theben

307397 05

EN LED lamp
with motion detector

theLeda D S AL
1020901
theLeda D SU AL
1020902

theLeda D U AL
1020903
theLeda D UD AL
1020904

1. Basic safety information

⚠ Only intended for installation out of arm's reach.

⚠ High temperature! Do not touch the metal parts of the device.

ⓘ The LED lamp with motion detector (PIR) conforms to EN 60598-1 if correctly installed.

2. Proper use

- Device is intended for wall mounting outdoors
- For entrances, single-family houses, building fronts, hotel entrances, medical practices, etc.
- For use in normal ambient conditions
- The LED lamp is used for lighting, depending on presence and brightness
- Operable with theSenda S remote control, adjustable with theSenda P and theSenda B with theSenda Plug app

ⓘ Lamp cannot be replaced.
Replace entire lamp if defective!

Disposal

➤ Dispose of LED lamp properly (electronic waste).

3. Connection

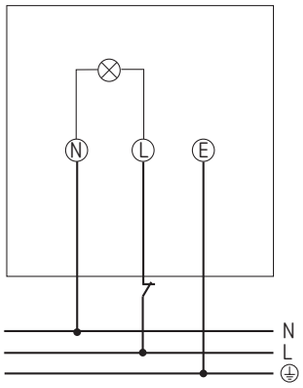
⚠ WARNING

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.

Connecting the LED lamp



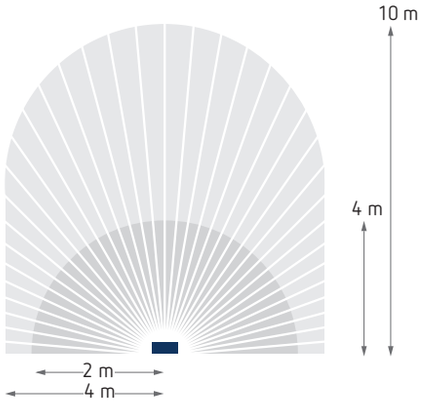
4. Installation

ⓘ If wireless networking of several devices is desired, a wireless channel can be selected on the rear of the device before installation. To do this, the same wireless channel (1 – 6) must be set for all devices of one group. If the function is not required, switch off wireless (off).

ⓘ Suitable for surface-mounted installation.

ⓘ Optionally mountable with corner bracket 9070970, spacer frame 9070972.

ⓘ Observe the recommended installation height of 1.8 m - 2.2 m!



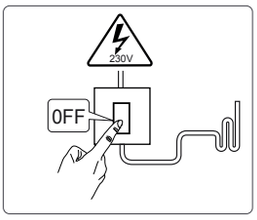
Installation instructions

As the integrated motion detector responds to variations in temperature, avoid the following situations:

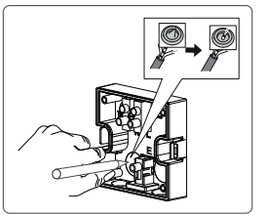
➤ Do not direct the motion detector (PIR) of the LED lamp at objects with highly-reflective surfaces.
➤ Do not install the motion detector near heat sources, such as heating outlets, air conditioning systems, lamps, etc.
➤ Do not direct the motion detector at objects that move in the wind, such as large plants, etc.
➤ Pay attention to the typical direction of motion during the test run.

ⓘ If you walk diagonally to the motion detector, the detection is more sensitive than with a direction of movement directly towards the motion detector.

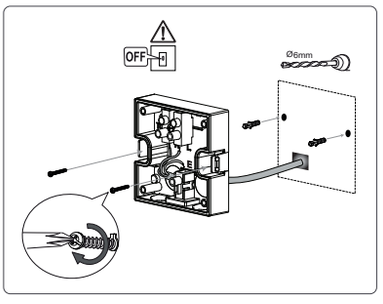
➤ Disconnect power source.



