

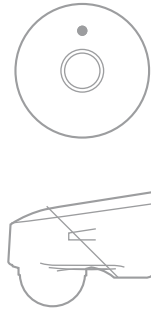
AUTOMATION

PRODUCT OVERVIEW



PRESENCE AND MOTION DETECTORS**4 - 21**

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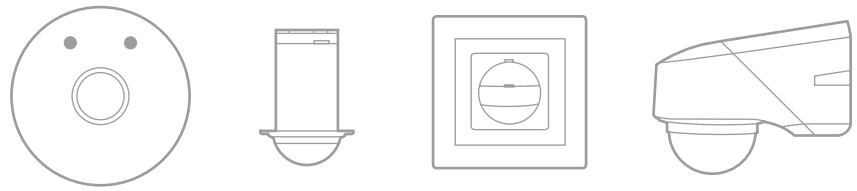
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SENSOR INSTALLATION BENEFITS**48 - 55**

SENSORS





PRESENCE AND MOTION DETECTORS

Eyes, ears, skin and nose - presence and motion detectors from ESYLUX can take on all of these properties if need be. With their sensors they pick up changes in the environment, just like the human senses do – and often with even greater sensitivity! Their high-quality lens design makes the ESYLUX presence and motion detectors ideal time bases in modern building automation. This is because the only way to control light, ventilation and air conditioning systems

such that energy consumption is effectively minimised is by using a sophisticated sensor concept. Incidentally, our presence and motion detectors do of course also increase comfort by relieving users of a number of hand movements and adapting precisely to their personal requirements, whether on a local basis in the room or centrally networked. Detectors also improve safety and, if they replace light switches, even improve hygiene.

PRESENCE DETECTORS

Premises with **natural light** that are used for extended periods, particularly suitable for seated activities.

APPLICATION EXAMPLES

<ul style="list-style-type: none"> - Offices - Classrooms - Meeting and conference rooms - Archive rooms - Libraries 	
<ul style="list-style-type: none"> - Corridors/hallways - Stairwells - Basements - Toilets/washrooms 	
<ul style="list-style-type: none"> - Indoor stadiums - Storage and exhibition halls - Industrial and commercial facilities - Car parks 	

HOW IT WORKS

<ul style="list-style-type: none"> - Responds to even the smallest of movements and presence, including in particular seated activities 	Sensing
<ul style="list-style-type: none"> - Indoors - Maximum energy savings: With automatic light control according to use and the amount of natural light available - Premises with natural light that are used for long periods - Switching when required or desired - Constant light control/DIM - Further control options, such as activation of heating, ventilation, air-conditioning (HVAC) 	Area of application
<ul style="list-style-type: none"> - Light + HVAC (heating, ventilation, air conditioning) - Light 1 + Light 2 (individual light measurement per switching output) + HVAC - Light/1–10 V (continuous light control/DIM) + HVAC - KNX, DALI/DSI 	Switching output/activation
<ul style="list-style-type: none"> - Light channel: Activated according to availability of natural light and presence. - HVAC channel: Only with presence - Light measurement remains active: If the ambient/natural light is sufficient, the artificial light/light channel is switched off despite the detected motion = mixed photometry 	Switch-on criterion + light measurement

MOTION DETECTORS

For premises without or **with very little natural light**, that are used for short periods or with greater movement.

APPLICATION EXAMPLES

- Corridors/hallways
- Stairwells
- Entrance areas
- Basements
- Cellar and storage rooms
- Side rooms



- Underground car parks
- Garages
- Car parks



- Changing rooms
- Bathrooms
- Baths
- Toilets



HOW IT WORKS

- Respond to **larger walking movements**

Sensing

- **Indoors**
- Energy savings
- Premises **without or with very little natural light** that are used for short periods
- Switching when required or desired
- Security in dark areas, particularly walkways
- Also with protection type IP 54/55/65

Area of application

- **Light**

Switching output

- **Light channel:** Simple switching output, with switching according to the ambient brightness (ambient light is below the light value preset on the detector) and motion.
- **Photometry is no longer active after activation:** Consumers/artificial light remains switched on as long as motion is detected = unique photometry

Switch-on criterion + light measurement

PRESENCE AND MOTION DETECTORS BASIC SERIES



FUNDAMENTALLY EFFICIENT

The BASIC series offers a simple entry route into demand-driven automation. Its presence and motion detectors are ideal for particularly cost-sensitive projects or building areas which require simple functionalities without sacrificing quality. They feature the usual high-quality ESYLUX PIR and light sensors, and provide demand-driven and energy-efficient light switching via an output channel based on the

information captured by these sensors. The field of detection can also easily be extended in locations where a single detector is not enough by using a parallel connection or digital communications depending on the operating technology.



Surface mounting
with spacers (included)



Recessed ceiling mounting
with ceiling mounting set C (EP10425929, available separately)





ADVANTAGES AT A GLANCE:



OVERVIEW OF BASIC SERIES:

230 V	Product designation	Item no.
	MD 180i/16 Basic	EB10430459
	MD 180i/16 Basic Set SKJ	EB10430640
	MD 180i/16 Basic Set SKK	EB10430626
	MD 180i/16 Basic Set EXX	EB10430633
	MD 360i/8 Basic	EP10430404
	MD 360i/8 Basic	EB10430428
	MD 360i/8 Basic SMB	EB10430497
	MD 360i/8 Basic SMB	EB10430466
	PD 360/8 Basic	EP10430411
	PD 360i/8 Basic	EB10430435
	PD 360/8 Basic SMB	EB10430480
	PD 360i/8 Basic SMB	EB10430473

KNX	Product designation	Item no.
	PD 360/8 KNX Basic	EB10430442

WANT TO KNOW MORE?

For more information on the detectors in the BASIC series, simply scan the QR code!



PRESENCE AND MOTION DETECTORS COMPACT SERIES CEILING-MOUNTED DETECTORS



THE ALL-ROUNDER

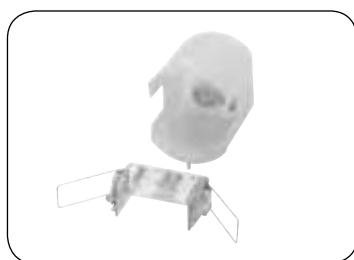
The PD-C/MD-C presence and motion detectors have successfully built themselves a reputation among our range of sensors not only as traditional favourites, but also as all-rounders. Their robust design and high level of performance are just as impressive as their huge versatility in terms of applications. The many different versions include ceiling and wall detectors for 230 V, KNX or DALI, with simple options for surface mounting, flush mounting or re-

cessed mounting, and fields of detection ranging from 8 to 24 metres. The bandwidth they provide allows either one or two-channel switching or dimming of lights. If there is a requirement to switch HVAC devices based on presence, suitable solutions are also available for this purpose.



Cover and design ring

Quick and easy to replace/paint



Recessed ceiling mounting

with ceiling mounting set C (EP10425929, available separately)





THE ADVANTAGES OF CEILING DETECTORS AT A GLANCE:



OVERVIEW OF COMPACT SERIES CEILING DETECTORS:

230 V	Product designation	Item no.
	MD-C360i/8	EP10055393
	MD-C360i/8 MIC	EP10425875
	MD-C360i/24	EP10055317
	PD-C360i/8	EP10425059
	PD-C360i/8 MIC	EP10425882
	PD-C360i/8plus	EP10425042
	PD-C360i/24 DRY	EP10425707
	PD-C360i/24plus	EP10425288
	PD-C360i/24 DUOplus-SM	EP10426810
	PD-C360i/24 DUOplus-FM	EP10426803
	PD-C360i/8 DIM	EP10426711
	PD-C360i/8 DIMplus	EP10425332
	PD-C360i/24 DIM	EP10426704
	PD-C360i/24 DIMplus-FM	EP10426728
	PD-C360i/24 DIMplus-SM	EP10426735
	PD-C360i/24 DUODIMplus-SM	EP10426759
	PD-C360i/24 DUODIMplus-FM	EP10426742
	PD-C360i/24 DIMplus WH	EP10425783
	PD-C 360i/8 CU-C Light	EP10427602
	PD-C 360i/24 CU-C Light	EP10427619

DALI	Product designation	Item no.
	PD-C360i/8 DUO DALI	EP10427442
	PD-C360i/24 DUO DALI	EP10427459
KNX	PD-C360i/8 KNX UP	EP10427404
	PD-C360i/24 KNX ECO UP	EP10427435
	PD-C360i/24 KNX UP	EP10427428
12 - 36 V	PD-C360i/8 DC24Vplus	EP10425349
	PD-C360i/24 DC24Vplus	EP10425318
	PD-C360i/8 UC	EP10427312
	PD-C360i/24 UC	EP10427329

WANT TO KNOW MORE?

For more information on the ceiling detectors in the COMPACT series, simply scan the QR code!



PRESENCE AND MOTION DETECTORS COMPACT SERIES WALL-MOUNTED DETECTORS



Cover IP 20
with frame, avail-
able in five different
colours



Cover IP 44
suitable for humid
areas such as bath-
rooms, basements
and garages



**Surface-mounted
box IP 20/IP 44**
with triple
diaphragm line
entrance

Cover and surface-mounted box IP 20/IP 44

for surface and flush mounting



IP 20 SKJ
Design compatible with
Schneider Electric Trend



IP 20 SKK
Design compatible with
Elko RS/PLUS



IP 20 EXX
Design compatible with
Schneider Electric Exact



IP 20 BS1
Design compatible with
Berker S1



IP 20 BM2
Design compatible with
Berker Modul 2



IP 20 BJSI
Design compatible with
Bush-Jäger Reflex



IP 20 G55
Design compatible with
Gira Standard 55

Cover IP 20

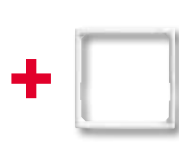
in many different colours and designs



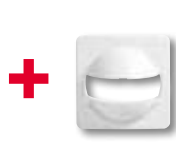
Example:
PD-C180i/16 TOUCH sensor
insert



**Individual
switch range**
Single or multi-frames from the
switch manufacturer



Subframe
as adapter for
50 x 50 mm
standard cut-out
in accordance with DIN 49075
(switch manufacturer accessory)



Cover
for
wall detectors
different colours
(accessory)



PD-C180i/16 TOUCH



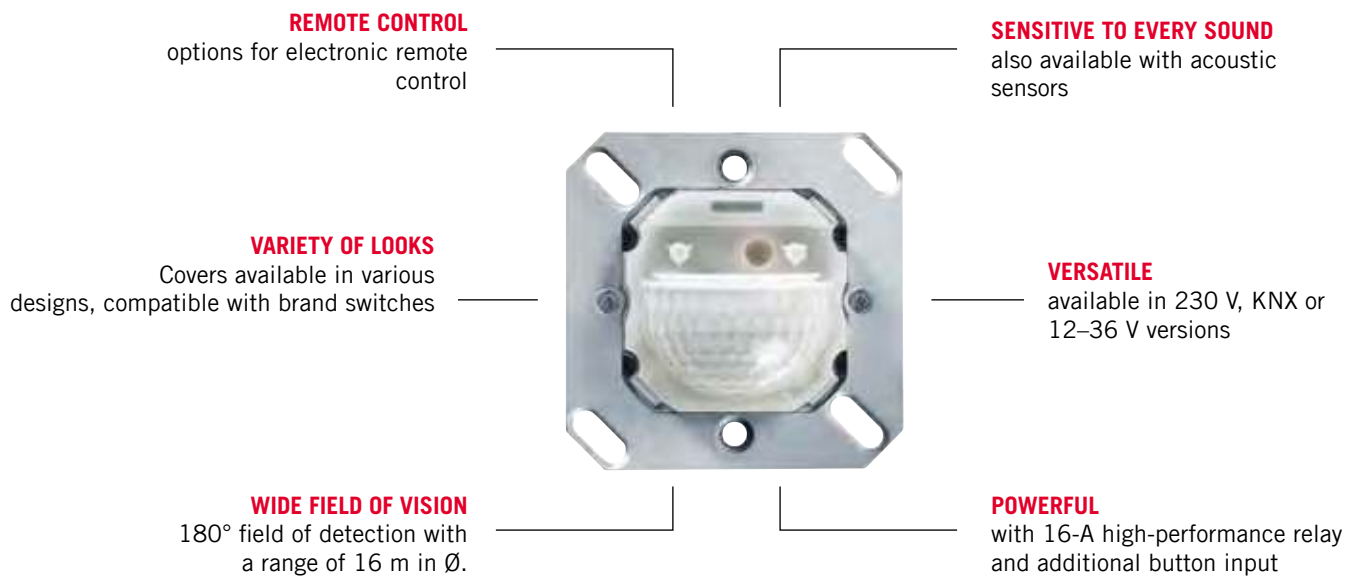
PD-C180i/16 TOUCH
e.g. in individual switch
range

Compatible with brand switches

with all popular brand switch ranges



THE ADVANTAGES OF WALL DETECTORS AT A GLANCE:



OVERVIEW OF COMPACT SERIES WALL DETECTORS:

230 V	Product designation	Item no.
	MD-C180i/16 Touch	EP10428517
	MD-C180i/16 Touch Set SKJ	EP10002472
	MD-C180i/16 Touch Set SKK	EP10002489
	MD-C180i/16 Touch Set EXX	EP10002496
	PD-C180i/16 Touch plus	EP10428500
	PD-C180i/16 Touch plus Set SKJ	EP10002441
	PD-C180i/16 Touch plus Set SKK	EP10002458
	PD-C180i/16 Touch plus Set EXX	EP10002465

KNX	Product designation	Item no.
	PD-C180i KNX	EP10426445
	PD-C180i KNX ECO	EP10426452
	PD-C180i/16 Touch KNX	EP10460104
	PD-C180i/16 Touch KNX Set SKJ	EP10460128
	PD-C180i/16 Touch KNX Set SKK	EP10460135
12 - 36 V	PD-C180i/16 Touch KNX Set EXX	EP10460142
	PD-C180i/16 UC	EP10427305

WANT TO KNOW MORE?

