ESYLUX

OPERATING INSTRUCTIONS

ALVA BL

ON/OFF
DALI

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BA008894_04	18/03/2026	Chapter 1: Item list updated Chapter 4: Connection description corrected Graphics updated Chapter 5: Information on DALI networking expanded Chapter 7: Inserted Chapter 8: Technical data updated Various error corrections

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1 Introduction

These operating instructions contain detailed information on the functions, commissioning and installation of the device described.

The current document is also available online at www.esylux.com and can be printed out in A4 format.

Read the operating instructions carefully and in full and observe all safety instructions and warnings.

1.1 Manufacturer's address

Address

ESYLUX GmbH & Co. KG
An der Strusbek 40
22926 Ahrensburg, Germany

Website: www.esylux.com
Email: info@esylux.com

1.2 Liability and damages

The product is approved only for the intended use, which is described in the corresponding chapter of these instructions. The device must not be changed, modified or painted – doing so will render any warranty claims void.

Check the device for damage after unpacking. If the device is damaged in any way, return it to the place of sale.

1.3 Product identification

Item number	Item designation
EL10820007	ALVA BL 940/170 TR 360° 1000 830 AN
EL10820021	ALVA BL 940/170 TR 360° 1200 840 AN
EL10820045	ALVA BL 940/170 OP 360° 800 830 AN
EL10820069	ALVA BL 940/170 OP 360° 1000 840 AN
EL10820601	ALVA BL 940/170 TR 180° 600 830 AN
EL10820625	ALVA BL 940/170 TR 180° 700 840 AN
EL10820649	ALVA BL 940/170 OP 180° 500 830 AN
EL10820663	ALVA BL 940/170 OP 180° 600 840 AN
EL10820205	ALVA BL 940/170 TR 360° 1000 830 DALI AN
EL10820229	ALVA BL 940/170 TR 360° 1200 840 DALI AN
EL10820243	ALVA BL 940/170 OP 360° 800 830 DALI AN
EL10820267	ALVA BL 940/170 OP 360° 1000 840 DALI AN

EL10820762	ALVA BL 940/170 TR 180° 600 830 DALI AN
EL10820786	ALVA BL 940/170 TR 180° 700 840 DALI AN
EL10820809	ALVA BL 940/170 OP 180° 500 830 DALI AN
EL10820823	ALVA BL 940/170 OP 180° 600 840 DALI AN
EL10820403	ALVA BL 940/170 TR 360° 1000 830 MD IR DALI AN
EL10820427	ALVA BL 940/170 TR 360° 1200 840 MD IR DALI AN
EL10820441	ALVA BL 940/170 OP 360° 800 830 MD IR DALI AN
EL10820465	ALVA BL 940/170 OP 360° 1000 840 MD IR DALI AN
EL10820922	ALVA BL 940/170 TR 180° 600 830 MD IR DALI AN
EL10820946	ALVA BL 940/170 TR 180° 700 840 MD IR DALI AN
EL10820960	ALVA BL 940/170 OP 180° 500 830 MD IR DALI AN
EL10820984	ALVA BL 940/170 OP 180° 600 840 MD IR DALI AN
EL10820106	ALVA BL 540/170 TR 360° 1000 830 AN
EL10820328	ALVA BL 540/170 TR 360° 1200 840 AN
EL10820304	ALVA BL 540/170 OP 360° 1000 840 AN
EL10820687	ALVA BL 540/170 TR 180° 600 830 AN
EL10820700	ALVA BL 540/170 OP 180° 500 830 AN

1.4 Highlighted information within the text

Orientation aid

To make these user instructions easier to read, certain information is highlighted by different means.

The symbols below have the following meanings:

< >	is used to indicate buttons
Grey	is used to indicate a function
➢	is used to indicate a call to action
✓	is used to indicate results and outcomes of actions

Important and useful additional information on a particular topic

High level of electrical voltage

1.5 Warnings

Warnings are listed at the start of the relevant chapter if there is a risk of a hazardous situation occurring.

Warnings with the signal word "DANGER" refer to situations that could cause personal injury. The signal word "CAUTION" indicates potential damage to property.

The signal words are described in more detail below:

⚠ DANGER!

This signal word denotes a hazard involving a high level of risk. Failure to observe the warning may result in death or serious injury.

⚠ WARNING!

This signal word denotes a hazard involving a moderate level of risk. Failure to observe the warning may result in death or serious injury.

⚠ CAUTION!

This signal word denotes a hazard involving a low level of risk. Failure to observe the warning may result in minor or moderate injury.

CAUTION!

This signal word warns against situations in which failure to observe the notice may result in damage to property.

2 Basic safety information

2.1 Intended use

The ESYLUX ALVA BL series may only be used for the following purposes:

- Outdoor installation by screwing to a foundation or to the ground spike, which is available as an accessory.
- The luminaire is designed to illuminate pathways in gardens or driveways, for example.

To avoid potential hazards, if the cable connected to this luminaire is damaged then it must only be replaced by the manufacturer, or by a service technician or an equally qualified individual who has been commissioned by the manufacturer.

