theben 307399 02

EN **Bollard lamp with/without motion detector**

theLeda D B AL
1020905
theLeda D B plus AL
1020906
theLeda D B plus S AL
1020907
theLeda D BL AL
1020705
theLeda D BL plus AL
1020706

1. Basic safety information

ⓘ The bollard lamps with and without motion detector (PIR), as well as with power outlet are in accordance with EN 60598-1.

2. Proper use

- Device is intended for mounting outdoors
- At paths, drives of single-family houses, hotel entrances, medical practices etc.
- For use in normal ambient conditions
- The bollard 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!

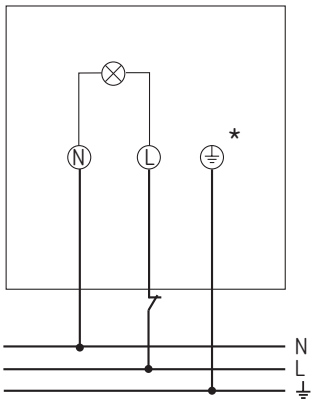
Disposal

➤ Dispose of bollard lamp properly (electronic waste)

3. Connection and installation

⚠ **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.

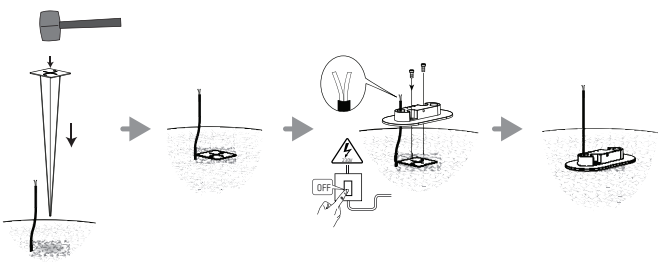


*at 1020907

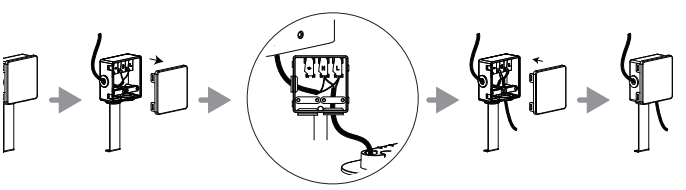
Installation on concrete floor

ⓘ The base plate is supplied without screws

Installation on grass floor

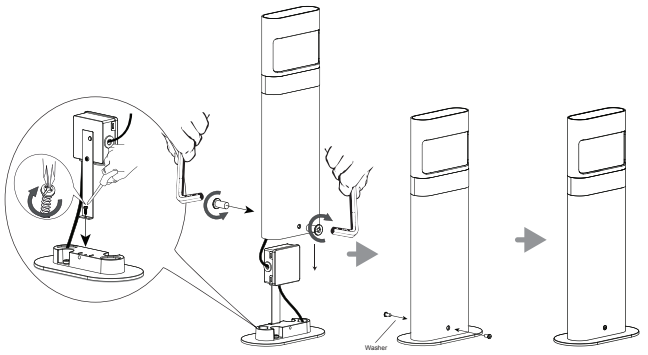


ⓘ Optional with ground spike (9070765)

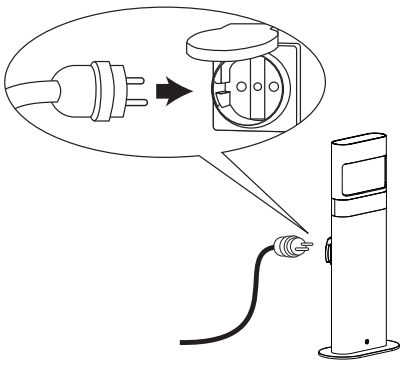


⚠ Use RCCB

➤ Disconnect power source
➤ For mounting on solid ground, screw on the base plate; for mounting on soft ground, use the ground spike (9070765) and attach the base plate on top of it
➤ Take off the cover of the junction box and connect the individual wires to the appropriate terminal
➤ Put the cover on the junction box and plug the bollard lamp over the junction box

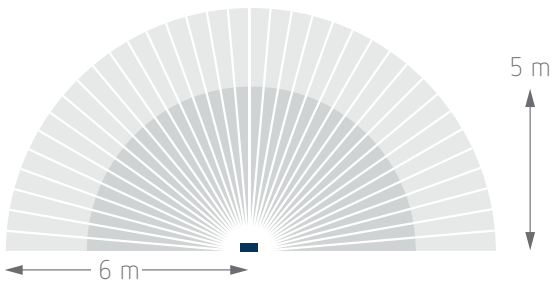


➤ Screw the bollard lamp on the base plate and connect to the mains

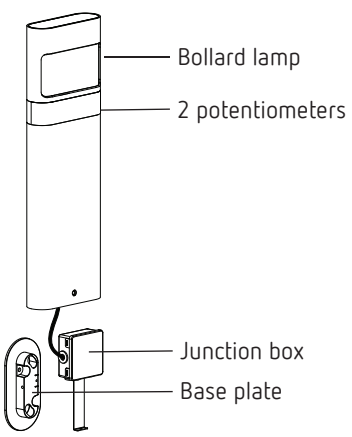


ⓘ The device needs approx. 40 s of preheating time.

