theben

309699 05

EN Motion detector

theLuxa S360 WH 1010510

theLuxa S360 BK 1010511

1. Essential safety instructions

> ⚠ **WARNING**
>
> **Danger of death through electric shock or fire!**
> ➢ Installation should only be carried out by a pro-fessional electrician!

- The device conforms with EN 60669-2-1 when correctly installed
- IP 55 in accordance with EN 60529

Designated use

- Motion detector for automatic lighting control dependent on presence and brightness
- Suitable for installation on external walls or ceilings
- Suitable for entrances, garages, gardens, corridors, parks, etc.
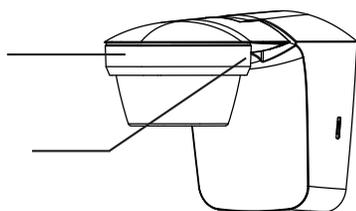- Only intended for installation outside of arm's reach

Disposal

Dispose of the motion detector in an environmentally sound manner (electronic waste)

2. Description

Motion detector with sensor head

3 potentiometers for setting time (min) and bright-ness (lux) and sensitivity (Meter)
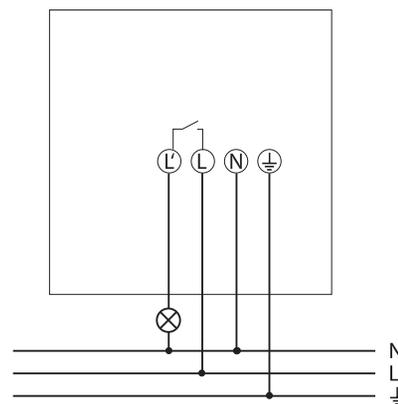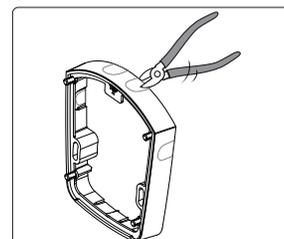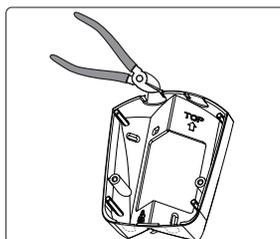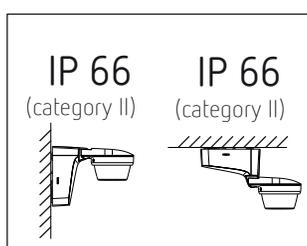
3. Connection

⚠ **WARNING**

Danger of death through electric shock!

➢ Disconnect power source!
➢ Cover or shield any adjacent live components.
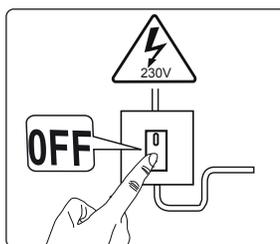➢ Ensure device cannot be switched on again!
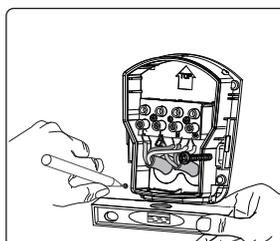
➢ Check power supply is disconnected!
➢ Earth and bypass!

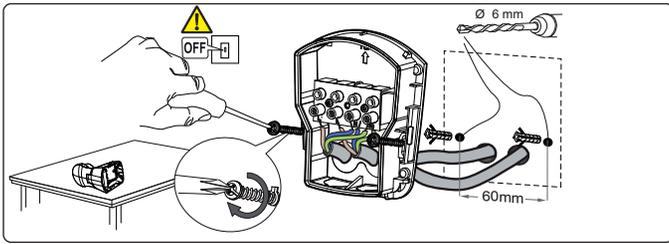## 4. Installation

IP 66
(category II)

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(category II)

➢ If applicable, use optional corner bracket (9070902, 9070903) or optional spacer frame (9070906, 9070907) for flexible installation as well as cable insertion from side or top/bottom.
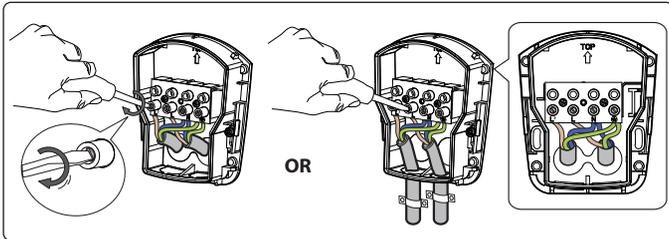
OFF

➢ Disconnect power source.

➢ Make marks for the holes on the wall (with en-closed drill template/base).
➢ Drill holes.

➤ Feed cable through the seal of the base.
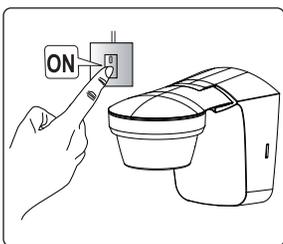➤ Fasten base (and spacer frame) to the wall.

