

theMova P360-100 UP WH

Article number: 1030600

Description

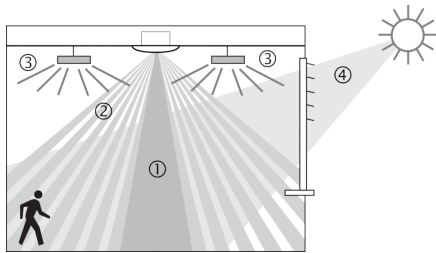


- Passive infra-red motion detector for ceiling installation
- Circular detection area 360°, up to Ø 24 m (452 m²)
- Restriction of detection area with cover clips
- Automatic motion and brightness-dependent control for lighting
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Channel A light: relay, 230 V
- Operation as fully automatic device
- Brightness switching value configurable, teach-in function
- Pulse function for staircase light time switch
- Time delay configurable
- Detection sensitivity configurable
- Ready for immediate use due to factory presetting
- Test mode for checking function and detection area
- Ceiling installation in flush-mounted socket
- Ceiling installation possible with back box, IP 54 (option)
- User remote control theSenda S (option)
- Management remote control SendoPro (option)
- Installation remote control theSenda P (option)

Technical data

Operating voltage	110 – 230 V AC
Frequency	50 – 60 Hz
Installation height	2 – 10 m
Installation type	Ceiling installation
Colour	White
Switching output	Light
Power consumption	~0,15 W
Light measurement	Mixed light measurement
Setting range brightness	30 – 3000 lx
Light switch-off delay	10 s - 60 min
Type of contact light	Relay 230 V/10 A µ-contact
Lamps	Incandescent/halogen lamps, fluorescent lamps, Energy saving lamps, LEDs
Incandescent/halogen lamp load	2300 W
Compact and fluorescent lamps	1150 VA (cos φ = 0,5)
Inrush current	max. 800 A / 200 µs
LED lamp < 2 W	60 W
LED lamp 2-8 W	180 W
LED lamp > 8 W	200 W
Type of connection	Screw terminals
Max. cable cross section	max. 2 x 2,5 mm ²
Detection range	452 m ² (Ø 24 m 360°)
Ambient temperature	-15 °C ... +50 °C
Type of protection	IP 54 (when fitted)

Description



- 1 Mixed light measurement
- 2 Motion detection
- 3 Artificial light
- 4 Incident daylight

Channel A light

Switching response is controlled by presence and ambient brightness. The switch contact for channel A light closes during darkness and when someone is present. It opens with a delay once the room is vacated after the set time delay.

Time delay

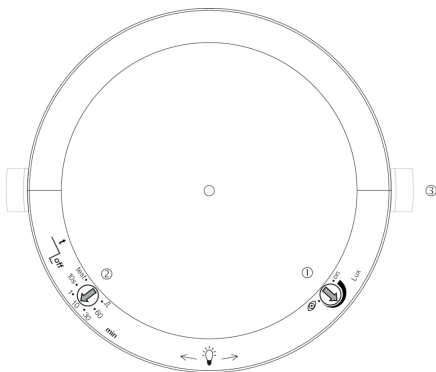
The time delay enables delayed switching off of lighting after the room is vacated. The time delay is adjustable in a range of 10 s to 60 min.

Fully automatic

Lighting control of the motion detector operates fully automatically for increased comfort. In „fully automatic“ the lights switch on and off automatically.

Pulse function

Time delay can be set to pulse for controlling existing staircase light timer switch. To do so, the light output produces every 10 seconds a pulse of 0.5 seconds duration if people are present or it is dark.



- 1 Desired brightness level (Lux)
- 2 Lighting switch-off delay time
- 3 Mechanical safety lock

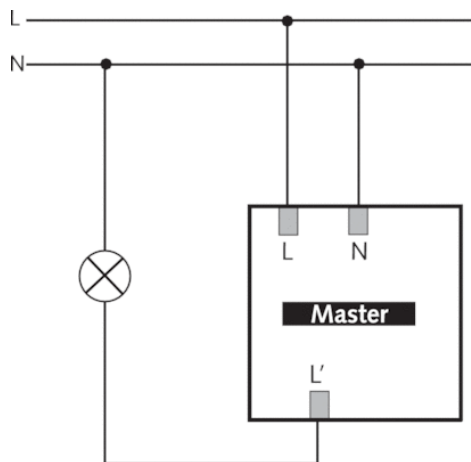
Connection example

Switching

The motion detectors are operated as a master in individual switching. With parallel switching of the light outputs (L'), it must be ensured that all detectors connected in parallel are connected to the same phase.

