



theben

PIRA T motion detector
Switches on, switches off
Simple and effective

Building Automation since 1921



The new PIRA T motion detector series For automatic lighting control Flexible, reliable and attractively priced

PIRA T - The versatile device family for automatic lighting control

The PIRA T series offers tailor-made solutions for a wide range of applications - from busy corridors and small storage rooms to outdoor areas. Thanks to permanent light measurement and simple installation, the PIRA T series guarantees maximum efficiency and comfort - at an attractive price.

Advantages of the PIRA T series:

- **Versatility:** Suitable motion detectors for every application, whether recessed ceiling, surface-mounted or outdoor.
- **Efficiency:** Permanent light measurement for optimum lighting.
- **Convenience:** Quick and easy installation.
- **Attractive price:** High-quality technology at a fair price.

Discover the PIRA T series and experience the perfect combination of efficiency, convenience and value for money.



Flexible models for every application

Recessed ceiling installation (DE):

Designation	Application	Item no.
PIRA T8 DE	1-channel motion detector	1030200
PIRA T8-2 DE	2-channel motion detector - ideal for optimizing room ventilation	1030201
PIRA TC EN	Specially developed for corridors	1030204
PIRA T6 Mini	Discreet mini sensor for unobtrusive installations	1030202

Surface-mounted (AP):

Designation	Application	Item no.
PIRA T8 AP	1-channel motion detector	1030203
PIRA TC AP	Specially developed for corridors	1030205
PIRA TO AP	Outdoor detector for wall mounting	1030206

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sensNORM certified	10
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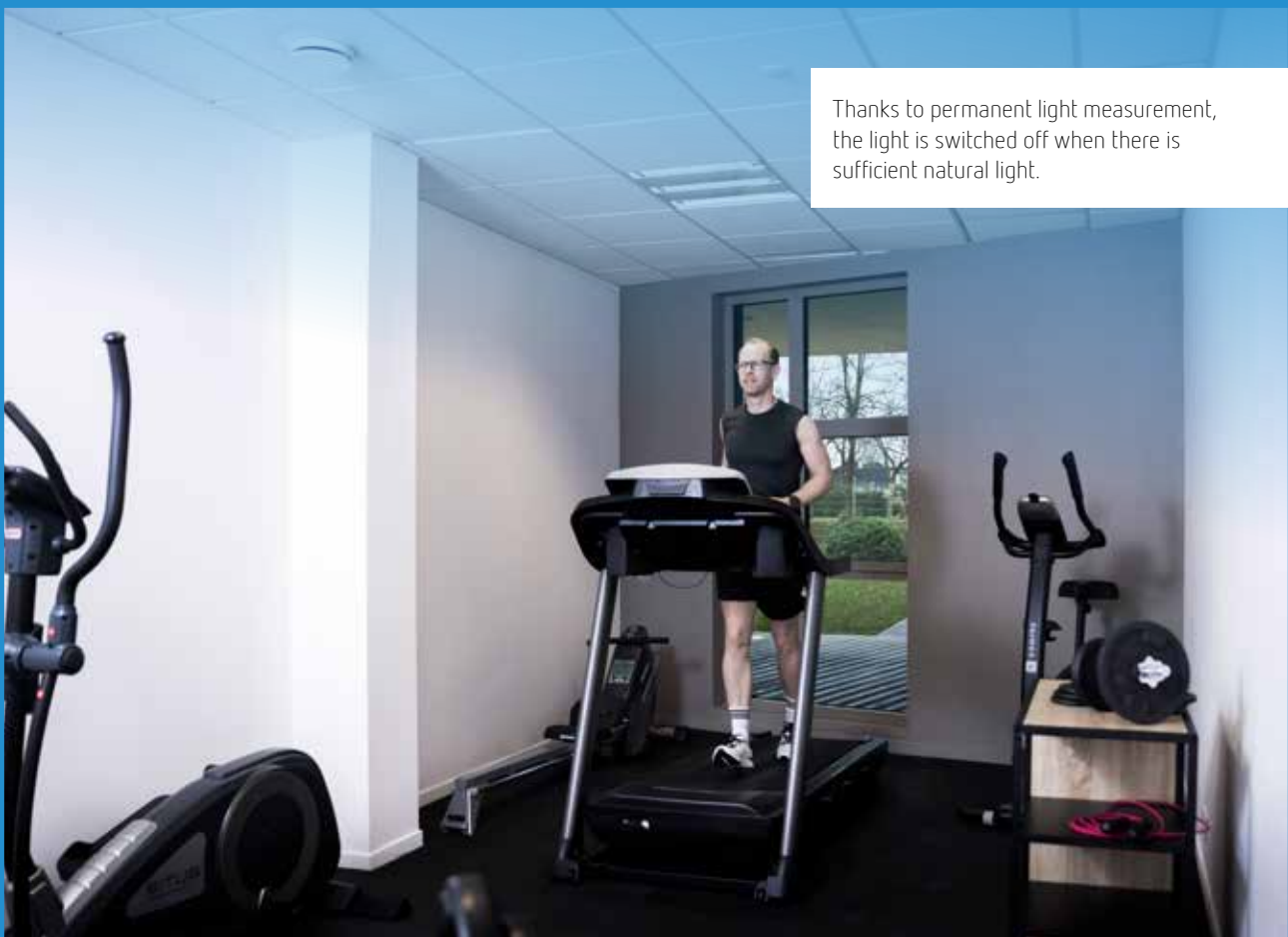
Further information also
at www.theben.de/pira-t-en

