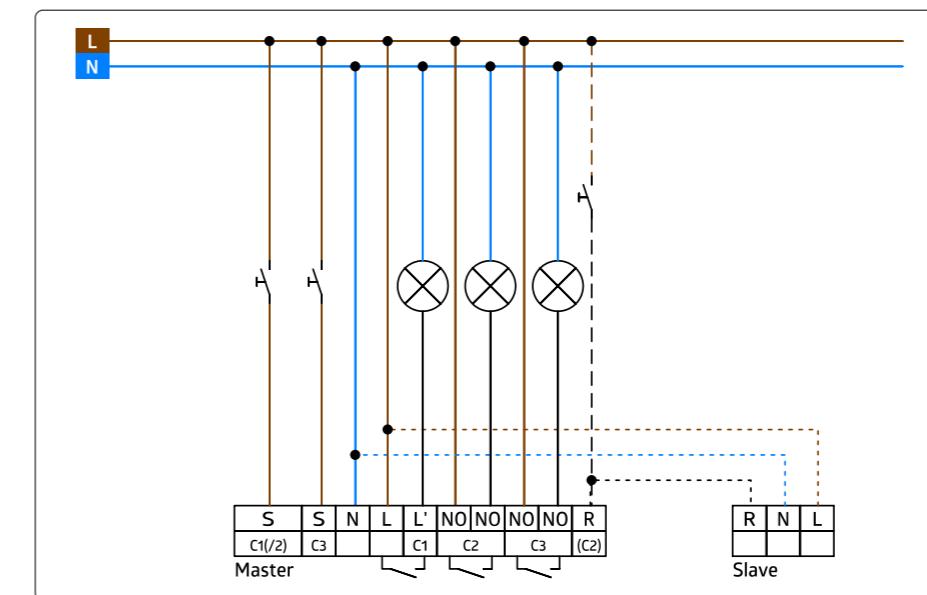
## ■ PD4-M-TRIO-C-3



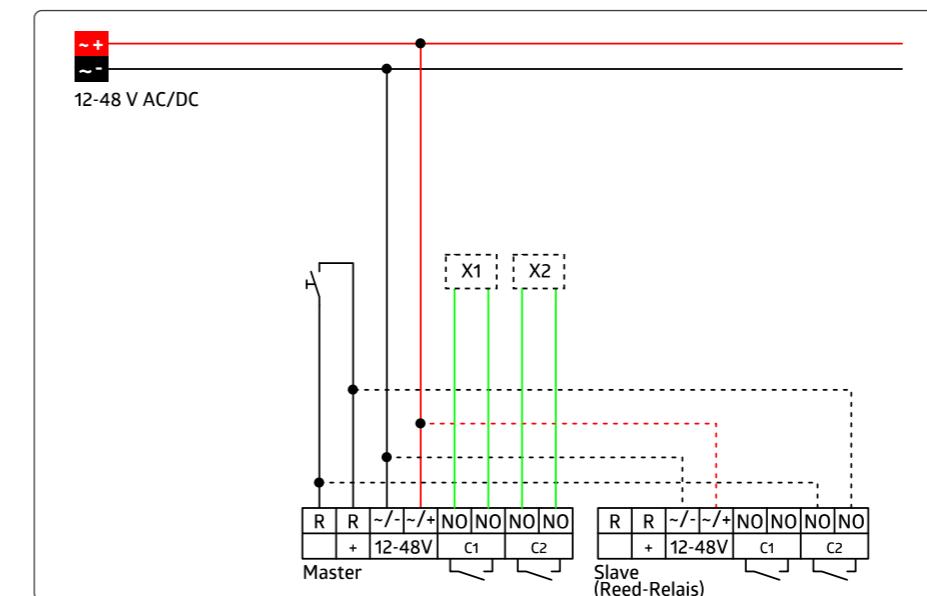
- PD2-M-2C
- PD4-M-2C
- PD4-M-2C-C
- PD9-M-2C
- Indoor 180-M-2C
- Indoor 180-S



## ■ PD4-M-2C-DS



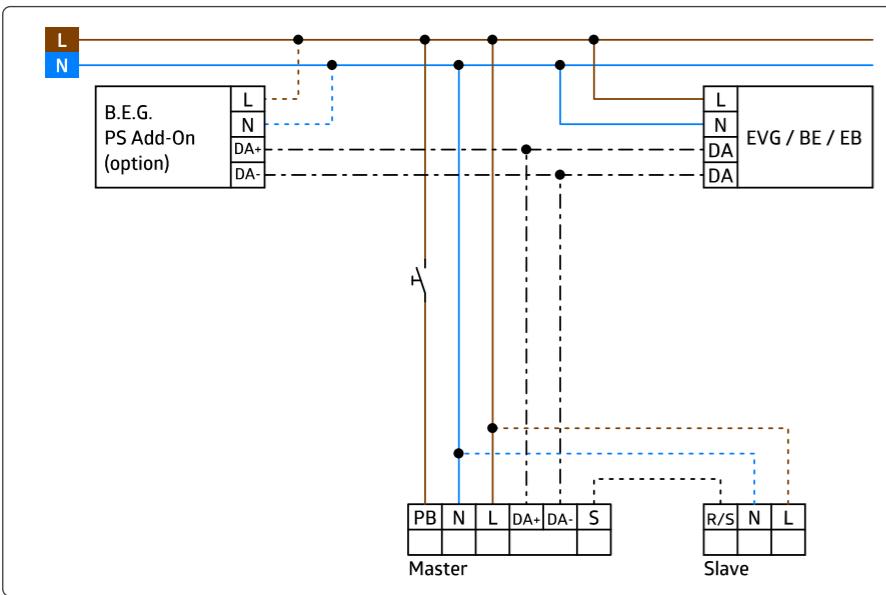
## ■ PD4-M-3C-TRIO



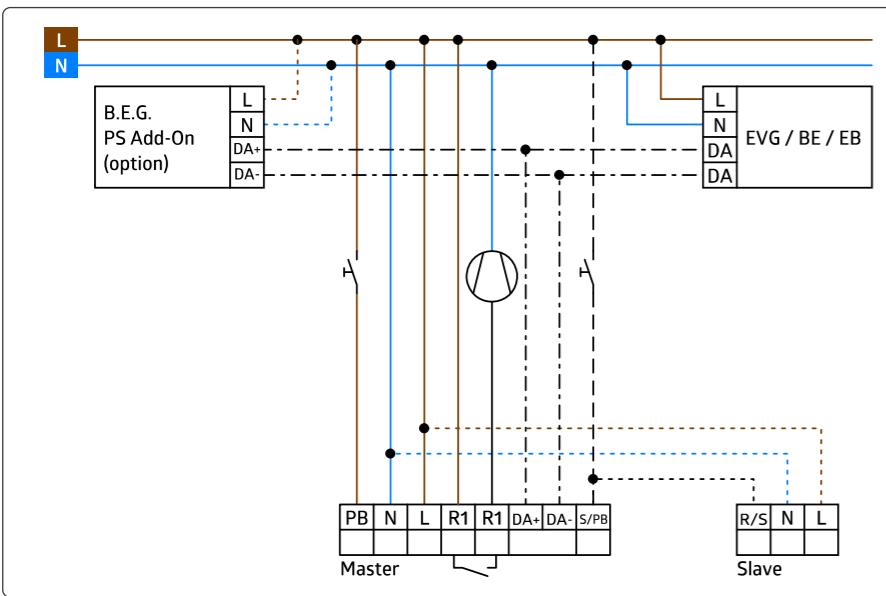
- PD2-M-2C-12-48V-3A
- PD2-M-2C-12-48V-RR

## Wiring diagrams

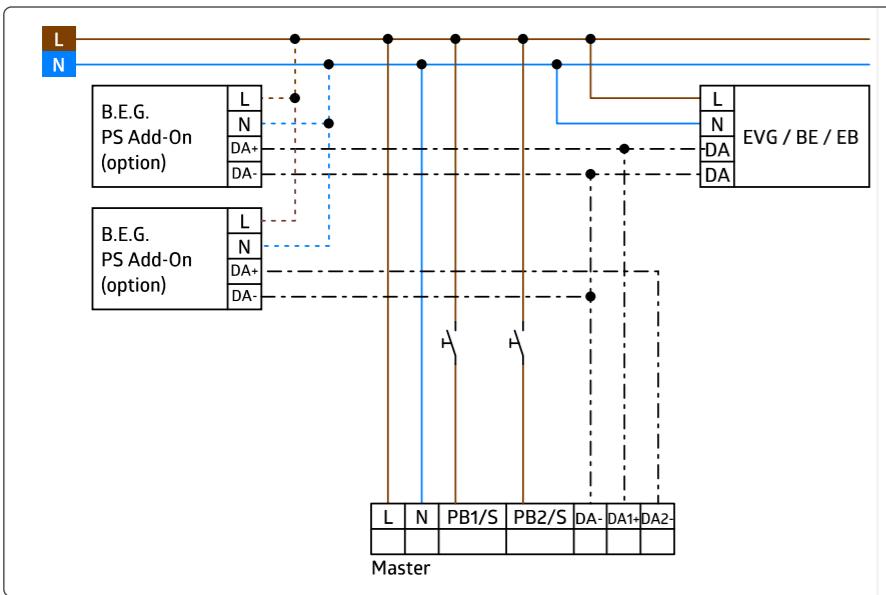
## Wiring diagrams



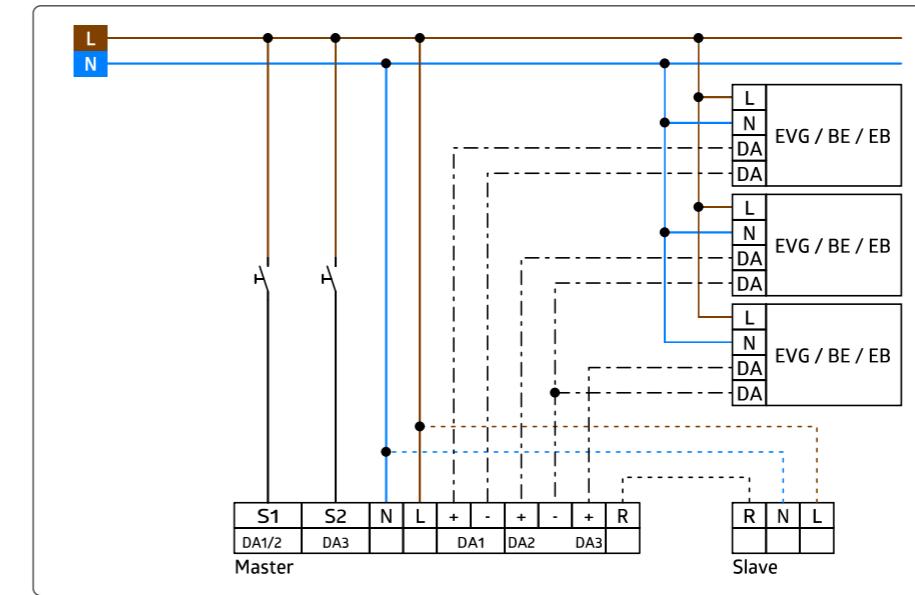
- PD2N-M-DACO DALI-2
- PD4N-M-DACO DALI-2
- PD4-M-DACO-GH DALI-2
- PD9-M-DACO DALI-2
- PD11-M-DACO-FLAT DALI-2



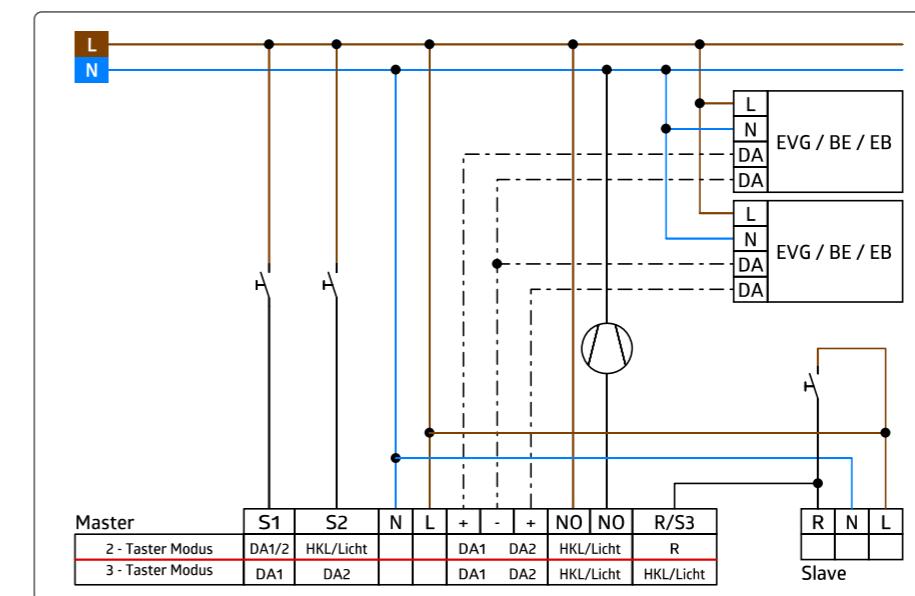
- PD2N-M-DACO-1C DALI-2
- PD4N-M-DACO-1C DALI-2



