Article number: 2080000

theRonda P360-100 UP WH

Description





- Round detection area 360°, up to Ø 24 m (452 m²)
- Automatic presence- 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, 230V
- Choice of fully or semi-automatic operation
- Adjustable brightness switching value, teach-in function
- Reduction of switch-off delay time in the event of short presence (briefpresence)
- Connection option for sensors or switches for manual switching with automatic recognition of sensor/switch
- Pulse function for staircase light time switch
- Sensitivity adjustable
- Detection area can be limited using cover clip
- Ready for immediate use due to factory preset
- Test mode for checking function and detection area
- Ceiling installation in flush-mounted socket
- Ceiling installation also possible with surface-mounted frame
- User remote control theSenda S, management remote control SendoPro (optional)

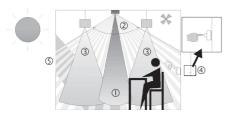
Technical data

110 – 230 V AC
50 – 60 Hz
2 – 10 m
> 1,7 m
Ceiling installation
~0,15 W
Mixed light measurement
30 – 3000 lx
10 s - 60 min
Incandescent/halogen lamps, fluorescent lamps, Energy saving lamps, LEDs
2300 W
1150 VA (cos φ = 0,5)
60 W
180 W
200 W
Screw terminals
max. 2 x 2,5 mm²
Ø 55 mm (NIS, PMI)
-15 °C +50 °C
IP 54 (when fitted)

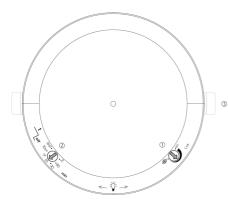
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Description



- 1 Mixed light measurement
- 2 Presence detection
- 3 Artificial light
- 4 Push button for manual lighting control
- 5 Incident daylight



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

Cannel A light

Switching response is controlled by presence and brightness. The switch contact of Channel A light closes during darkness and when someone is present. It opens with a delay when there is brightness or when no one is present.

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. If someone goes into an unoccupied room only briefly and leaves it within 30 seconds, then the light shuts off prematurely after 2 minutes (short-term presence).

Push button control

The lighting can be manually switched at any time via a push button or switch. If the light is switched on manually, it will remain on for at least 30 minutes providing people are present. It then switches off when the brightness is adequate. The light is forced off after a preset time delay if the room was (previously) vacated. If artificial lighting is switched off manually. the lighting remains switched off as long as the room is occupied. The lighting switches again automatically after the time delay has expired.

Fully or semi-automatic

Lighting control via the presence detector operates fully automatically for increased comfort or semi-automatically for greater energy savings. In "fully automatic" the lights switch on and off automatically. Light switching has to be completed manually in "semi-automatic mode". The lighting is always switched 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.

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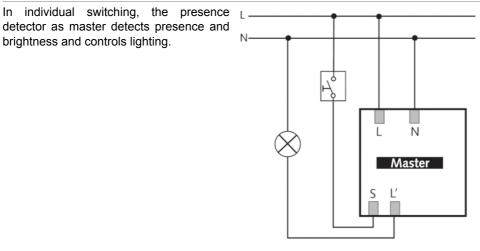
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Connection example

Switching

The presence detectors can be operated as a master in individual switching. Several push buttons can connected to one control input. Illuminated push buttons can only be used with neutral conductor connection.

Single unit operation



Detection range

The circular detection area of theRonda presence detector covers a large detection area and permits a good room coverage with many applications. Note that seated and 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. Walking motions are necessary from installation heights of 3.5 m, and the detection areas of several detectors should overlap in the marginal zones. The detection range is reduced as the temperature increases.

Seated persons

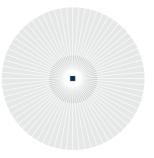
The details relate to smallest movements at table height (approx. 0.8 m).

Moving persons

At installation heights between 5 and 10 m, the extent and distance between the active and passive zones increase.

Mounting height (A)		
2 m	16 m² 4,5 m	380 m² 22 m
2,5 m	24 m² 5,5 m	415 m² 23 m
3 m	28 m² 6 m	452 m² 24 m
3,5 m	38 m² 7 m	452 m² 24 m
6 m	-	452 m² 24 m
10 m	-	491 m² 25 m





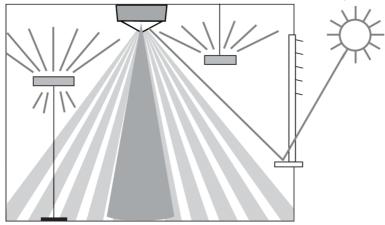
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Brightness Measurement

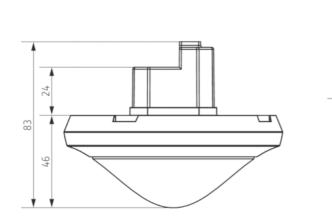
The presence detector measures artificial light and daylight that is reflected directly below the detector. The light measurement area maps a rectangle of about 2 x 3.5 m at table height. The installation location is a reference point for the lighting level. Direct light influences the light measurement. 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).

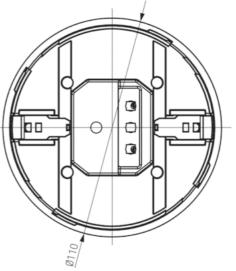
Suitable lamps

The presence 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



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Presence and motion detectors Presence detectors

theSenda P

■ Article number: 9070910 Details ► www.theben.de



QuickSafe

■ Article number: 9070531 Details ► www.theben.de



Product selection

Installation type	Channel	Operating voltage	Colour	Туре	Article number
Ceiling installation	Light	110 – 230 V AC	White	theRonda P360-100 WH GST	2080010
Ceiling installation	Light	110 – 230 V AC	White	theRonda P360-100 WH WINSTA	2080015
Ceiling installation	Light	110 – 230 V AC	White	theRonda P360-100 UP WH	2080000
Ceiling installation	Light	110 – 230 V AC	Grey	theRonda P360-100 UP GR	2080001

theSenda S

■ Article number: 9070911 Details ► www.theben.de



Masking clip

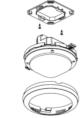
■ Article number: 9070921 Details ► www.theben.de

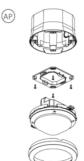












Flush-mounted installation

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).