The light source and the driver in this luminaire may only be replaced by the manufacturer, or by a service technician or an equally qualified individual who has been commissioned by the manufacturer.

The luminaire is suitable for through-wiring. Maximum total current at the mains connection terminal: 10 A.

The manufacturer will not accept liability for instances of personal injury or property damage caused by improper use.

2.2 Safety instructions

Specialist personnel!

Electrical devices connected to a 230 V mains voltage may only be installed and commissioned by electrical installation technicians or trained electricians, taking country-specific regulations into account.

⚠ DANGER!

Risk of fatal injury from electric shock!

➢ The following five safety rules must always be observed:

1. Disconnect the power supply
2. Secure the power supply from being switched on again
3. Check that the relevant components have been de-energised
4. Set up the earthing and short-circuiting mechanisms as required
5. Cover or isolate neighbouring live parts

DANGER!

Risk of fatal injury from electric shock through indirect contact!

- Safeguard the circuit with a residual current device (RCD).
- The supply to the DALI interface is not classified as Safety Extra Low Voltage (SELV).
- There is only a single insulation method (basic insulation) between the low voltage and the DALI 1 – 10 V interface. The control devices used must guarantee appropriate protection against electric shock.

CAUTION!

Incorrect connection will destroy the DALI electronic ballast!

- Observe the DALI specifications (IEC 62386)

3 Product description

How it works

The ESYLUX ALVA BL series is intended for outdoor use as a bollard light. The glare-free downward lighting (in the case of variants with a transparent diffuser) with a 180° or 360° beam angle provides optimum illumination of pathways, e.g. in gardens and driveways. The beam angle can be optionally and flexibly restricted using a cover mask (available as an accessory).

The permanently installed LEDs have a low energy requirement.

The ALVA BL luminaire is available in several variants:

ALVA BL luminaire

ALVA BL xxx/170 xx xxx° xxxx xxx ANx

Control via external devices, e.g. on / off light switch.

ALVA BL luminaire with DALI interface

ALVA BL xxx/170 xx xxx° xxxx xxx DALI AN

A DALI interface (Digital Addressable Lighting Interface) optionally integrated into the bollard light makes it possible to receive control telegrams and simultaneously controls all of the luminaires connected within the DALI group.

Control via DALI interface: on / off, dim.

Function	Benefits
Switching the lighting on / off	The luminaire is switched on and off via the DALI interface.
Dimming the lighting	Brightness is reduced or increased via the DALI interface.

ALVA BL luminaire with DALI interface and motion detector

ALVA BL xxx/170 xx xxx° xxxx xxx MD IR DALI AN

Luminaires with an integrated motion detector enable automated and demand-based pathway lighting. The motion detector controls the bollard light when motion is detected, depending on the preset level of brightness. The motion detector can be used as a twilight switch.

The luminaires with motion detectors have an integrated power supply for 2-pin DALI control cables (30 mA). Additional connected DALI bus components, such as the ALVA BL luminaires, can use approx. 16 of the 30 mA.

Potential applications via Mobil-PDi/DALI or ESY-Pen (available as an accessory), parallel wiring (max. 8 pieces); control via DALI interface: on/off, dim

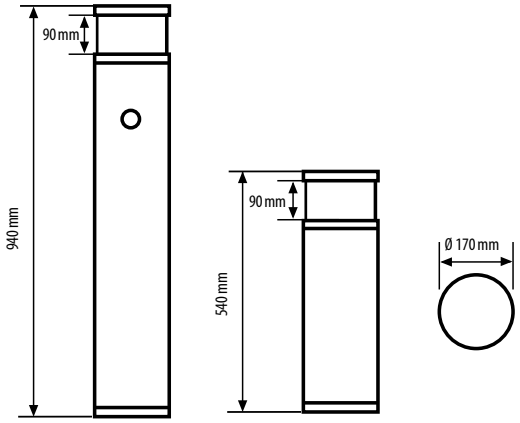
With DALI interface and motion detector

Function	Benefits
Switching the lighting on / off	The luminaire is switched on and off
Motion detector function	The integrated motion detector detects the movement of living beings within its field of detection and switches the luminaire on or off when the lighting conditions change.
Setting the level of brightness	The motion detector switches the lighting on automatically when the level of ambient light is below the configured level of brightness.
Twilight switch function	Lighting is controlled based only on the level of brightness.
Setting the orientation light	Subtle orientation lighting e.g. for entrance areas.
Setting the switch-off delay time for orientation light	Determine the switch-off delay time for the light duration of the luminaire if movement is no longer detected within the field of detection.
Fully automatic mode	Lighting is controlled automatically when movement is detected.
Master circuit / slave circuit	Expand the field of detection of the motion detector.