For more information on the wall detectors in the COMPACT series, simply scan the QR code!



PRESENCE AND MOTION DETECTORS COMPACT MINI SERIES FLAT MINI SERIES



TINY BUT POWERFUL

Our mini detectors are an ideal solution for rooms whose aesthetic design would be marred by the presence of technical components. Their tiny housings and extremely low installation heights mean that they retreat unobtrusively into the background, while nevertheless keeping a close eye on everything thanks to their high-quality sensor technology. The mini

sensors are available for all common operating technologies, and consistently impress clients thanks to the particular ease of installation. If a cavity is available, installation is a straightforward procedure using a locking ring or spring clamp. For concrete walls, the practical locking ring can be used for rapid and straightforward installation in brand switches.



Compatible with brand switches

The PD-C / MD-C360i/6 mini can be used to replace any conventional switch — also suitable for multi-switch frames



Small, unobtrusive and functional:

e.g. PD-C / MD-C360i/6 mini





ADVANTAGES AT A GLANCE:

VERSATILE

360° field of detection, 6, 8 or 12-m range, available for 230 V, DALI, KNX or 12–36 V

COMPACT

Saves space thanks to integrated power section and high-performance relay

REMOTE CONTROL

with blue mode technology

TIME-SAVING

with locking ring or spring clamp installation

COST-EFFECTIVE

Only 0.3-W energy consumption



OVERVIEW OF COMPACT-MINI and FLAT-MINI SERIES:

230 V	Product designation	Item no.
	MD-C360i/6 mini	EP10425851
	MD-C360i/8 mini	EP10426001
	MD-C360i/8 mini-3m	EP10427008
	MD-C360i/12 mini	EP10426018
	PD-C360i/6 mini	EP10425868
	PD-C360i/8 mini	EP10426025
	PD-C360i/8 mini-3m	EP10427015
	PD-C360i/12 mini	EP10426032
	PD-C360i/12 mini-3m	EP10427022
	PD-C360i/8 mini DIM	EP10426049
	PD-C360i/12 mini DIM	EP10426056

DALI	Product designation	Item no.
	PD-FLAT 360i/6 mini DALI	EP10427503
	PD-C 360i/8 mini DALI	EP10427510
KNX	PD-C360i/8 mini KNX	EP10426155
	PD-C360i/12 mini KNX	EP10426162
	LS FLAT mini KNX	ED10429002
12-36 V	MD-C360i/6 mini 12V	EP10425776
	PD-C360i/8 mini UC	EP10427343

WANT TO KNOW MORE?

For more information on the detectors in the COMPACT/FLAT mini series, simply scan the QR code!



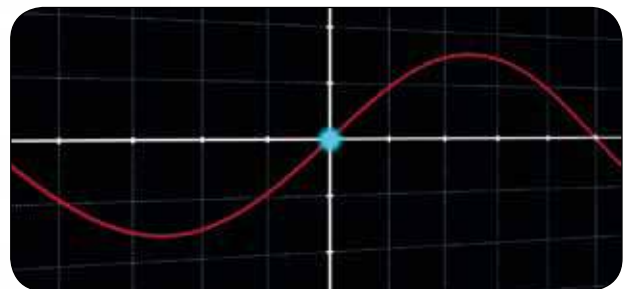
DESIGNER PRESENCE AND MOTION DETECTORS FLAT SERIES



OUTSTANDINGLY FLAT

Whether in the entrance area of an upmarket wellness hotel or a prestigious board office — many locations feature exquisite interior décor which demands equally attractive room technology. The FLAT presence and motion detectors by ESYLUX fulfil this requirement with stylish elegance.

The lenses are flattened in order to ensure a particularly discreet appearance. The wide variety of cover designs means that the ideal choice is available for every taste — round or rectangular designs in various colours, and even with a glazed surface where necessary. The FLAT detectors combine energy efficiency, comfort and safety with elegance, whether on the wall or ceiling.



Zero-cross switching

Thanks to their zero-cross switching behaviour, the 230-V detectors protect their own relays, providing a highly sustainable operating concept.

WANT TO KNOW MORE?

For more information on the designer detectors in the FLAT series, simply scan the QR code!





ADVANTAGES AT A GLANCE:

VERSATILE
Available as a 230 V device or DALI version, with GST plug-in connector or including a ceiling mounting box

TIME-SAVING
DALI broadcast for simple activation

VARIETY OF LOOKS
Available in many housing designs

FLAT
Just 6.8 mm when surface-mounted on ceilings

WIDE FIELD OF VISION
Range of more than 8 m in Ø at an installation height of 3 m.

AUTONOMOUS
Independent configuration of DALI electronic ballasts



OVERVIEW OF FLAT SERIES:

230 V	Product designation	Item no.
	MD-FLAT-E 360i/8 RW	EP10428548
	MD-FLAT-E 360i/8 RW GST	EP10427862
	MD-FLAT 360i/8 RW	EP10427886
	MD-FLAT 360i/8 RG	EP10428029
	MD-FLAT 360i/8 SW	EP10427893
	MD-FLAT 360i/8 GRG	EP10428043
	PD-FLAT-E 360i/8 RW	EP10428555
	PD-FLAT-E 360i/8 RW GST	EP10427879
	PD-FLAT 360i/8 RG	EP10428036
	PD-FLAT 360i/8 SW	EP10427923
	PD-FLAT 360i/8 RW	EP10427930
	PD-FLAT 360i/8 SB	EP10427947
	PD-FLAT 360i/8 RB	EP10427954
	PD-FLAT 360i/8 GRW	EP10427961
	PD-FLAT 360i/8 GRB	EP10427978
	PD-FLAT 360i/8 GRG	EP10428050
	PD-FLAT 360i/8 GSW	EP10427985
	PD-FLAT 360i/8 GSB	EP10427992

DALI	Product designation	Item no.
	PD-FLAT 360i/8 RW DALI	EP10427541
	PD-FLAT 360i/8 SW DALI	EP10427558
	PD-FLAT 360i/8 GRW DALI	EP10427565
	PD-FLAT 360i/8 GSW DALI	EP10427572
	PD-FLAT 360i/8 GRB DALI	EP10427589
	PD-FLAT 360i/8 GSB DALI	EP10427596
	PD-FLAT 360i/8 SB DALI	EP10427909
	PD-FLAT 360i/8 RB DALI	EP10427916
KNX	PD-FLAT 360i/8 RW KNX	EP10451706
	PD-FLAT 360i/8 RB KNX	EP10451768
	PD-FLAT 360i/8 RG KNX	EP10451799
	PD-FLAT 360i/8 SW KNX	EP10451713
	PD-FLAT 360i/8 SB KNX	EP10451775
	PD-FLAT 360i/8 GRW KNX	EP10451720
	PD-FLAT 360i/8 GRB KNX	EP10451744
	PD-FLAT 360i/8 GRG KNX	EP10451782
	PD-FLAT 360i/8 GSW KNX	EP10451737
	PD-FLAT 360i/8 GSB KNX	EP10451751

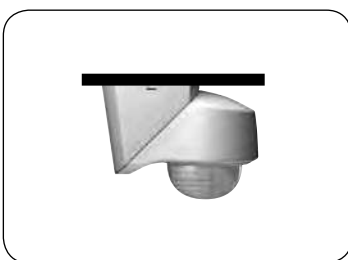
OUTDOOR MOTION DETECTORS RC SERIES



FLEXIBLE DETECTION FOR YOUR FAÇADE

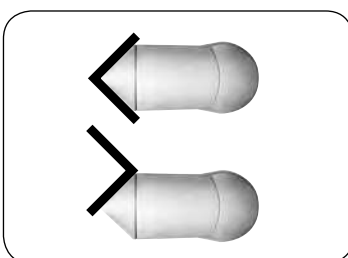
Outdoor motion detectors require not only reliable and accurate sensors, but crucially also a robust and weather-resistant design. Our RC series is sure to last for many years in outdoor environments thanks to the use of appropriate protection types and guaranteed resistance to extreme temperatures. Not only that, but they also feature a high level of adaptabil-

ity to local outdoor conditions. As well as 360° anti-creep protection, the RC motion detectors also feature a special base which allows simple installation on both inner and outer corners — whether on the wall or ceiling!



Ceiling mounting

Without accessories — simply turn the base



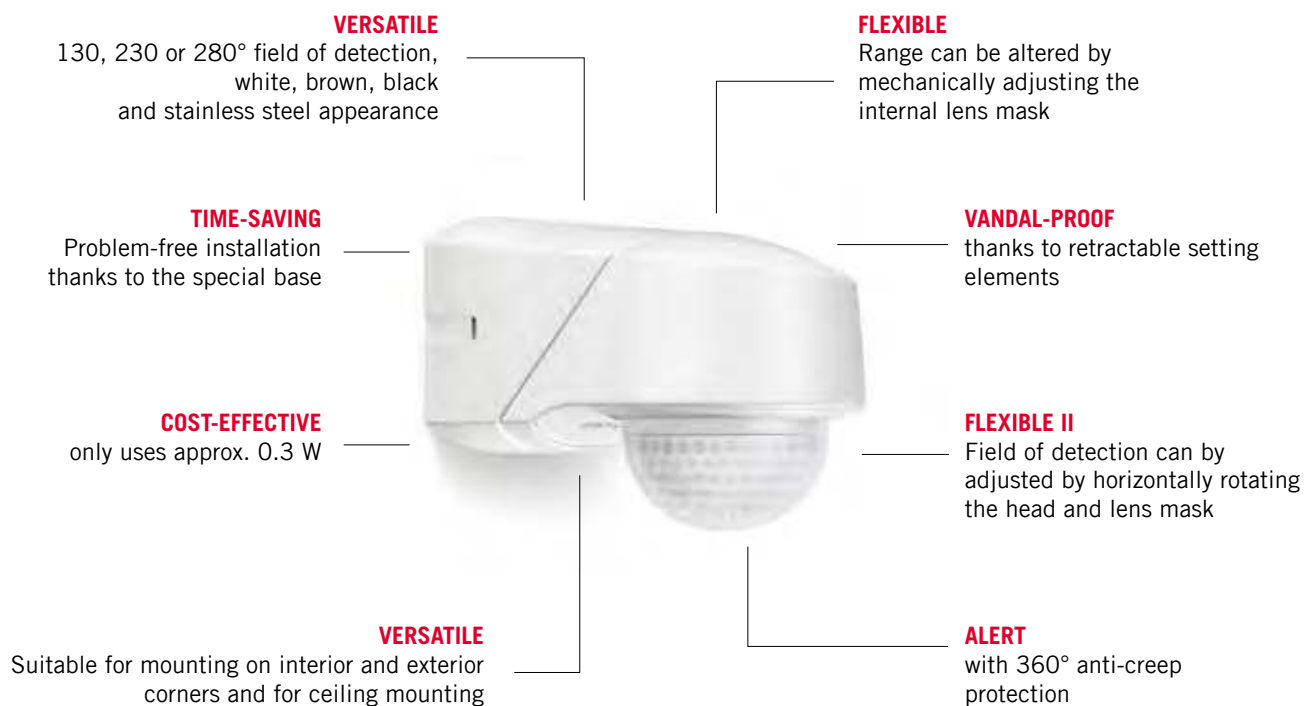
Corner mounting

With accessory part: RC corner bracket





ADVANTAGES AT A GLANCE:



OVERVIEW OF RC SERIES:

230 V	Product designation	Item no.
	RC 130i white	EM10015014
	RC 130i black	EM10015212
	RC 130i brown	EM10015113
	RC 230i white	EM10015311
	RC 230i black	EM10015519
	RC 230i brown	EM10015410
	RC 230i stainless steel appearance	EM10015618
	RC 280i white	EM10015717
	RC 280i black	EM10015915
	RC 280i brown	EM10015816

	Product designation	Item no.
KNX	RC 230i KNX white	EM10015472
12 - 36 V	RC 230i UC white	EM10015649

WANT TO KNOW MORE?

For more information on the
detectors in the RC SERIES, simply
scan the QR code!



KNX PRESENCE AND MOTION DETECTORS ATMO®SERIES



POWERFUL MULTI-SENSORS

The ATMO presence detector is the perfect example to demonstrate the capability and the potential of our technology, using just one product solution. At its highest level of configuration, its unique multi-sensor technology enables it to detect changes in lighting, humidity, temperature and air quality and ensure optimal brightness as well as maintaining a healthy,

FOCUS ON HEALTH, PERFORMANCE AND ENERGY EFFICIENCY

Air quality is often regarded as synonymous with CO₂ content. But CO₂ is only one of many contributory factors, not to mention that it is odourless. The VOC value is much more informative*: This measures anthropogenic emissions, e.g. from plastics and construction materials, carpets or cleaning agents, as well as biogenic emissions from people or food-stuffs. All of these are everyday occurrences, particularly in enclosed spaces.

