

EN Motion detector

LUXA 103-100 U WH
1030040

LUXA 103-100 UA WH
1030045



1. Basic safety information



WARNING

Danger of death through electric shock or fire!

- Installation should only be carried out by a qualified electrician!

- The device conforms with EN 60669-2-1 if installed correctly

2. Proper use

- Motion detector for automatic lighting control dependent on presence and brightness
- Suitable for ceiling installation (false ceilings) indoors with flush-mounted boxes or back boxes with accessory 9070986
- Suitable for toilets, small rooms, workplaces, offices, etc.
- LUXA 103-100 UA WH with acoustic sensor (microphone) suitable for bathrooms and toilets

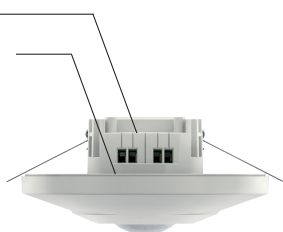
Disposal

- Dispose of the device in an environmentally sound manner (electronic waste)

3. Device description

Sensor unit

4 potentiometers for setting time delay (TIME), brightness value (LUX), detection area (metres) and acoustic sensor (mic); LUXA 103-100 U WH only has 2 potentiometers for setting time delay (TIME) and brightness value (LUX)



red LED

4. Installation and connection

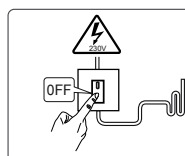
- ⚠ Secure device with an upstream type C circuit breaker (EN 60898-1) with a maximum of 10 A

Installing the motion detector

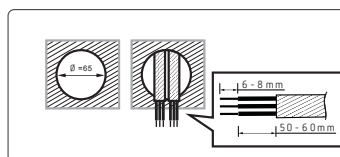
- ① Installation in the ceiling, in flush-mounted box or back box
- ① Installation height: 2.5 – 3 m (only when installed in false ceiling - springs)
- ① Motion detector requires clear line of sight to people
- ① LUXA 103-100 UA contains a microphone

Ceiling installation

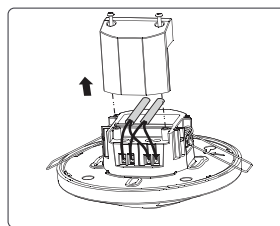
- Disconnect power source



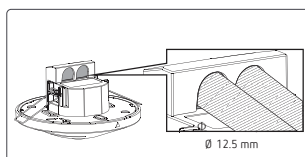
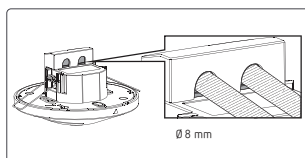
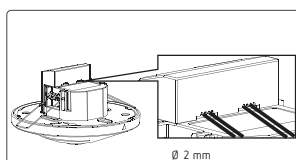
- Create a ceiling opening of Ø 65 mm



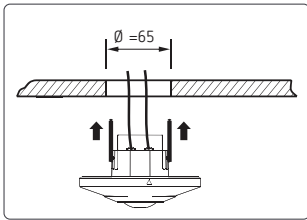
- Loosen screws on protective cap and remove protective cap



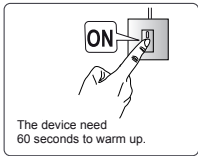
- ① Recesses in the protective cap can be adjusted to the cable diameter. (min. Ø 2 - max. Ø 12.5 mm)



- Connect motion detector according to wiring diagram
- Put on protective cap and screw tight
- Attach the sensor with tensioned springs in the ceiling or screw onto flush-mounted box (remove tensioned springs beforehand)



➤ Connect motion detector to power supply



① Alternative installation in flush-mounted box (remove tensioned springs beforehand) or back box

Connecting the motion detector

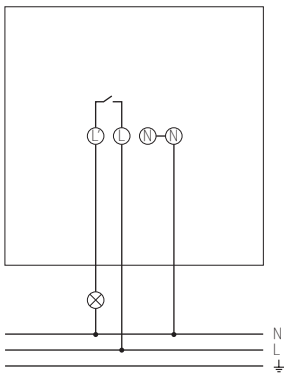
WARNING

Danger of death through electric shock or fire!