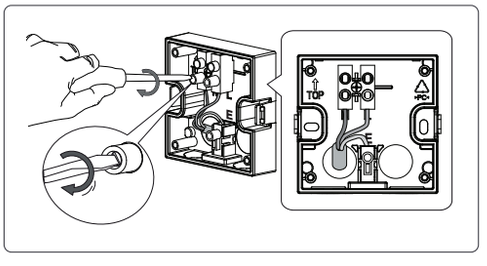
➤ Pierce the required rubber seals for the cables.



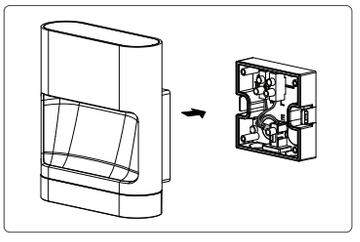
➤ Make marks for the holes and drill the holes.

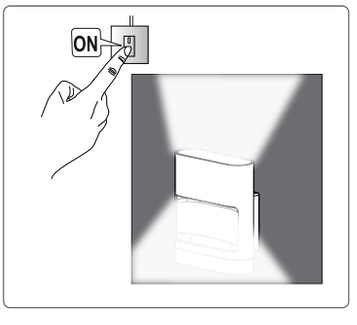


➤ Feed the cable through the seal of the base.
➤ Tighten the screws.



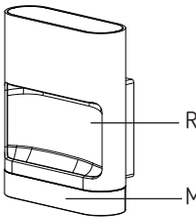
➤ Connect the individual wires to the appropriate terminal and tighten the screws.
➤ Plug the LED lamp on the base and connect to the mains.

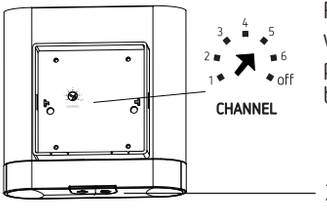




ⓘ The device needs approx. 40 s of preheating time.

5. Description





Potentiometer to set the wireless channel for grouping devices (on the rear of the device)

2 potentiometers to set time delay and switch-on brightness (on the bottom side of the device)

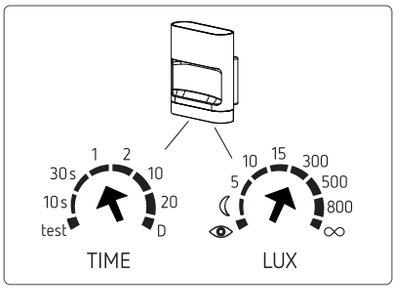
6. Setting

Using the grouping function (setting the wireless channel)

ⓘ The LED lamps can be set and operated in a wireless network. Any number of devices with and without motion detector can be operated on one wireless channel.

ⓘ The grouping function can also be activated via theSenda Plug app (parameter → RF channel).

In order to switch on several devices in case of motion,
➤ set the potentiometer to the same wireless channel 1 – 6 at all LED lamps.



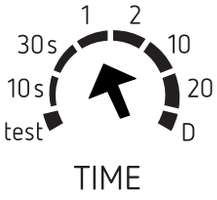
ⓘ If the set value is changed at a potentiometer, the values will be accepted by both potentiometers (for brightness and time) – regardless of the settings via app or theSenda P.

ⓘ For settings that can be made with the app or on the device, the last set value is always saved.

Setting the brightness (LUX)

- ➤ Turn the potentiometer to "Teach-In 👁"; after 15 s, the motion detector saves the current surrounding brightness as the new switch-on brightness.
- ➤ Set the potentiometer to the desired brightness (2 – 800 lux/∞).
  On the ∞ setting, the lamp responds to motion, regardless of the brightness.

Setting the time (TIME)



- ➤ Set the potentiometer to the desired time (10 s – 20 min).
- ➤ Turn the potentiometer to "D" (dimming function); the motion detector only responds to brightness and is always switched on when the set brightness value has not been reached → LED lamp is switched on during darkness (motion detector is disabled).