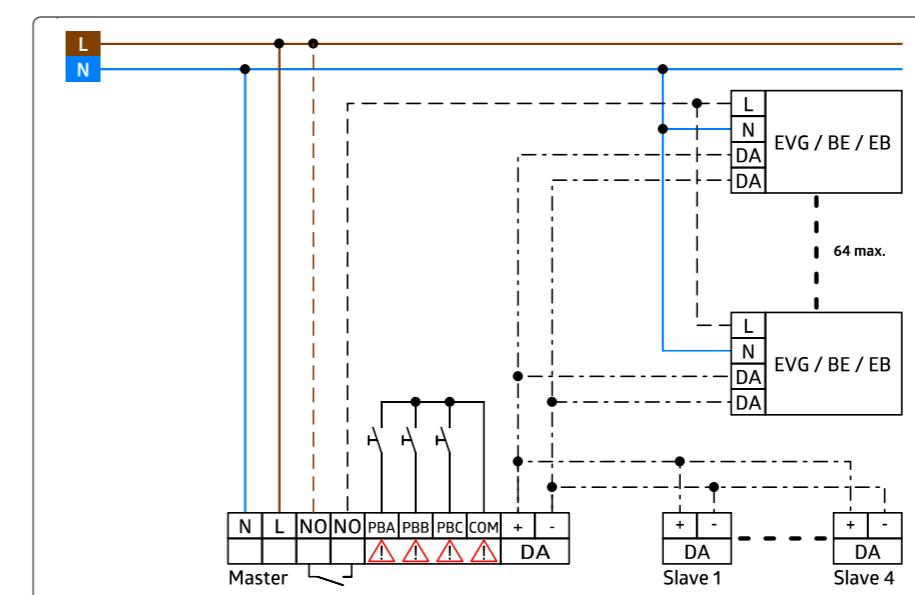
- PD2N-M-DACO-DUO DALI-2
- PD4N-M-DACO-DUO DALI-2



- PD4-M-TRIO-DALI/DSI



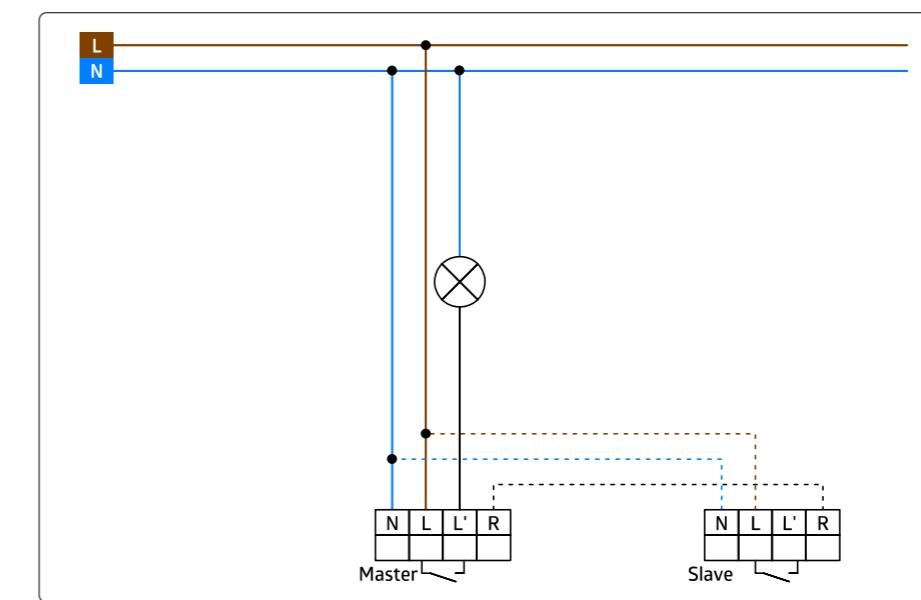
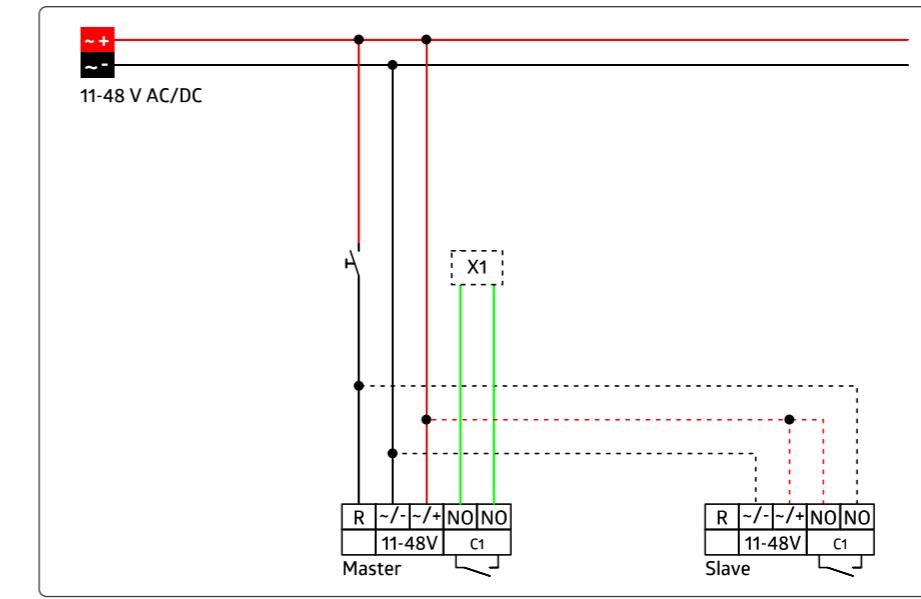
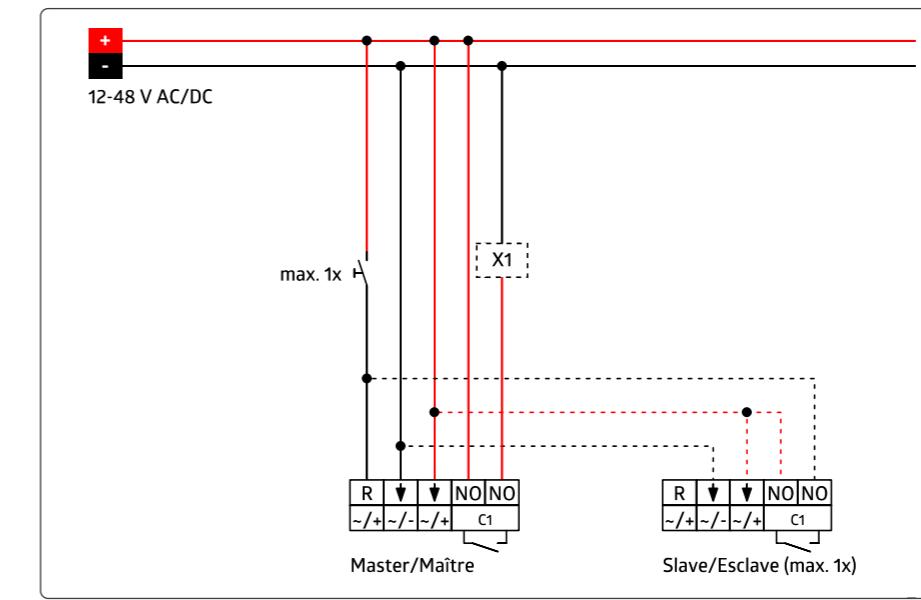
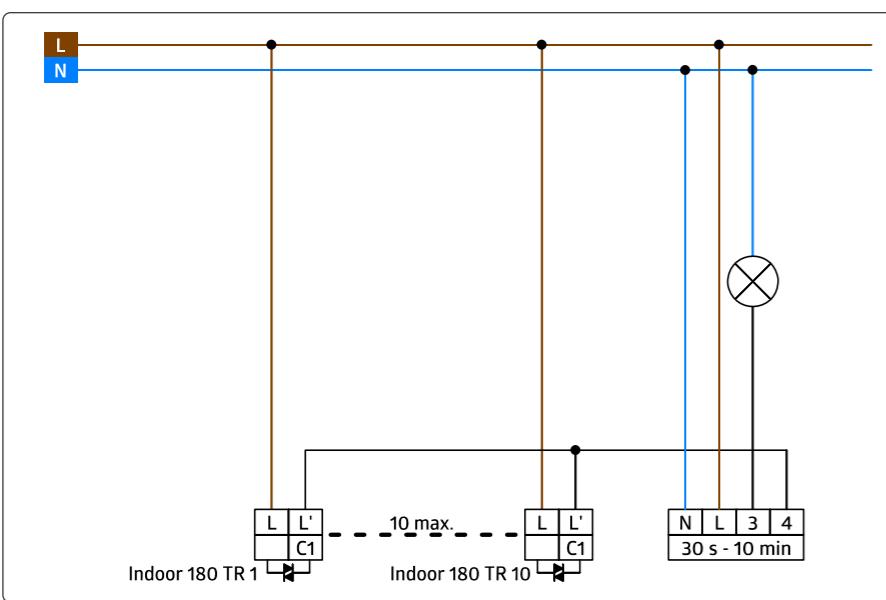
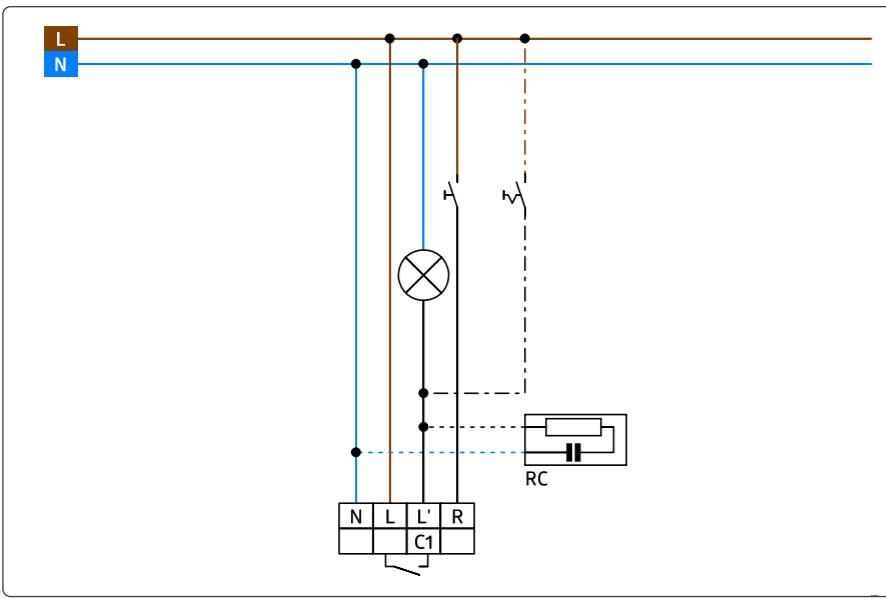
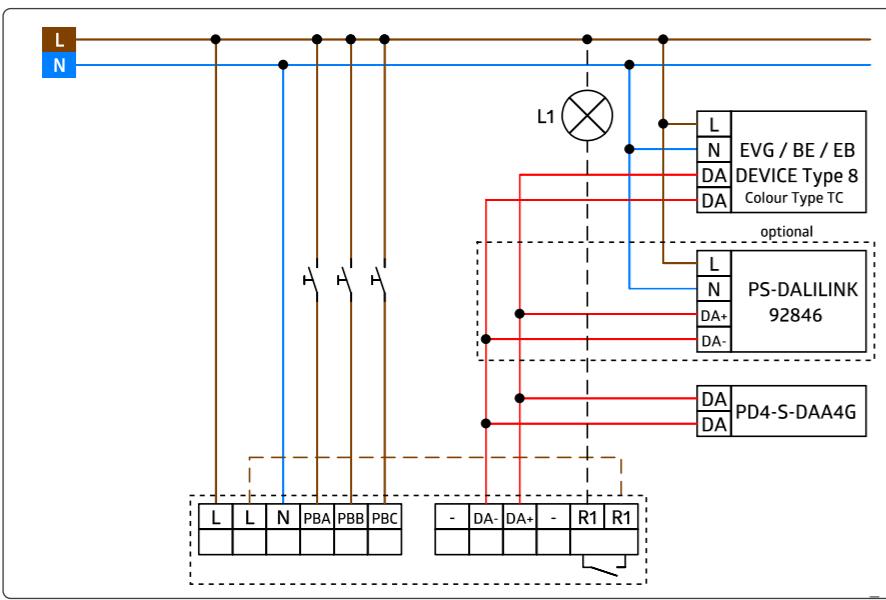
- PD4-M-TRIO-2DALI/DSI-1C