A detailed description of the function can be found in the "Settings" chapter on page 18

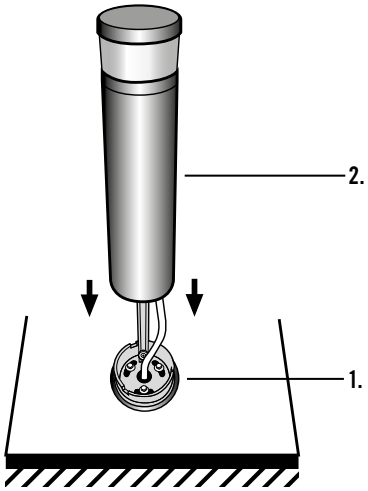
3.1 Mechanical setup

Dimensions



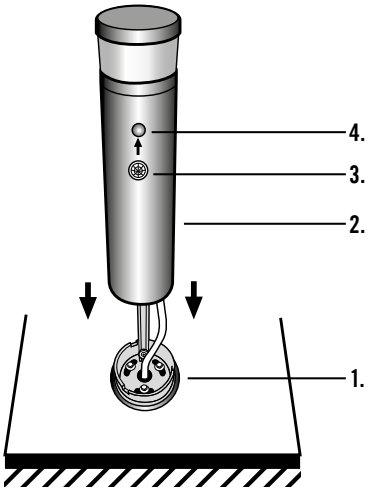
Components

Bollard light with DALI interface or in ON/OFF variant



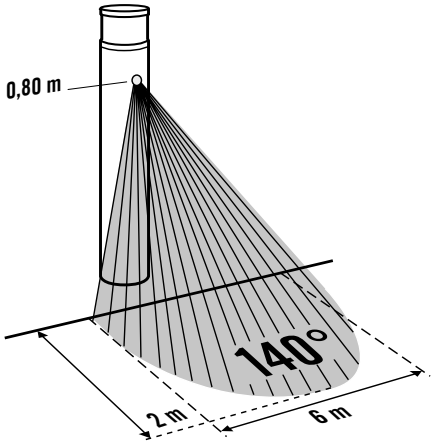
1. Mounting plate
1. Luminaire

Bollard light with DALI interface and motion detector

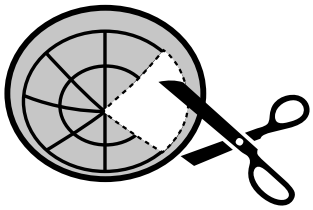


1. Mounting plate
2. Luminaire
3. Lens mask
4. Motion detector

Motion detector: Detection angle and range



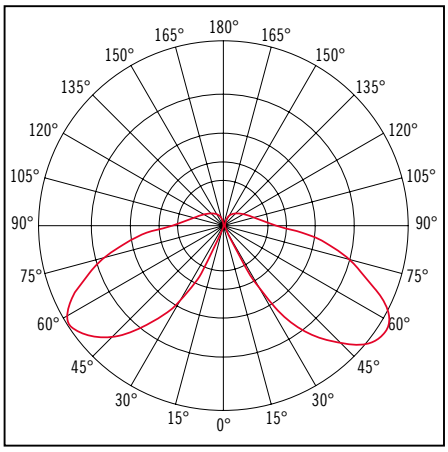
- The detection angle spans approx. 140°.
- The detection range is 6 m diagonally and 2 m head-on.



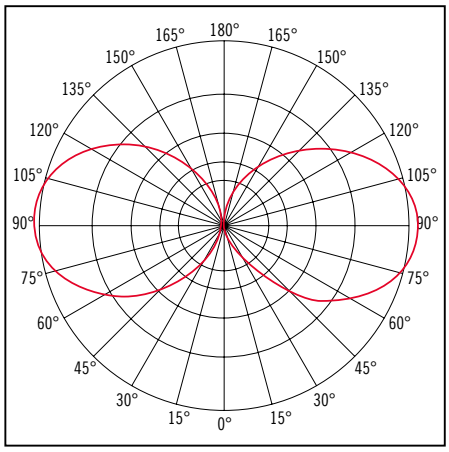
Lens mask for limiting the field of detection

3.2 Light distribution curve

Transparent



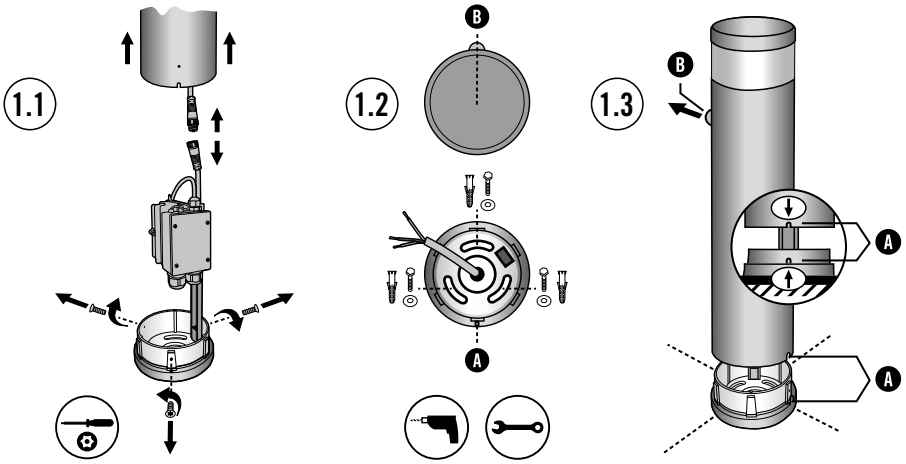
Opal



4 Installation and connection

Proceed as follows to secure the mounting plate:

- Undo the safety screws on the mounting plate and remove them from the luminaire body (1.1). Unplug the connectors from each other (1.1).
- Screw the mounting plate to a foundation or the ground spike (1.2).
- Caution: If the luminaires have a detector, the viewing direction of the detector (B) must be set! Position the mounting plate so that the marking on the mounting plate (A) is on the opposite side of the motion detector (1.2 / 1.3).