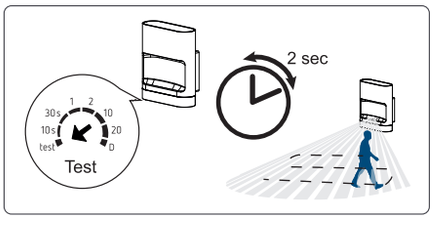
7. Walking test

The walking test is used to test the detection area and to restrict it if necessary.

- ➤ Set the time potentiometer (TIME) to "test".
  → The motion detector now always responds to movements (independent of brightness).
- ➤ Walk across the detection area. After the motion detector has detected a movement, it switches on for 2 s. The test mode is quit again after 10 min.

ⓘ Pay attention to the walking direction (diagonally to the motion detector) during the test.

ⓘ The function can be quit with any other function command.

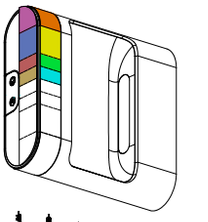


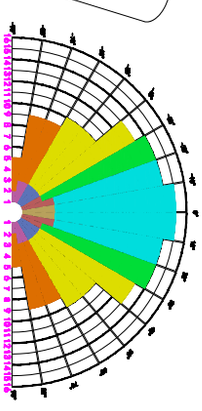
ⓘ The walking test can also be activated in the app (control commands → presence test), or with theSenda P.

8. Limiting the detection area

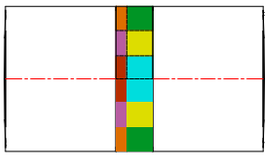
- ➤ Use the enclosed stickers to adjust the motion detector to the desired detection area.
- ➤ Remove the required section of the sticker by using scissors.
- ➤ Then stick it to the lens.

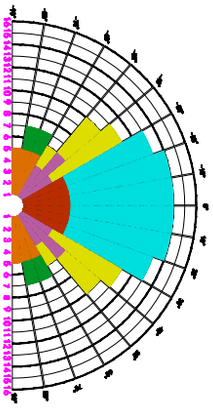
theLeda D S AL
theLeda D SU AL
theLeda D U AL





theLeda D UD AL





9. Settings and functions

ⓘ For an optimum setting of the functions we recommend theSenda B remote control with theSenda B Plug app.

Available on the App Store

GET IT ON Google play

ⓘ With each setting, the device confirms the received command with a flashing (2 x) of the light.

ⓘ If you combine theSenda B remote control with theSenda Plug app, the terms "control commands" and "parameters" appear in the app.

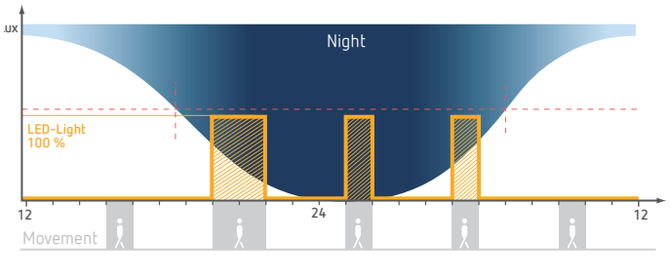
Parameter	Control commands
Brightness setpoint value	Teach-in
Time delay	Switching light
Maximum brightness	Presence test
Standby dimming value	Detection sensitivity
Scene 1	Night switch-off
Scene 2	Standby
RF channel	Presence simulation

	D mode
	Auto

ⓘ Auto (normal operation), scene 1, scene 2, D mode, presence simulation and presence test are states of the device. A combination of these states is not possible.

Auto mode (normal operation)

The standard settings include time delay, brightness setpoint, maximum brightness and sensitivity of the motion detector.



ⓘ The LED lamp is switched on if there is movement and the brightness has fallen below the setpoint.