Detection area



4. Description



ⓘ The bollard lamp has 2 potentiometers for setting the time (TIME) and brightness (LUX).

5. Setting

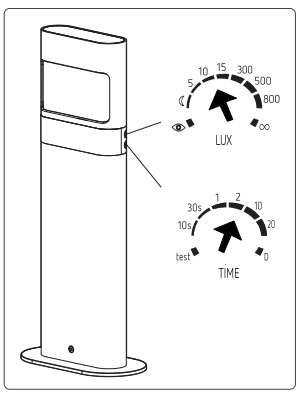
Using the grouping function (setting the wireless channel)

ⓘ The bollard 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.

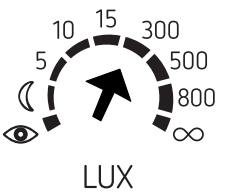
ⓘ The grouping function can be activated with theSenda Plug app and theSenda B remote control (parameter → RF channel)

ⓘ On bollard lamps without motion detector, the wireless channel must be selected via theSenda B remote control and theSenda Plug app for wireless networking.

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

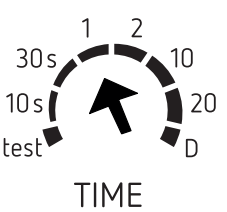


Setting the brightness (LUX)



➤ 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 → the bollard lamp is switched on during darkness (motion detector is disabled)

6. Walking test

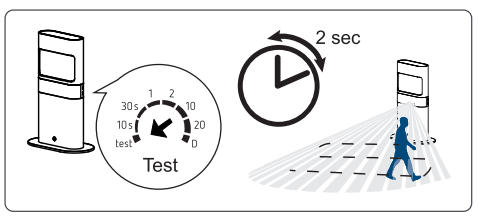
The walking test is used to test the detection area and to restrict it if necessary.

➤ 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.

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

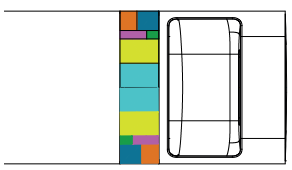
ⓘ The function can be quit with any other function command.

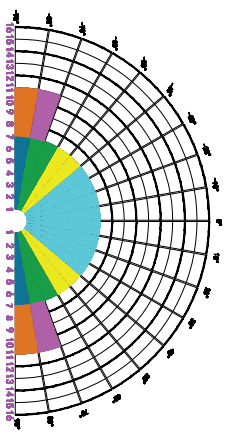


ⓘ The walking test can also be activated in the app (control commands → presence test), or with theSenda P.

7. 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





8. 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.

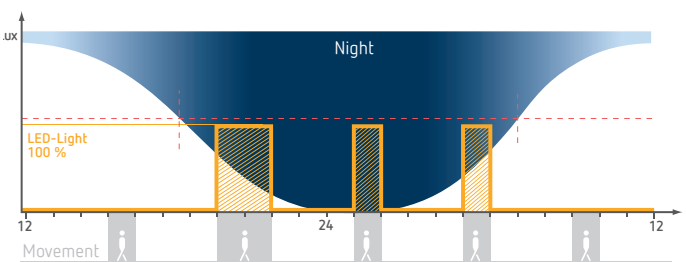
ⓘ If you combine theSenda B remote control with theSenda Plug app, the terms "control commands" and "parameters" appear in the app.

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.

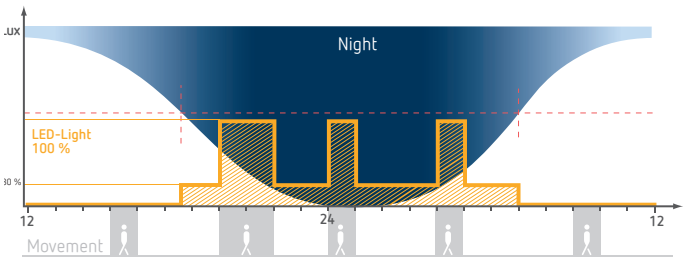
➤ Press button A (Auto) on theSenda P, S, or B remote control
There are 3 ways to select the brightness setpoint and the lighting time delay:
– selection with the app → under parameter → lighting time delay select etc.
– with theSenda P
– or with the potentiometers at the device

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

In auto mode, various additional functions can be activated: orientation light, switching on/off and setting the intensity (10-40%).

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.

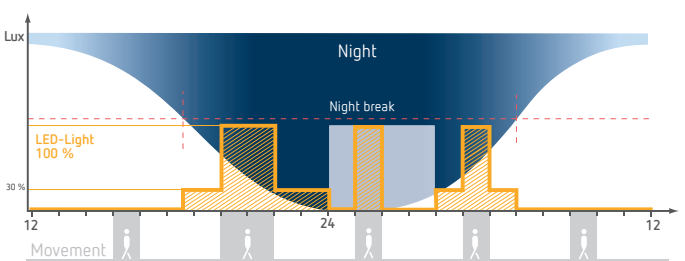
ⓘ Setting only via theSenda B remote control and the app (always 10% – 40%).