OR

L	Phase	brown
N	Neutral conductor	blue
⊕	Earthing conductor	

L'	Switched phase	brown
N	Neutral conductor	blue
⊕	Earthing conductor	green/yellow

➤ Connect the individual wires to the appropriate terminal.
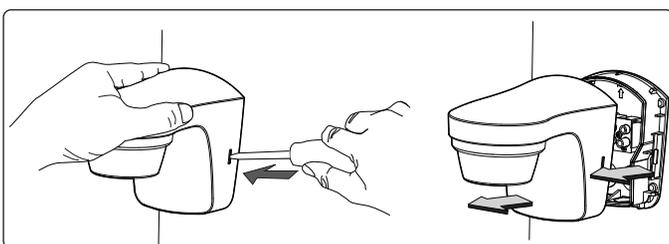➤ Tighten screws.
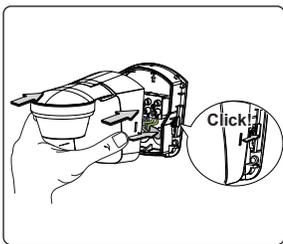
Click!

➤ Plug motion detector into base and click in.

ON

➤ Connect motion detector to power supply.

Dismantling

➤ Using the screwdriver, carefully loosen the snap-in hook at the side and pull the device forward.

Installation instructions

As the detector reacts to variations in temperature, avoid the following situations:

➤ Do not direct motion detectors at objects with highly reflective surfaces such as mirrors etc.
➤ Do not install motion detectors near heat sources such as heating outlets, air conditioning systems, lamps etc.
➤ Do not direct the motion detector at objects that turn in the wind such as curtains, large plants etc.
➤ Take account of motion direction during test run.

360°
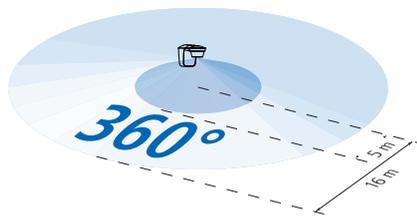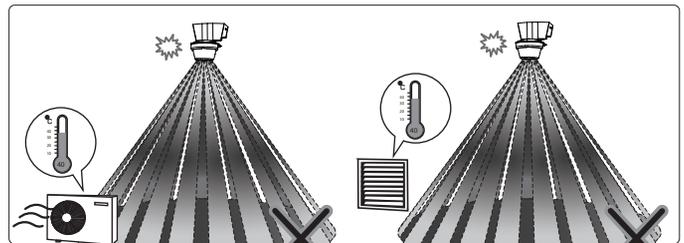
- Recommended installation height: 2 − 4 m
- Crosswise detection area: 16 m (crosswise to the detector)
- Frontal detection area: 5 m (in front of the detector)
- Detection angle: 360°

## 5.   Direction test and alignment

The walk test is used to test the detection range and to restrict it if necessary.
➤ Set the potentiometer time (min) to test.

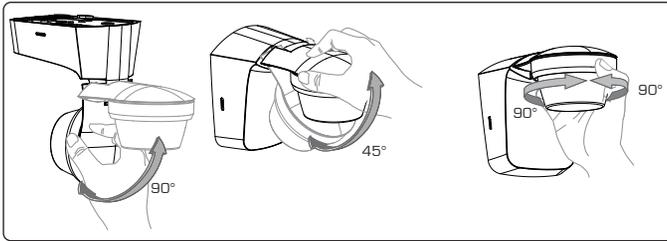The motion detector now only reacts to movement (independent of brightness).
➤ Crosswise to the detection area. After the motion detector has detected a movement, it switches on for 2 s.
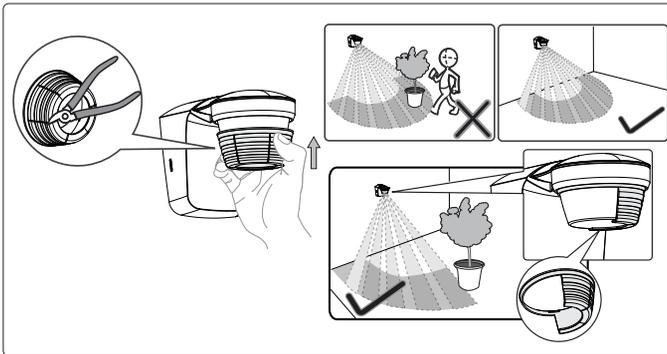Note direction of motion during the test.