- PD4-M-DAA4G
- PD4-S-DAA4G

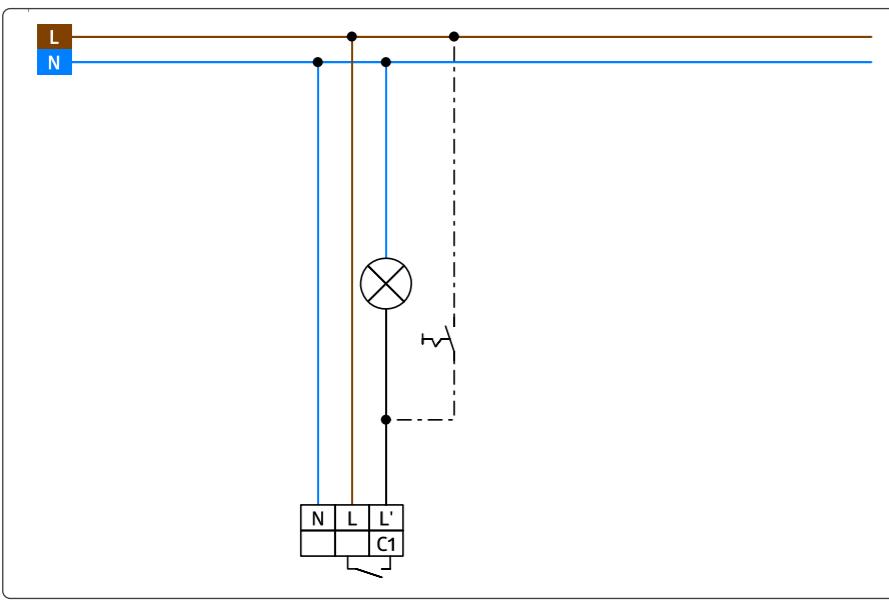
## Wiring diagrams

## Wiring diagrams

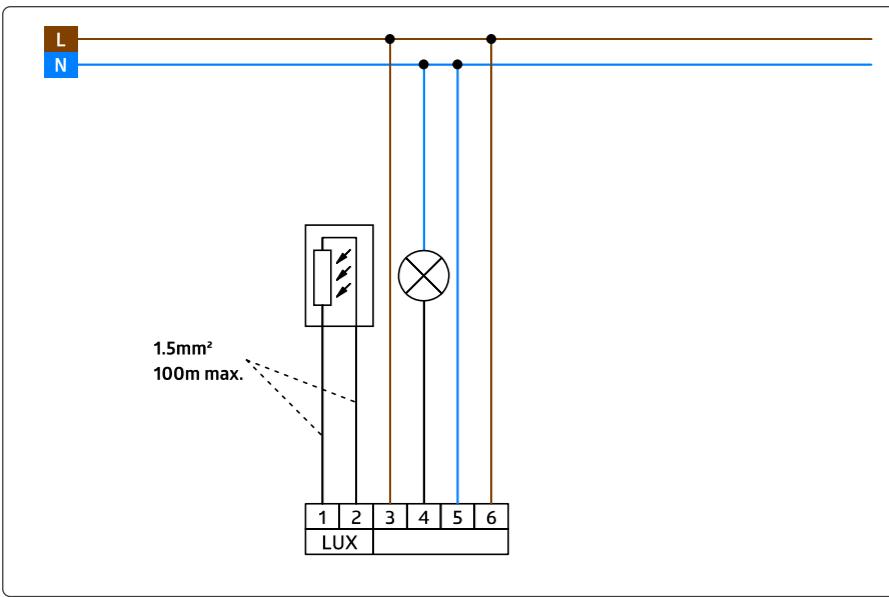


## Wiring diagrams

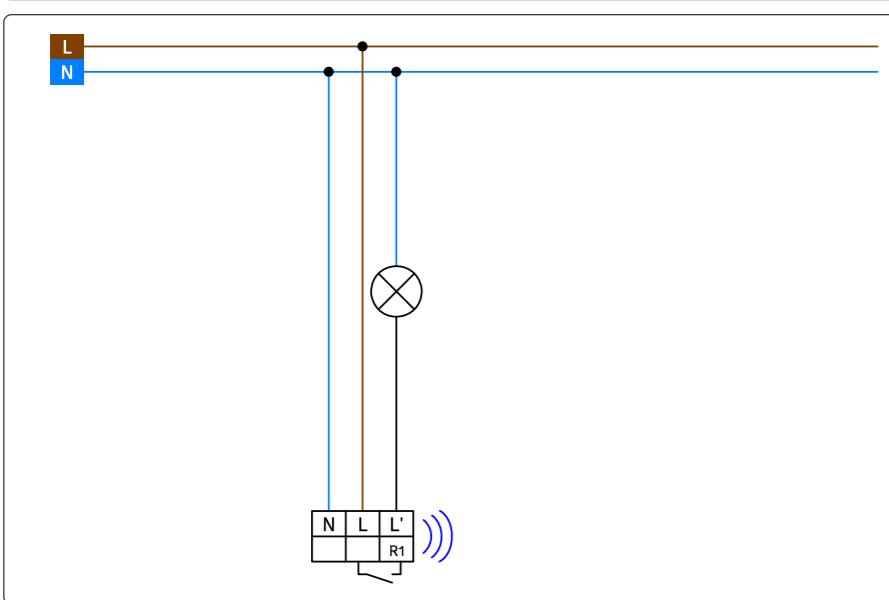
## Wiring diagrams



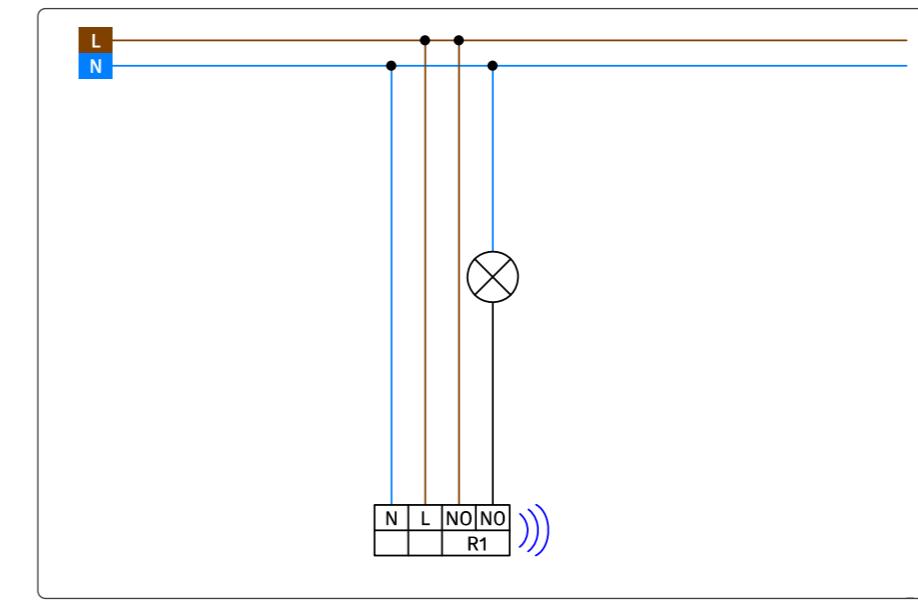
- CdS-T-SM
- CdS-SM
- CdS-FC
- CdS-R



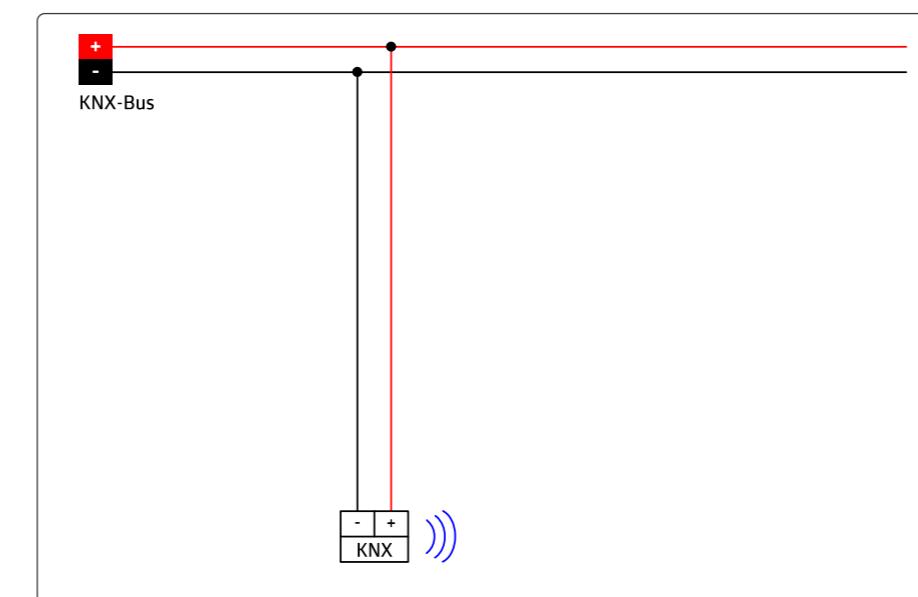
- TS-DD



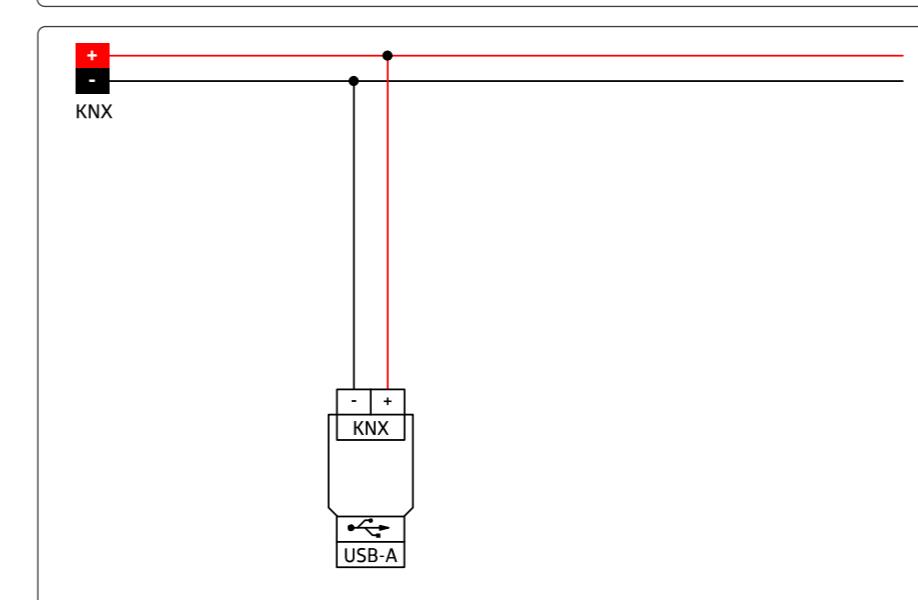
- SA1-230 / 16 / H / RF-KNXs



- PD2N-RF-KNXs-DX



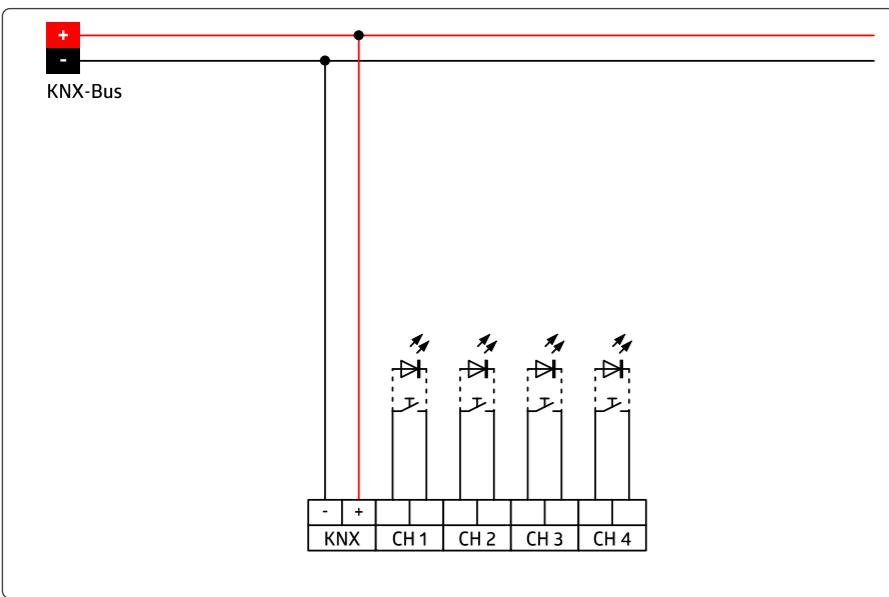
- LK-RF/KNXs



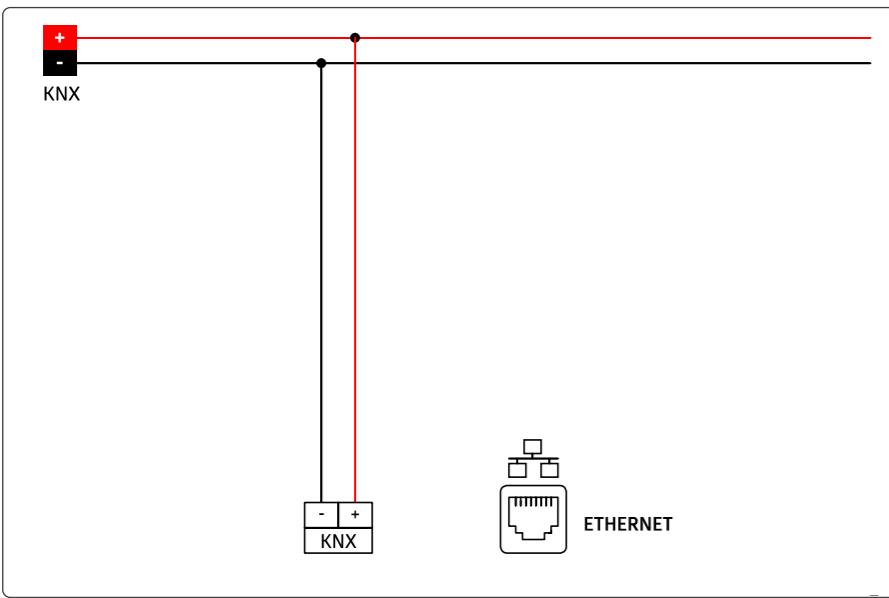
- USB-Stick-IF/KNX

## Wiring diagrams

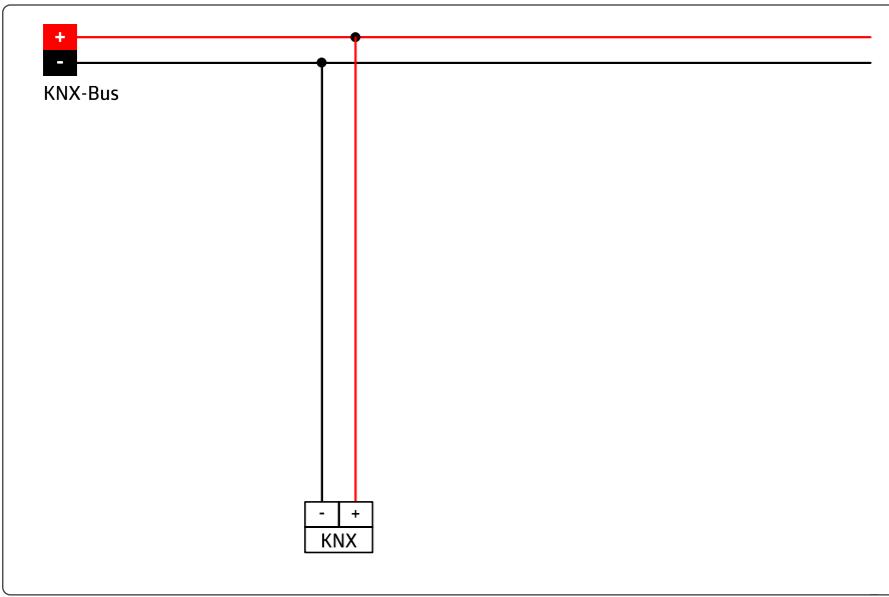