Damp concrete has an alkaline effect and prolonged contact can lead to corrosion of the luminaire's aluminium housing.
Install the luminaire on dry concrete only!
Apply a bitumen coating to the installation area!
Drain the installation area!

Connection

Depending on the variant, the luminaires can be connected either individually or in parallel.

DANGER!

Risk of fatal injury from electric shock!

- Switch off the power to the cable.
- Check that the cable is de-energised.

ALVA BL luminaire without motion detector

ALVA BL xxx/170 xx xxx° xxxx xxx AN

Proceed as follows to connect the luminaire:

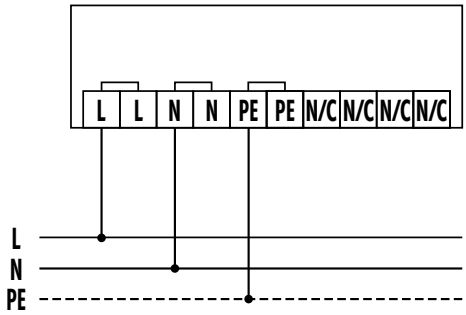
➢ Connect the luminaire as shown in the wiring diagram.

L External conductor 230 V~
N Neutral conductor
PE Earth conductor

Connection terminals

Wiring diagram

A maximum of 40 bollard lights can be looped through.



ALVA BL luminaire with DALI interface
ALVA BL luminaire with DALI interface and motion detector

ALVA BL xxx/170 xx xxx° xxxx xxx DALI AN
ALVA BL xxx/170 xx xxx° xxxx xxx MD IR DALI AN

CAUTION!

Incorrect connection will destroy the DALI electronic ballasts!

➢ Observe the DALI specifications (IEC 62386)

Proceed as follows to connect the luminaire:

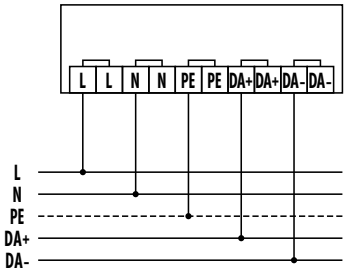
➢ Connect the luminaire as shown in the wiring diagram.

L External conductor 230 V~
N Neutral conductor
PE Earth conductor
DA+ DALI control input
DA- DALI control input

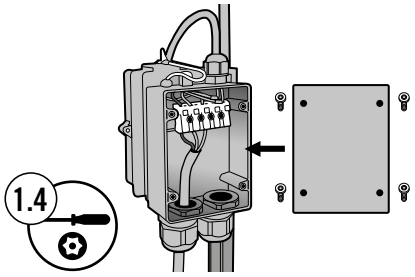
Connection terminals

Wiring diagram

A maximum of 40 bollard lights can be looped through.



➢ Connect as shown in the wiring diagram on the installation box (1.4).



CAUTION!

Do not reverse the polarity of the DALI connections!

The bollard light with motion detector is equipped with an integrated 30 mA power supply for the DALI interface. Additional DALI bus components, such as the ALVA DALI BL luminaires, can use approx. 16 of the 30 mA. The motion detector is a DALI control unit with an integrated DALI interface. There is no need to address the participants/electronic ballasts. All electronic ballasts are addressed at the same time via the broadcast address.

A maximum of eight bollard lights with motion detectors can be connected in parallel to a DALI group.

Connecting DALI actuators

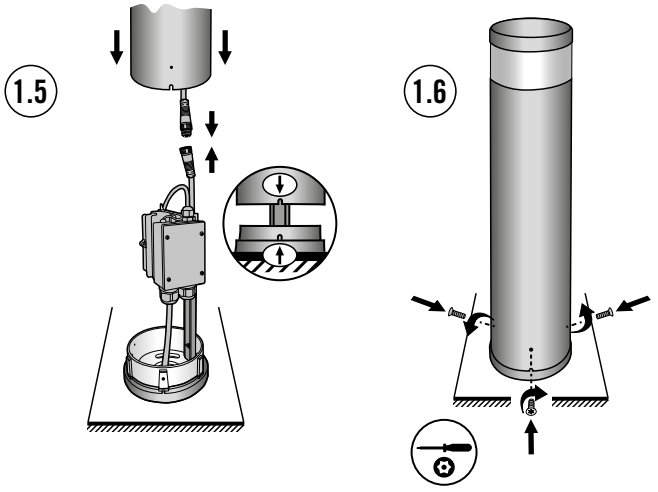
DALI actuators can be connected to the DALI interface. Non-DALI-compatible devices are integrated with DALI actuators, such as ON/OFF wall lights or ON/OFF spotlights.