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!

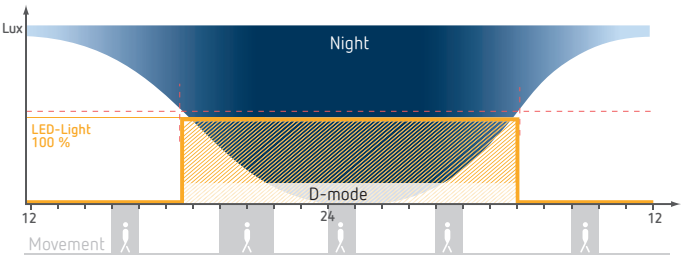
ⓘ Setting only via theSenda B remote control and theSenda Plug app.

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.

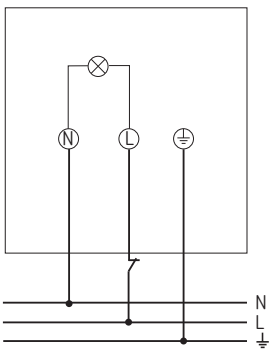
➤ In the app → control commands → select presence simulation, and send

➤ 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 6 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).

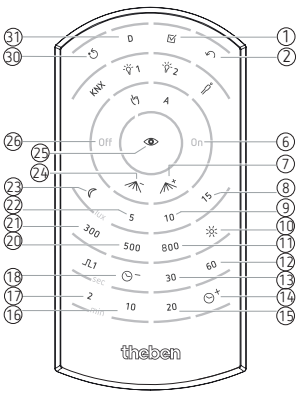
9. Settings with remote control

ⓘ 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:

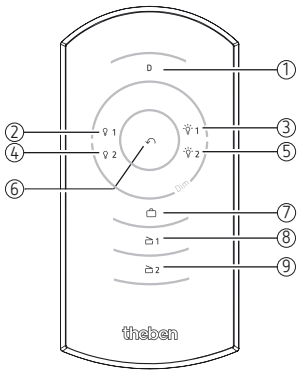


①	Test	Test mode, ends after 10 min
②	Auto	return to Automatic mode
⑥	On	Switch on light*
⑦	Range +	Increase sensitivity
⑧	15 lux	Brightness setpoint value 15 lux
⑨	10 lux	Brightness setpoint value 10 lux
⑩	Lux On	Deactivation of brightness measurement
⑪	800 lux	Brightness setpoint value 800 lux
⑫	60 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)



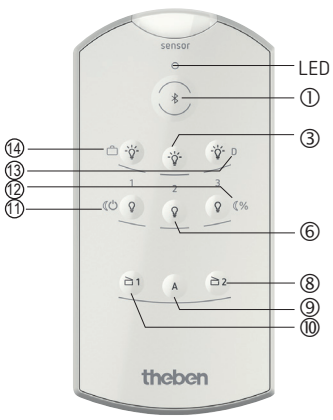
①	D mode	Twilight switch (motion detector deactivated)
②④	Off	short button push → switches off the light*
		long button push → dimming the light down*
③⑤	On	short button push → switches on the light*
		long button push → dimming the light up*
⑥	Auto	return to Automatic mode
⑦	Holiday mode	Presence simulation
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 by 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

10. Technical data

Operating voltage:	230 V AC, + 10% / – 15%
Frequency:	50–60 Hz
Consumption with light On:	8.5 W
Standby output:	max. 0.5 W (with detector)
LED output (luminous flux):	760 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. 6 m max. 5 m
Energy efficiency class:	A+
Height of light source:	364 mm (1020705); 684 mm (1020706)
Torque of fixing screws:	5.1 Nm
Power outlet device (1020907):	230 V AC / 16 A (3680 W); IP 54; protection class I in accordance with EN 60598-1

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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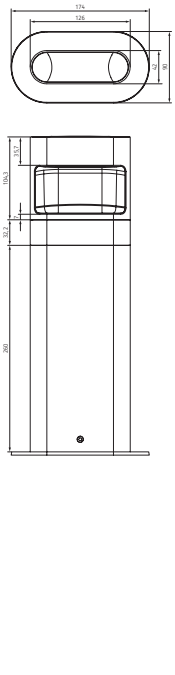
1020905



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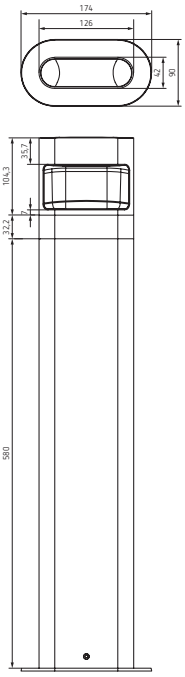

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