## Wiring diagrams



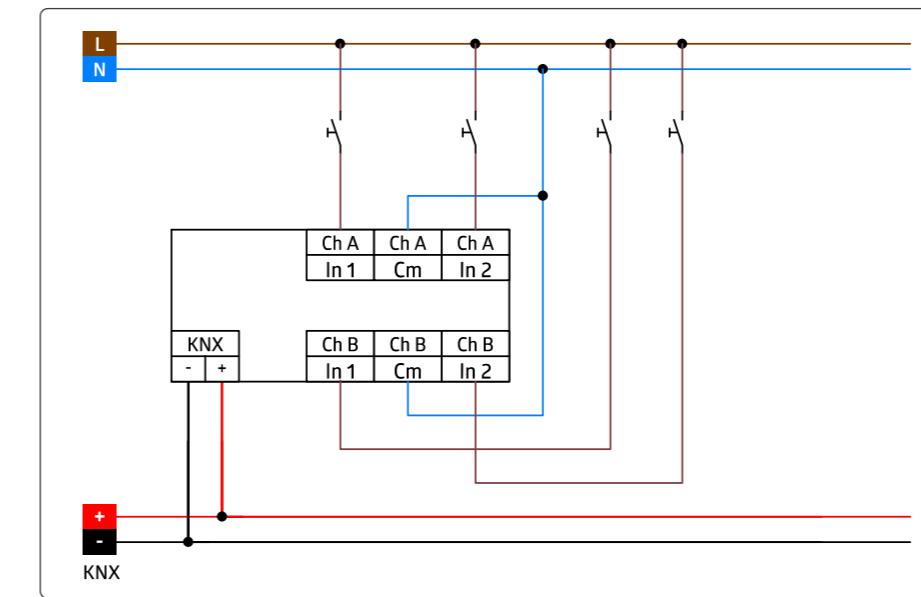
■ PBM-KNXs-DX-4W



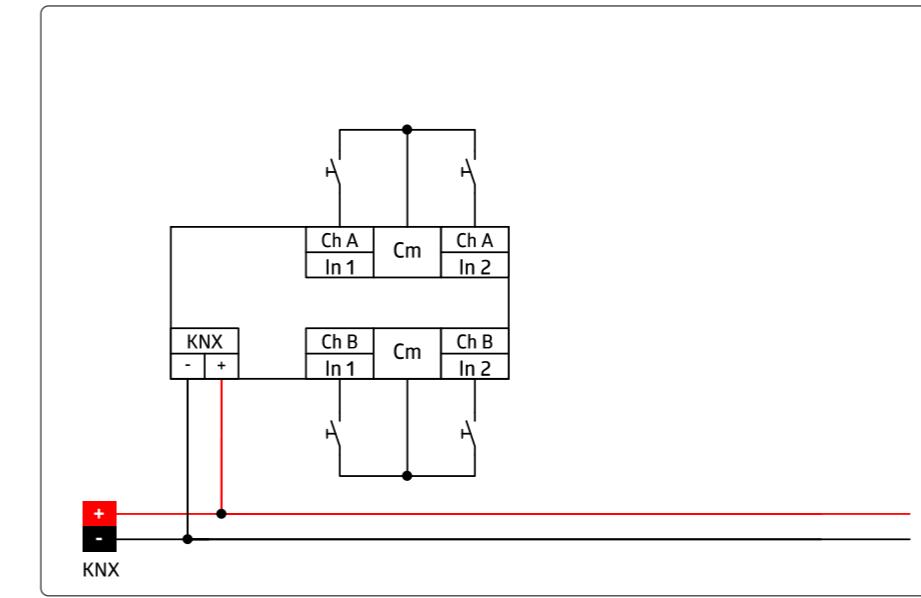
■ LK-IP/KNXs REG



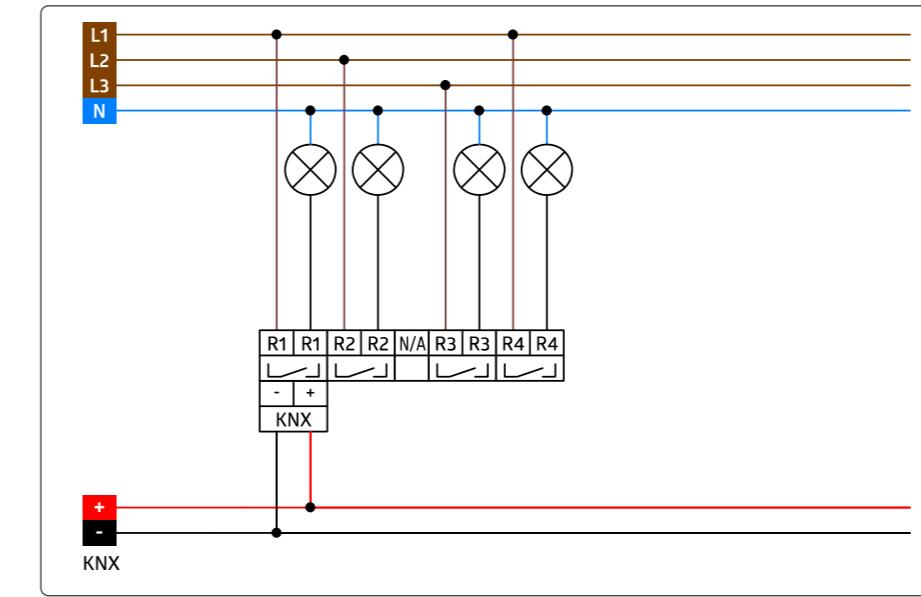
- WS-VOC-HVAC-KNX
- PD2N-KNXs-BA
- PD2N-KNXs-ST
- PD2N-KNXs-DX
- PD2N-KNXs-OCCULOG-DX
- PD4N-KNXs-BA
- PD4N-KNXs-ST
- PD4N-KNXs-DX
- PD4-KNXs-GH-DX
- PD5N-LAMELLA-KNXs-DX
- PICO-KNXs-ST
- PICO-KNXs-DX
- PD9-KNXs-DX
- PD9-KNXs-GH-DX
- PD11-KNXs-FLAT-ST
- PD11-KNXs-FLAT-DX
- Indoor 180-KNXs-ST
- Indoor 180-KNXs-DX
- RC-plus next N 230 KNXs-DX
- PB2-KNX-ST
- PB4-KNX-ST
- PB6-KNX-ST
- PB8-KNX-ST