➤ Installation should only be carried out by a qualified electrician!

- Disconnect power source
- Ensure device cannot be switched on
- Check absence of voltage
- Earth and bypass
- Cover or shield any adjacent live components

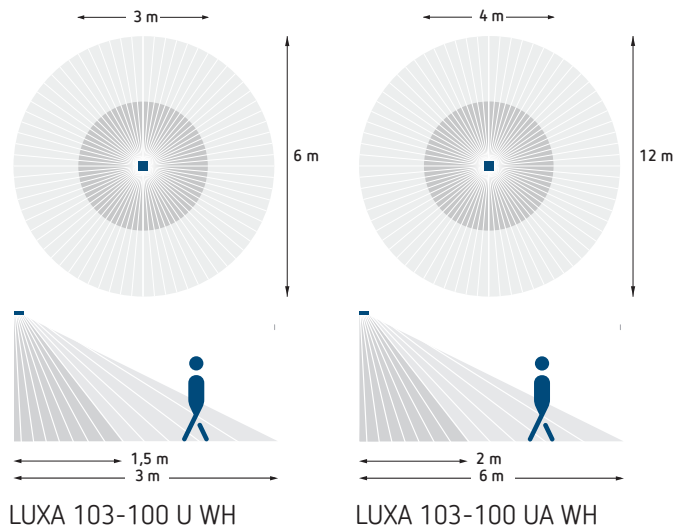
The warm-up phase takes approx. 60 s. The LED is permanently red.



Installation instructions and detection area

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 the motion detector near heat sources, such as heating outlets, air conditioning systems, lamps, etc.
- Do not direct the motion detector at objects that move in the wind, such as curtains, large plants, etc.
- Pay attention to the direction of motion during the test run

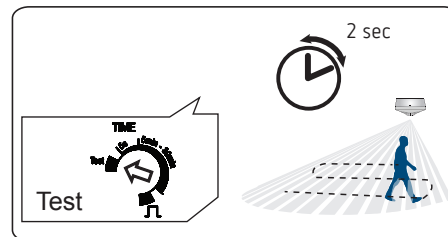


① Installation height: 2.5 – 3 m

5. Walking test

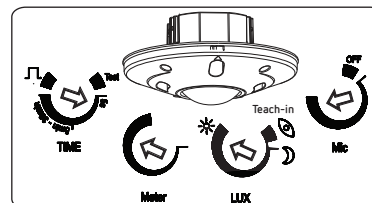
The walking test is used to test the detection area.

- Set the time potentiometer (TIME) to **Test**. The motion detector only reacts to movements, brightness measurement is switched off
- Walk through the detection area. Every detected movement is indicated by the LED, and the light switch contact closes for 2 s

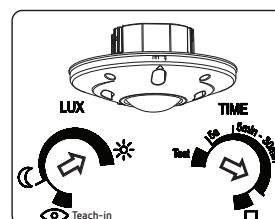


6. Setting

The motion detector LUXA 103-100 UA WH has 4 potentiometers for setting the time delay (TIME 1), brightness (LUX), sensitivity (metres) and acoustic sensor (mic); in the case of LUXA 103-100 U WH it is only possible to set the time delay (TIME) and brightness (LUX).



LUXA 103-100 UA WH



LUXA 103-100 U WH

Setting the brightness (LUX)

You can set different brightness values (LUX) with the potentiometer.