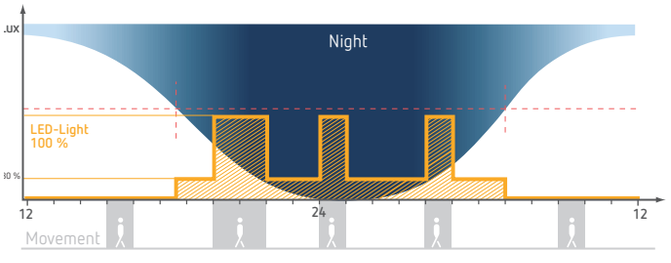
➤ Press button A (Auto) on theSenda P, S, or B remote control. There are 3 ways to select the brightness setpoint and the lighting time delay:
- selection with the app → under parameter → lighting time delay select etc.
- with theSenda P
- or with the potentiometers at the device

ⓘ The brightness of the lamp can be dimmed via the "maximum brightness" parameter.

In auto mode, various additional functions can be activated: orientation light and night switch-off.

Orientation light (= standby dimming value)

The orientation light provides a defined basic brightness of 10 to 40% so that pathways, access routes and entrances are dimly lit after nightfall. If the device registers a movement, the LED lamp will light up 100% and dims down again to the set brightness value after the preset time delay.



ⓘ If the brightness falls below the setpoint, the lamp switches on a reduced orientation light even without movement. When motion is detected, the light is switched to maximum brightness.

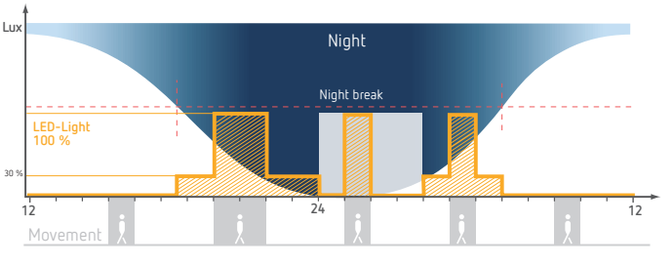
ⓘ Setting only via theSenda B remote control and the app (always 10% – 40%).

theSenda Plug app

➤ under parameters → select standby dimming value, and send.
➤ back to → control commands → select standby, and send → Detector flashes 2 x → standby dimming value is on.

Self-learning night switch-off

The self-learning night switch-off adjusts to the changing twilight times and switches off for 4 hours in the 2nd half of the night when orientation/standby light is **activated**. If motion is detected during this switch-off, the light is switched to maximum brightness.



ⓘ The night switch-off does not influence the motion-triggered light switching!

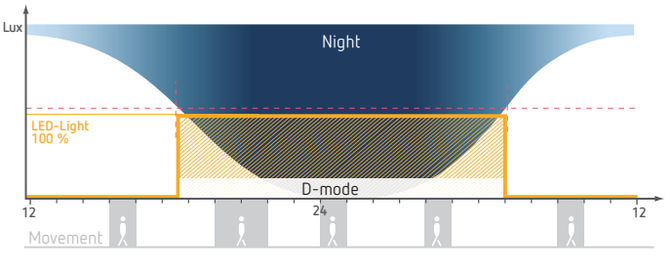
ⓘ Setting only via theSenda B remote control and theSenda Plug app.

theSenda Plug app

➤ Control commands → select night switch-off, and send.

Dimming function (= D mode)

The dimming function of the LED lamp ensures that the light is switched on at maximum brightness as soon as the brightness falls below a certain value - regardless of whether the device registers a movement or not. The light is switched on again when sufficient daylight is available.



ⓘ Additional night switch-off function: switching on and off; function determines midpoint between twilight and switches off the light for 4 hours from the 2nd half of the night; function does not influence motion-triggered light switching!

➤ Press button D (D mode) on theSenda P, S, or B remote control
➤ or select → control commands → D mode in the app → D mode is on.
➤ Press key A or send Auto command in the app to exit the function.

Light function on/off

Light function on

- The light is switched on with the maximum brightness
- Automatic change to auto mode after 8 hours
- Exiting the function with any other function command

Light function off

- The device switches off, the motion detector no longer responds
- Automatic change to auto mode after 8 hours
- Exiting the function with any other function command

Entering and calling up lighting scenarios

ⓘ Automatic change to auto mode after 8 hours.