DALI actuators are accessories. The ACTUATOR FULL AUTO C3 DALI model (item no. EP10427473) is set to fully automatic with a switch-off delay time of 30 minutes by the manufacturer. The ACTUATOR SEMI AUTO C4 DALI model (art. no. EP10427480) is set to semi-automatic with a switch-off delay time of 6 minutes by the manufacturer. The factory settings of both models can be changed using the remote control. Further information about these devices can be found at www.esylux.com.

The DALI actuator switches on as soon as movement is detected – the twilight value is irrelevant.

Proceed as follows to attach the luminaire to the mounting plate:

- ➢ Plug the connectors into each other and move the luminaire body onto the mounting plate (1.5). Make sure that the markings on the luminaire body and on the mounting plate are aligned (1.5).
- ➢ Fasten the luminaire to the mounting plate (1.6) using the safety screws.



4.1 Warm-up phase

With motion detector

Luminaire with motion detector

The warm-up phase starts every time the power is switched on.

Luminaire behaviour during the warm-up phase

- The luminaire switches on.
- The LEDs in the motion detector flash once red, once green and once blue in alternation.
- After approx. 55 seconds, the luminaire is ready for operation and functions in line with the factory settings.

Red LED = light channel, master circuit; green LED = slave circuit; blue LED = programming mode; yellow LED = twilight switch

4.2 Factory settings

With motion detector

The factory settings for the luminaire with integrated motion detector are as follows:

- Level of brightness: 50 lux
- Switch-off delay time for lighting duration: 5 minutes
- Operating mode: Fully automatic
- Orientation light: On (10 %)
- Switch-off delay time for orientation light: 1 minute
- Operation mode: Master

4.3 Normal operating mode

In normal operating mode, the motion detector controls the lighting depending on the lighting conditions and any detected movements.

LED behaviour

The luminaire switches the lighting on:

Prerequisites:

- The level of brightness is not reached

and

- The motion detector detects movement in the field of detection

The luminaire switches the lighting off:

Prerequisites:

- The level of brightness is exceeded

and

- The motion detector does not detect movement in the field of detection

or

- The level of ambient light is above the set level of brightness (delay approx. 15 min)

The motion detector is deactivated if the level of brightness is lower than the level of ambient light.

5 Settings

There are various options available for configuring and controlling the bollard light.

5.1 ALVA BL (ON/OFF)

5.1.1 Switching the lighting on/off

The luminaires are switched on and off using an external switch or separate motion detector.

5.2 ALVA BL with DALI interface

5.2.1 Switching the luminaire on/off and dimming the luminaire

With DALI interface

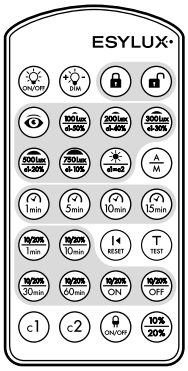
The luminaire is controlled via the DALI interface. DALI control telegrams can trigger the **Switch luminaire on/off** and **Dim luminaire** functions.

5.3 ALVA BL with DALI interface and motion detector

In addition to control via the DALI interface, numerous settings can be made using the remote control.

Mobil-PDi/DALI

The infrared remote control Mobil-PDi/DALI (item no. EP10425899) makes it possible for electrical installation technicians and users to conveniently set various parameters and special functions.
This remote control is available as an accessory.



For optimum reception, point the remote control directly at the detector when programming the settings.

Please note that if the sensor is exposed to direct sunlight, the standard range of approx. 4 m may be reduced due to the sun's infrared rays.

5.3.1 Switching the lighting on/off

The luminaire can be switched via remote control using the **Switch lighting on/off** function.

This function is only temporarily active. The detector returns to the normal operating mode if no movement has been detected in the field of detection and the preset switch-off delay time has elapsed.

Function to be set	Operating steps
Switch on the luminaire	➢ Press the ON/OFF button. ✓ The luminaire is switched on.
Switch off the luminaire	➢ Press the ON/OFF button. ✓ The lighting is switched off.

5.3.2 Activating the twilight switch

The lighting is controlled automatically when the lighting conditions change using the **Activate twilight switch** function. In this mode, the motion detector functions as a twilight switch; the motion detector must have been declared as the master detector beforehand.

Details on how to declare the motion detector as the master detector can be found in the **Master circuit / slave circuit** chapter on page 26.

Activating the twilight switch represents a change in operation mode. After changing operation mode, the luminaire works as defined in the factory settings.

The twilight switch can only be activated via remote control. The twilight value is preset at approx. 50 lux in the factory settings.

If lighting conditions change from dark to light, a delay period of approx. 5 minutes starts to prevent the luminaire from being switched on and off multiple times.

Proceed as follows to switch the lighting on:

Prerequisite:

- The level of ambient light is below the preset level of brightness.

Proceed as follows to switch the lighting off:

Prerequisite:

- The level of ambient light is brighter than the preset twilight switch value for at least 5 minutes.