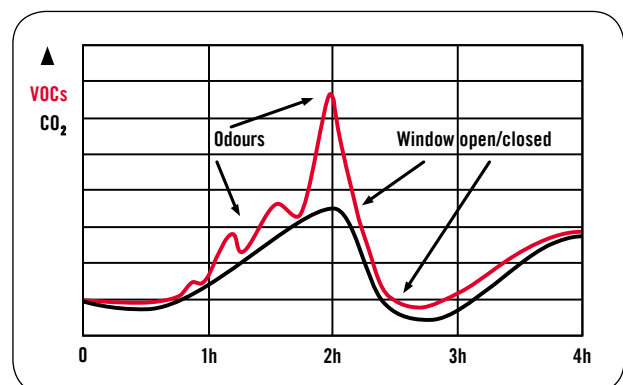
The problem is that excessive concentrations of these mixed gases can have a negative effect on people's moods, as well as causing typical symptoms of "sick building syndrome" such as sore eyes, headaches, tiredness or dizziness. All of these have the effect of reducing staff efficiency, and VOCs are therefore the single most important reason to ventilate a building.

At its highest configuration level, ATMO solves this problem automatically and saves energy in the process. As well as ensuring that rooms are only ventilated when they are oc-

cupied and comfortable ambient climate. An acoustic sensor can be used to complement the PIR presence detectors in particularly challenging situations. With a total of six "senses" in just one device, there is no need for several individual solutions. This shows just how easy it is to accommodate complex requirements using intelligent technology.

cupied, the series also restricts the operation of ventilation systems to times when they are actually needed on the basis of current air quality.

*VOC stands for Volatile Organic Compounds



Use in a conference room:

CO₂ sensors (black) do not react to odours, cigarette smoke or other VOCs. VOC sensors (red) therefore perform measurements which are much more targeted to user needs.



6 SENSES IN ONE DEVICE

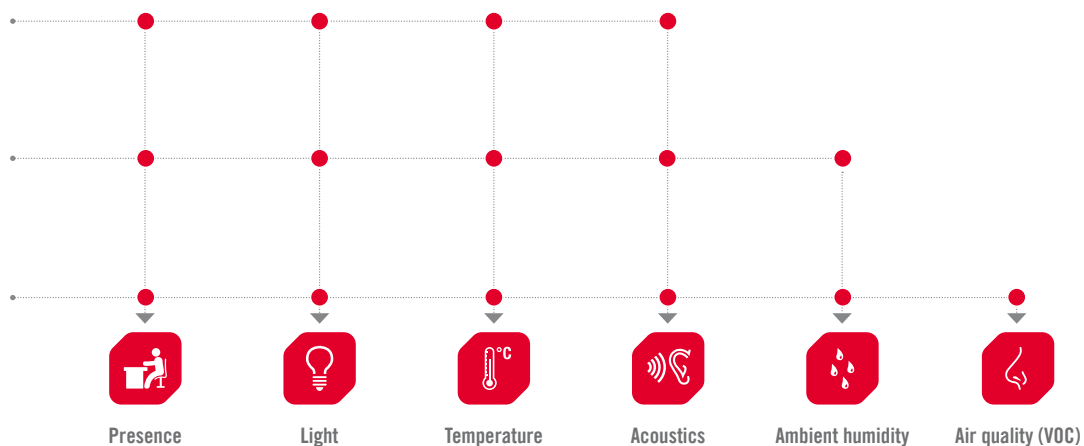
PD-ATMO 360i/8 T KNX



PD-ATMO 360i/8 A KNX



PD-ATMO 360i/8 O KNX



OVERVIEW OF THE ATMO® SERIES:

	Product designation	Item no.
KNX	PD-ATMO 360i/8 T KNX	EP10427213
	PD-ATMO 360i/8 A KNX	EP10427206
	PD-ATMO 360i/8 O KNX	EP10427220

WANT TO KNOW MORE?

For more information on the ATMO® sensors, simply scan the QR code!

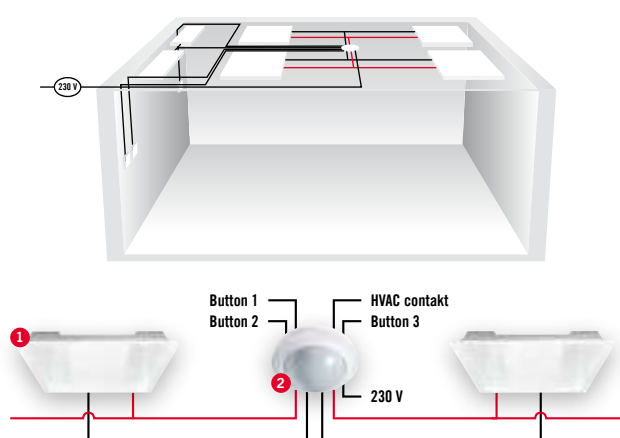


230-V ROOM SOLUTION: THE DUODIMPLUS PRESENCE DETECTORS



The DuoDIMplus presence detectors from the Compact series can be used to implement a complete room solution for demand-driven automation in the 230-V range. They measure light to ensure that continuous lighting is provided by two individually controlled rows of lights only when a room is occupied and when required by the level of daylight, meaning that energy use is limited to times when and locations where it is really needed. The "plus" in their name

indicates that this is not all they can do; they also feature a third output which can be used to switch other consumers (such as panel lighting, ventilation or projectors) on and off on a presence-dependent basis.



APPLICATION EXAMPLE PD-C360i/24 DUODIMplus WITH LIGHTING SERIES ALICE/CLARA

The presence detector only activates the two rows of lights when a room is occupied, and controls the rows individually based on the incident daylight. An additional output is available for the semi-automatic or fully automatic switching of additional devices.

— 230 V — 1-10 V

PRODUCT RECOMMENDATIONS:

No.	Product designation	Item no.
1	NOVA series	-
2	PD-C360i/24 DUODIMplus FM	EP10426742

*Find out more online at:
nova.lighting

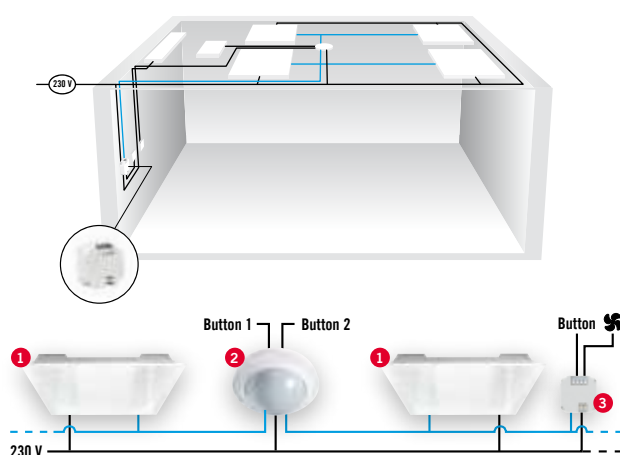


DIGITAL ROOM SOLUTION WITH DALI: DUODALI PRESENCE DETECTORS + DALI SWITCH



Combining the DuoDALI presence detectors with the DALI switch is an ideal way to venture into the world of digital room automation. Thanks to the daylight-dependent continuous lighting control of two rows of lights, the devices automatically deliver the perfect lighting conditions with an excellent level of energy efficiency. They can also be manually adjusted using buttons to accommodate individual needs at all times. The DALI switch's additional switch-

ing channel allows conventional consumers such as ventilation, multimedia devices or air conditioning units to be integrated and controlled, making it possible to automate all the technology in the room with even lower power consumption. Another advantage of the DALI bus is the simple cabling and wiring — and broadcast operation dispenses with complicated software configuration.



APPLICATION EXAMPLE FOR DUODALI PRESENCE DETECTORS + DALI SWITCH

The presence detectors individually regulate two rows of lights via the DALI interface on the basis of incident daylight and limit the lights' activity to times when the room is occupied. The DALI switch can also be used to integrate conventional end devices and switch these devices on a presence-dependent basis.

— 230 V — DALI

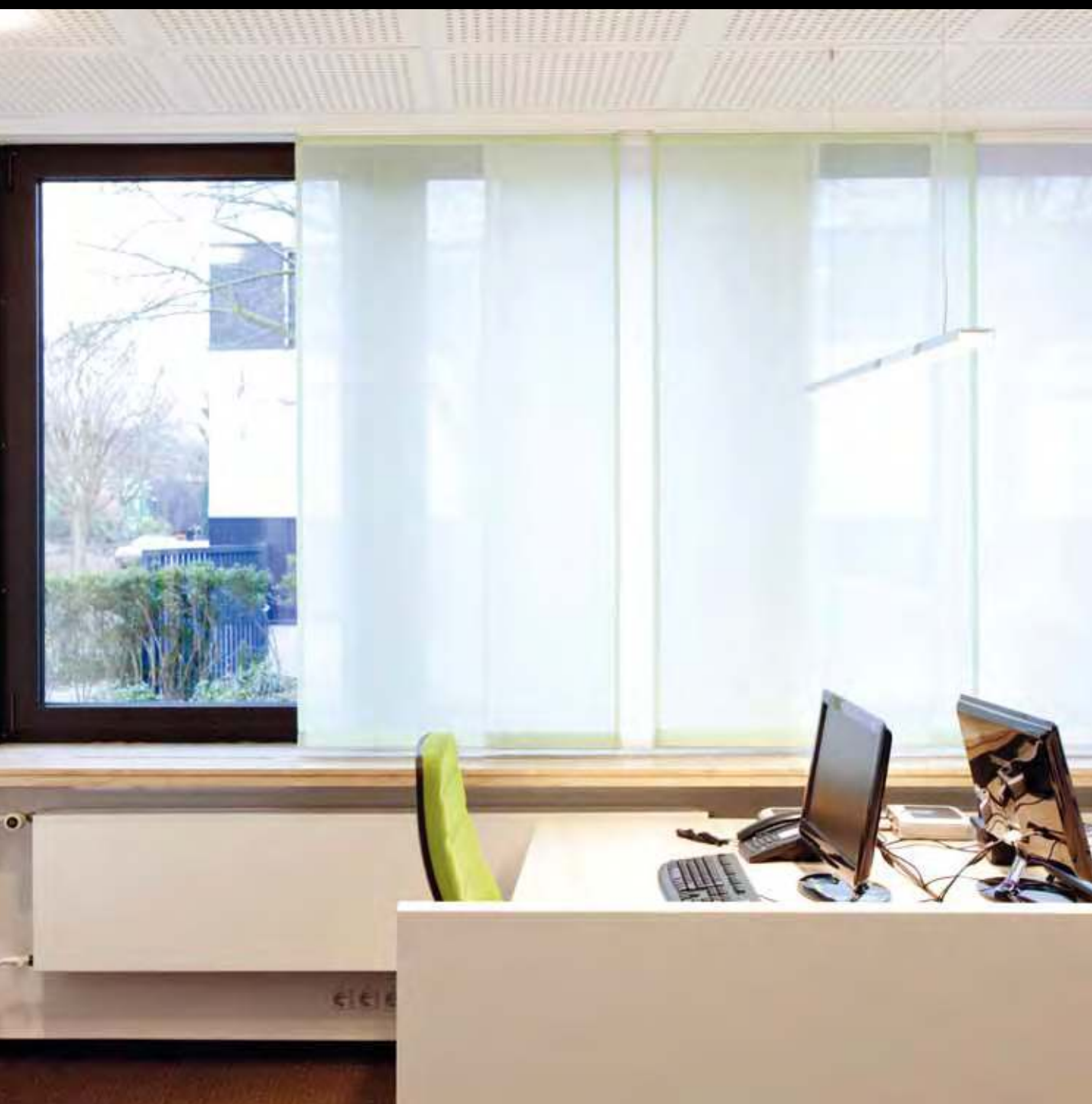
PRODUCT RECOMMENDATIONS:

No.	Product designation	Item no.
1	NOVA series	-
2	PD-C360i/24 DUO DALI	EP10427459
3	SW DALI Full Automation	EP10427473

*Find out more online at:
nova.lighting



DECENTRALISED ROOM SOLUTION WITH KNX: THE ROOM CONTROLLER BOX

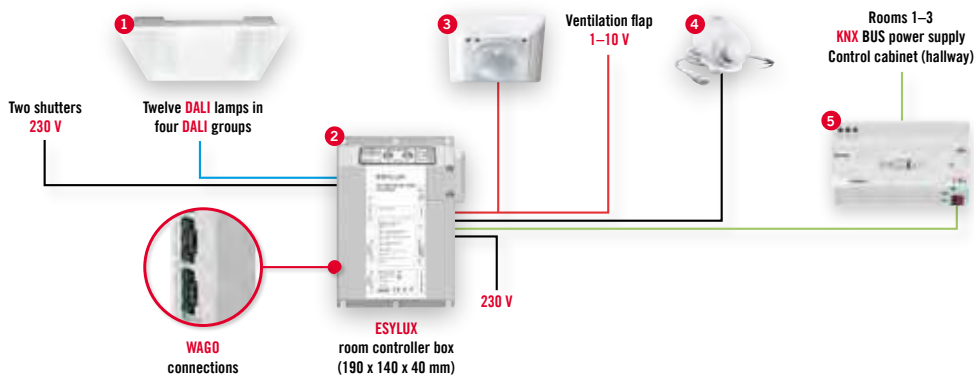




Our room controller box is a room automation solution featuring particularly comprehensive functions for intelligent modernisation of non-residential buildings. Although its appearance resembles that of a compact switch cabinet, in combination with the relevant multi-sensor technology it can achieve finely-tuned and KNX-based automation of all the technology in a room.* In order to do so, its features include binary inputs, a KNX-to-DALI gateway for lighting

and several special outputs for the demand-driven control of heating, ventilation and air conditioning units. Positioning the box directly in the room reduces cable runs to a minimum, and all other devices are connected using a simple plug-and-play principle.

