

**SENSORS FOR
AUTOMATION**
**UC SERIES FOR BUILDING
AUTOMATION SYSTEMS**

A man with dark, curly hair and a beard, wearing a dark grey button-down shirt, is pointing his right index finger directly at the camera. He has a slight smile and is looking directly at the viewer. The background is plain white.

**ALL YOU NEED –
THE ESYLUX UC SERIES**

SMART SENSOR TECHNOLOGY DESIGNED BY EXPERTS

BUILDING AUTOMATION SYSTEMS DESIGNED WITH SUSTAINABILITY IN MIND ARE ENERGY-SAVING, CONVENIENT AND SAFE.

AS THE MARKET LEADER FOR SMART PRESENCE AND MOTION DETECTORS, ESYLUX SETS NEW STANDARDS IN SENSOR TECHNOLOGY FOR BUILDING AUTOMATION SYSTEMS.

ESYLUX OFFERS ADDED VALUE: MORE CHOICE, BETTER TECHNICAL EQUIPMENT AND EXQUISITE DESIGNS. AT THE SAME TIME, WE ARE DEDICATED TO PERFORMANCE FOR SIMPLICITY – OUR KEY FOCUS ALSO WHEN DEVELOPING THE UC SENSOR RANGE. THE RESULT IS A RANGE OF UNIVERSAL PRESENCE DETECTORS THAT MEET ALL ARCHITECTURAL AND PLANNING REQUIREMENTS AND ARE SIMPLE TO INSTALL. AS WELL AS SIGNIFICANTLY HELPING TO REDUCE ENERGY CONSUMPTION, THESE FLEXIBLE SENSORS ALSO PROVE THAT TECHNICALLY ADVANCED SOLUTIONS DO NOT NEED TO BE COMPLICATED.

THIS IS PERFORMANCE FOR SIMPLICITY.

BUILDING AUTOMATION SYSTEMS

Cross-system, centralised building management systems (BMS) require compatible components to control light, heating and air conditioning.

ESYLUX developed its UC series presence detectors with this in mind. They can be integrated into any building automation system to boost energy efficiency without any compromises.



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THE ONE-STOP SOLUTION: ESYLUX UC SERIES

WITH ITS NEW UC SERIES, ESYLUX NOW OFFERS A RANGE OF DEDICATED LOW-VOLTAGE SOLUTIONS BASED ON EXPERT TECHNOLOGY THAT IS COMPATIBLE WITH ALL STANDARD BUILDING AUTOMATION SYSTEMS.

The design and installation types are equally universal: ESYLUX UC presence detectors are available in four different design ranges for all standard installation types.

With their totally silent switching function and 8, 12 or 24 metre detection range, UC detectors can be installed in any room to meet specific requirements.

The UC series is compatible with building automation systems from Siemens, Beckhoff, EATON, B&R, Mitsubishi and Rockwell, etc.

It will therefore be possible in future to combine ESYLUX presence detectors based on various technologies within a single building, regardless of the existing or planned PLC systems.

Practical for planners and aesthetically pleasing.



12V - 36V

SIMPLE TO INSTALL

- Clamp spring and clamping ring mounting
- Large wiring area
- Push terminals (1.5 mm in diameter)

FUNCTIONAL

- Silent switching with electronic switch (no relay)
- Light value measurement, and analogue light value output (0V - 10V) for dimmer function
- Detection LEDs can be switched on and off
- Temporary setting changes can be made by remote control

UNIVERSAL

- All standard installation types (recessed ceiling, surface ceiling and recessed mounting)
- 8 / 12 / 24 m range of detection
- Cross-technology designs (also for KNX and 230 V)
- Floating switching output
- Identical functions and setting options for all models

FLEXIBLE

- 12V - 36V AC/DC
- Optional switching contact reversal (make or break contact)
- Separate switch input

DISCREET

- Minimum visibility thanks to recessed ceiling mounting (mini detectors, PD-CE) even for a large field of detection