2 sec

Test
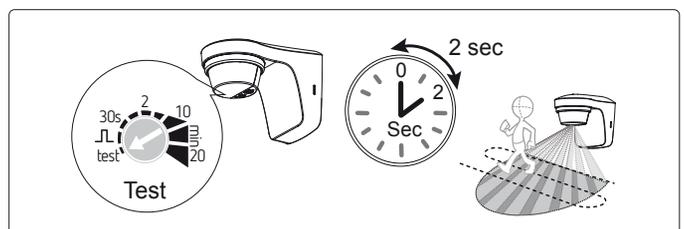
Align motion detector with sensor head

The sensor head can be turned by 45° downwards and 90° upwards and by 90 ° to the left and right.
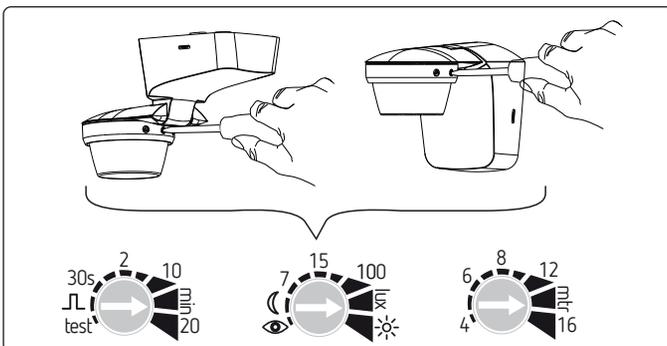

6. Use screens

> Use supplied screen to adjust the motion detector to desired detection area.
> Remove the required section from the screen using pliers.
> Then place on the lens and screw in.

7. Setting

The motion detector has 3 potentiometers underneath for setting the time (Min), brightness (Lux) and sensitivity (Meter).
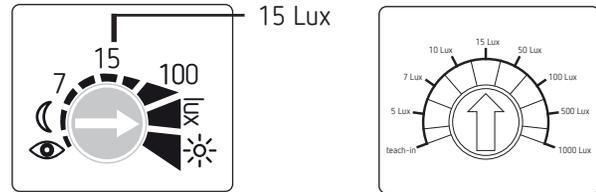

Set brightness (lux)

You can set different brightness values (lux) with the potentiometer.
If you want to change the preset brightness (15 lux default)

> Set potentiometer to desired brightness (5 − 1000 lux).

or want a specific brightness value to be learned using the teach-in function
> At the desired brightness set the potentiometer to 👁. The value will be learned after 15 s.
> Leave potentiometer at position 👁.

Set time (min)

If the motion detector detects no further movement, it switches off after the set time.

If you want to change the preset time (2 min default)
> Set potentiometer to desired time (1 s − 20 min).
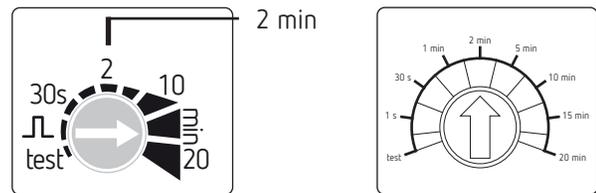
If you want to use the pulse function (e.g. for a staircase light time switch)

> Set potentiometer to position ⊓. The motion detector is switched on for < 1 s, then off for 9 s. If it detects a movement again, it switches on again for 1 s.

Set sensitivity (Meter)

You can reduce the sensitivity of the sensor. This reduces the detection area, and minor movements (e.g. animals) are no longer detected.
> Set Potentiometer **Meter** to the desired sensitivity.
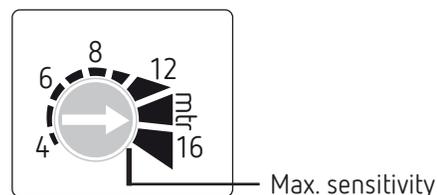
8. Technical data

- Operating voltage: 230 V AC, +10 % −15 %
- Frequency: 50 Hz
- Standby: 0,5 W
- Detection angle: 360°
- Detection area: crosswise: max. 16 m,
                         frontal: max. 5 m
- Installation height: 2 − 4 m
- Creep-under protection: yes
- Brightness setting range: 5−1000/∞ lux
- Switch-off delay: 1 s − 20 min
- Permissible ambient temperature: −25 °C to +45 °C
- Protection class: II
- Protection rating: IP 66 (wall mounting) and IP 66
                         (ceiling installation) (category II) in
                         accordance with EN 60529
- Switching capacity: 10 A (cos φ = 1)
                         6 A (cos φ = 0.6)
                         3 AX (cos φ = 0.3)
- Min. switching capacity: 10 mA
- Switching contact: μ-contact 230 V AC
- LED lamps <2 W   50 W
- LED lamps >2 W   500 W
- Incandescent and halogen lamp load: 2300 W
- Low-voltage halogen lamps: 2300 VA
- Fluorescent lamps (low-loss series devices):
        uncorrected: 2300 VA
        Series corrected: 2300 VA
        Parallel-corrected: 1000 VA (120 μF)
- Fluorescent lamps (electronic ballast): 1000 W
- Compact fluorescent tubes
  (electronic ballast):   250 W