ⓘ Exiting the function with any other function command.

➤ In the app → parameters → select value for lighting scenario 1 (default 33%), or lighting scenario 2 (default 66%), and send; or
➤ set the desired value via dimming with theSenda B or theSenda S.
➤ Hold down the button for lighting scenarios.
→ Detector flashes 2 x and lighting scenario is saved.

Calling up lighting scenario

➤ With theSenda B, press the button for lighting scenario 1 x briefly.
→ Lighting scenario is active for 8 hours.
➤ Press button A, to prematurely finish the function.

Holiday mode (presence simulation)

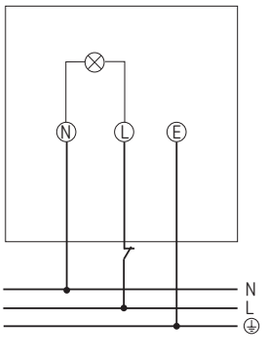
ⓘ The holiday mode always has a time delay of 2 min. and changes the setpoint. If the mode is exited via the button or command A (Auto), the desired time delay has to be set again.

➤ In the app → control commands → select presence simulation, and send
➤ or press the "holiday mode" button with theSenda B or theSenda S.

Manual operation

The lighting can be switched on manually via a circuit breaker button.

ⓘ A circuit breaker button must be connected.



➤ Press the circuit breaker button briefly (max. 1.5 s).
→ The lighting will come on for the set time.
➤ Press the circuit breaker button 2 x briefly (within 1.5 s).
→ The lighting remains switched on for 8 hours (permanent light).
➤ In order to switch off the lighting, press the circuit breaker button 1 x briefly (max. 1.5 s).
→ The detector switches off after the set time delay.

ⓘ If the circuit breaker button is pressed longer than 2 s, the detector restarts (warm-up phase).

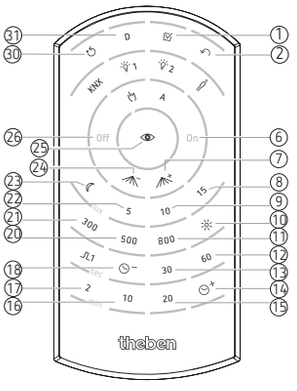
10. Settings with remote controls

ⓘ You can enter the settings with the remote controls theSenda S, theSenda P, and theSenda B.

ⓘ All settings can be quit by pressing button A.

Settings using theSenda P (9070910)

The following parameters or functions can be set with theSenda P:



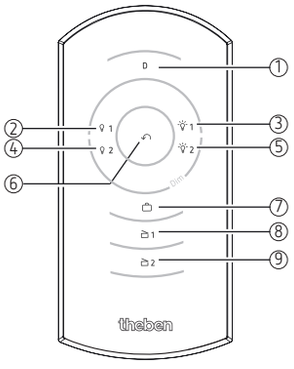
①	Test	Test mode, ends after 10 min
②	Auto	return to Automatic mode
⑥	On	Switch on light*
⑦	Range +	Increase sensitivity
⑧	15 lux	Brightness setpoint value 15 lux
⑨	10 lux	Brightness setpoint value 10 lux
⑩	Lux On	Deactivation of brightness measurement
⑪	800 lux	Brightness setpoint value 800 lux
⑫	60 s	Lighting time delay 60 s
⑬	30 s	Lighting time delay 30 s
⑭	max. Time	max. lighting time delay, 20 min
⑮	20 min	Lighting time delay 20 min
⑯	10 min	Lighting time delay 10 min
⑰	2 min	Lighting time delay 2 min
⑱	min. Time	min. lighting time delay, 10 s
⑳	500 lux	Brightness setpoint value 500 lux
㉑	300 lux	Brightness setpoint value 300 lux
㉒	5 lux	Brightness setpoint value 5 lux
㉓	min. Lux	min. brightness setpoint value, 1 lux
㉔	Range –	Reduce sensitivity

㉕	Teach-in	Teaching in the brightness setpoint value
㉖	Off	Switch off light*
㉚	Reset	Restart of the detector
㉛	D mode	Dimming function (motion detector deactivated)

* active for 8 hours

ⓘ By pressing the **reset button** on theSenda P or in the app, it will be reset to the default values (2 min, 15 lux).