AC/DC



THE UC SERIES – A UNIVERSAL SOLUTION FOR MULTIPLE APPLICATIONS



Underground car parks



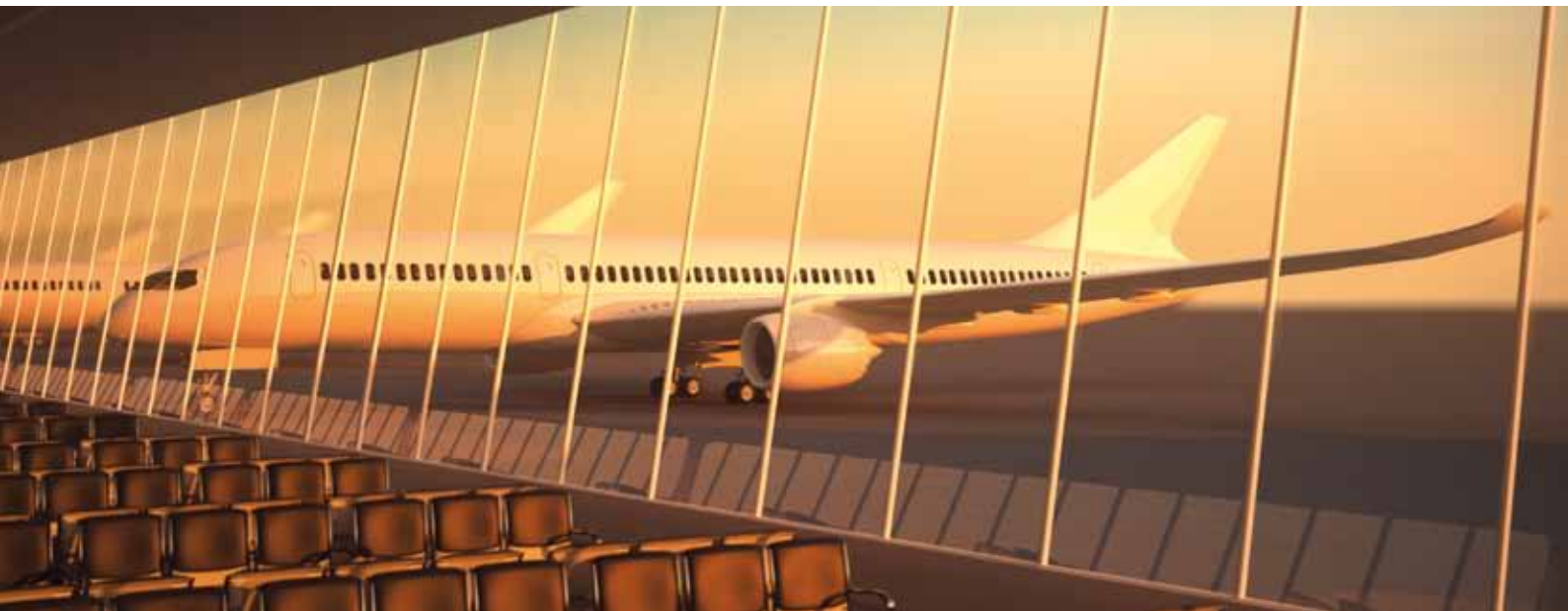
Canteens



Lecture rooms

Both classic products of the UC series stand out thanks to their flexibility and wide range of applications.

The PD-C360i/24 UC has an extensive detection range making it ideal for spacious rooms.



Conference rooms



Classrooms and training rooms

The flexible PD-CE360i/24 UC is perfect for rooms requiring the most efficient and inconspicuous solutions.



PD-C360i/8 UC



PD-C360i/24 UC

THE CLASSIC ONE,

featuring a time-tested design
for easy installation.

- Recessed ceiling/surface ceiling and recessed mounting
- Presence detector with a 360° field of detection
- 8 or 24 m range



PD-CE360i/24 UC

THE INCONSPICUOUS,

for a discreet solution, even for high ranges.

- Recessed ceiling mounting
- Barely visible - only the lens can be seen
- Presence detector with a 360° field of detection
- Complete device with integrated power section and dual insulation
- Quick installation with spring clips and standard 68-mm hole

THE SMALLEST,

for discreet and unobtrusive installation.

- Recessed ceiling mounting
- Mini presence detector with a 360° field of detection
- 8 or 12 m range
- Compact thanks to integrated sensor and power section
- Quick installation with spring clips or clamping ring



PD-C360i/8 mini UC



PD-C360i/12 mini UC



THE PRACTICAL ONE,

for an easy retrofitting, compatible with all standard switch ranges.

- Wall mounting
- Subsequent surface mounting possible
- Presence detector with a 180° field of detection
- Range of detection of up to 16 m in diameter
- Compatible with all popular brand switches



PD-C180i/16 UC



Small meeting rooms



Exhibition spaces

Impressively small. UC mini detectors feature a minimalist design, making them ideal for rooms where architectural style matters most.



Lounge areas



Toilet facilities



Staircases

Convenient and neutral: the wall detector is perfect for tricky conditions such as alcoves and areas with a complex layout and offers a discreet solution for corridors and staircases.