*We can preconfigure the box for you and your building if necessary. Please call our hotline for individual advice. You can find the number on the back of this brochure.



APPLICATION EXAMPLE FOR THE ROOM CONTROLLER BOX

The room controller box and multi-sensors work together to control all the technology in the room automatically and on a demand-driven basis. Decentralised positioning directly in the room and simple plug-in connections ensure that the installation process is straightforward.

— 230 V — DALI — KNX — 1 - 10 V

PRODUCT RECOMMENDATIONS:

No.	Product designation	Item no.
①	NOVA series	-
②	CU-C RCB KNX DALI WAGO	EC10430015
③	PD 360i/8 LIN	EB10430619
④	EA-C TEVD 230V	EC10430053
⑤	CU-DIN PS 960	EC10430374

*Find out more online at:
nova.lighting



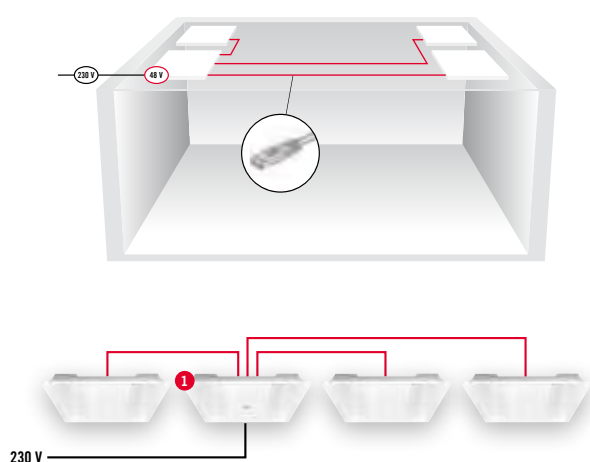
PLUG-AND-PLAY FOR AN INTELLIGENT LIGHTING SYSTEM: THE NOVA QUADRO SETS





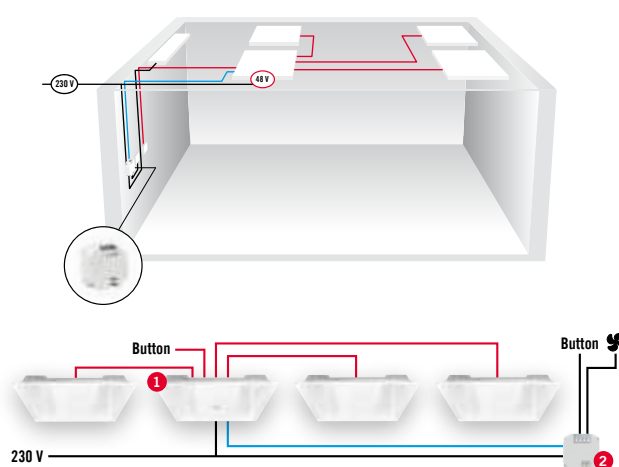
The Quadro sets form the basis for a comprehensive and extendible system solution which can be used to control not just lighting, but also other devices in a room on an energy-efficient basis. Automatic presence-dependent and daylight-dependent continuous light control is achieved by the various combinations of master and slave lights thanks to the use of integrated sensors, and the highest configuration level even features biologically effective lighting. For

installations on a larger scale, the sets can be extended by up to 100 lights using the four DALI interfaces in the master lights; alternatively, several sets can be combined with each other. Another practical option involves integrating DALI switch so that conventional end devices are incorporated and can be switched on a presence-dependent basis.



APPLICATION EXAMPLE OF ALICE QUADRO SET 3K / 4K IN A SINGLE ROOM.

The master lights guarantee presence-dependent and daylight-dependent continuous lighting control of the entire lighting system. All of the lights in the set can optionally be fitted with their own light sensor for demand-driven lighting in every area.



APPLICATION EXAMPLE OF ALICE QUADRO SET WITH HVAC CONTROLS.

In addition to lighting control, use of the DALI switch once again means that conventional end devices can be integrated and switched on a presence-dependent basis, either on a fully automatic basis or by using a button.

— 230 V — 48 V — DALI-BUS



The highest configuration level of this system solution is equipped with our SymbiLogic technology. This generates biologically effective light which changes in brightness and colour temperature over the course of the day, boosting the mood, concentration and health of a building's users. SymbiLogic uses the PIR and light sensors integrated into the lights for this purpose, automatically providing energy efficiency.

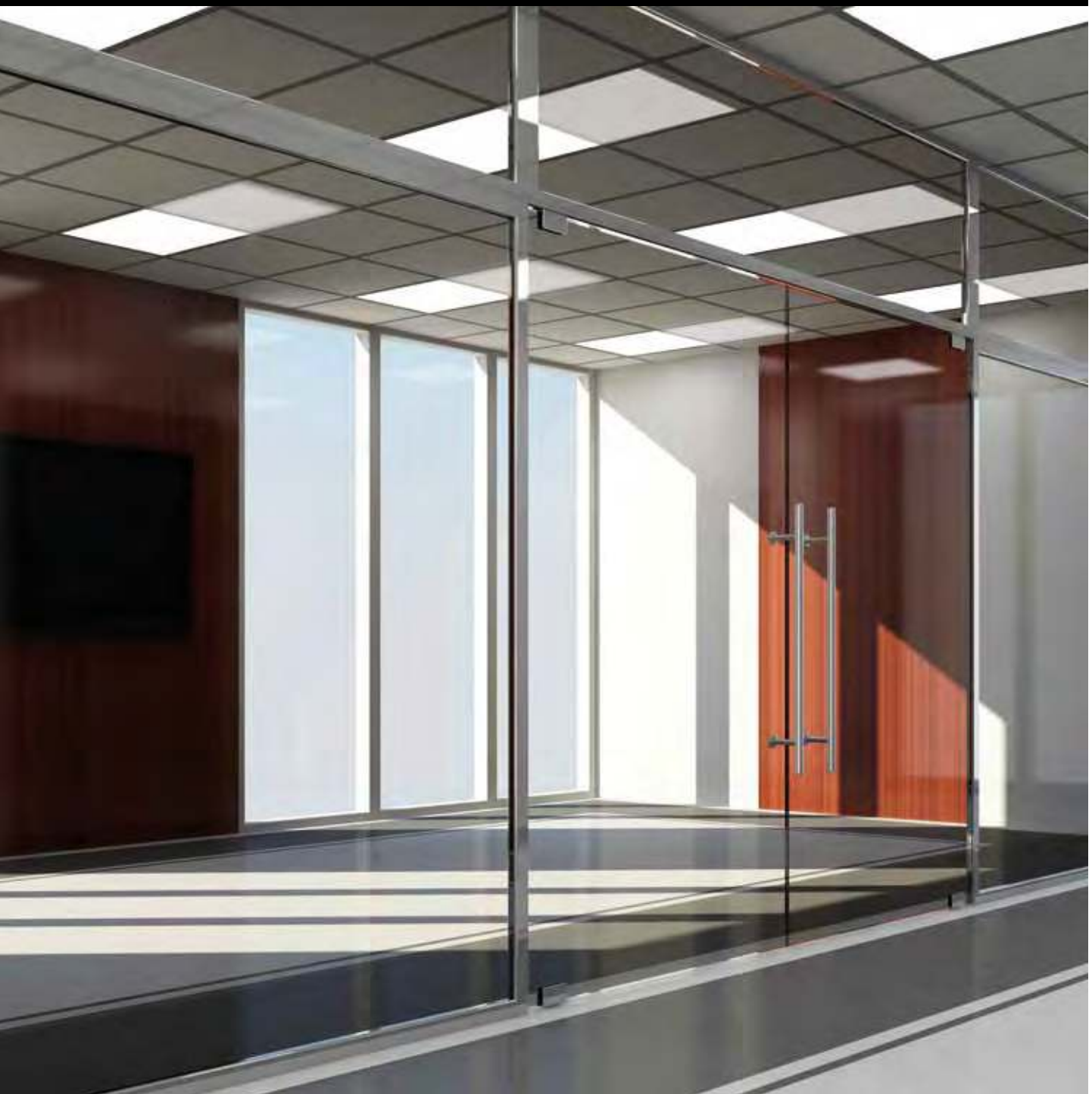
PRODUCT RECOMMENDATIONS:

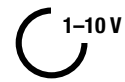
No.	Product designation	Item no.
1	NOVA Quadro Set	-
2	SW DALI Full Automation	EP10427473

*Find out more online at:
nova.lighting



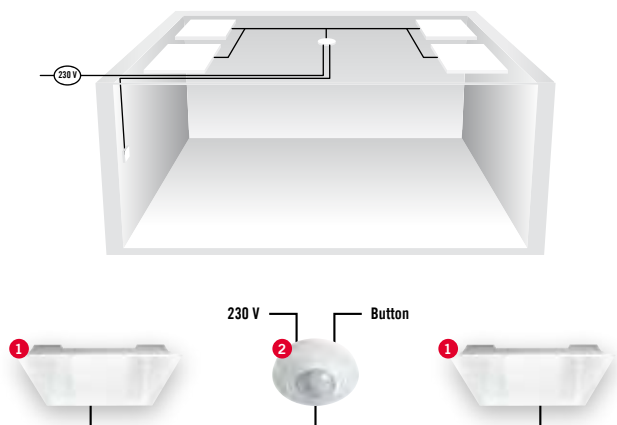
HIGH-QUALITY LIGHT FOR THE MOST DEMANDING OF VISUAL TASKS:
RECESSED CEILING LIGHTS NOVA & CLARA
STANDARD DESIGNS





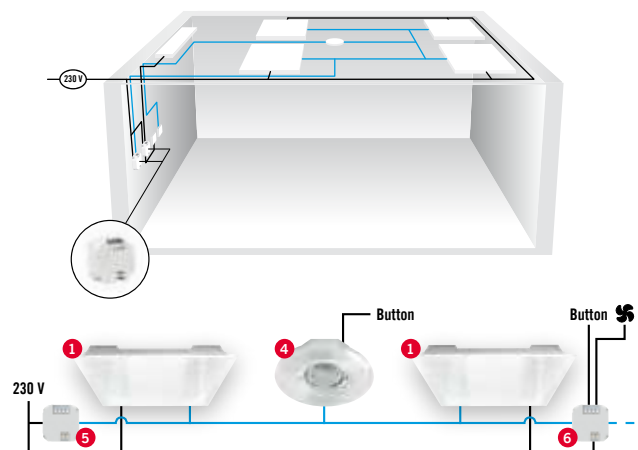
The lights in the CLARA series and the standard designs in the ALICE series represent optimum solutions for grid layouts in suspended ceilings. Both are genuine visual alternatives which form an energy-efficient and durable complete system and are available with different high-quality diffuser variants. The best news: they are

compatible with all common operating technologies. This means that they can be combined with all our automation solutions as required, from simple switching operations or 1–10 V dimming to digital DALI networking. Optional Linect plug-in connectors ensure that installation is always a straightforward procedure.



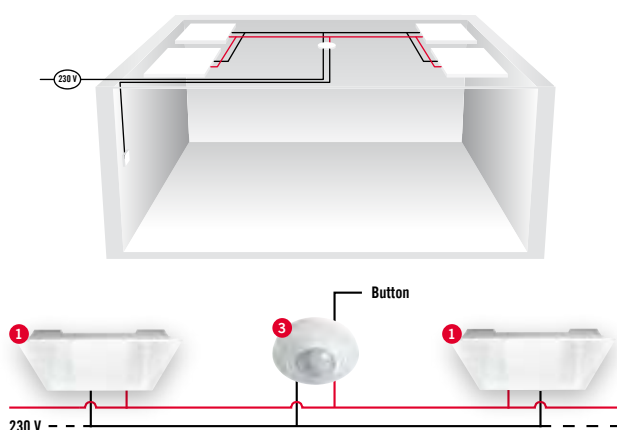
APPLICATION EXAMPLE ON/OFF.

The perfect entry-level solution for energy-efficient lighting control: a 230-V presence detector automatically switches the light on and off, and a button input allows manual intervention as and when necessary.



APPLICATION EXAMPLE FOR A DALI INSTALLATION

A separate 1–10-V control cable allows the illumination level in the 230-V range to be adjusted precisely to a user's needs, on the basis of either automatic continuous light control or manual dimming.



APPLICATION EXAMPLE FOR 1–10-V DIMMING

The DALI presence detector provides digitally regulated continuous light control, and the DALI switch means that conventional end devices can be switched automatically on a presence-dependent basis.