PIRA T motion detector

Always the right choice

Advantages at a glance

- **Quick installation:** Thanks to the plug-in terminals optimally installed at a 45° angle, wiring is a breeze - even with 2 x 2.5 mm² Conductors.
- **Simple operation:** Settings can be made effortlessly via potentiometers.
- **Optimized for LEDs:** LED switching load and zero-crossing circuit ensure a long service life (tested with 40,000 switching cycles according to Theben standards).
- **Permanent light measurement:** The light is switched off when there is enough daylight - even when there is movement in the detection area.
- **sensNORM and Theben standard tested:** Precise motion detection, even at higher room temperatures.
- **Uniform design:** For a harmonious overall appearance in any environment.



Thanks to permanent light measurement, the light is switched off when there is sufficient natural light.



Wiring by hand thanks to plug-in terminals installed at a 45° angle.



Simple operation thanks to potentiometer



The PIRA T packaging in a new design.

PIRA T

Simple operation, effective use

Functions and advantages

For all PIRA T



Optimized for LEDs

The zero-crossing circuit ensures a long service life, especially with LED switching loads (tested with 40,000 switching cycles according to Theben standards).



Practical plug-in terminals

Quick and easy connection thanks to plug-in terminals optimally installed at a 45° angle in the indoor detectors (not for PIRA TO).



Simple adjust- ment

Settings can be made effortlessly thanks to the potentiometers.



Permanent light measurement

The PIRA T series can switch off the light when there is sufficient natural light. Even if someone is always moving in the detection area.



sensNORM tested

Precise motion detection under sensNORM conditions and at higher room temperatures.



Uniform design

For a harmonious overall appearance in any environment.

For PIRA TC



Perfect in the corridor: corridor detector

PIRA T is also available in special versions with a rectangular detection area for use in corridors, hallways and passageways. This reduces the number of devices required and you benefit from a consistent design for all detectors in the building.

For PIRA TO



Clever and safe: protection class IP 55

Thanks to protection class IP 55, the PIRA TO outdoor detector is also a reliable product in damp rooms and outdoors.