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head. ✓ The lighting is switched on. During this time, the detector does not respond to movements.
Activating the twilight switch	➢ Press the c1 button, multiple times if necessary, until the yellow LED flashes. ✓ The yellow LED flashes briefly three times in the sensor head. ✓ The twilight switch is now activated.
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved. ✓ The lighting goes out.

5.3.3 Setting the level of brightness

A fixed lux value can be set via remote control using the **Set level of brightness** function, or the current lux value using the eye function.

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head. ✓ The lighting is switched on. During this time, the detector does not respond to movements.

Function to be set	Operating steps
Set level of brightness	➢ Choose between the 100 Lux ct-50% and c1=c2 buttons The level of brightness corresponds to the value on the buttons divided by ten. E.g.: 100 Lux ct-50% button = 10 lux ✓ The red LED flashes briefly three times in the sensor head. The light sensor is deactivated during daytime operation c1=c2.
Set current lux value for level of brightness	➢ Press the button. ✓ The red LED flashes briefly three times in the sensor head.
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved. ✓ The lighting goes out.

5.3.4 Setting the switch-off delay time for lighting duration

The duration for which the luminaires remain on following the last movement can be determined using the **Set switch-off delay time for lighting duration** function.

This time can be set to between 1 minute and 30 minutes via remote control.

Proceed as follows to activate the switch-off delay time:

Prerequisites:

- The level of ambient light is below the preset level of brightness
- The luminaire is switched on by movement
- The motion detector no longer detects any movement in the field of detection

✓ The switch-off delay time for the lighting duration starts

The switch-off delay time starts afresh as soon as new movement is detected in the field of detection.

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head. ✓ The lighting is switched on. During this time, the detector does not respond to movements.
Select switch-off delay time between 1 and 15 minutes	➢ Choose between the 1 min and 15 min buttons ✓ The red LED flashes briefly three times in the sensor head.
Set switch-off delay time for 30 minutes	➢ Press the 15 min button twice in a row ✓ The red LED flashes briefly three times in the sensor head.
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved. ✓ The lighting goes out.

5.3.5 Setting the orientation light

The **Set orientation light** function makes it possible to provide subtle lighting in darkness. The orientation light can be set to between 10 % and 20 % of the maximum illuminance via remote control.

Prerequisites:

- The **Set switch-off delay time for orientation light** function is permanently activated

Proceed as follows to switch the orientation light on:

Prerequisites:

- No movement is detected in the field of detection
- The preset switch-off delay time for the lighting duration has elapsed
- The level of ambient light is below the set level of brightness

✓ The motion detector switches the orientation light on

Proceed as follows to switch the orientation light off:

Prerequisites:

- The level of ambient light is above the set level of brightness

✓ The motion detector switches the orientation light off, despite the detected movement

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head. ✓ The lighting is switched on. During this time, the detector does not respond to movements.
Permanently activate orientation light	➢ Press the 10/20% ON button. ✓ The red LED flashes briefly three times in the sensor head.
Set orientation light between 10 % and 20 %	➢ Press the 10% 20% button. ✓ The red LED flashes briefly three times in the sensor head ✓ The light switches on to 20 % of the maximum illuminance **or** ➢ Press the 10% 20% button again ✓ The red LED flashes briefly three times in the sensor head ✓ The light switches on to 10 % of the maximum illuminance
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved ✓ The lighting goes out

5.3.6 Setting the switch-off delay time for orientation light

The **Set switch-off delay time for orientation light** function provides the option of switching on the pathway lighting permanently or for a limited period of time.

This time can be set to between 1 minute and 60 minutes via remote control.

Proceed as follows to activate the switch-off delay time:

Prerequisites:

- The orientation light has been activated via remote control
- The level of ambient light is below the preset twilight switch value
- No movement is detected in the field of detection

✓ The orientation light is switched on

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head. ✓ The lighting is switched on. During this time, the detector does not respond to movements.
Set switch-off delay time for orientation light to between 1 and 60 minutes	➢ Choose between the 10/20% 1min and 10/20% 60min buttons ✓ The red LED flashes briefly three times in the sensor head.
Permanently deactivate orientation light	➢ Press the 10-20% OFF button. ✓ The red LED flashes briefly three times in the sensor head.
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved ✓ The lighting goes out

5.3.7 Fully automatic mode

In **Fully automatic mode**, the motion detector switches the luminaire on and off automatically when movement is detected, depending on the preset level of brightness.

This function is activated as a factory setting.

The luminaire is automatically switched on:

Prerequisites:

- The level of ambient light is below the preset twilight value
- The motion detector detects movement in the field of detection

✓ The motion detector switches the lighting on

The luminaire is automatically switched off:

Prerequisites:

- The level of ambient light is above the preset level of brightness

or

- The level of ambient light is below the preset level of brightness and movement is no longer detected in the field of detection
- The preset switch-off delay time for the lighting duration has elapsed

✓ The motion detector switches the lighting **off** or switches the orientation light **on**, if the orientation light is activated.