■ BIA4-KNXs REG



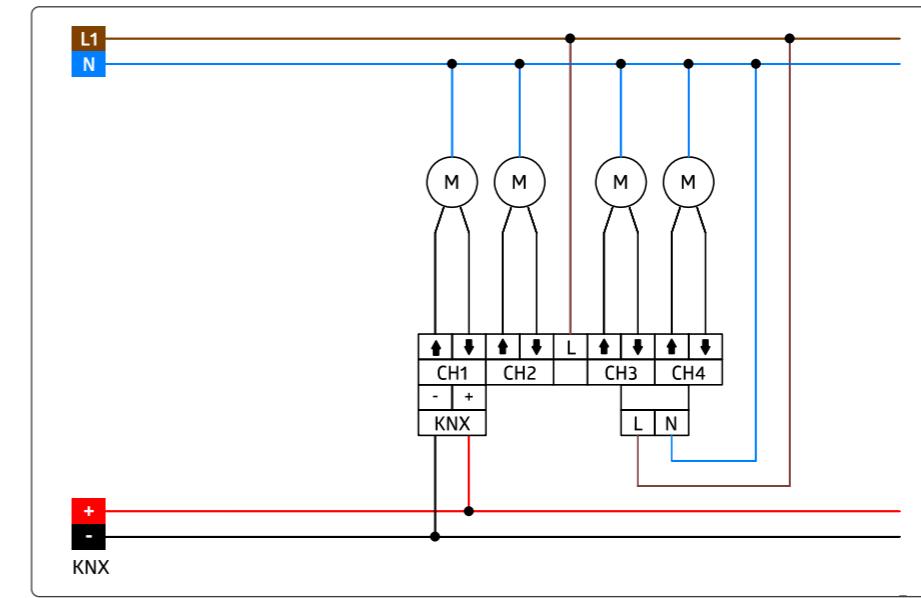
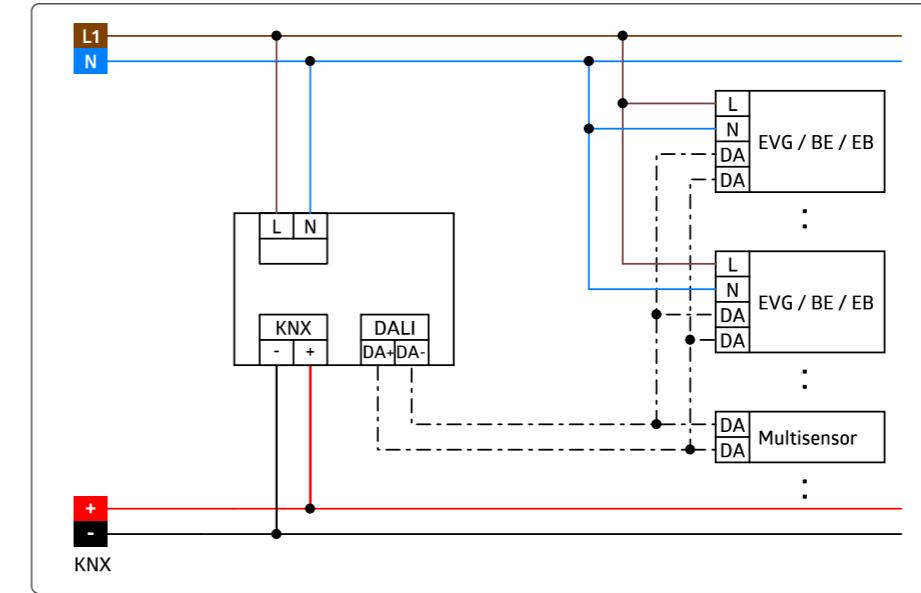
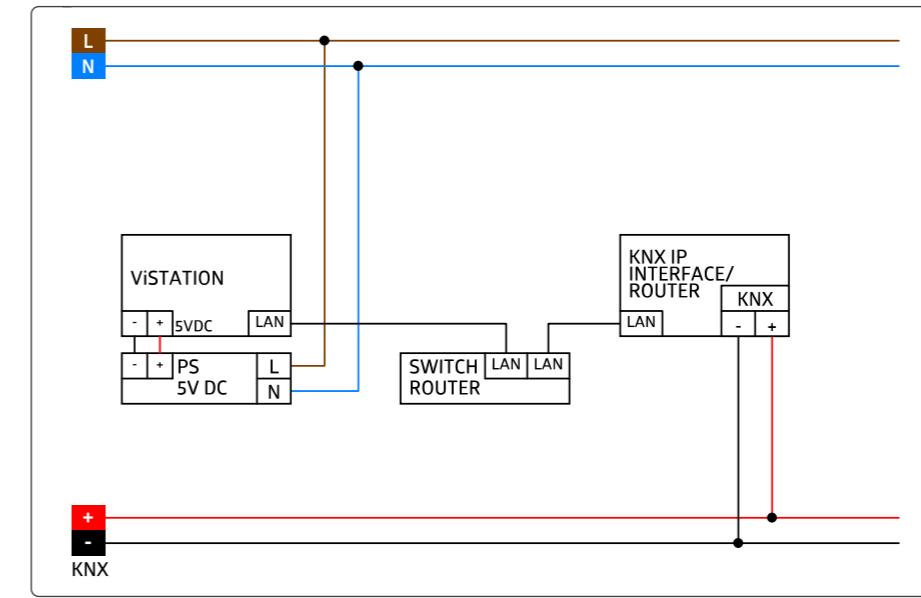
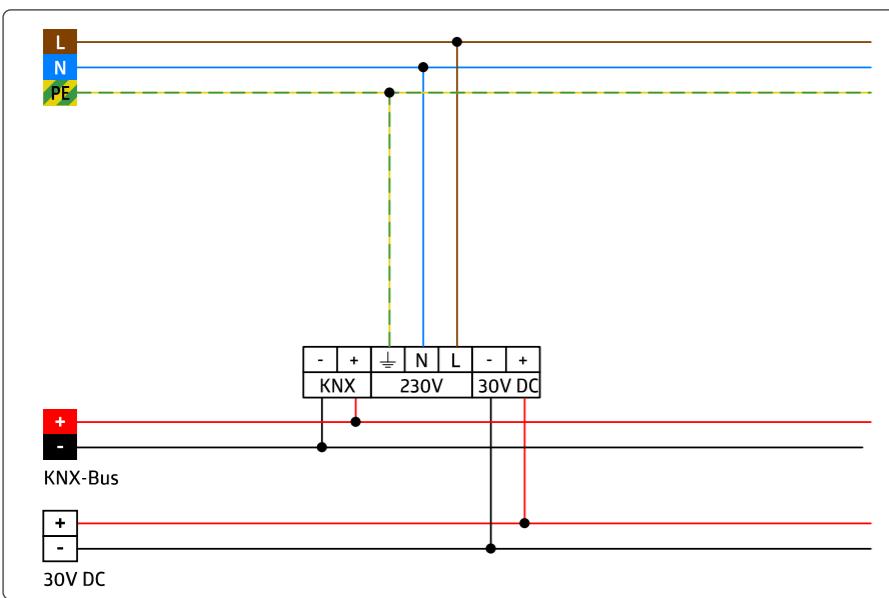
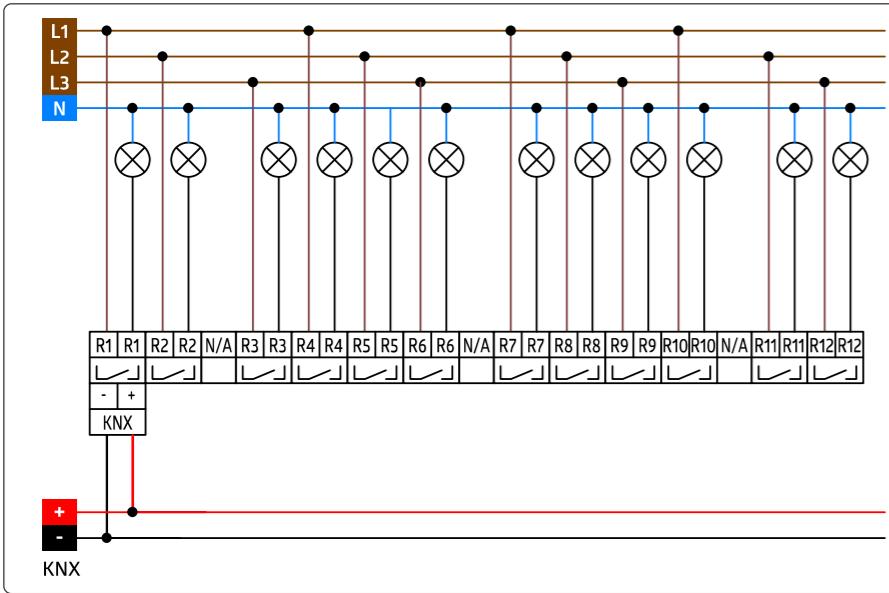
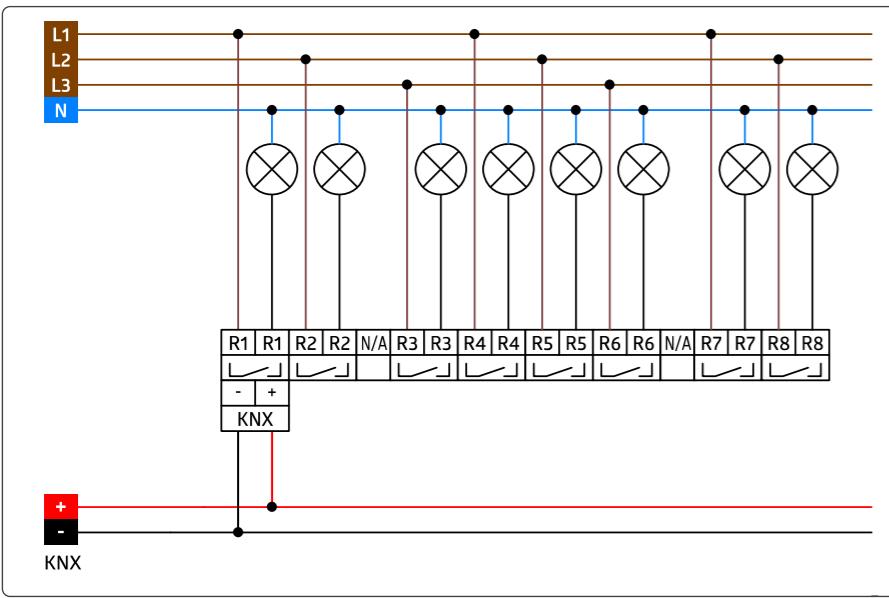
■ BIP4-KNXs REG