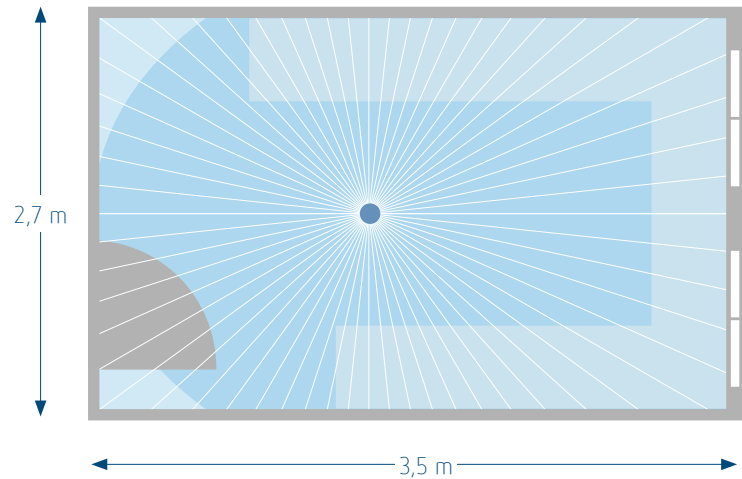
PIRA T

Motion detector series

Application examples

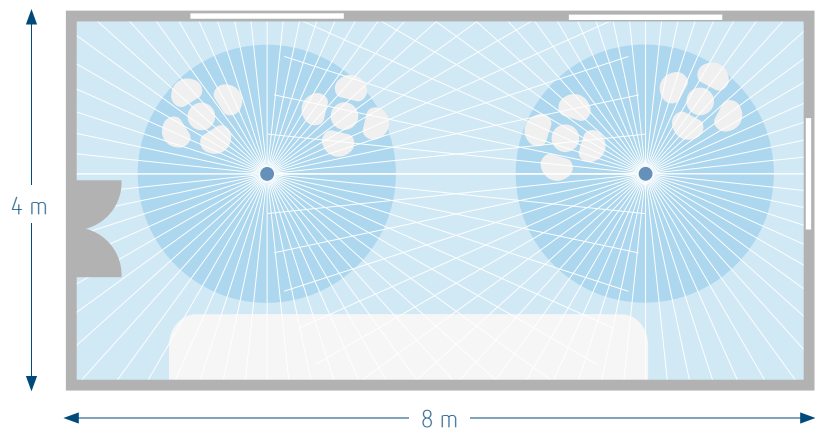
Storerooms

In a small storage room, the light is automatically switched on with the PIRA T8 when it is dark and someone enters the room. If there is sufficient natural light, the light remains off.



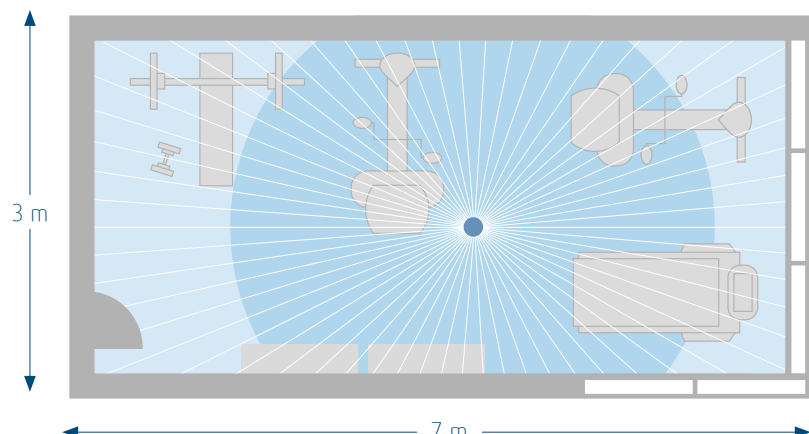
Break room / coffee kitchen

In rooms where there is constant movement, PIRA T6 Mini switches the lighting off if there is sufficient daylight thanks to permanent light measurement.



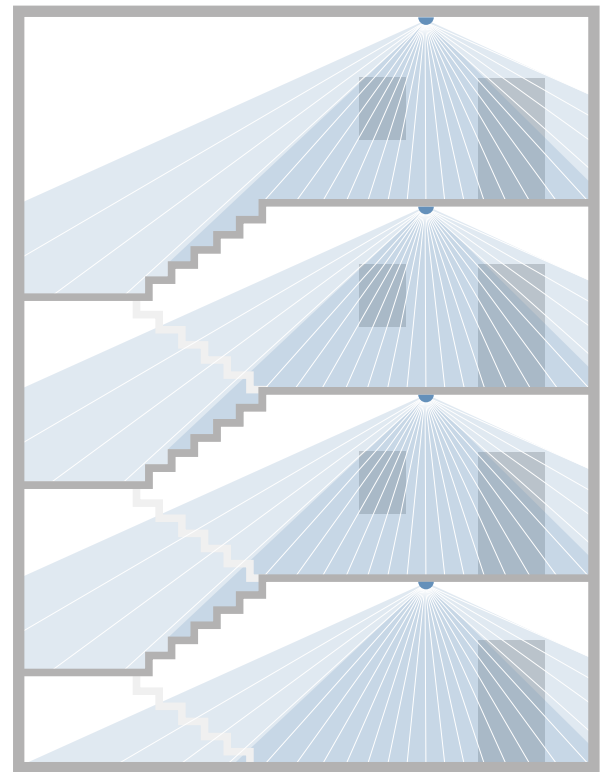
Fitness rooms

Thanks to permanent light measurement, PIRA T8 can switch off the light when there is sufficient natural light. Even if someone is always moving in the detection area.