Details on how to activate the orientation light can be found in the **Setting the orientation light** chapter on page 22.

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head ✓ The lighting is switched on During this time, the detector does not respond to movements
Activate fully automatic mode	➢ Press the A/M button. ✓ The red LED flashes briefly three times in the sensor head.
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved ✓ The lighting goes out

5.3.8 Master circuit / slave circuit

Targeted action can be taken to expand the motion detector's field of detection using the **Master circuit / slave circuit** function. Bollard lights with motion detectors switched in parallel can be declared as the master detector or slave detector using the integrated DALI interface.

A motion detector declared as the master detector measures the level of ambient light and detects movements on an ongoing basis. The slave detector only detects movement.

If the twilight switch value is not reached, the master detector switches the orientation light on, if the orientation light is activated. If the twilight

switch value is not reached and movement is detected, the master detector switches the lighting on.

The switch-off delay time can only be set on the master detector. For this reason, this device should be installed in the darkest location, e.g. under a tree.

If movement is detected, the slave detector sends an ON control telegram to the master detector every 30 seconds. The master detector switches the lighting on in the case of all DALI luminaires connected via the DALI bus and the switch-off delay time starts afresh.

The master detector reads from DALI address 15; the slave detectors write to DALI address 15. The addresses are fixed and cannot be changed.

This function can only be activated via remote control.

A maximum of one bollard light may be operated as the DALI master in a DALI bollard light network. All other bollard lights with motion detectors must be switched from master mode to slave mode via remote control. Perform this change during commissioning, as malfunctions may occur if multiple masters are active in a DALI bollard light network (factory setting: master mode).

A maximum of eight bollard lights with motion detectors can be connected in parallel to a DALI bollard light network. Activating the master or slave function represents a change in operation mode. After changing operation mode, the luminaire works as defined in the factory settings.

Setting/control via Mobil-PDi/DALI infrared remote control (item no. EP10425899)
Parameterisation and control via ESY-Pen (item no. EP10425356) using the free ESY Control app

Proceed as follows to switch the lighting on:

Prerequisites:

- The level of ambient light is below the preset twilight switch value
- ✓ The orientation light is switched on, if activated
- The slave detector or master detector detects a movement
- ✓ The master detector switches the luminaires on

Proceed as follows to extend the switch-off delay time:

Prerequisites:

- The lighting is switched on
- At least one of the slave detectors or the master detector detects movement

✓ The switch-off delay time starts afresh

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head ✓ The lighting is switched on During this time, the detector does not respond to movements
Declare detector as slave	➢ Press the c2 button. ✓ The green LED flashes briefly three times in the sensor head.
Declare detector as master	➢ Press the c1 button. ✓ The red LED flashes briefly three times in the sensor head.
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved ✓ The lighting goes out.

5.3.9 Further settings via remote control

LED feedback

Switching LEDs on / off

The LEDs integrated in the sensor head indicate the status of the motion detector. This function can be switched on / off via remote control.

The red LED flashes when movement is detected in the field of detection or when a command is received from the remote control. The blue LED lights up when the detector is in programming mode.

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head. ✓ The lighting is switched off. During this time, the detector does not respond to movements.
Switch LEDs off	➢ Press the ON/OFF button. ✓ The function is applied. ✓ The blue LED in the sensor head is deactivated for approx. 3 seconds.
Switch LEDs on	➢ Press the ON/OFF button. ✓ The function is applied. ✓ The blue LED in the sensor head flashes for approx. 3 seconds.
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved.

Reset

All settings applied can be cleared using the **Reset** function. The detector reverts to the factory settings with which it was delivered.

Function to be set	Operating steps
Enter programming mode	➢ Press the button. ✓ The blue LED lights up in the sensor head. ✓ The lighting is switched off. During this time, the detector does not respond to movements.
Restore factory settings	➢ Press the RESET button ✓ The function is applied. ✓ The blue and red LEDs in the sensor head flash alternately.

Function to be set	Operating steps
Exit programming mode	➢ Press the button. ✓ The blue LED goes out. ✓ The settings are saved. ✓ After approx. 30 seconds, the luminaire is ready for use and functions in line with the factory settings.

6 Parameterisation via ESY-App with ESY-Pen

First, the parameters are changed in the ESY-App. The ESY-Pen serves as a bridge to transmit the Bluetooth commands from the mobile device to the motion/presence detector using infrared technology.

The infrared interface is located in the head of the ESY-Pen. When communicating between the ESY-Pen and product, the head of the ESY-Pen must point in the direction of the product. While an infrared signal is being sent, the on/off button flashes red or green (depending on selection). It is not possible to transfer parameters from the product into the ESY-App. The communication between the ESY-Pen and the product is unidirectional.

Parameterisation is also possible using the ESY-App with ESY-Pen (item no. EP10425356).

For optimal signal transmission, adhere to the minimum distance corresponding to the installation height. Direct sunlight may interfere with signal transmission.

Communication: smartphone –> ESY-Pen –>motion/presence detector

It is not possible to transfer parameters from the motion detector into the ESY-App. The communication between the ESY-Pen and the motion detector is unidirectional.

