

EN Motion detector

LUXA 103-100 C DE WH
1030016

LUXA 103-101 C DE WH
1030017



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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; LUXA 103-101 C DE suitable for automatic lighting and HVAC control
- Suitable for ceiling installation (false ceilings) indoors
- Suitable for toilets, small rooms, workplaces, offices, etc.

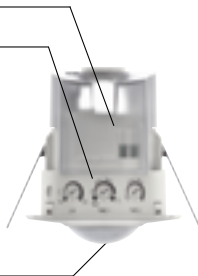
Disposal

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

3. Device description

Sensor unit

2 potentiometers for setting time delay (TIME) and brightness value (LUX); additional setting of HVAC time (TIME 2) in the case of LUXA 103-101 C DE
red LED



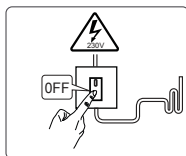
4. Installation and connection

- ⚠ Secure device with an upstream type C circuit breaker (EN 60898-1) with a maximum of 10 A.
- ⚠ Secure device with an upstream type C circuit breaker (EN 60898-1) with a maximum of 6 A (HVAC channel 2).

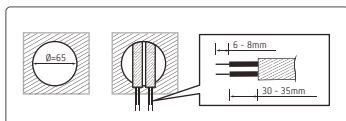
Installing the motion detector

- ① Installation height: 2 m - 3 m (2.5 m recommended)
- ① Installation in the ceiling
- ① Motion detector requires clear line of sight to people

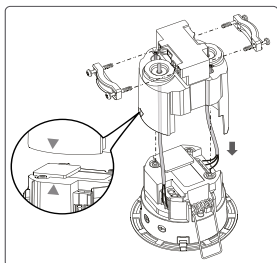
- Disconnect power source



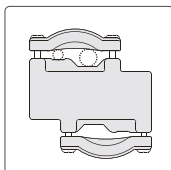
- Create a ceiling opening of \varnothing 65 mm



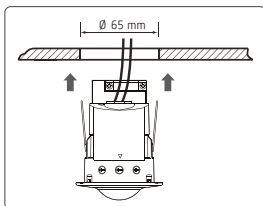
- Loosen screws on protective cap and remove protective cap
- Feed cable through the seal of the protective cap



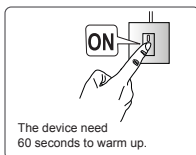
- Connect sensor unit according to the wiring diagram
- Fix cable with cable clamp



- Put on protective cap and screw tight
- Attach the motion detector with tensioned springs in the ceiling



- Connect motion detector to power supply



Connecting the motion detector



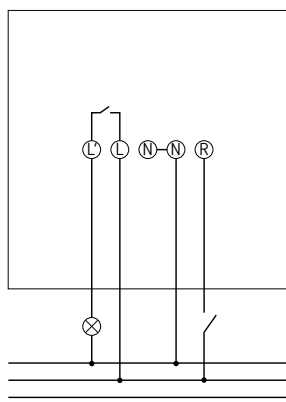
WARNING

Danger of death through electric shock or fire!

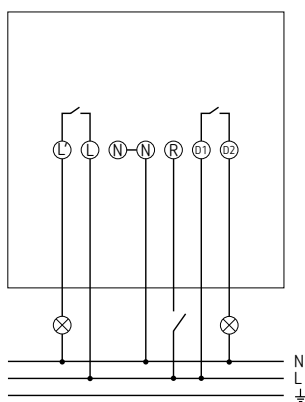
- Installation should only be carried out by a qualified electrician!

- 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.



LUXA 103-100 C DE



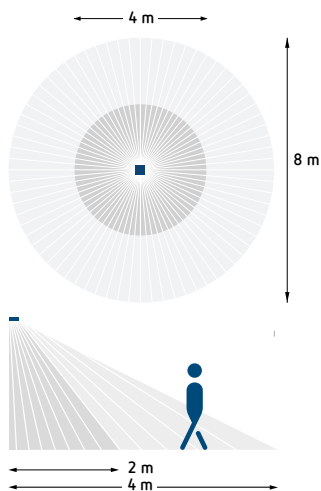
LUXA 103-101 C DE



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.