Staircase

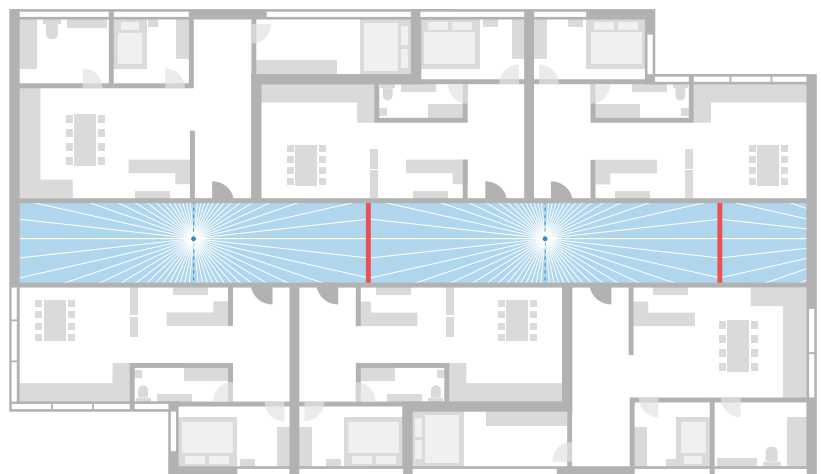
The PIRA T8 AP or the PIRA TC are suitable for automatic staircase lighting. It ensures maximum efficiency and convenience.



7 m

Hallway

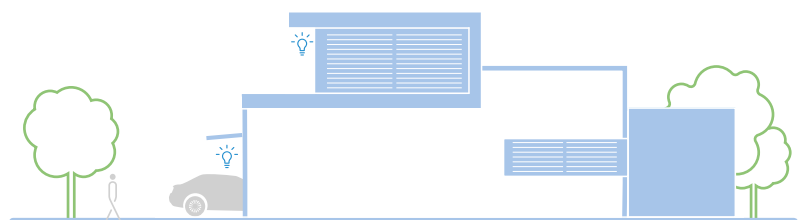
The detection range of the PIRA TC is 25 m long and is therefore ideal for covering the distance from fire protection barriers. This means that the distance can be covered with one PIRA TC.



25 m

Outdoor use

Thanks to protection class IP 55, the PIRA TO AP motion detector can also be used in outdoor areas exposed to the weather without any problems. It reliably switches the light on and off at house entrances or on terraces and balconies.





PIRA T8 DE (item no. 1030200)



PIRA T8 AP (item no. 1030203)



PIRA T6 Mini DE (item no. 1030202)



PIRA T0 AP (item no. 1030206)

Testing with the latest laboratory technology for exact results and top performance

sens))) NORM
certified

Extended testing options in our own sensLAB

The state-of-the-art sensLAB at Theben AG makes it possible to carry out numerous tests outside the sensNORM framework conditions. For example, tests can be carried out at higher ambient temperatures. This ensures excellent detection performance even under demanding conditions.

Highest precision and comparability through triple measurement repetition

To ensure that all data is precise and reliable, each measurement is repeated three times. The standardized measurements are carried out in accordance with the sensNORM specifications, which enables planners to better compare different products. Thanks to automation, complete measurement series can be created and evaluated overnight.



Dummies in three different sizes simulate the different installation heights

PIRA TO

Clever functions ensure Convenience and safety



Comprehensive coverage for wall mounting

With wall mounting, the area directly under the detector is also covered. This prevents uninvited guests from approaching unnoticed without being in the "spotlight".



Exit-On: Immediate detection with door mounting

When installed directly above a door, the PIRA TO immediately detects every person who enters through the door thanks to its "downward view".