OVERVIEW OF PRODUCTS IN THE UC SERIES



PRODUCT NAME	PD-C360i/8 UC	PD-C360i/24 UC	PD-C360i/8 mini UC	PD-C360i/12 mini UC	PD-CE360i/24 UC	PD-C180i/16 UC
Item no.	EP10427312	EP10427329	EP10427343	EP10427350	EP10427336	EP10427305
Power supply	12 - 36 V AC/DC	12 - 36 V AC/DC	12 - 36 V AC/DC	12 - 36 V AC/DC	12 - 36 V AC/DC	12 - 36 V AC/DC
Power consumption	< 0,3 W	< 0,3 W	< 0,3 W	< 0,3 W	< 0,3 W	< 0,3 W
Field of detection	360°	360°	360°	360°	360°	180°
Range	8 m	24 m	8 m	12 m	24 m	16 m
Switch input	yes	yes	yes	yes	yes	yes
Output	1x floating, max. 2 A	1x floating, max. 2 A	1x floating, max. 2 A	1x floating, max. 2 A	1x floating, max. 2 A	1x floating, max. 2 A
Switch-off delay time	impulse - 60 min.	impulse - 60 min.	impulse - 60 min.	impulse - 60 min.	impulse - 60 min.	impulse - 60 min.
Permitted ambient temperature	0 °C ...+50 °C	0 °C ...+50 °C	0 °C ...+50 °C	0 °C ...+50 °C	0 °C ...+50 °C	0 °C ...+50 °C
Protection type	IP 20 / IP 54*	IP 20 / IP 54*	IP 55	IP 55	IP 40	IP 20 / IP 44*
Protection class	III	III	III	III	III	III
Installation type	Recessed ceiling/ surface ceiling and surface mounting	Recessed ceiling/ surface ceiling and surface mounting	Recessed ceiling mounting	Recessed ceiling mounting	Recessed ceiling mounting	Wall
Approx. measurements (mm)	H 38 / Ø 108	H 46 / Ø 108	H 60 / Ø 33	H 70 / Ø 58	H 99 / Ø 82	H 70 x W 70 x D 63
Installation hole size (mm)	61	61	25	25	68	61
Installation depth (mm)	24	24	45	45	67	34

Technical and design features may be subject to change without notice | *with the corresponding accessories

PD-C180i/16 UC

COMPATIBLE WITH STANDARD BRAND SWITCHES



PD-C180i/16 UC
Sensor insert



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



Subframe
as an adapter for the
standard 50 x 50 mm
frame in accordance
with DIN 49075 (switch
manufacturer accessory)



Cover
for PD-C180i/16 UC
in various colours
and shapes
(accessory)



PD-C180i/16 UC
Example of a combination of ESYLUX and
switch manufacturer
components



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

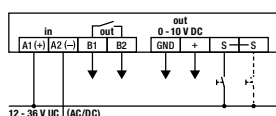
PRODUCT NAME	Cover IP 20	Cover IP 20	Cover IP 20	Cover IP 20	Cover IP 20	Cover IP 20-SKK	Cover IP 20-BS1	Cover IP 20-BS1
Item no.	EM10055102	EM10055119	EM10055126	EM10055133	EM10055140	EM10055270	EM10427114	EM10427104
Colour	white	signal white	cream white	charcoal grey	stainless steel appearance	white	white	polar

PRODUCT NAME	Cover IP 20-BM2	Cover IP 20-BM2	Cover IP 20-BJSI	Cover IP 20-BJSI	Cover IP 20-G55	Cover IP 20-G55	Cover IP 44	Cover IP 20/IP 44
Item no.	EM10427138	EM10427121	EM10427145	EM10427152	EM10427169	EM10427176	EM10055157	EM10055164
Colour	white	polar	white	polar	white	polar	white	white

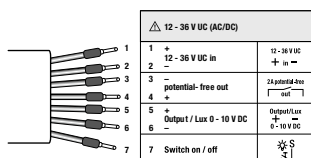
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CIRCUIT DIAGRAMS

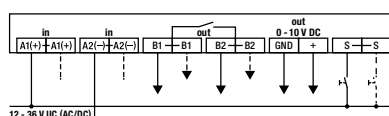
PD-C360i/8 UC / PD-C360i/24 UC



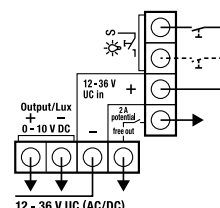
PD-C360i/8 mini UC / PD-C360i/12 mini UC