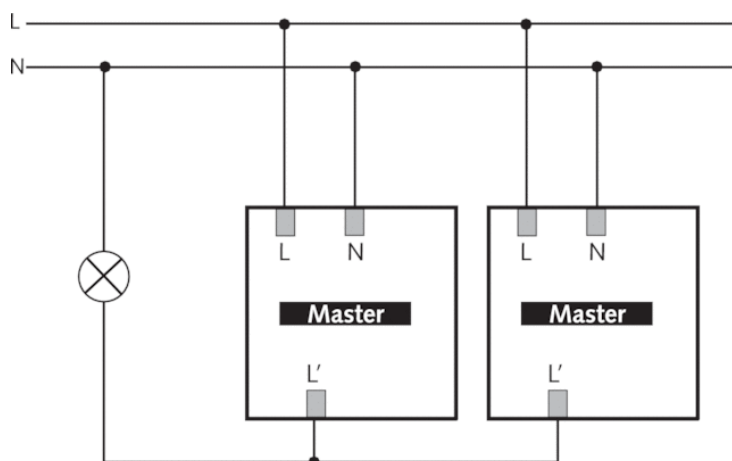
Individual switching

In individual switching, the motion detector as master detects presence and brightness and controls lighting.



Parallel switching of several motion detectors

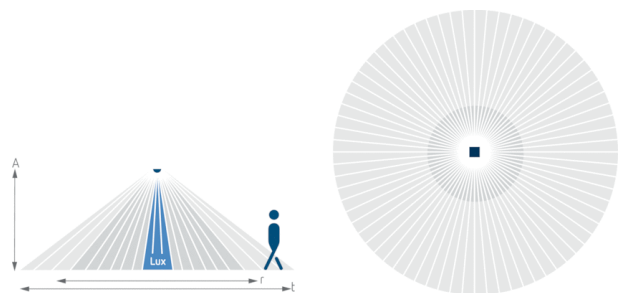
- Connect switch contacts of several detectors directly.
- Set brightness switching value and time delay on all detectors.
- The permitted overall load is not increased.



Detection range

The circular detection area of the theMova P motion detector covers a large detection area, and permits a complete room coverage with many applications. Note that moving persons can be detected in differently-sized areas. The recommended installation height is 2.0 m – 6.0 m. As installation height increases, the sensitivity of the presence detector decreases. The extent and distance between the active and passive zones of the motion detector also increases. The detection range is reduced as the temperature increases.

Mounting height (A)	Head on to (r)	Diagonally (t)
2 m	28 m² 6 m	380 m² 22 m
2,5 m	38 m² 7 m	415 m² 23 m
3 m	50 m² 8 m	452 m² 24 m
3,5 m	50 m² 8 m	452 m² 24 m
6 m	50 m² 8 m	452 m² 24 m
10 m	50 m² 8 m	491 m² 25 m