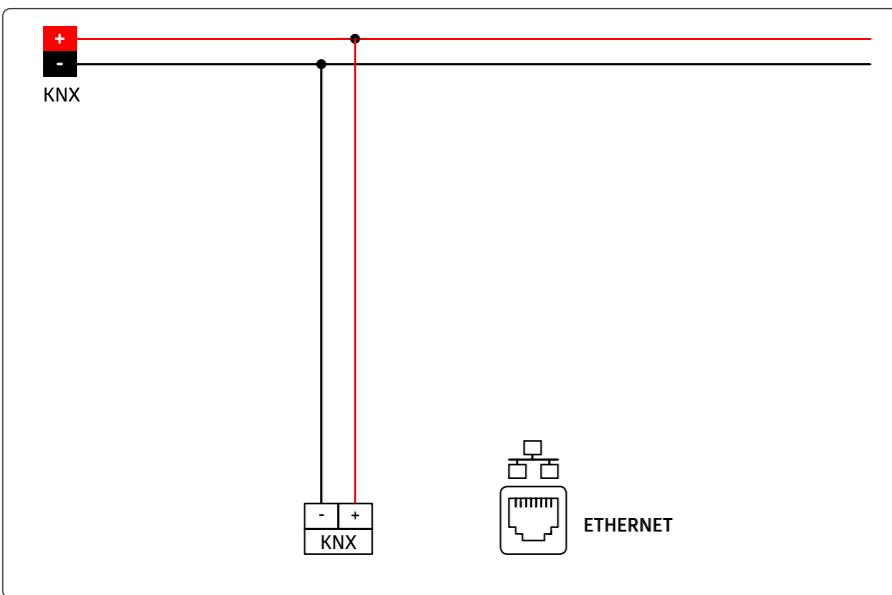
■ SA4 - 230 / 16 / H / KNXs REG

## Wiring diagrams

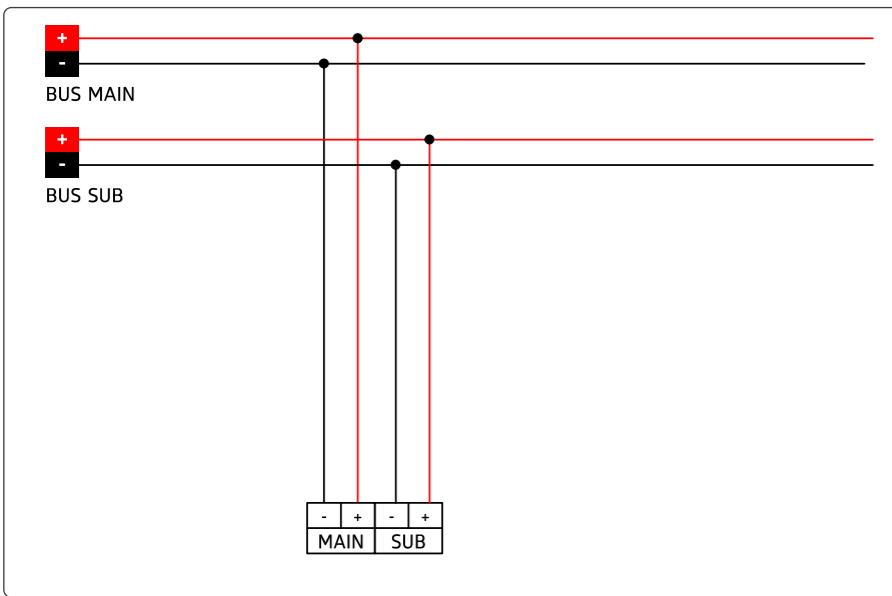
## Wiring diagrams



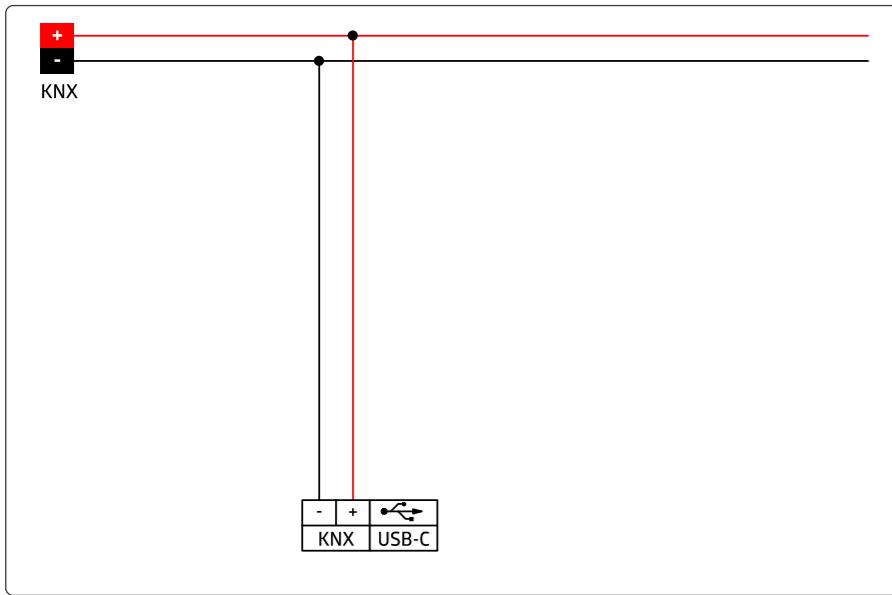
## Wiring diagrams



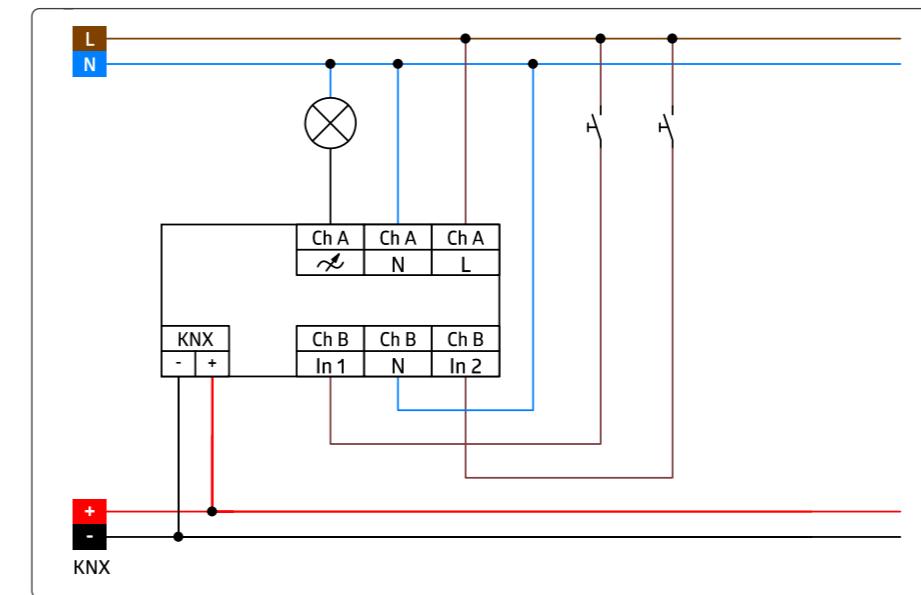
■ LAN-IF/KNXs REG



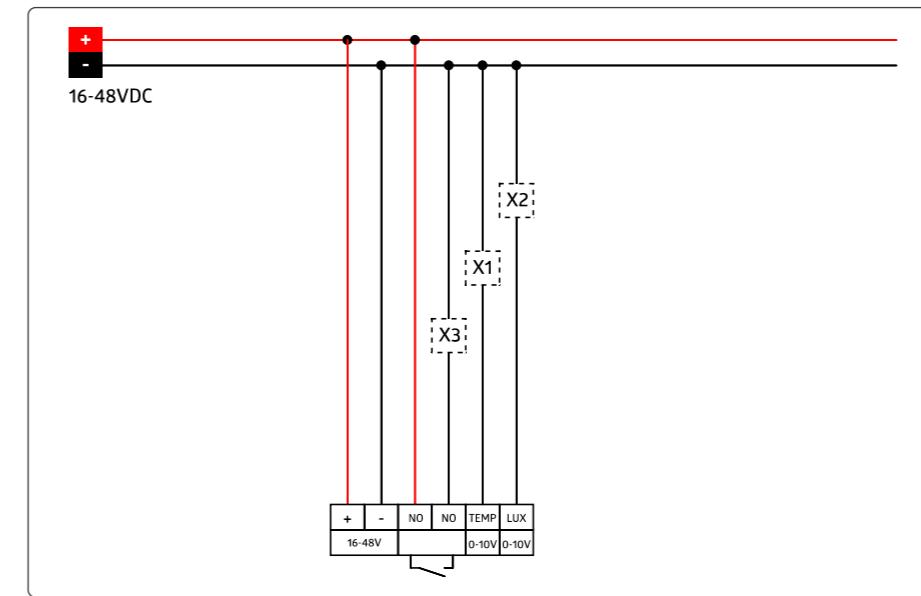
■ LK-TP/KNXs REG



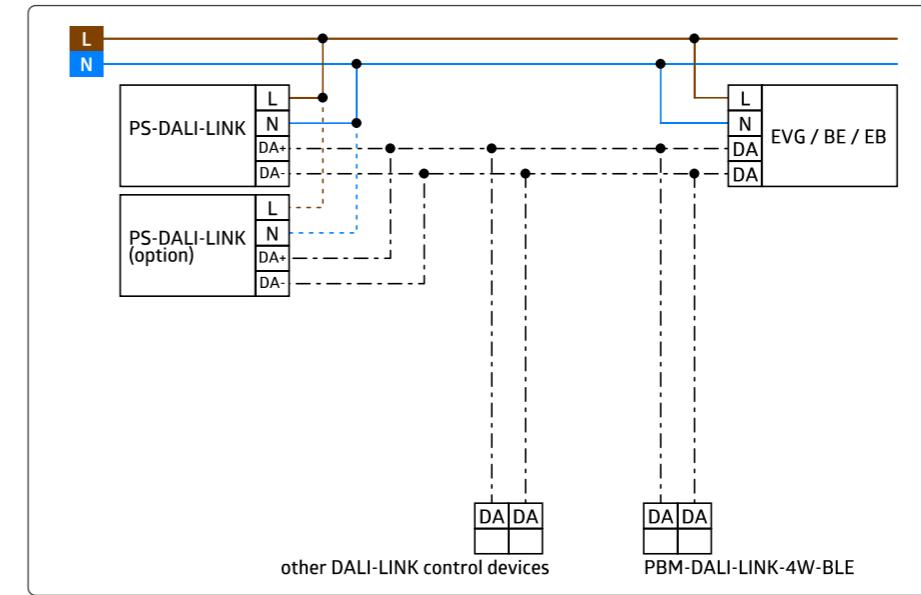
■ USB-C-IF/KNX REG



■ UAD1-230/KNXs REG



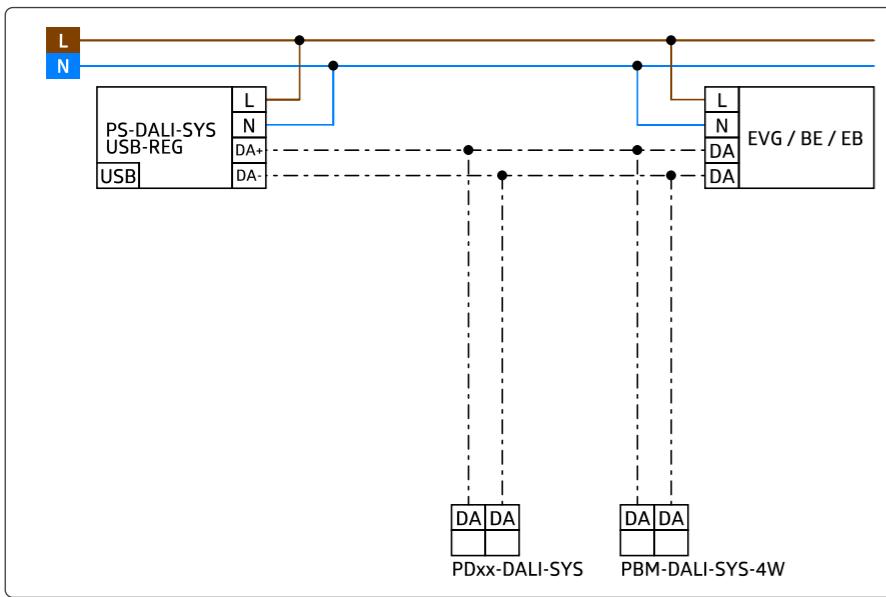
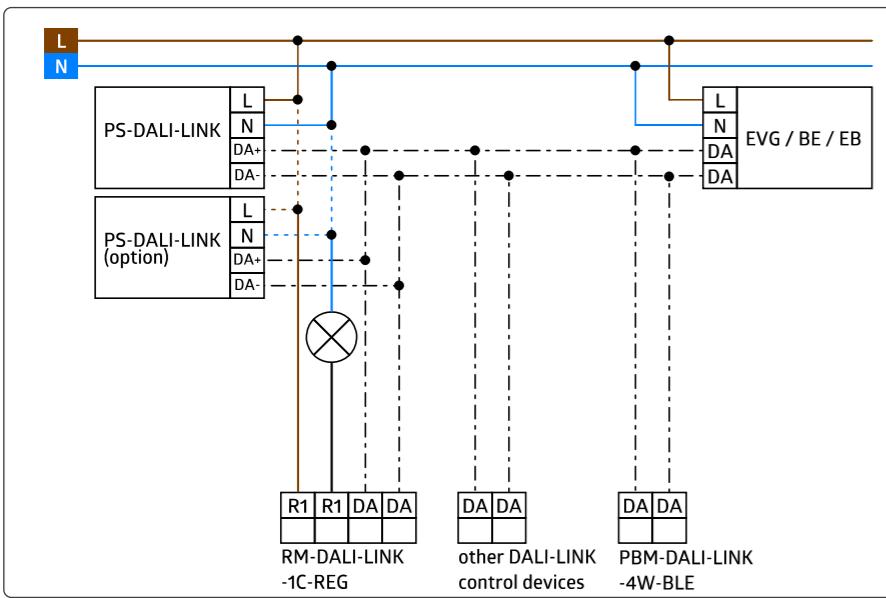
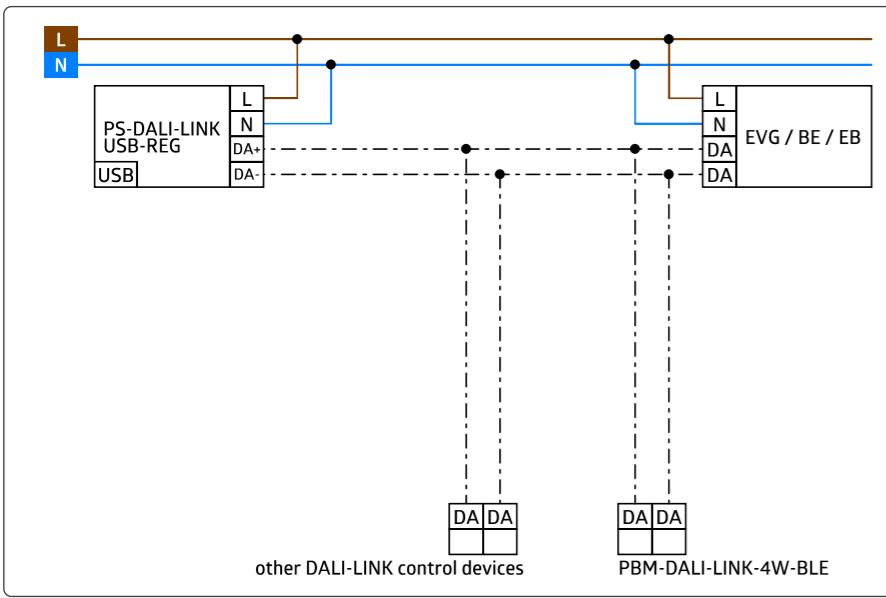
■ PD2N-LTMS  
■ PD2N-LTMS-RR  
■ PD4N-LTMS-RR  
■ PD11-LTMS-RR



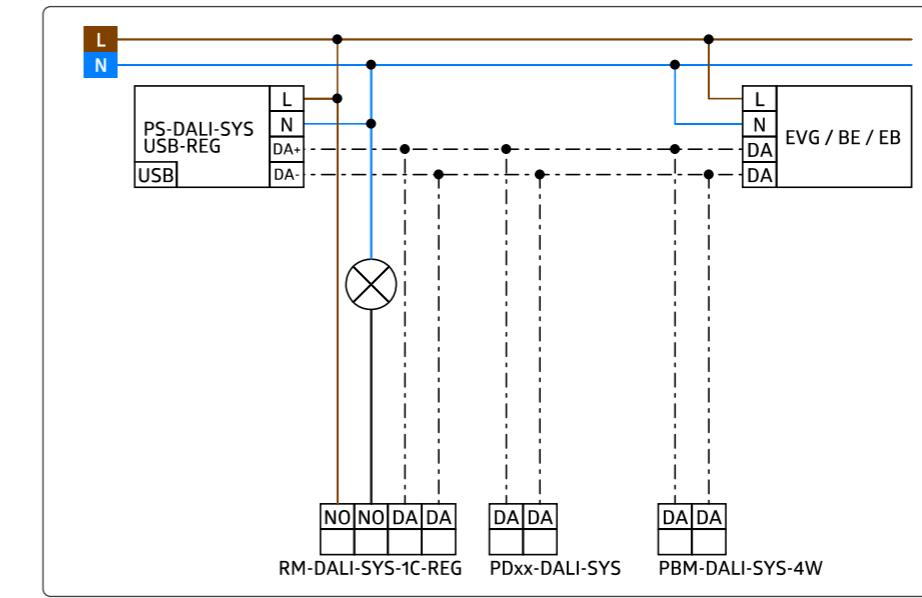
■ PD11-DALI-LINK-FLAT  
■ PBM-DALI-LINK-4W-BLE  
■ PD4N-DALI-LINK  
■ PBM-DALI-LINK-4W  
■ PICO-DALI-LINK  
■ PD4-DALI-LINK-GH  
■ PS-DALI-LINK-DE