PD-CE360i/24 UC



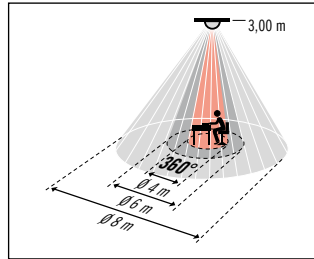
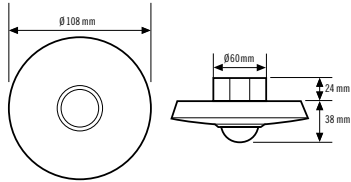
PD-C180i/16 UC



PRODUCT SCALE DRAWINGS

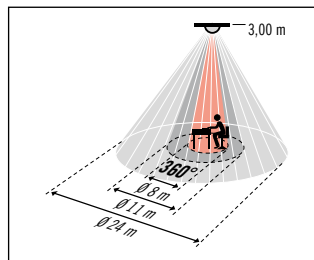
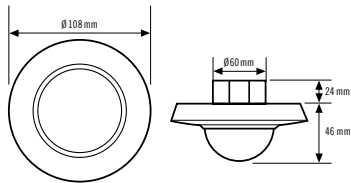
FIELDS OF DETECTION

PD-C360i/8 UC



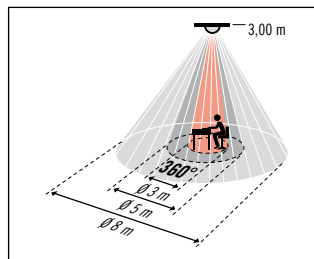
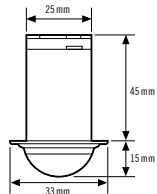
- Working area approx. $\varnothing 4 \text{ m}$
- Head-on to detector approx. $\varnothing 6 \text{ m}$
- Passage area / diagonally to detector approx. $\varnothing 8 \text{ m}$

PD-C360i/24 UC



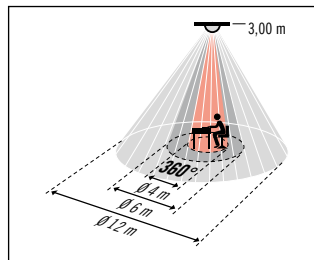
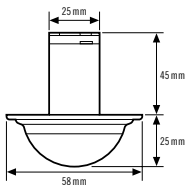
- Working area approx. $\varnothing 8 \text{ m}$
- Head-on to detector approx. $\varnothing 11 \text{ m}$
- Passage area / diagonally to detector approx. $\varnothing 24 \text{ m}$

PD-C360i/8 mini UC



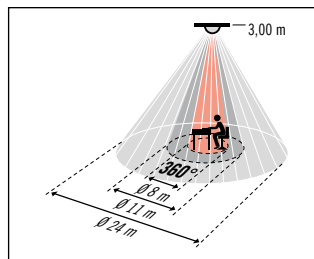
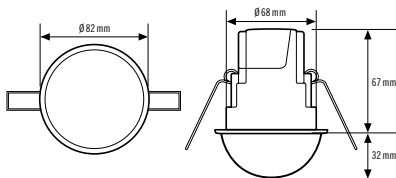
- Working area approx. $\varnothing 3 \text{ m}$
- Head-on to detector approx. $\varnothing 5 \text{ m}$
- Passage area / diagonally to detector approx. $\varnothing 8 \text{ m}$

PD-C360i/12 mini UC



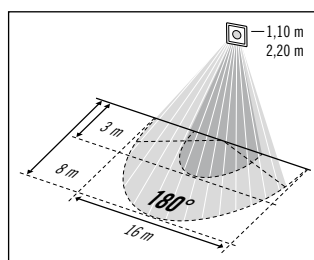
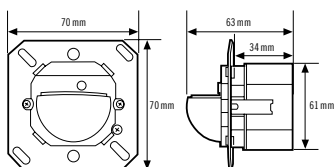
- Working area approx. $\varnothing 4 \text{ m}$
- Head-on to detector approx. $\varnothing 6 \text{ m}$
- Passage area / diagonally to detector approx. $\varnothing 12 \text{ m}$

PD-CE360i/24 UC



- Working area approx. $\varnothing 8 \text{ m}$
- Head-on to detector approx. $\varnothing 11 \text{ m}$
- Passage area / diagonally to detector approx. $\varnothing 24 \text{ m}$

PD-C180i/16 UC



- Head-on to detector approx. $\varnothing 3 \text{ m}$
- Passage area / diagonally to detector approx. $\varnothing 16 \text{ m}$

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