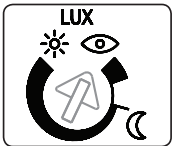
If you want to change the preset brightness

- Set the potentiometer to the desired brightness (10 – 2000 Lux = ☀)



If you want a specific brightness value to be learned using the **teach-in function**

- At the desired brightness, set the potentiometer to 👁. The LED flashes for 20 s, afterwards the measured brightness value is accepted
- Leave the potentiometer at position 👁

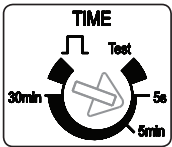


Setting the time delay (TIME)

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

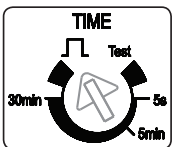
If you want to change the preset time

- Set the potentiometer to the desired time (5 s - 30 min)



If you want to use the **pulse function** (e.g. for a staircase light timer switch)

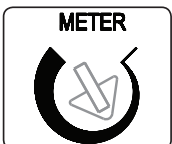
- Set the potentiometer to □. The presence detector for "staircase light timer switch" operation is on for 1 s and off for 9 s



Setting the sensitivity (metres)

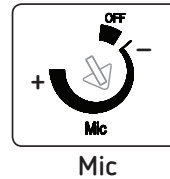
You can reduce the sensitivity in order to avoid switching errors.

- Set potentiometer **metres** to the desired sensitivity



Setting the acoustic sensor (mic)

- Set potentiometer to the desired sensitivity

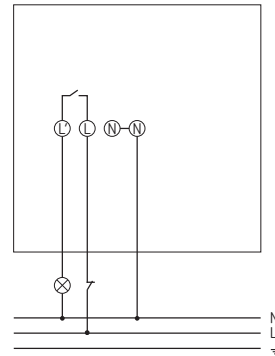


If the acoustic function is activated, the detector switches on the light via the PIR sensor whenever a motion is detected. The light remains switched on as long as motion is detected via the PIR sensor, or signals are received by the acoustic sensor (microphone).

If no motion is detected, or no acoustic signal is received, the detector switches off the light after the set time delay. Within 8 seconds after the detector has switched off, the detector can be reactivated via an acoustic signal, and the light can be switched on.

Manual operation

The lighting can be manually switched on/off via a button.

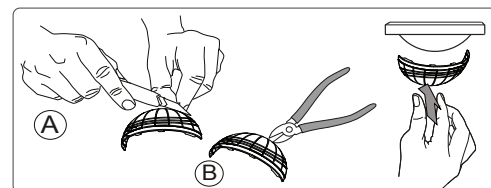


When the light is on/off

- Briefly press button once (< 1 sec)
→ The light is on/off for the time set on the potentiometer; then the detector goes into automatic mode

Limiting the detection area

- Use the supplied cover clips to adjust the motion detector to the desired detection area
- Remove the required section of the cover clip by using pliers or similar
- Then place it on the lens



7. Technical data

Operating voltage	230 V AC \pm 10% – 15%
Frequency	50 Hz / 60 Hz
Upstream protection device	10 A
Standby output	approx. 0.5 W
Switching capacity min.	10 mA
Protection rating	Protection rating: IP 40 (installed), IP 44 (with back box)
Protection class	II
Operating temperature	– 20 °C ... +45 °C
Brightness setting range	10 – 2000 lx/ ∞
Duty cycle range	5 s – 30 min
Detection angle	360°
Detection area	lateral/frontal: LUXA 103-100 U WH: 6 m/3 m LUXA 103-100 UA WH: 12 m/6 m
Installation height	2.5 – 3 m
Max. cable length	50 m
Light switch output	μ contact 230 V AC zero-cross switching
Incandescent lamp load	max. 2000 W
Halogen lamp load	max. 2000 W
Low-voltage halogen lamps (transformer)	max. 1000 VA
Fluorescent lamps (LLB low-loss ballasts): parallel compensated	max. 900 VA (100 μ F)
Fluorescent lamps (EB – electronic ballasts)	600 W
Compact fluorescent lamps (EB)	400 W
LED lamps (< 2 W)	35 W
LED lamps (> 2 W)	400 W

8. Contact

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