6.1 Installing the ESY-App

The free ESY-App is available in the Google Play Store and Apple App Store for the following mobile devices:

- Apple devices with operating system iOS 12.5.5 or above
- Android devices with Android version 8.0 or above

➢ Scan the QR code to download the ESY-App.

Add your product to the ESY-App product list when using it for the first time so that you can parameterise your product.

➢ Start the ESY-App.

➢ Press the **< Select and parameterise products >** button

➢ Press the **< Add product >** button and select your product using the search function or by scanning the barcode on your product.

✓ Your product appears in the product list.
✓ Parameters can be configured.

To transfer the changed parameters to the device, you need to connect the ESY-Pen to your mobile device via Bluetooth.

6.2 Connecting the ESY-Pen to the ESY-App

1. Switch on the ESY-Pen.

➢ Press the **< On / off button** ⏻ **>** for two seconds.

✓ The **< On / off button** ⏻ **>** lights up red.
✓ Both **< Function buttons** ☼ **+** ☼ **>** light up white when it is switched on.

2. Activate Bluetooth® on your mobile device.

3. Start the ESY-App.

➢ At the bottom of the start page, select the **< No connection >** button.
➢ Select your ESY-Pen **< ESY-Pen xxxxxx >** from the list.
➢ Enter the security PIN when requested.

✓ After connecting successfully, your **< ESY-Pen xxxxxx >** is listed at the bottom of the start page.
✓ The ESY-Pen is ready for use.

If no ESY-Pen (ESY-Pen Vx.x xxxx) is listed, swipe down to update the list.
You can find the name and security PIN of your ESY-Pen on the identification label on the device.

7 Maintenance

The luminaire does not contain any components that require maintenance. The device can only be replaced as a complete unit.

7.1 Cleaning

CAUTION!

Using incorrect cleaning products will damage the device!

➢ Use a lint-free cloth that is either dry or dampened with water.

7.2 Troubleshooting

Resolving problems

Fault	Cause
Lighting is off	• Level of ambient light is above the preset level of brightness. • Lighting has been switched off manually. • The switch-off delay time has been set too short.
Lighting is switched off during the hours of darkness despite the presence of persons.	• Level of ambient light is above the preset level of brightness. • Lighting has been switched off manually.
Lighting does not switch off or lighting switches on spontaneously when no persons are present.	• The switch-off delay time has not yet elapsed. • False alarm caused by animals or other environmental influences such as leaves moving in the field of detection.

Fault	Cause
Detector does not respond.	• Check the power supply.

8 Technical data

Mains voltage	Nominal voltage	230 V~
	Power consumption	max. 17 W
	In-rush current	max. 13 A
	Power consumption	max. 80 mA
Settings	Remote control	MobiI-PDi/DALI
Motion detector	Switch-off delay time	approx. 1 min – 30 min
	Level of brightness	approx. 10 lux – day-time operation
	Orientation light	10 % – 20 %
	Switch-off delay time, orientation light	approx. 1 min – 60 min
	Power consumption	0.2 W
	Detection angle	140°
	Detection range tangential	max. 6 m
Interface	ALVA BL xxx/170 xx xxx° xxxx xxx MD IR **DALI** AN	DALI
	ALVA BL xxx/170 xx xxx° xxxx xxx **DALI** AN	
Color Rendering Index		CRI > 80
Light emission	ALVA BL xxx/170 xx **180**°	180°
	ALVA BL xxx/170 xx **360**°	360°
Light colour	ALVA BL xxx/170 xx xxx° xxxx **830**	3100 K
	ALVA BL xxx/170 xx xxx° xxxx **840**	4100 K

Luminous flux	ALVA BL xxx/170 TR / OP **830**	
	Transparent 180°/360°	approx. 760 lm/approx. 1270 lm
	Opal 180°/360°	approx. 620 lm/approx. 1030 lm
	ALVA BL xxx/170 TR / OP **840**	
	Transparent 180°/360°	approx. 810 lm/approx. 1350 lm
	Opal 180°/360°	approx. 630 lm/approx. 1050 lm
Beam angle	Transparent	159°
	Opal	283°
Temperature range	Operation	-25 °C – +40 °C
Protection class		I
Protection type		IP 65
Terminal		2.5 mm²/1.5 mm²
Height	ALVA BL 540/170	540 mm
	ALVA BL 940/170	940 mm
Diameter		Ø 170 mm
Colour	graphite grey	similar to RAL 7024

9 EU Declaration of Conformity

CE declaration

The product complies with the following directives:

- EMC 2014/30/EU
- LVD 2014/35/EU
- RoHS 2011/65/EU
- Ecodesign 2009/125/EC

If the product is modified or expanded without our prior consent, this declaration is no longer valid for this product.

10 Disposal

This device must not be disposed of as unsorted residual waste. Owners are required by law to correctly dispose of used devices. Contact your local town council for more information.

11 ESYLUX manufacturer's warranty

ESYLUX manufacturer's warranty at www.esylux.com.