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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

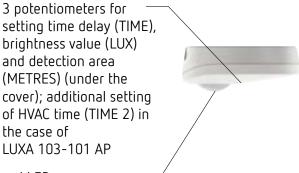
- Motion detector for automatic lighting control dependent on presence and brightness (LUXA 103-100 AP); LUXA 103-101 AP: suitable for automatic lighting and HVAC control (HVAC switches on regardless of brightness)
- Suitable for ceiling installation indoors with back boxes
- Suitable for toilets, small rooms, workplaces, offices, etc.

Disposal

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



3. Device description





red LED

4. Installation and connection

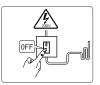
- ▲ Secure device with an upstream type C circuit breaker (EN 60898-1) with a maximum of 10 A (channel 1)
- ▲ Secure device with an upstream type C circuit breaker (EN 60898-1) with a maximum of 6 A (HVAC channel 2)

Installing the motion detector

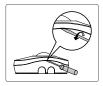
① Installation height: 2 - 3 m

① Motion detector requires clear line of sight to people

Disconnect power source

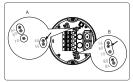


 Carefully lift the outer cover with a screwdriver and unscrew the upper housing part

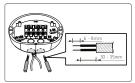




> Observe the break-outs for flush-mounting socket



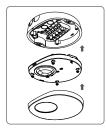
≻Strip cable to 6 – 8 mm



> Make marks for the holes and drill the holes



- Fix the base to the ceiling, connect the individual wires to the appropriate terminal and tighten the screws
- Screw on the housing



- > Make settings at the potentiometers
- > Put on the cover and close catch mechanism
- > Connect motion detector to power supply





Connecting the motion detector



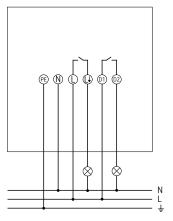
WARNING

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 AP



LUXA 103-101 AP

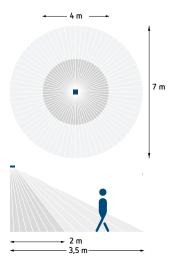


Installation instructions and detection area

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

- Do not direct motion detectors at objects with highlyreflective 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.



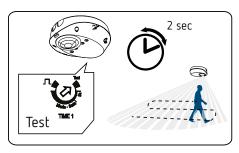


① recommended installation height: 2.5 m

5. Walking test

The walking test is used to test the detection area.

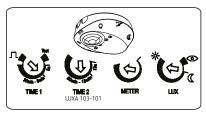
- Set the time delay potentiometer (TIME 1) to Test. The motion detector only reacts to movements, brightness measurement is switched off.
- Walk through the detection area. Every detected movement is indicated by the LED, and the light switch contact closes for 2 s.





6. Setting

The motion detector LUXA 103-100 AP has 3 potentiometers for setting the time delay (TIME 1), brightness (LUX) and sensitivity (METRES); in the case of LUXA 103-101 AP 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 25 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 -r. 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 AP)

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



HVAC switches on regardless of brightness

Setting the sensitivity (METRES)

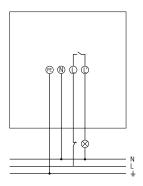
You can reduce the sensitivity in order to avoid switching errors.

 Set potentiometer METRES to the desired sensitivity.



Manual operation

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



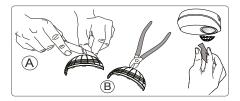


When the light is off

- Briefly press button once
 - → 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 ±10% - 15% |
|----------------------------|--------------------------------------------------|
| 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 AP: 5 s – 30 |
| | min for lighting |
| | LUXA 103-101 AP: 5 s – 30 |
| | min for lighting |
| | 10 s – 60 min for HVAC |
| Detection angle | 360° |
| Detection area | lateral/frontal: 7 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 AP: 5 A (at 250 V AC, cos φ = 1) |



| 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 µF) |
| 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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