## Wiring diagrams

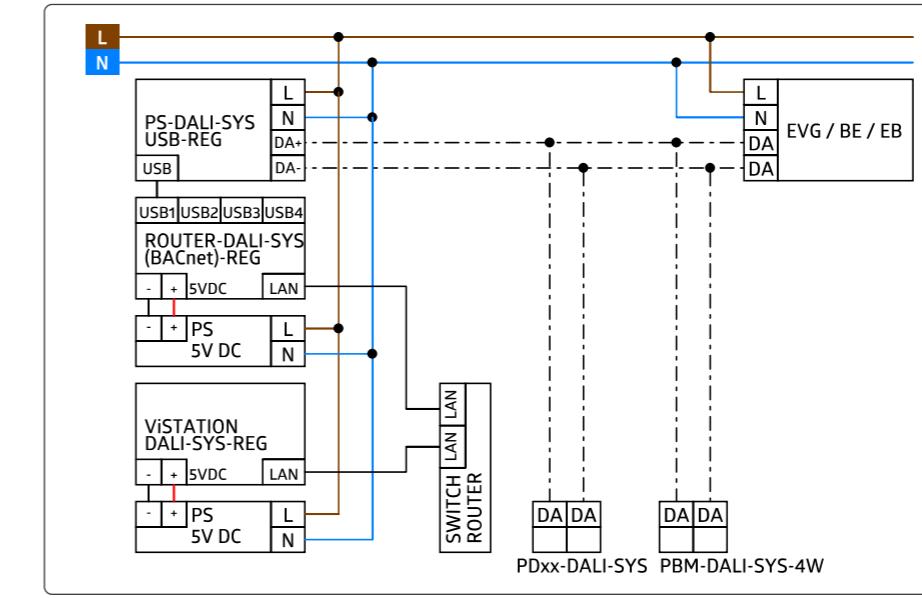
## Wiring diagrams



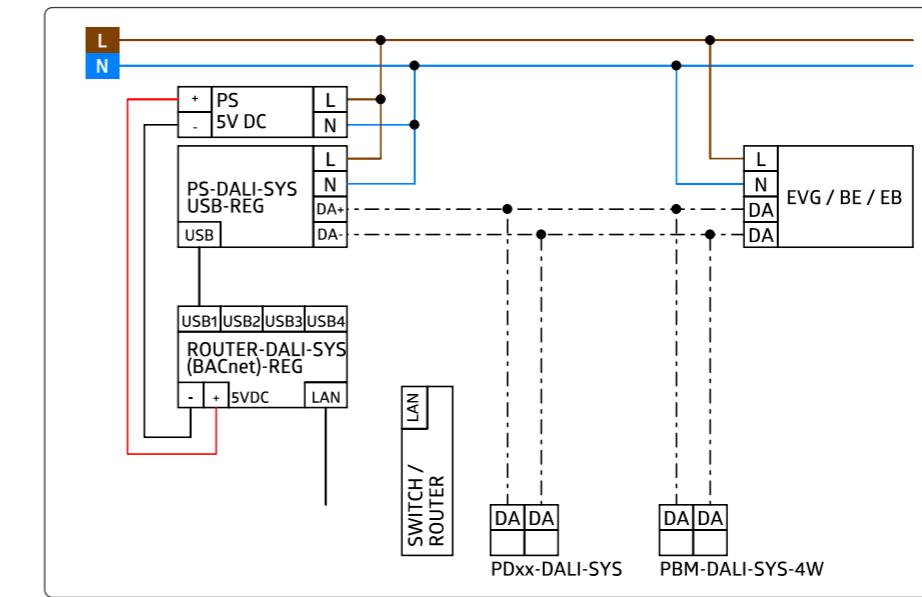
PS-DALI-LINK-USB-REG

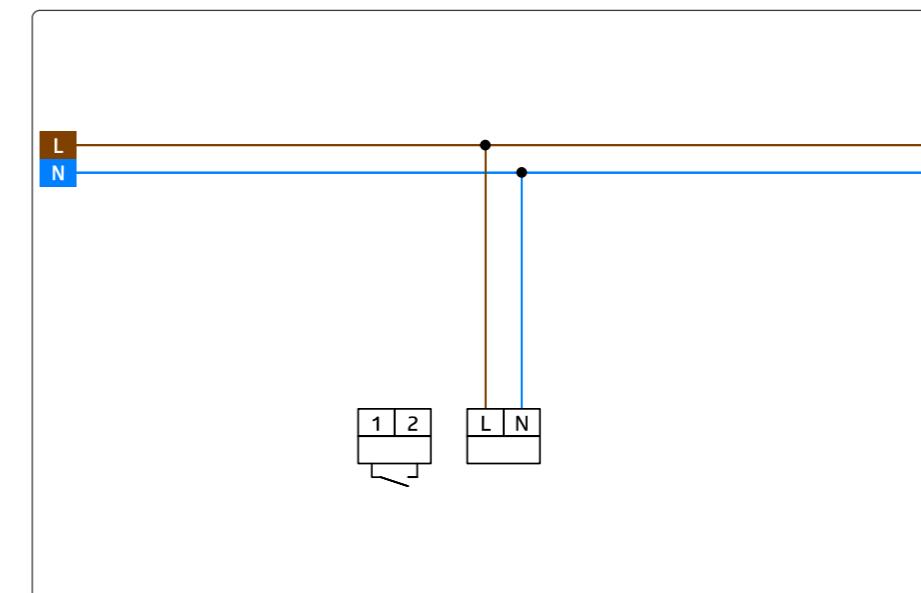
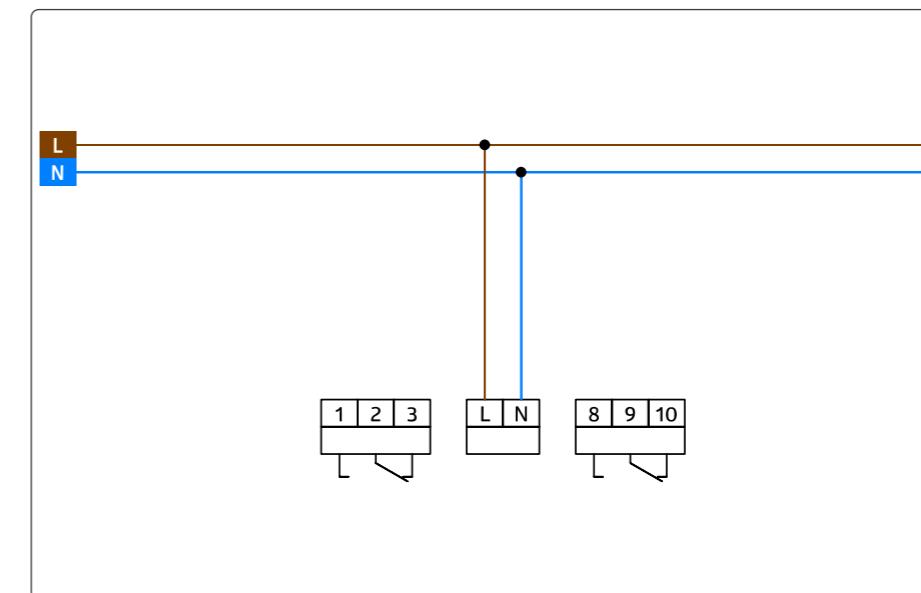
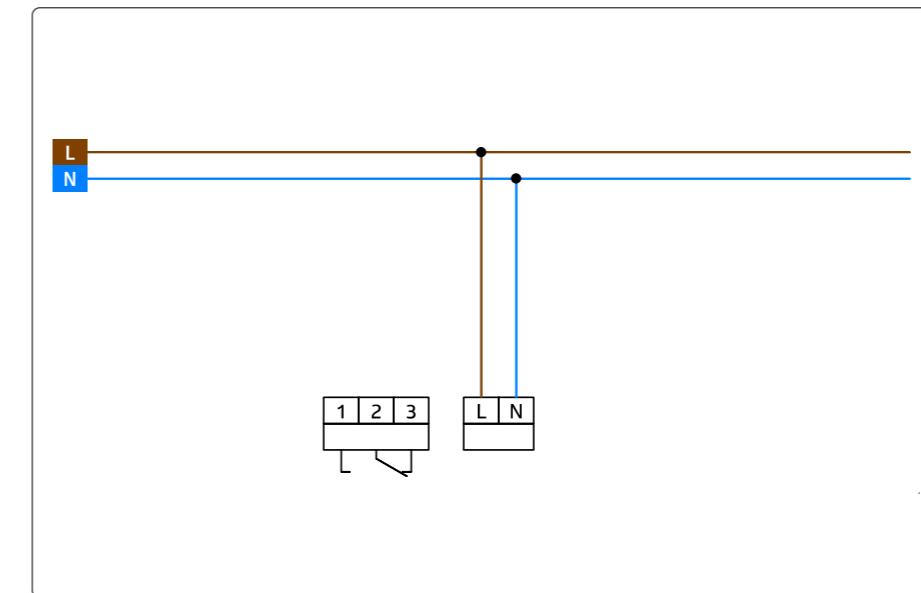
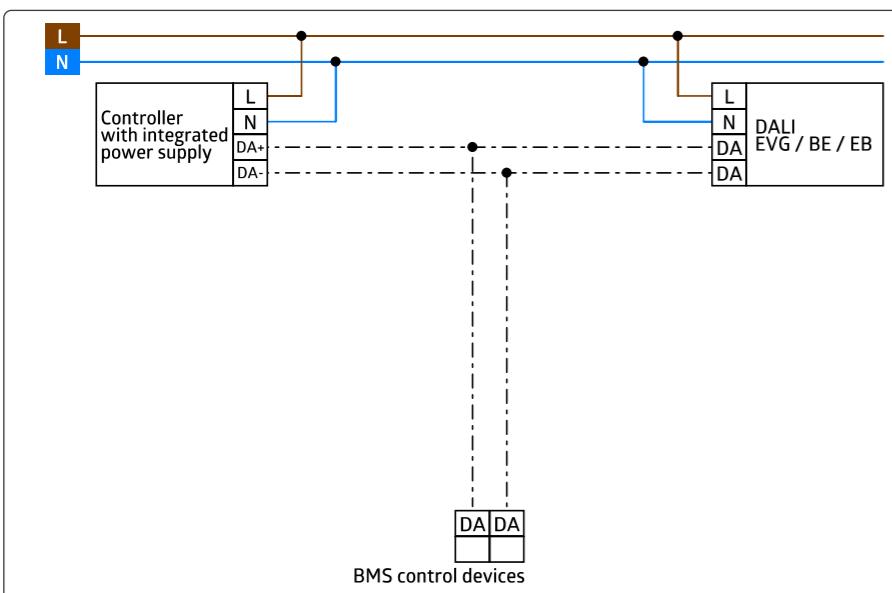
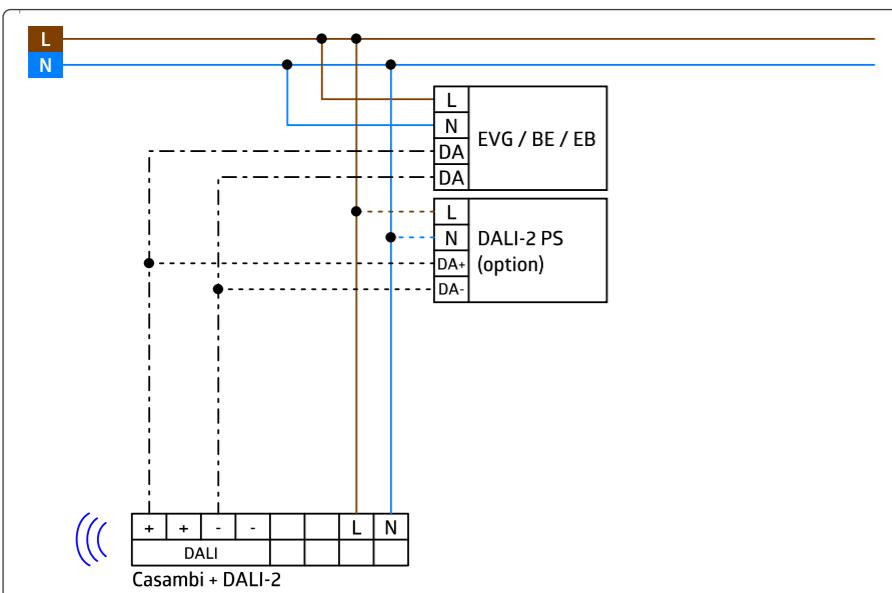
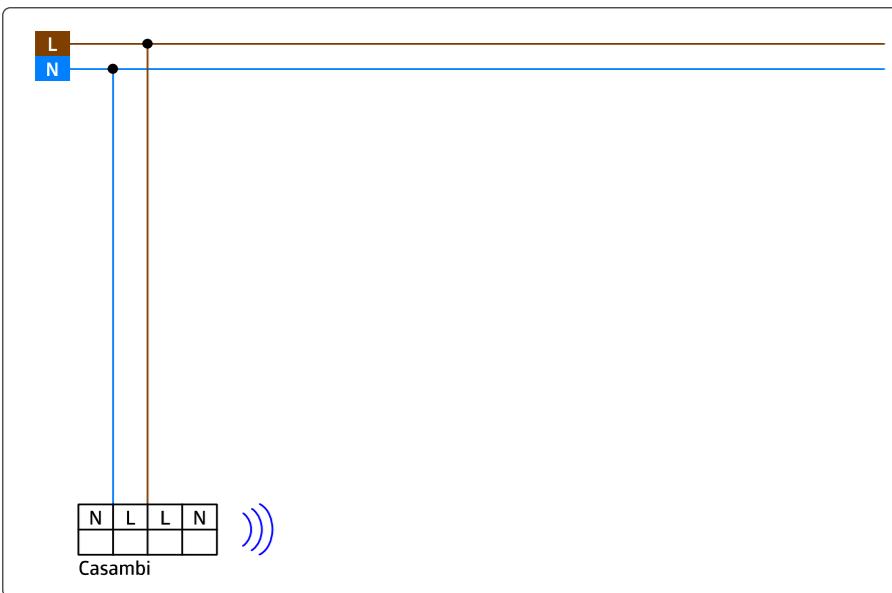