Settings using theSenda S (9070911)



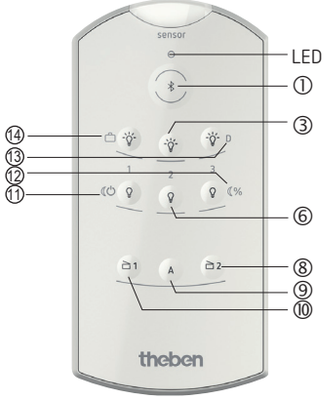
①	D mode	Twilight switch (motion detector deactivated)
②④	Off	short button push → switches off the light*
		long button push → dimming the light down*
③⑤	On	short button push → switches on the light*
		long button push → dimming the light up*
⑥	Auto	return to Automatic mode
⑦	Holiday mode	Presence simulation
⑧	Lighting scenario 1	Pressing the button shortly -> the dimming value of 33% is set*
⑨	Lighting scenario 2	Pressing the button shortly -> the dimming value of 66% is set*

* active for 8 hours

Holiday mode

The holiday mode is a presence simulation, which is used to prevent burglary during temporary absence.

Settings using theSenda B (9070985)



ⓘ If you would like to use the settings of the remote control for the presence detector (default) also for the outdoor detectors,
press buttons 8 + 9 > 5 s.

①	Bluetooth	Connection/pairing
③	On	Short button press → channel light on*
		Long button press → channel light dims up*
⑥	OFF	Short button press → channel light off*
		Long button press → channel light dims down*
⑩	Lighting scenario 1	Short button press → call up lighting scenario 1*
		Press button > 3 s → program lighting scenario 1*
⑧	Lighting scenario 2	Short button press → call up lighting scenario 2*
		Press button > 3 s → program lighting scenario 2*
⑨	Auto	Return to auto mode
⑭	Holiday mode	Presence simulation
⑪	Night off	Night switch-off from approx. midnight to 04:00 a.m.
⑬	D mode	Dimming function
⑫	Standby	Short button press → activate basic brightness in darkness
	Max. brightness	Press button > 3 s → save current brightness as max. brightness value

* active for 8 hours

11. Technical data

Operating voltage:	230 V AC, + 10% / – 15%
Frequency:	50–60 Hz
Consumption with light On: – theLeda D S AL: – theLeda D SU AL: – theLeda D U AL: – theLeda D UD AL:	 8.5 W 14 W 8.5 W 11.5 W
Standby output:	max. 0.5 W (with detector)
LED output (luminous flux): – theLeda D S AL: – theLeda D SU AL: – theLeda D U AL: – theLeda D UD AL:	 760 lm 760 lm at front, 475 lm top 760 lm 2 x 475 lm
Colour temperature:	3000 K
Colour rendering index:	CRI > 80
Service life:	L80/B10/50,000 h
Protection rating:	IP 55 in accordance with EN 60529
Protection class:	II in accordance with EN 60598-1
Operating temperature:	–25 °C ... +45 °C
Brightness setting range:	2 – 800 lux / ∞
Duty cycle range:	10 s – 20 min
Detection angle:	180°
RF range:	100 m on open air test site (max. 20 devices per channel)
Detection area: lateral: frontal:	max. 10 m max. 4 m
Installation height:	1.8m - 2.5m
This product contains a light source of energy efficiency class D or E (1020901).	

Theben AG herewith declares that this type of radio installation complies with Directive 2014/53/EU. The complete text of the EU Declaration of Conformity is available at the following Internet address: www.theben.de/red-konformitaet

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