The detection areas of the PIRA T device family

Motion detector and corridor detector

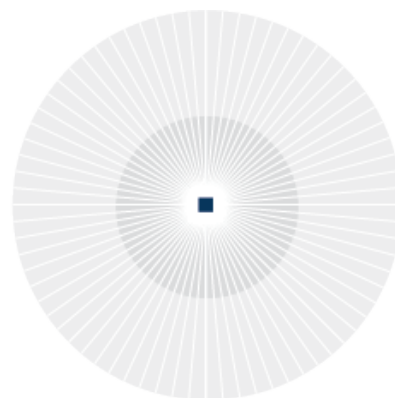
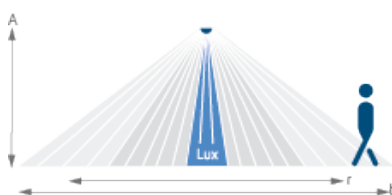
Motion detector
(round detection area)



PIRA T8 DE (article no. 1030200)
PIRA T8-2 DE (Article no. 1030201)
PIRA T8 AP (article no. 1030203)

- Switch-on brightness 5-1000 lx
- Run-on time 5 s-15 min
- Protection class IP 21
- Mounting height 2-3 m

Mounting height	Transverse (t)	Front-facing (r)
2,0 m	Ø 7 m	Ø 4 m
2,5 m	Ø 8 m	Ø 4 m
3,0 m	Ø 9 m	Ø 4 m

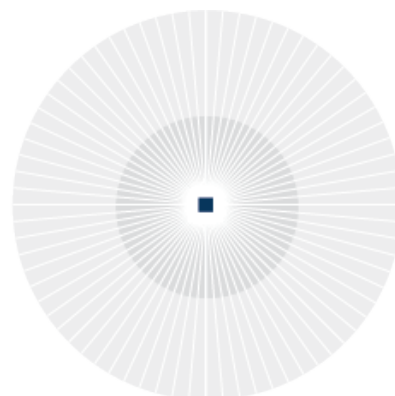
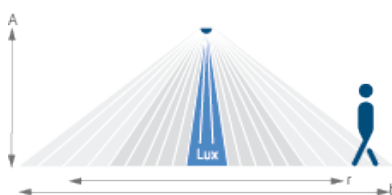


Motion detector
(round detection area)

PIRA T6 Mini DE (article no. 1030202)

- Switch-on brightness 5-1000 lx
- Run-on time 5 s-15 min
- Protection class IP 21
- Mounting height 2-3 m

Mounting height	Transverse (t)	Front-facing (r)
2,0 m	Ø 6 m	Ø 3 m
2,5 m	Ø 6 m	Ø 3 m
3,0 m	Ø 7 m	Ø 4 m



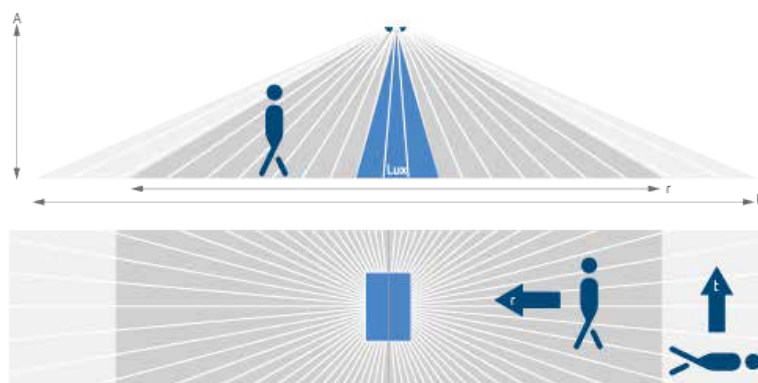
Corridor detector (rectangular detection area)



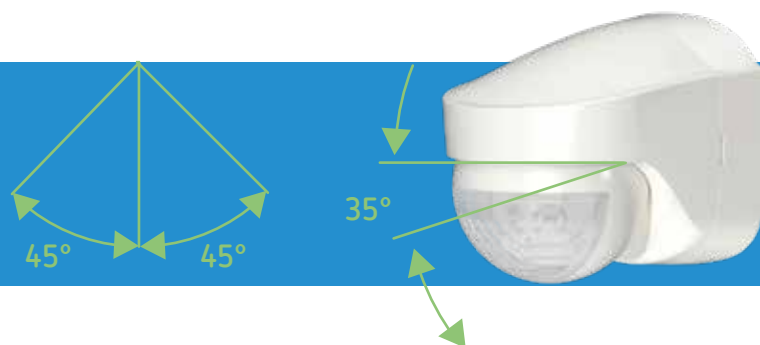
PIRA TC DE (article no. 1030204)
PIRA TC AP (article no. 1030205)