— 230 V — 1-10 V — DALI-BUS

PRODUCT RECOMMENDATIONS:

No.	Product designation	Item no.
1	NOVA series	-
2	PD-C360i/8plus	EP10425042
3	PD-C360i/8 DIMplus	EP10425332
4	PD-FLAT 360i/8 GRW DALI	EP10427565
5	CU PS DALI	EC10430008
6	SW DALI Full Automation	EP10427473

*Find out more online at:
nova.lighting

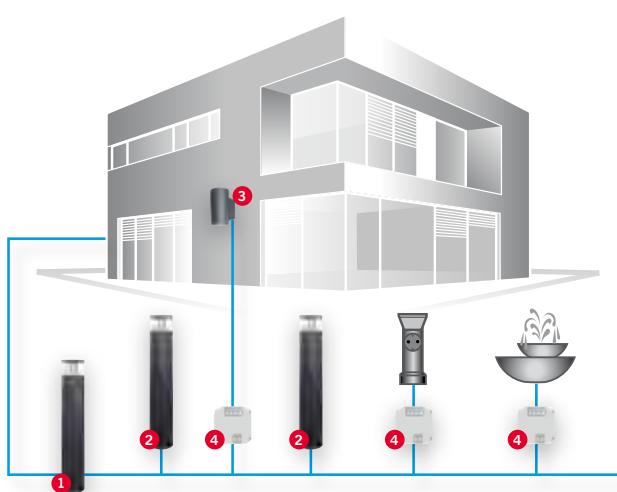


NETWORKED LIGHT MANAGEMENT IN OUTDOOR SPACES: THE ALVA SERIES



The ALVA series is about more than just robust and attractive lighting for outdoor spaces. The wall or house number lights and bollard lights in the series can optionally also be fitted with high-quality motion detectors, thereby giving the lighting system the little bit of intelligence it needs. The bollard lights are also available with an integrated DALI electronic ballast so that they can easily be integrated into a light management system and used to design personal-

ised light concepts. If the lights in the series are equipped with integrated motion detectors, they can even control entire groups of lights, ensuring presence-dependent communal switching, pleasant orientation lighting or the automatic activation of artificial light when darkness falls, for example.



APPLICATION EXAMPLE FOR ALVA DALI AUTOMATION.

The networking of DALI-enabled lights makes it possible to design intelligent scenes for gardens, car parks and pathways. The additional integration of motion detectors means that the entire system can be automatically controlled, on a presence-dependent or twilight-dependent basis or for pleasant orientation lighting. The DALI switch can again be used for the integration and presence-dependent switching of conventional end devices.

DALI-BUS

PRODUCT RECOMMENDATIONS:

No.	Product designation	Item no.
1	BL-ALV 20 018 830 ANT A DALI	EL10820403
2	BL-ALV 20 018 830 ANT DALI	EL10820205
3	UDL-ALV 012 830 AN	EL10830006
4	SW DALI Full Automation	EP10427473

*Find out more online at:
alva.lighting



INDIVIDUAL OFFICES

(usage type 1 in accordance with ENEC 2014)

DEFINITION OF TASK

In an office, lighting should be automatically controlled according to requirements, i.e. activated by natural light and by the presence of people. It should also be possible to switch the lighting manually at the touch of a button.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on when the brightness level falls below the light intensity value and if movement is detected. The lighting can also be manually switched on or off at the touch of a button.

PRODUCT RECOMMENDATION

PD-C360i/8 - master

1 x

- Recessed mounting IP 20
- Surface mounting IP 20/IP 54 with accessories
- Recessed ceiling mounting IP 20 with accessories

or

PD-C360i/8 mini - master

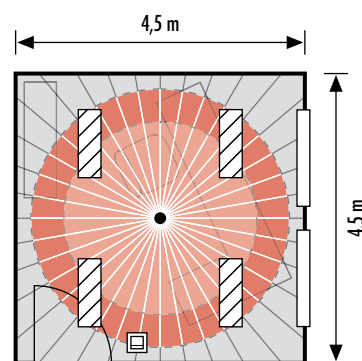
1 x

For individual settings, use the remote control Mobil-PDi/MDi.

- Recessed ceiling mounting IP 55

PLANNING EXAMPLE

Square room, area approx. 20 m²,
ceiling height of 3 m.



- Workspace PD-C360i/8
- Workspace PD-C360i/8 mini
- Passage area

ACCESSORIES

Mobil-PDi/MDi (service remote control)

optional

The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder). There is also the option of switching the lighting on or off at any time without leaving the desk.

Mobil-RCi-M (end-user remote control)

optional

Only PD-C360i/8 mini - Master; there is also the option of switching the lighting on or off at any time without leaving the desk.

SETTINGS

Immediate operability due to default settings

Working area
light value
(approx. 400 lux)

Switch-off delay time
5 minutes

Fully automatic

Individual settings by remote control Mobil-PDi/MDi

-  Enter programming mode
-  Store current light value as switch-on value
-  Select from specified preset light values
-  Adjust switch-off delay time for light channel to 10 min.
-  Exit programming mode



GROUP OFFICES

(2–6 workstations, usage type 2 in accordance with ENEC2014)

DEFINITION OF TASK

In an open-plan office, lighting should be automatically adjusted according to requirements, i.e. activated by natural light and by the presence of people. Lighting in each work area should be switched on/off individually. Walkways should be regarded as separate from working areas. Each work area is equipped with continuous lighting control and the passage area is equipped with orientation lighting as basic lighting (10%).

RECOMMENDED SOLUTION

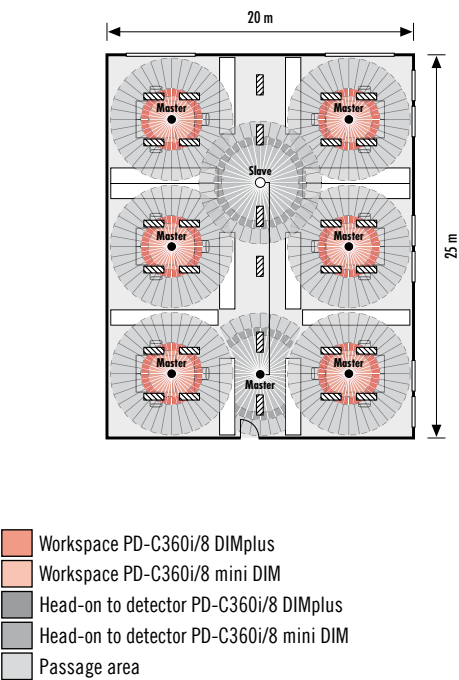
Each work area is equipped with the selected presence detector which automatically controls the lighting depending on natural light. In addition, the light values can be adjusted at any time by means of a button. The walkway is switched on automatically by means of a master/slave combination. The orientation lighting guarantees basic lighting of 10%. To prevent the hallway lighting from switching on when it is not required, the field of detection can be limited using the supplied covering clips/lens masks. The maximum in-rush current must be taken into account for channel 2 and an ESYLUX relay or current-limiting module used.

RECOMMENDED PRODUCTS

PD-C360i/8 DIM plus	7 x
PD-C360/8 slave	1 x
<ul style="list-style-type: none"> • Recessed mounting IP 20 • Surface mounting IP 20/IP 54 with accessories • Recessed ceiling mounting IP 20 with accessories 	
or	
PD-C360i/8 mini DIM	7 x
For individual settings, use the remote control Mobil-PDi/plus.	
PD-C360/8 mini slave	1 x
<ul style="list-style-type: none"> • Recessed ceiling mounting IP 55 	

PLANNING EXAMPLE

Large rectangular office, 6 workspaces, separated by one corridor, area approximately 500 m², ceiling height of 3 m.



ACCESSORIES

Mobil-PDi/plus (service remote control)	optional
The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder). There is also the option of switching the lighting on or off at any time without leaving the desk.	
Mobil-PDi/User (end-user remote control)	optional
There is the option of switching the lighting on or off at any time without leaving the desk.	
Mobil-RCi-M (end-user remote control)	optional
Only PD-C360i/8 mini - Master; there is also the option of switching the lighting on or off at any time without leaving the desk.	

SETTINGS

Immediate operability due to default settings

Working area	
light value	(approx. 400 lux)
Switch-off delay time	5 minutes
Fully automatic	

Individual configuration using remote control Mobil-PDi/plus

	Enter programming mode
	Store current light value as switch-on value
	Select from specified preset light values
	Adjust switch-off delay time for light channel to 10 min.
	Activate orientation lighting
	Adjust switch-off delay time for orientation lighting to 10 min.
	Exit programming mode





CONFERENCE ROOMS

(conferences, meetings, seminars, usage type 4
in accordance with ENEC 2014)

DEFINITION OF TASK

In a conference room, lighting should be automatically controlled according to requirements, i.e. activated by daylight and by the presence of people. For specific presentations, the lighting should be set to saved light "scenes". The air conditioning should be automatically switched on if persons are detected.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on when the brightness level falls below the light intensity value and if movement is detected. Individual light "scenes" can be stored with a remote control and called up at the touch of a button. Through the presence channel, if persons are detected, the air conditioning is immediately switched on and time-controlled by the separately adjustable time setting. The maximum in-rush current must be taken into account for channel 2 and an ESYLUX relay or current-limiting module used.

PRODUCT RECOMMENDATION

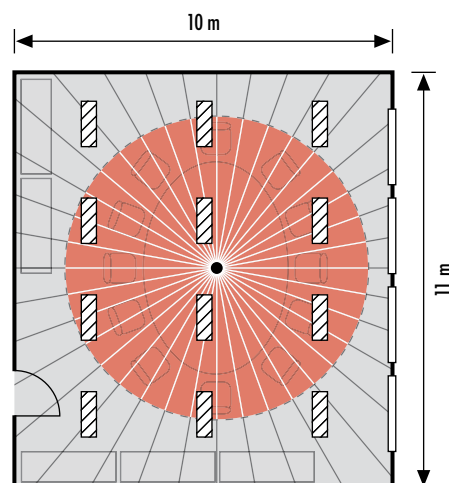
PD-C360i/24 DIMplus

1 x

- Recessed mounting IP 20
- Surface mounting IP 20/IP 54 with accessories
- Recessed ceiling mounting IP 20 with accessories

PLANNING EXAMPLE

Roughly rectangular conference room, area approx. 110 m², ceiling height of 3 m.



- Work area
- Passage area

ACCESSORIES

Mobil-PDi/plus (service remote control)

optional

The detector can be set in just 15 seconds according to customer requirements (no need for a ladder). There is also the option of dimming or controlling the lighting at any time without leaving the desk.

Mobil-PDi/User (end-user remote control)

optional

There is also the option of dimming or controlling the lighting at any time without leaving the desk. Individual light "scenes" can be called up.

SETTINGS

Immediate operability due to default settings

Working area
light value
(approx. 400 lux)

Switch-off delay time
5 minutes

Switch-off delay time
HVAC
60 min.

Fully automatic

Individual configuration using remote control Mobil-PDi/User

-  Manual dimming of lighting to required light value
-  Temporary storage of required light value
-  Storage of required light scene
-  Activation of stored light scene



SELF-SERVICE HALLS

(ATMs, usage type 5 in accordance with ENEC 2014)

DEFINITION OF TASK

In the self-service area of a bank the lighting should be automatically adjusted according to requirements, i.e. activated by natural light and the presence of people. Outside of business hours there should always be basic lighting of 10%. When a person enters the room, the lighting should be increased to 100%.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on automatically when the brightness level falls below the light intensity value and if movement is detected. The presence detector should be positioned so that the close-up range is used. The orientation light must be permanently switched on via the remote control. If the ambient lighting falls below the light value, the lighting switches on and remains at 10%; if a person enters the room, the lighting adjusts to 100%.

PRODUCT RECOMMENDATION

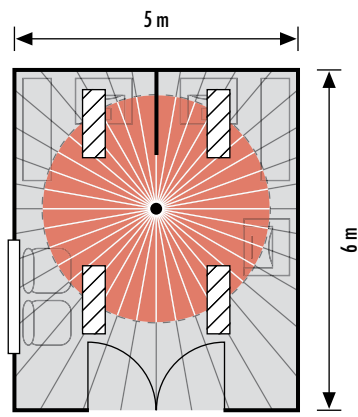
PD-C360i/12 mini DIM

1 x

For individual configuration, use the remote control Mobil-PDi/plus.
 • Recessed ceiling mounting IP 55

PLANNING EXAMPLE

Roughly rectangular room, area approx. 30 m², ceiling height of 3 m.



- Work area
- Passage area

ACCESSORIES

Mobil-PDi/plus (service remote control) optional

The detector can be set in just 15 seconds according to customer requirements (no need for a ladder). The orientation light must be permanently switched on via the remote control. There is also the option of dimming or controlling the lighting at any time.

Mobil-RCi-M (end-user remote control) optional

It is possible to switch the lighting on or off at any time.

SETTINGS

Immediate operability due to default settings

- Working area light value (approx. 400 lux)
- Switch-off delay time 5 minutes
- Fully automatic

Individual configuration using remote control Mobil-PDi/plus

- Enter programming mode
- Store current light value as switch-on value or Select from specified preset light values
- Adjust switch-off delay time for light channel to 10 min.
- Activate orientation lighting
- Exit programming mode





CLASSROOMS

(schools, usage type 8 in accordance with ENEC 2014)

DEFINITION OF TASK

In a classroom, lighting should be automatically regulated to a constant light level according to requirements, i.e. activated by daylight and by the presence of people. The window and wall lighting strips should be switched and controlled independently of each other. The strip lights should be switched on manually via a button while the panel lighting (i.e. for a white/blackboard) is switched separately.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on when the brightness level falls below the light intensity value and if movement is detected. Both lighting zones are set to the required light level on the basis of continuous lighting control, and regulated separately depending on natural light levels and presence. As light measurement is performed using two channels, if the natural light increases then the lighting closer to the window will be controlled earlier than the lighting closer to the wall. The whiteboard/blackboard lighting works on a presence-dependent basis. Both the whiteboard/blackboard lighting and the two strip lights can be switched on or off separately using a button.

PRODUCT RECOMMENDATION

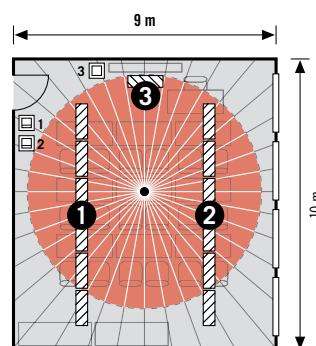
PD-C360i/24 DUODIMplus

1 x

- (FM and SM version)

PLANNING EXAMPLE

Roughly rectangular room, area approx. 90 m², ceiling height of 3 m.