RM-DALI-LINK-1C-REG

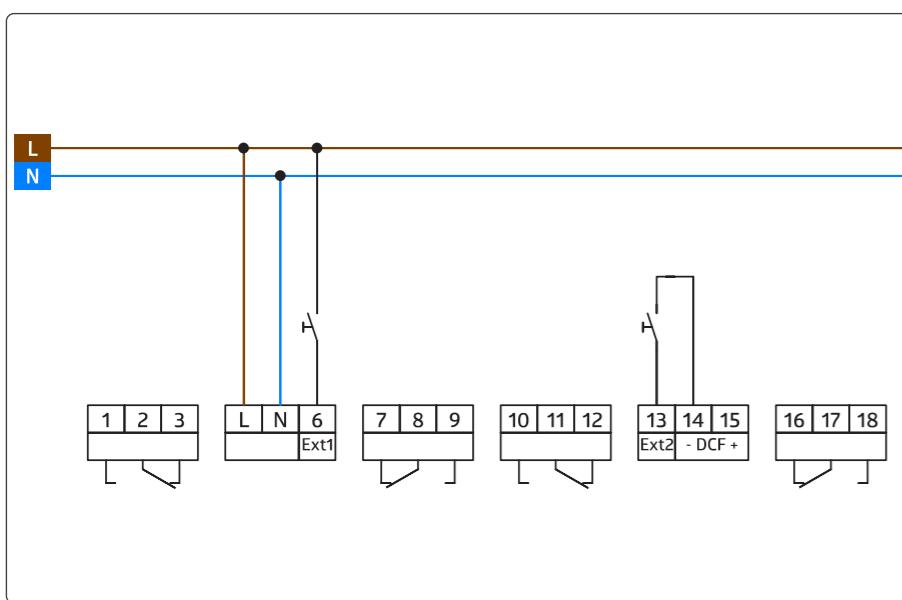


- PD11-DALI-SYS-FLAT
- PBM-DALI-SYS-4W
- PD2N-DALI-SYS
- PICO-DALI-SYS
- PD4-DALI-SYS-GH
- PD4N-DALI-SYS
- LC-plus-DALI-SYS
- PS-DALI-SYS-USB-REG



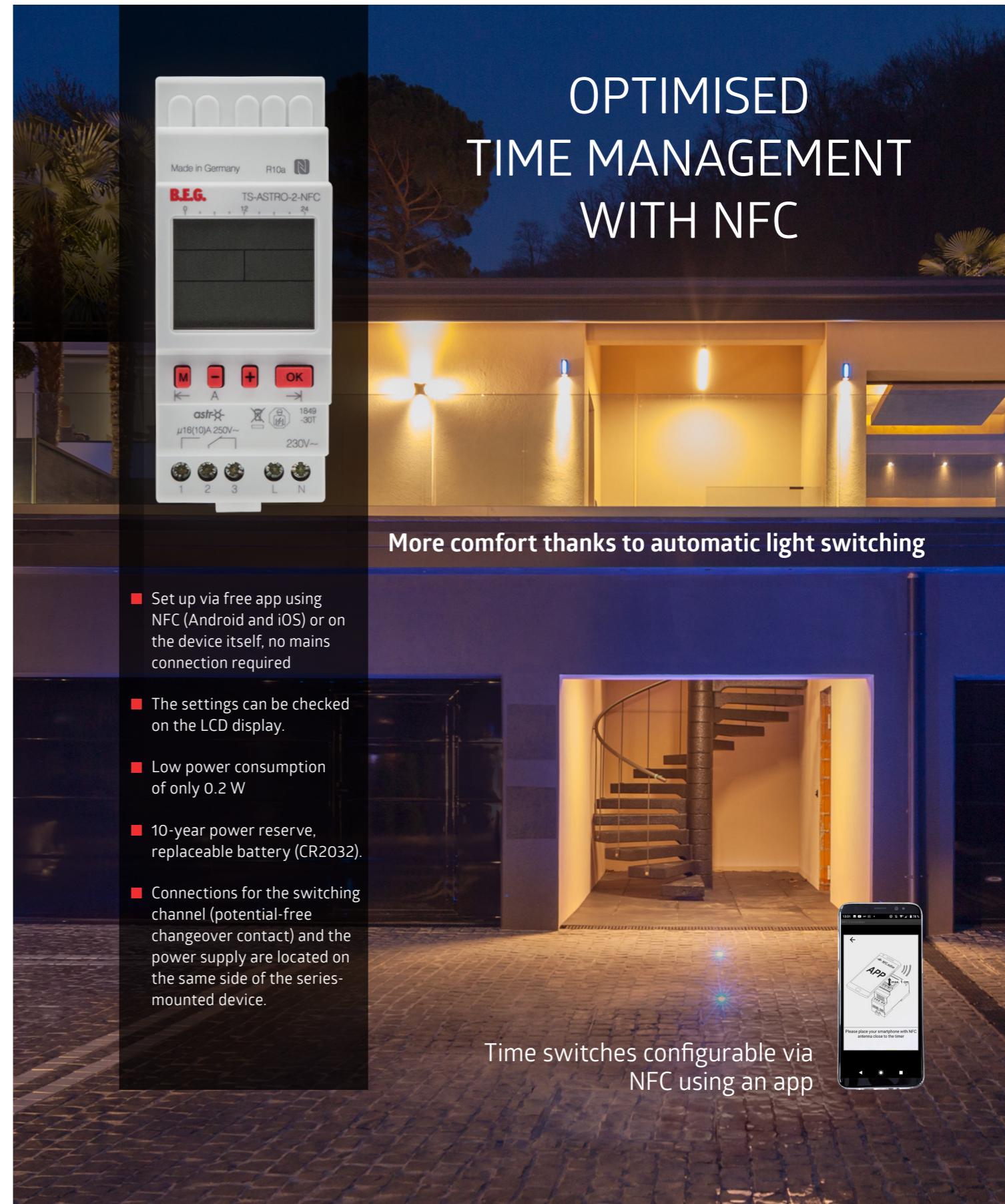


## Wiring diagrams



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TIME MANAGEMENT  
WITH NFC



## Article shortlist

Part number	Description	Product group	Page
90225	UAD1-230/KNXs REG	18	9
90403	LK-IP/KNXs REG	18	10
90404	LAN-IF/KNXs REG	18	10
90407	LK-RF/KNXs blue	18	14
90408	USB-C-IF/KNX REG	18	11
90409	USB-Stick-IF/KNX	18	15
90214	PSN-230 / 640 / 30 / KNX REG	18	9
90215	PSN-230 / 1280 / 30 / KNX REG	18	9
90410	LK-TP/KNXs REG	18	11
90411	BIA4/KNXs REG	18	11
90412	BIP4/KNXs REG	18	12
91001	LC-Click-N 140 white	01	30
91002	LC-Click-N 200 white	01	30
91008	LC-plus 280 white	01	29
91012	LC-Click-N 200 brown	01	30
91018	LC-plus 280 brown	01	29
91021	LC-Click-N 140 black	01	30
91022	LC-Click-N 200 black	01	30
91028	LC-plus 280 black	01	29
91048	LC-plus 280 silver	01	29
91101	LC-Click 140 white	01	31
91102	LC-Click 200 white	01	31
91121	LC-Click 140 black	01	31
91122	LC-Click 200 black	01	31
91301	ALC-B-360 SLU white	02	112
91321	ALC-B-360 SLU black	02	112
91400	AL1130 white	02	113
92113	PD2N-LTMS-FC	13	62
92119	PD2N-LTMS-RR-FC	13	62
92135	Indoor 180-S covering included	13	34
92136	Indoor 180-M-2C covering included	13	33
92140	PD4-M-2C-SM	13	44
92142	PD4-S-SM	13	59
92143	PD4-M-2C-C-FC	13	46
92144	PD4N-1C-SM	13	38
92148	PD4-M-2C-FC	13	44
92149	PD4N-1C-FC	13	38
92150	PD2-M-2C-SM	13	42
92151	PD4N-1C-FM	13	38
92152	PD2-S-SM	13	58
92154	PD2-M-2C-12-48V-3A-SM	13	43
92155	PD2-M-2C-FM	13	42
92156	PD2-S-FM	13	58
92163	PD4-S-FM	13	59
92164	PD2-M-2C-12-48V-3A-FC	13	43
92165	PD2-M-2C-FC	13	42
92166	PD2-S-FC	13	58
92184	PD3N-1C-FC Micro	13	37
92186	PD3N-1C-FM	13	36
92188	PD3N-2C-FM	13	37
92190	PD3N-1C-SM	13	36
92194	PD3-1C-SM	13	36
92196	PD3N-1C-FC	13	36
92197	PD3-1C-FC	13	36
92198	PD3N-2C-FC	13	37
92219	PD3N-1C-SM Micro	13	37
92245	PD4-M-1C-GH-SM	13	47
92249	CdS-FC	10	65
92254	PD4-S-FC	13	59
92255	PD4-M-2C-FM	13	44
92265	PD4-S-GH-SM	13	60
92270	PD4N-1C-C-SM	13	38
92274	PD4N-1C-C-FC	13	38
92305	PD2-M-2C-12-48V-RR-SM	13	43
92306	PD2-M-2C-12-48V-RR-FC	13	43
92365	CdS-R	10	66
92367	CdS-T-SM	10	65
92369	CdS-SM	10	65
92440	PD4-M-2C-C-SM	13	46
92442	PD4-S-C-SM	13	59
92444	PD4-S-C-FC	13	59
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92485	PD4-M-1C-C-PS-SM	13	46
92550	PD2-M-1C-SM	13	42

Part number	Description	Product group	Page
92555	PD2-M-1C-FM	13	42
92565	PD2-M-1C-FC	13	42
92575	PD4-M-1C-FM	13	44
92576	PD3N-1C-NO-PF-FC	13	37
92580	PD4-M-1C-SM	13	44
92583	PD11-M-1C-FLAT-FC	13	49
92585	PD4-M-1C-FC	13	44
92586	PD4-M-1C-C-FC	13	45
92587	PD4-M-1C-C-SM	13	45
92591	PD4-M-DAA4G-FC	24	55
92593	PD11-S-FLAT-FC	13	61
92594	PD11-LTMS-RR-FC	13	63
92621	Indoor 180-R-11-48V-3A covering included	13	35
92623	Indoor 180-R covering included	13	33
92650	Indoor 180-TR covering included	13	34
92656	TS-DW1	36	124
92660	Indoor 180-S covering not included	13	124
92661	Indoor 180-M-2C covering not included	13	34
92665	Indoor 180-R covering not included	13	33
92666	Indoor 180-R-11-48V-3A covering not included	13	33
92667	Indoor 180-R-11-48V-RR covering not included	13	35
92668	Indoor 180-TR covering not included	13	34
92669	TS-ASTRO1	36	125
92674	TS-DY1	36	127
92675	TS-DY2	36	127
92676	TS-AD1	36	128
92677	TS-AD2	36	128
92678	TS-AD3	36	129
92680	TS-AD4	36	129
92681	TS-DD	36	66
92700	PICO-S-FC	13	61
92709	PD4N-LTMS-RR-FC	13	63
92721	PD4-S-DAA4G-FC	24	55
92731	PD11-DALI-SYS-FLAT-FC	39	97
92732	PBM-DALI-LINK-4W-BLE	24	91
92740	PD4-M-3C-TRIO-SM	13	45
92743	PD4-M-DAA4G-SM	24	55
92745	PD4-M-3C-TRIO-FC	13	45
92746	PD4-M-TRIO-C-3P-FC	13	47
92747	PD4-M-TRIO-C-3P-SM	13	56
92751	PD4-M-TRIO-2DALI/DSI-1C-SM	24	56
92755	PD4-M-TRIO-DALI/DSI-FC	24	55
92759	PD4-S-DAA4G-SM	24	55
92760	PD4-M-2C-DS-FC	13	45
92761	PD4-M-2C-DS-SM	13	45
92842	PBM-DALI-SYS-4W white	39	97
92843	PS-DALI-SYS-USB-REG white	39	98
92846	PS-DALI-LINK-FC white	24	92
92847	SW-DALI-LINK-BLE-APP	24	93
92900	PD9-M-1C-FC	13	48
92902	PD9-1C-FC	13	41
92905	PD9-S-FC	13	60
92912	PD9-M-1C-SDB-IP65-FC white	13	49
92915	PD9-S-SDB-FC	13	61
92947	PD9-M-1C-SDB-IP65-12V-FC	13	49
92985	PD9-1C-12-48V-FC	13	41
93023	ViSTATION-DALI-SYS-REG grey	39	99
93068	PD11-DALI-LINK-FLAT-FC	24	94
93082	RM1-SYS-REG DALI-2 white	39	99
93083	RM1-LINK-REG DALI-2 white	24	94
93091	PD3-1C-SM black	13	36
93092	PD3N-1C-SM black	13	36
93093	PD3N-1C-SM Micro black	13	37
93120	SAFETYLUX portable LED grey	08	121
93132	Aleum Glow WB white	01	28
93134	Aleum Glow AD anthracite	01	28
93141	AL8-25-300-LED-3C-HF	28	115
93142	TS-ASTRO-2-NFC	36	125
93143	TS-ASTRO-3-NFC	36	126
93145	AL12-25-300-LED-3C-HF	28	115
93152	TS-DW2-NFC	36	124
93153	TS-DW3-NFC	36	125
93159	PICO-N-M-1C-FC	13	49
93161	TS-ASTRO-4-BLE	36	126

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93174	PB4-KNX-ST	18	88
93176	PB6-KNX-ST	18	88
93178	PB8-KNX-ST	18	88
93189	PS-DALI-LINK-USB-REG white	24	93
93210	PD9-SH-24V-LED white	13	63
93211	PD9-SH-24V white	13	63
93213	PD9-SH-24V-2W white	13	64
93224	SA4 - 230 / 16 / H / KNXs REG	18	84
93228	SA8 - 230 / 16 / H / KNXs REG	18	85
93240	PD2N-S	13	58
93241	PD4N-S	13	59
93260	Indoor180N-M-1C	13	32
93261	IndoorHF-M-1C	27	32
93262	Indoor180N-M		



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