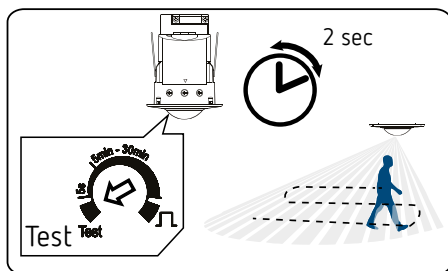


① recommended installation height: 2.5 m

5. Walking test

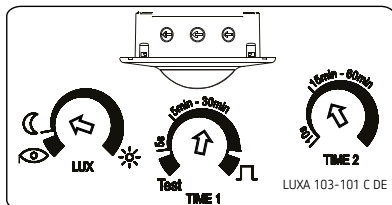
The walking test is used to test the detection area.

- Set the time delay potentiometer (TIME 1) 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 C DE has 2 potentiometers for setting the time delay (TIME 1) and brightness (LUX); with LUXA 103-101 C DE the HVAC time (TIME 2) can also be set.

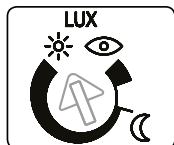


Setting the brightness (LUX)

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

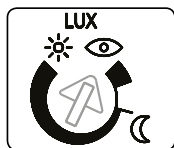
If you want to change the preset brightness

- 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 👁.

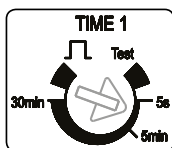


Setting the time delay (TIME 1)


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

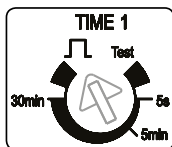
If you want to change the preset Time

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



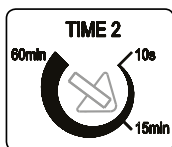
If you want to use the pulse function (e.g. for a staircase light timer switch)

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



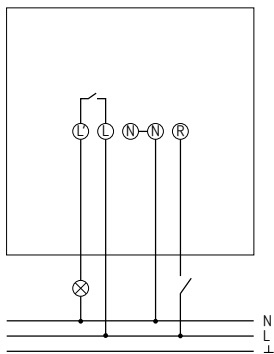
Setting the HVAC time (TIME 2) (only LUXA 103-101 DE)

- Set the potentiometer to the desired time (10 s - 60 min.).



Manual operation

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



When the light is on

- Briefly press button once ($< 1\text{ s}$)
→ Light is off

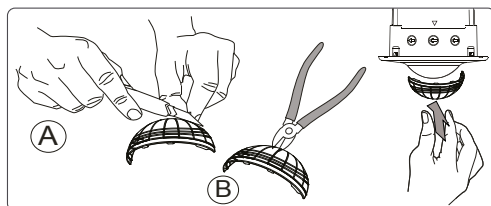
When the light is off

- Briefly press button once ($< 1\text{ s}$)
→ The light is on 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%
Frequency	50 Hz / 60 Hz
Upstream protection device	10 A
Standby output	0.5 W
Switching capacity min.	10 mA
Protection rating	IP 44 in accordance with EN 60529
Protection class	II
Operating temperature	0 °C ... +45 °C
Brightness setting range	10 – 2000 lx/ ∞
Duty cycle range	LUXA 103-100 C DE: 5 s – 30 min for lighting LUXA 103-101 C DE: 5 s – 30 min for lighting 10 s – 60 min for HVAC
Detection angle	360°
Detection area	lateral/ frontal: 8 m/4 m
Installation height	2 – 3 m (2.5 m recommended)
Light switch output	μ contact 230 V AC, zero-cross switching
Switch output HVAC (D1/D2)	LUXA 103-101 C DE: 5 A (at 250 V AC, $\cos \phi = 1$) μ contact
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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