- Work area
- Passage area
- 1 Lighting, wall side
- 2 Lighting, bank of windows
- 3 Whiteboard/blackboard lighting

ACCESSORIES

Mobil-PDi/plus (service remote control)

optional

The detector can be set in just 15 seconds according to customer requirements (no need for a ladder). There is also the option of dimming or controlling the lighting at any time without leaving the desk.

Mobil-PDi/User (end-user remote control)

optional

There is also the option of dimming or controlling the lighting at any time without leaving the desk. Individual light "scenes" can be called up.

SETTINGS

Immediate operability due to default settings

Working area
light value
(approx. 400 lux)

Switch-off delay time
5 minutes

Fully automatic

Individual configuration using remote control Mobil-PDi/plus

- Enter programming mode
- Store current light value as switch-on value
Select from specified preset light values
- Adjust switch-off delay time for light channel to 10 min.
- Exit programming mode



TOILETS AND WASHROOMS

(in non-residential buildings, usage type 16 in accordance with ENEC 2014)

DEFINITION OF TASK

In toilet facilities, lighting should be automatically controlled according to requirements, i.e. activated by the presence of people.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on if movement is detected in the vestibule. In this example, the ambient lighting is constantly below the light value as there is no natural lighting. The toilet area is fully covered by a master detector and two slave detectors. The ventilation is switched on, depending on presence, via a floating contact (HVAC). When the room has been vacated and the set time has elapsed, the lighting and ventilation are switched off.

PRODUCT RECOMMENDATION

PD-C360i/8plus

2x

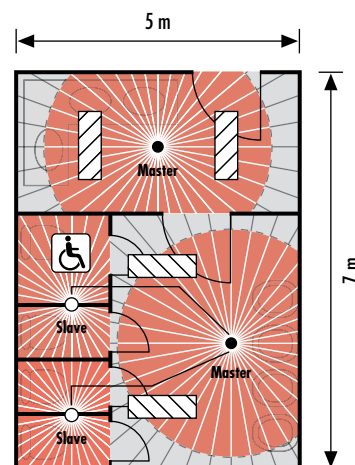
PD-C360i/8 slave

2x

- Recessed mounting IP 20
- Surface mounting IP 20/IP 54 with accessories
- Recessed ceiling mounting IP 20 with accessories

PLANNING EXAMPLE

Rectangular room, separate individual areas, area approx. 35 m², ceiling height of 3 m.



- Work area
- Passage area

ACCESSORIES

Mobil-PDi/MDi (service remote control)

optional

The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder).

SETTINGS

Immediate operability due to default settings

Light value
(approx. 400 lux)

Switch-off delay time
5 minutes

Switch-off delay time
HVAC
60 min.

Fully automatic

Individual configuration using remote control Mobil-PDi/MDi

-  Enter programming mode
-  Adjust switch-off delay time for HVAC channel to 15 min.
-  Exit programming mode



STAIRWELLS

(stairwells, usage type 19 in accordance with ENEC 2014)

DEFINITION OF TASK

For safety reasons and convenience, lighting in a stairwell should be automatically controlled based on demand, i.e. activated by the presence of people.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on if movement is detected. In this example, the ambient lighting is constantly below the light value as there is no natural lighting. Due to the field of detection, the ceiling-mounted motion detectors can also detect movement downstairs. Through the installation of a detector with an acoustic sensor, the detector is also triggered by noise. If the detector switches off the lighting after the set time has elapsed (no movement or noise), the lighting can be immediately re-activated, e.g. by calling out (making a noise), within max. 8 seconds. Infinitely variable sensitivity to noise. The acoustic sensor will only be enabled if the detector is activated first, either by movement or by switching on manually (button or remote control). This prevents noises from outside the monitored area affecting operation.

PRODUCT RECOMMENDATION

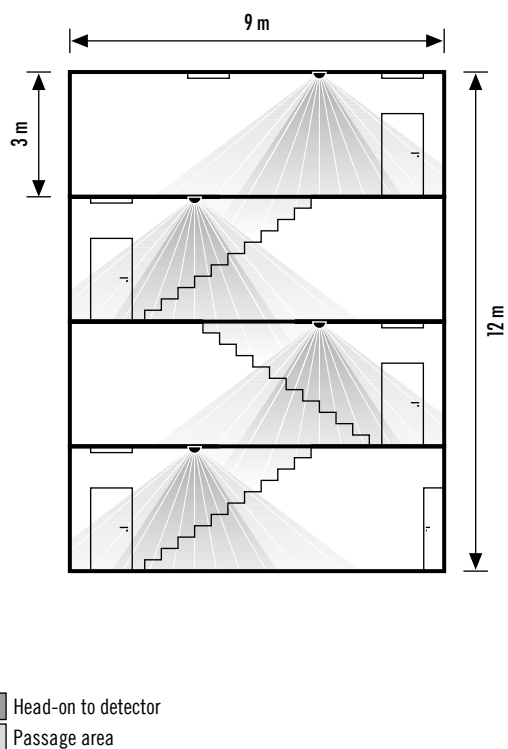
MD-C360i/8 MIC

- Recessed mounting IP 20
- Surface mounting IP 20/IP 54 with accessories
- Recessed ceiling mounting IP 20 with accessories

4x

PLANNING EXAMPLE

4-flight stairwell, 9-m long landing per flight, ceiling height of 3 m.



ACCESSORIES

Mobil-PDi/MDi (service remote control)

optional

The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder).

SETTINGS

Immediate operability due to default settings

Light value
(approx. 100 lux)

Switch-off delay time
5 minutes

Fully automatic

Individual configuration using remote control Mobil-PDi/MDi

- Enter programming mode
- Store current light value as switch-on value
or Select from specified preset light values
- Adjust switch-off delay time for light channel to 10 min.
- Exit programming mode



ARCHIVE ROOMS AND LIBRARIES

(usage type 20/28 in accordance with ENEC 2014)

DEFINITION OF TASK

In a library, lighting should be automatically controlled according to requirements, i.e. automatically activated by daylight and by the presence of people. The individual aisles and seating areas should maintain basic lighting of 10% for approx. one hour. Lighting in the entrance area should only switch on according to requirements.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting automatically switches on when the brightness level falls below the light value and if movement is detected. A master presence detector is installed in each aisle and above each seating arrangement. The orientation light can be programmed with the remote control. If the ambient lighting falls below the light value and movement is detected, the lighting switches to 100%. If no further movement is detected, the lighting for the aisles and seating areas switches to a basic lighting of 10% after one hour. After 1 hour (without movement), the lighting switches off completely.

PRODUCT RECOMMENDATION

PD-C360i/8 mini DIM

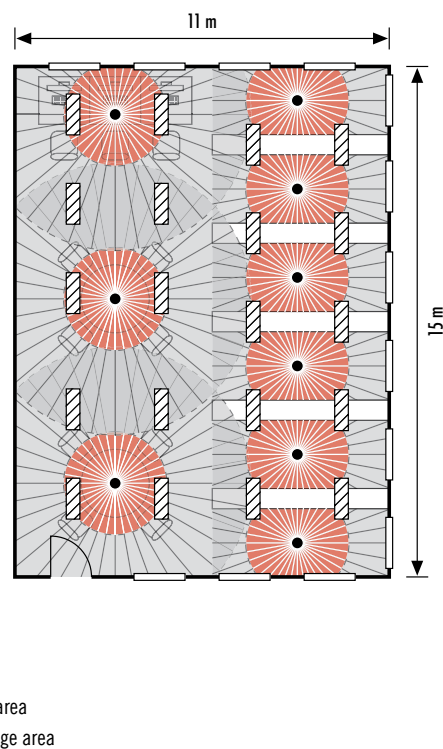
9x

For individual settings, use the remote control Mobil-PDi/plus.

- Recessed ceiling mounting IP 55

PLANNING EXAMPLE

Rectangular room, 3 reading areas, 6 aisles, area approx. 165 m², ceiling height of 3 m.



ACCESSORIES

Mobil-PDi/plus (service remote control)

optional

The detector can be set in just 15 seconds according to customer requirements (no need for a ladder). The orientation light must be permanently switched on via the remote control. There is also the option of dimming or controlling the lighting at any time.

Mobil-RCi-M (end-user remote control)

optional

It is possible to switch the lighting on or off at any time.

SETTINGS

Immediate operability due to default settings

Working area
light value (approx.
400 lux)

Switch-off delay time
5 minutes

Fully automatic

Individual configuration using remote control Mobil-PDi/plus

- Enter programming mode
- Store current light value as switch-on value
- Select from specified preset light values
- Adjust switch-off delay time for light channel to 15 min.
- Activate orientation lighting
- Exit programming mode



INDOOR STADIUMS

(usage type 31 in accordance with ENEC 2014)

DEFINITION OF TASK

In a sports hall, lighting should be automatically controlled according to requirements, i.e. activated by daylight and by the presence of people. Each section of the hall to be switched independently.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on when the brightness level falls below the light intensity value and if movement is detected. A presence detector master and slave is installed in each section of hall. Due to their large field of detection, each half of the hall is detected separately.

PRODUCT RECOMMENDATION

PD-C360i/24plus

2 x

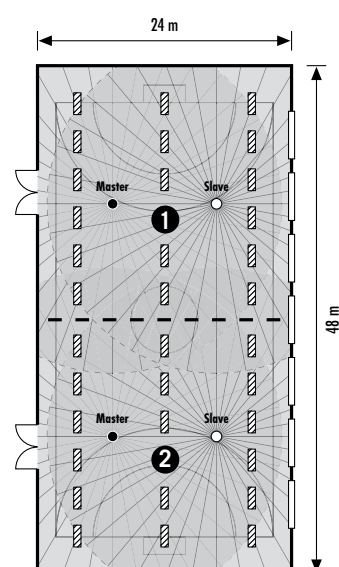
PD-C360i/24 slave

2 x

- Recessed mounting IP 20
- Surface mounting IP 20/IP 54 with accessories
- Recessed ceiling mounting IP 20 with accessories

PLANNING EXAMPLE

Rectangular sports hall, area approx. 1150 m², ceiling height of 5–10 m.



- Passage area
- Lighting area 1
- Lighting area 2

ACCESSORIES

Mobil-PDi/MDi (service remote control)

optional

The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder).

Basket guard

optional

Basket guards are used to protect the presence detectors without limiting the field of detection.

SETTINGS

Immediate operability due to default settings

Light value
(approx. 400 lux)

Switch-off delay time
5 minutes

Fully automatic

Individual configuration using remote control Mobil-PDi/MDi

- Enter programming mode
- Store current light value as switch-on value
Select from specified preset light values
- Adjust switch-off delay time for light channel to 10 min.
- Exit programming mode



CAR PARKS

(office and private use, usage type 32 in accordance with ENEC 2014)

DEFINITION OF TASK

In an underground car park, lighting should be automatically controlled based on demand, i.e. activated by the presence of people. It should be ensured that the individual areas are activated on entering.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on automatically if movement is detected. In this example, the ambient lighting is constantly below the light value as there is no natural lighting. The detectors are connected individually and the light output is fed to a power contactor so that the entire area lighting system can be switched on.

PRODUCT RECOMMENDATION

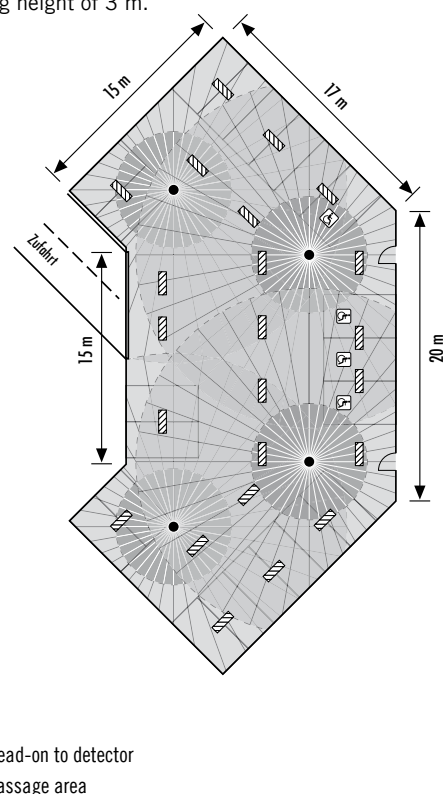
MD-C360i/24

- Recessed mounting IP 20
- Surface mounting IP 20/IP 54 with accessories
- Recessed ceiling mounting IP 20 with accessories

4x

PLANNING EXAMPLE

U-shaped underground car park, 25 parking space, area approx. 660 m², ceiling height of 3 m.



ACCESSORIES

Surface mounting box C IP 54

Mobil-PDi/MDi (service remote control)

optional

The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder).

Basket guard

optional

Basket guards are used to protect the presence detectors without limiting the field of detection.

SETTINGS

Immediate operability due to default settings

Light value for passageways (approx. 100 lux)

Switch-off delay time 5 minutes

Individual configuration using remote control Mobil-PDi/MDi

- Enter programming mode
- Adjust switch-off delay time for light channel to 10 min.
- Exit programming mode



CORRIDORS

(hospital corridor, usage type 40 in accordance with ENEC 2014)

DEFINITION OF TASK

In a hospital corridor, lighting should be automatically controlled based on demand, i.e. dependent on natural light and the presence of people. Partial lighting should always be ensured in the corridor in the event of a phase failing.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on when the brightness level falls below the light intensity value and if movement is detected. The presence detector is operated with any phase (e.g. L1). The lights in the hallway are divided between the two remaining phases (L2 and L3). In the event of failure of a single phase which powers a single light group (e.g. L2), partial lighting is still ensured in the hallway (L3). If phase L1 fails and there is no power to the presence detector, the detector contacts close. As these are floating break contacts, the lighting remains switched on. The maximum in-rush current must be taken into account for both contacts and an ESYLUX current-limiting module used.