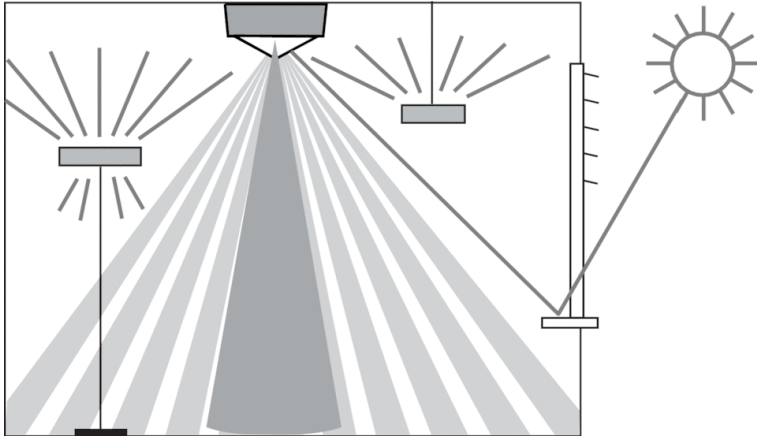


Brightness Measurement

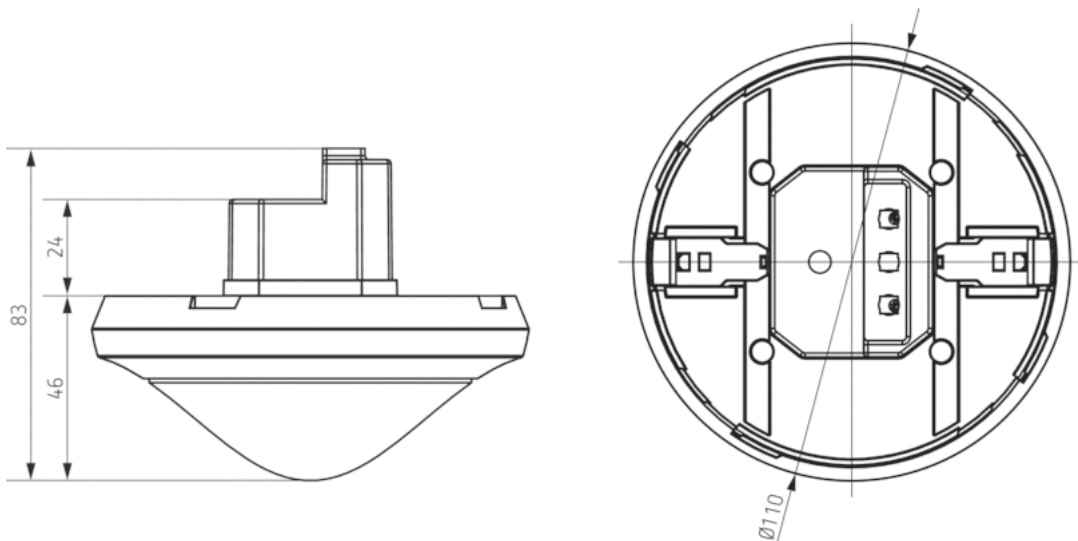
The motion detector measures artificial light and daylight that is reflected directly below the detector. The light measurement area maps a rectangle of about 2 x 3.5 m at table height. The installation location is a reference point for the lighting level. Direct light influences the light measurement. Avoid placing floor lamps or suspended lighting directly below the detector. If the brightness measurement is deactivated, the light channel only switches depending on the presence (brightness switching value set to „lux on“ via potentiometer or set to „measurement off“ via the remote control).

Suitable lamps

The motion detector is designed for the operation of fluorescent lamps, compact fluorescent lamps, halogen/incandescent lamps and LEDs. The maximum number of switchable lights is restricted due to the high inrush current levels of the EBs and LED drivers. The use of an external contactor helps with large loads. All switched loads must be properly suppressed.



Scale drawings



Accessories

Surface frame 110A WH

- Article number: 9070912
Details ► www.theben.de



Ceiling installation box 73A

- Article number: 9070917
Details ► www.theben.de



SendoPro 868-A

- Article number: 9070675
Details ► www.theben.de



Article number: 1030600

theSenda P

- Article number: 9070910
Details ▶ www.theben.de



theSenda S

- Article number: 9070911
Details ▶ www.theben.de



Masking clip

- Article number: 9070921
Details ▶ www.theben.de



QuickSafe

- Article number: 9070531
Details ▶ www.theben.de

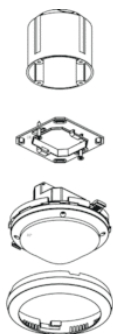


Product selection

Installation type	Channel	Operating voltage	Colour	Type	Article number
Ceiling installation	Light	110 – 230 V AC			

Installation type

UP



Flush-mounted installation

The flush-mount installation of the detector is done using a standard UP (flush-mount) installation socket Size 1.

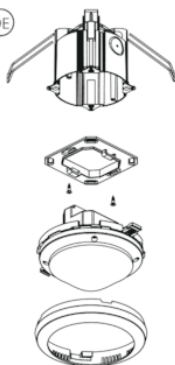
Ceiling installation

A ceiling installation unit is available for a simplified ceiling installation of the detector (see accessories). This ensures strain relief and contact protection at the same time. The installation diameter is 72 mm (drill diameter 73 mm).

Surface-mount installation

A suitable surface-mount frame is available for surface installation (see accessories).

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