- Switch-on brightness 5-1000 lx
- Run-on time 5 s-15 min
- Protection class IP 21
- Mounting height 2-3.5 m

Mounting height	Transverse (t)	Front-facing (r)
2,0 m	20 x 3 m	9 x 3 m
2,5 m	25 x 3 m	12 x 3 m
3,0 m	26 x 3 m	12 x 3 m



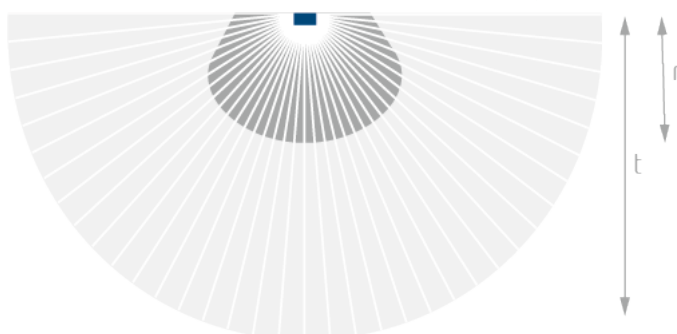
Outdoor detector (semi-circular detection area)



PIRA TO AP (article no. 1030206)

- Switch-on brightness 5-1000 lx
- Run-on time 5 s-15 min
- Protection class IP 55
- Mounting height 1.8-2.5 m
- Creep protection
- Exit-on function

Mounting height	Transverse (t)	Front-facing (r)
1,8 m	9 m	2 m
2,0 m	10 m	3 m
2,5 m	12 m	4 m



Technical information

At a glance

230 V



Features

PIRA T8 DE

PIRA T8-2 DE

PIRA T8 AP

Item no.	1030200	1030201	1030203
Radial detection range	round Ø 4 m	round Ø 4 m	round Ø 4 m
Tangential detection area	round Ø 8 m	round Ø 8 m	round Ø 8 m
Angle of coverage	360°	360°	360°
Mounting type	Ceiling installation	Ceiling installation	Surface-mounted
Mounting height	2–3 m	2–3 m	2–3 m
Channels	1 Light	1 light, 1 HVAC	1 Light
Operating voltage	230 V AC, 50 Hz	230 V AC, 50 Hz	230 V AC, 50 Hz
Adjustment range brightness	5-1000 lx	5-1000 lx	5-1000 lx
Follow up time light	5 s-15 min	5 s-15 min	5 s-15 min
LED lamps	200 W	200 W	200 W
Incandescent/halogen lamp load	1000 W	1000 W	1000 W
Follow-up time HKL		10 s-120 min	
Clamps	Plug-in terminals	Plug-in terminals	Plug-in terminals
Protection class	IP 21	IP 21	IP 21
Permissible ambient temperature	-5 °C to +40 °C	-5 °C to +40 °C	-5 °C to +40 °C
Detection range extension	Parallel connection	Parallel connection	Parallel connection
Outdoor application	no	no	no





PIRA TC DE



PIRA TC AP



PIRA T6 Mini



PIRA TO AP

1030204	1030205	1030202	1030206
rectangular 12 x 3 m	rectangular 12 x 3 m	round Ø 3 m	semicircular 3 m
rectangular 25 x 3 m	rectangular 25 x 3 m	round Ø 6 m	semicircular 10 m
360°	360°	360°	180°
Ceiling installation	Surface-mounted	Ceiling installation	Surface-mounted, wall-mounted
2–3,5 m	2–3,5 m	2–3 m	1,8 -2,5 m
1 Light	1 Light	1 Light	1 Light
230 V AC, 50 Hz	230 V AC, 50 Hz	230 V AC, 50 Hz	230 V AC, 50 Hz
5-1000 lx	5-1000 lx	5-1000 lx	5-1000 lx
5 s-15 min	5 s-15 min	5 s-15 min	5 s-15 min
200 W	200 W	200 W	200 W
1000 W	1000 W	1000 W	1000 W
-	-	-	-
Plug-in terminals	Plug-in terminals	Plug-in terminals	Screw terminals
IP 21	IP 21	IP 21	IP 55
-5 °C to +40 °C	-5 °C to +40 °C	-5 °C to +40 °C	-20 °C to +40 °C
Parallel connection	Parallel connection	Parallel connection	Parallel connection
no	no	no	yes

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Subject to technical changes
and improvements.