PRODUCT RECOMMENDATION

PD-C360i/24 DRY

1 x

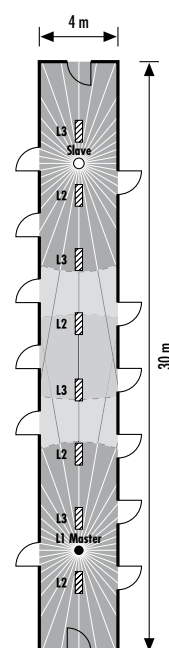
PD-C360i/24 slave

1 x

- Recessed mounting IP 20
- Surface mounting IP 20/IP 54 with accessories
- Recessed ceiling mounting IP 20 with accessories

PLANNING EXAMPLE

30 m long hospital corridor, 4 m wide, ceiling height of 3 m.



- Head-on to detector
- Passage area

ACCESSORIES

Mobil-PDi/MDi (service remote control)

optional

The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder).

SETTINGS

Immediate operability due to default settings

Light value (approx. 400 lux)

Switch-off delay time 5 minutes

Fully automatic

Individual settings by remote control Mobil-PDi/MDi

- Enter programming mode
- Enter current light value as switch-on value
- or select from fixed preset light values
- Adjust switch-off delay time for light channel to 10 min.
- Exit programming mode



WAREHOUSES

(usage type 42 in accordance with ENEC 2014)

DEFINITION OF TASK

In a high bay warehouse, lighting should be automatically controlled based on demand, i.e. dependent on natural light and the presence of people. The lighting in the individual aisles should then only switch on when each aisle is entered. The main aisle is regarded separately. Orientation lighting of 20% is required.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting switches on when the brightness level falls below the light intensity value and if movement is detected. The master detectors should be mounted in the darkest area of the aisle. To ensure that movement in the main aisle will not switch on lighting in the side aisles, lens masks should be used.

PRODUCT RECOMMENDATION

PD-C360i/24 DIMplus WH

PD-C360/24 slave WH

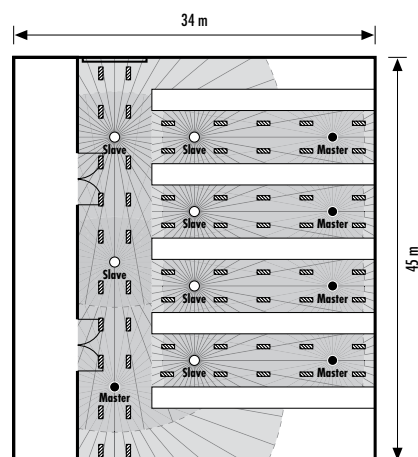
- Recessed mounting IP 20
- Surface mounting IP 20/IP 54 with accessories
- Recessed ceiling mounting IP 20 with accessories

5x

6x

PLANNING EXAMPLE

Warehouse area approx. 1500 m², 45 m long main passageway, 6 aisles, ceiling height of 5–15 m.



- Head-on to detector
- Passage area

Height	length	width
15 m	40 m	6 m
12.5 m	34 m	5 m
10 m	32 m	4 m
7.5 m	21 m	3 m
5 m	14 m	2 m

ACCESSORIES

Mobil-PDi/MDi (service remote control)

optional

The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder).

SETTINGS

Immediate operability due to default settings

Light value
(approx. 400 lux)

Switch-off delay time
5 minutes

Fully automatic

Individual settings by remote control Mobil-PDi/MDi

- Enter programming mode
- Store current light value as switch-on value
- Select from specified preset light values
- Adjust switch-off delay time for light channel to 10 min.
- Exit programming mode



HOUSE EXTERIORS

Outdoor lighting control

DEFINITION OF TASK

Outdoor house lighting should be automatically controlled based on demand, i.e. dependent on natural light and the presence of people.

RECOMMENDED SOLUTION

Through the use of the selected presence detector, the lighting automatically switches on when the brightness level falls below the light value and if movement is detected. Reliable detection operates in the outdoor area and the general outside lighting is switched on. For garden parties, the detectors can be switched on or off with the remote control for short periods (max. 12 hours).

PRODUCT RECOMMENDATION

RC 230i

RC 280i

- Ceiling and wall mounting IP 54
- Mounting on inner and outer corners with accessories

1 x
3 x



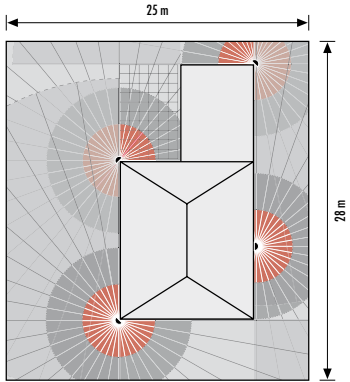
ACCESSORIES

Mobil-RCi (service remote control) optional
The detectors can be set in just 15 seconds according to customer requirements (no need for a ladder).

Mobil-RCi-M (end-user remote control) optional
It is possible to switch the lighting on or off at any time.

PLANNING EXAMPLE

700 m² plot, front of house, terrace and garden.



- 360° anti-creep protection
- Head-on to detector
- Passage area

SETTINGS

Immediate operability due to default settings

- Light value 10 lux
- Switch-off delay time 2 min.
- Maximum electronic range

Individual setting by remote control Mobil-RCi

- Enter programming mode
- Store current light value as switch-on value
- Select from four preset light values
- Adjust switch-off delay time for light channel to 4 min.
- Exit programming mode



FRONT OF HOUSE

Outdoor lighting control

DEFINITION OF TASK

Outdoor semi-detached house lighting should be automatically controlled according to requirements, i.e. activated by natural light and by the presence of people. Both entrance areas should be covered separately by the motion detectors.

RECOMMENDED SOLUTION

Through the use of the selected motion detector, the lighting switches on when the brightness level falls below the light intensity value and if movement is detected. The motion detectors are installed on the front of each house. Due to the dimensions of the plot, two operating ranges should be configured. The selected motion detector has $2 \times 100^\circ$ (total 200°) fields of detection which can be configured separately. These can each be set in 3 operating distance levels. *For garden parties, the detector can be switched on or off for short periods (max. 12 hours) using a remote control.*

PRODUCT RECOMMENDATION

MD-W200i

- IP 55 wall mounting

2x



ACCESSORIES

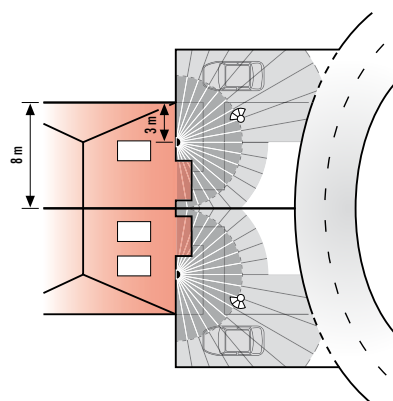
Mobil-RCi-M (end-user remote control)

optional

It is possible to switch the lighting on or off at any time. RC filter for suppression of inductive loads, such as relays, contactors, fluo-rescent lamps and transformers

PLANNING EXAMPLE

24-m wide house front, 2 driveways and entrance areas.



- Head-on to detector
- Passage area

SETTINGS

Immediate operability due to default settings

Light value
10 lux
Switch-off delay time
2 min.

Individual configuration using remote control Mobil-RCi-M

- 👁 Store current light value as switch-on value
- 📍 Lighting permanently ON/OFF for 12 hours
- 🔄 Reset functions and parameters
- ✕ Light can be switched off by remote control at any time and in any function

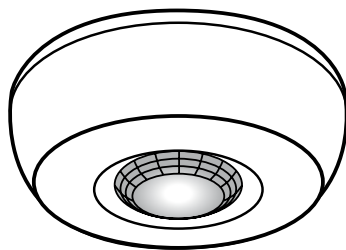
THE BASIC SERIES – FUNCTIONALITY FOR SIMPLE DEMANDS

- 10 A high-performance relay
- Zero-cross switching: Optimised for switching LED lights
- Factory setting for immediate operational readiness

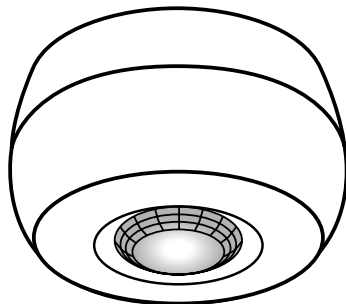


BASIC detectors

Mounting methods



BASIC



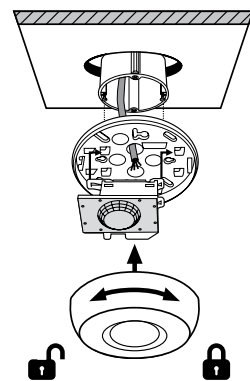
BASIC SMB

1.

RECESSED MOUNTING

with flush mounted

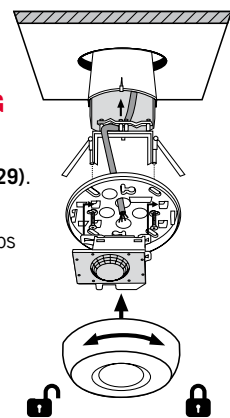
cable entrance



2.

RECESSED CEILING MOUNTING (ACCESSORY)

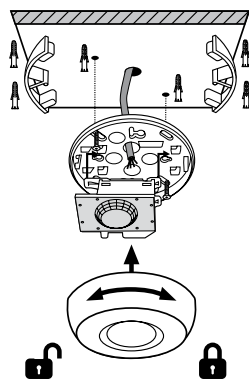
Ceiling-mounted set-C (EP10425929).
with dust-protected box and
installation bracket with cord grips



3.

SURFACE MOUNTING

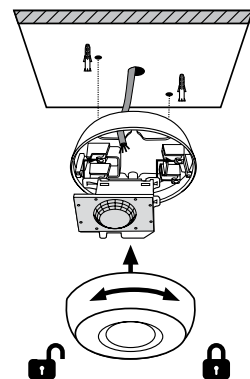
With spacers
(included)



4.

SURFACE MOUNTING

With extended wiring
space (SMB version)



CEILING DETECTORS — SIMPLE TO USE YET VERSATILE

- Larger wiring space due to low overall height of the power box
- Time-saving plug-in terminals
- Compatible with many installation boxes



PD/MD Detectors	Mounting methods
	<div data-bbox="826 741 866 779">1.</div> <div data-bbox="898 770 1042 920"> </div> <div data-bbox="1150 819 1182 853">(a)</div> <div data-bbox="1182 770 1382 920"> </div> <p data-bbox="834 976 1114 1003">RECESSED MOUNTING IP 20</p> <p data-bbox="834 1016 1029 1043">Installation/device box</p> <p data-bbox="834 1050 1342 1106">(a) Quick and simple connection with plug-in terminals, large wiring space</p> <hr/> <div data-bbox="826 1189 866 1227">2.</div> <div data-bbox="935 1245 1098 1417"> </div> <div data-bbox="1174 1267 1337 1395"> </div> <p data-bbox="834 1487 1262 1514">SURFACE MOUNTING IP 54 (ACCESSORIES)</p> <p data-bbox="834 1527 1091 1554">Double diaphragm line entry</p>

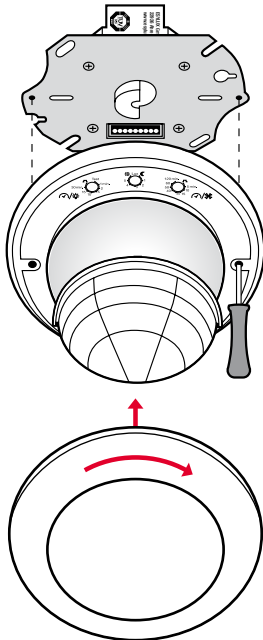
1 DETECTOR — 3 MOUNTING OPTIONS

- Larger wiring space due to low overall height of the power box
- Time-saving plug-in terminals
- Compatible with many installation boxes

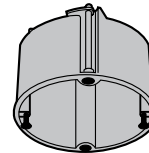
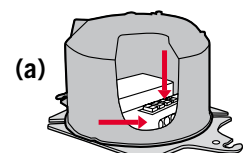


PD-C/MD-C detector

Mounting methods



1.

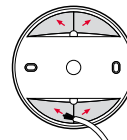
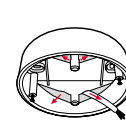
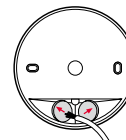
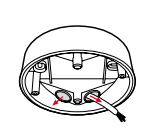


RECESSED MOUNTING IP 20

Installation/device box

- (a) Quick and simple connection with plug-in terminals, large wiring space

2.



SURFACE MOUNTING IP 20/IP 54 (ACCESSORIES)

- (a) Quadruple line entry with surface-mounted IP 20 box (accessory)

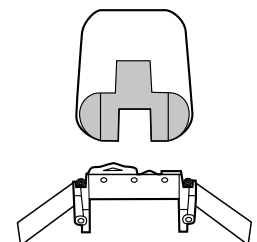
- (b) Double diaphragm line entry with surface-mounted IP 54 box (accessory)

3.

CEILING MOUNTING IP 20 (ACCESSORY)

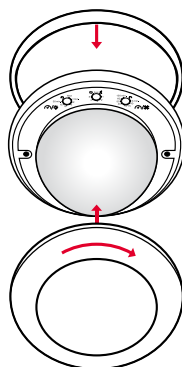
Installation set (accessory)

- (a) Dust-protected box and installation bracket with cord grips



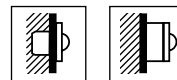
COVER AND DESIGN RING

Quick and easy to replace/paint (silver as accessory)



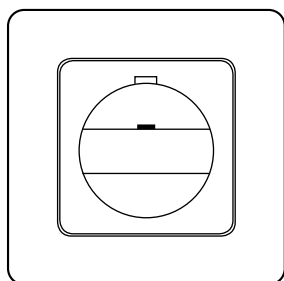
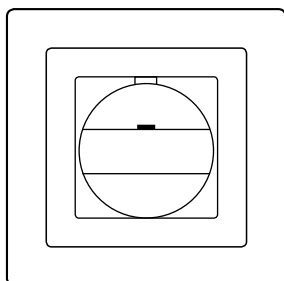
THE WALL DETECTOR – OPTIMUM, UNIVERSAL APPLICATIONS

- Compatible with all standard brand switch programs
- Manual shifting possible with integrated ON/OFF/AUTO switch
- IP 44 version with vandal-proof cover and stainless steel screws



PD-C / MD-C 180i and PD / MD 180i detectors

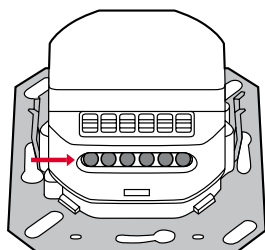
Mounting methods



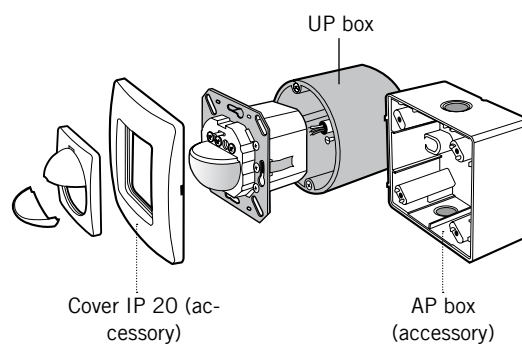
CH version

SIMPLE AND FAST CONNECTION

With plug-in terminals



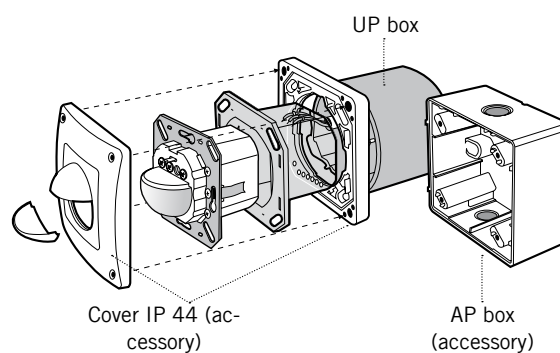
1.



FLUSH OR SURFACE MOUNTING IP 20

With cover IP 20

2.

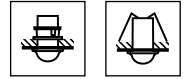


FLUSH OR SURFACE MOUNTING IP 44

With cover IP 44

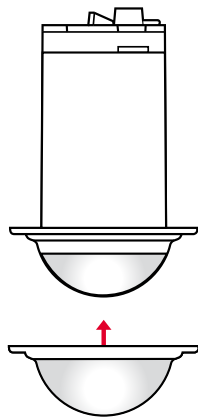
THE MINI DETECTOR – SMALL, INCONSPICUOUS AND FUNCTIONAL

- Small, compact size for installation hole dimensions of just 20 mm (...6 mini), or 25 mm (...8 + 12 mini) diameter
- IP 65 design (...6 mini) and IP 55 design (...8 + 12 mini) for installation especially in humid rooms
- Integrated factory settings, immediately ready for use
- Sensor and power unit integrated in the housing

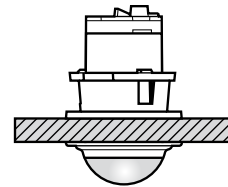


PD-C/MD-C mini detector

Mounting methods



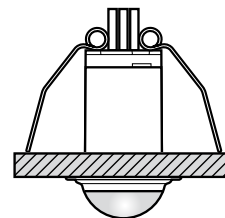
1.



CEILING FLUSH MOUNTING WITH CLAMPING RING

For suspended ceilings, built-in cupboards, surface-mounted and flush-mounted boxes

2.



CEILING FLUSH MOUNTING WITH SPRING CLIPS

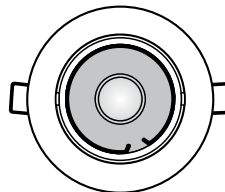
For installation in enclosed suspended ceilings

ASSEMBLY OPTIONS FOR EXISTING CEILING SPOTLIGHTS OR BRAND SWITCHES

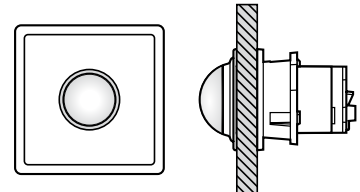
(a) Installation in ceiling spotlights with spotlight adapter (accessories)

(b) Brand switch compatible as wall flush mounting with enclosed clamping ring (... 6 mini)

(a)

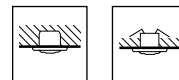


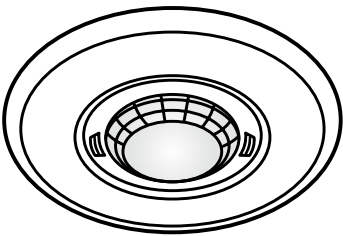
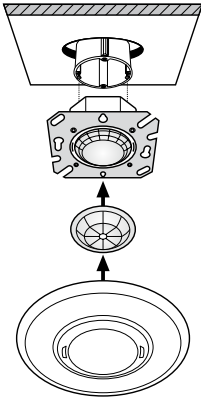
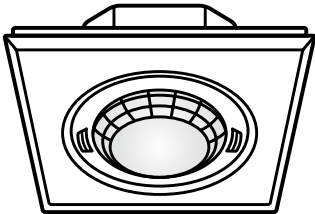
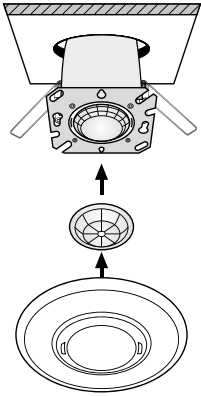
(b)



THE FLAT SERIES – VERY ELEGANT APPROACH TO ENERGY EFFICIENCY

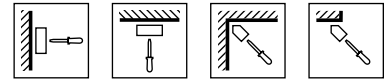
- Low profile design, various designs, colours and materials
- Zero-cross switching: Optimised for switching LED lights
- Excellent detection range



FLAT detectors	Mounting methods
	<p>1.</p> <p>RECESSED MOUNTING</p> <p>Quick and simple connection with plug-in terminals, large wiring space</p> 
	<p>2.</p> <p>RECESSED CEILING MOUNTING</p> <p>PD/MD-FLAT E variant with dust-protected box and installation bracket with cord grips or with ceiling mounting kit (accessory, EP10425929)</p> 

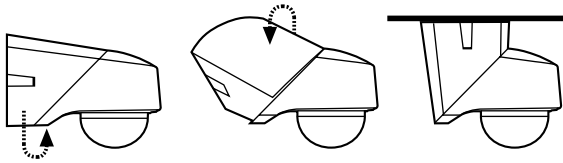
RC MOTION DETECTOR – OPTIMUM SAFETY

- 70% reduction in energy consumption, minimal energy consumption of only approx. 0.33 watts
- Optimal range setting of up to 20 m
- Visualisation of the programming mode with **blue mode** technology



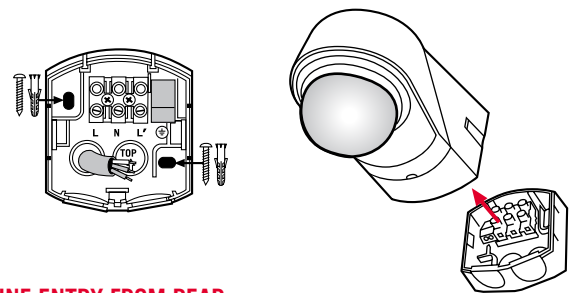
RC detectors

Installation



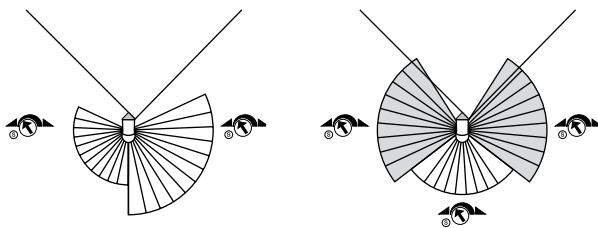
CEILING MOUNTING

If fitting to a ceiling, the two sensor parts are rotated so they are at a 180° angle to each other.



LINE ENTRY FROM REAR

One-handed plug-base for quick and easy installation

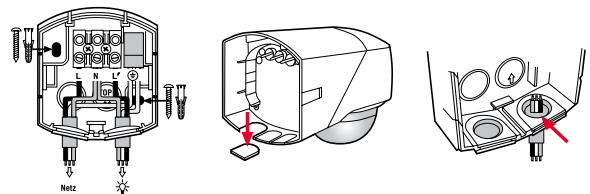


RC 230i: 2 x 115°

RC 280i: 3 x 95°

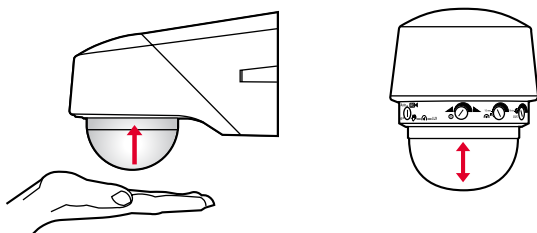
RANGE ADJUSTMENT

Range for each sensor field can be altered by mechanically adjusting the internal lens mask



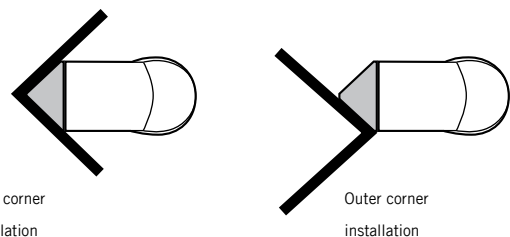
LINE ENTRY FROM BENEATH

One-handed plug-base for quick and easy installation



RETRACTABLE SETTING ELEMENTS

Prevents unintentional parameter or field of detection adjustments and protects from atmospheric influences



Inner corner
installation

Outer corner
installation

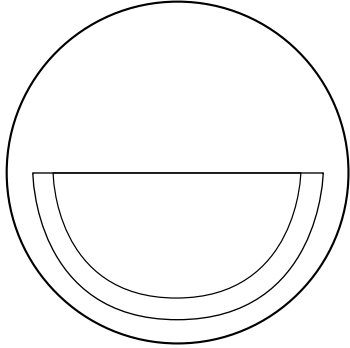
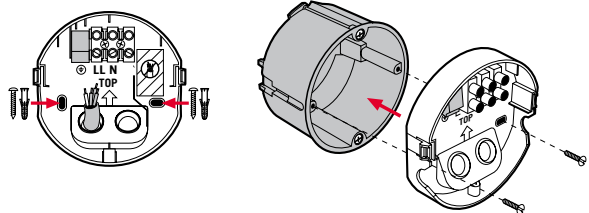
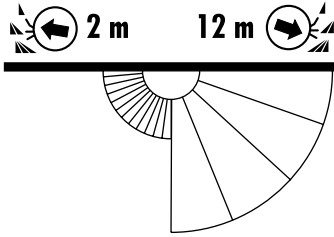
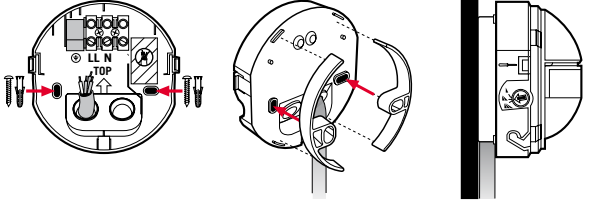
ASSEMBLY IN INTERNAL/EXTERNAL CORNERS

RC corner bracket available as accessory

MOTION DETECTOR MD-W – MODERN TECHNOLOGY, INNOVATIVE DESIGN

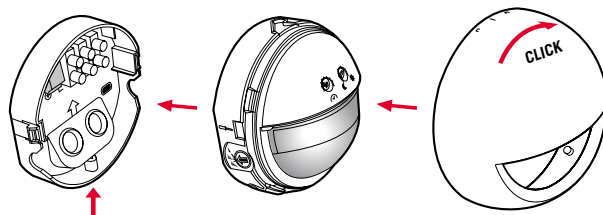


- Unique design fits any architecture, and the individual colour scheme allows a wide variety of options
- Modular construction for quick installation
- Integrated factory settings, immediately ready for use

MD-W detector	Installation
	 <p>SURFACE MOUNTING With flush-mounted line entry</p>
 <p>RANGE ADJUSTMENT Alter the range for the left-hand and right-hand sensor fields by mechanically adjusting the internal lens mask</p>	 <p>SURFACE MOUNTING With surface-mounted line entry</p>

SIMPLE AND FAST ASSEMBLY

With the double line entry, the large terminal compartment, the plug-in terminals and simple attachment of the cover cap, assembly is quick and easy



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