

1. General information

- Passive infrared presence detector for ceiling installation
- 2 operating modes for lighting channel, switchable:
 - 1 DALI broadcast lighting channel (factory setting) or
 - 2 DALI addressable lighting channels
- 2 separate detection zones
- Rectangular detection area (max. 30 m x 5 m/150 m²)
- Switch or constant light control mode with standby function
- Mixed light measurement suitable for fluorescent lamps (FL/PL/ESL), halogen/incandescent lamps and LEDs
- Adaptable 2-channel light measurement
- Fully or semi-automatic operation, switchable
- Reduction of time delay when present briefly (short-term presence)
- 1 presence channel for external DALI relay, e.g. for HVAC control
- Accessories: SendoPro 868-A management remote control (optional) (SendoPro for short); theSenda S user remote control (optional) (theSenda S for short); the-Senda P service remote control (optional) (theSenda P for short); theSenda B app remote control (optional) and the corresponding "theSenda Plug" app (iOS/Android) (theSenda B/app for short)

2. Safety



Assembly and installation should only be carried out by a qualified electrician, somebody who has completed appropriate professional training and has the knowledge and experience necessary to be able to recognise and avoid the potential dangers posed by electricity.



Before assembly/dismounting, disconnect the power supply and ensure that the parts are no longer live.



Read the entire manual and follow the instructions. Prior to commissioning and using the product, read the operating instructions.

3. Proper use

- The presence detector is used in passageways, staircases, garages, basements and warehouses for controlling the lighting and HVAC.
- The presence detector is intended for indoor installation.

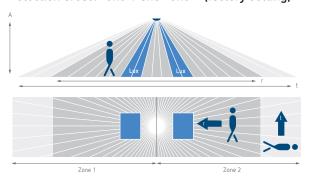
4. Installation

Detection area

- The rectangular detection area enables the entire corridor to be covered.
- The detection area is divided into two zones. These can be activated or deactivated individually by remote control (only with 1 DALI broadcast lighting channel).
- ⊕ Recommended installation height: 2.0 m − 6.0 m.

 The sensitivity of the presence detector decreases when
 the installation height is increased. From a installation
 height of 3.5 m, the detection areas of several detectors in
 the edge zones should overlap.
- The detection range is reduced as the temperature increases.
- ① The detection area is divided into different areas based on the walking direction (frontal/across).

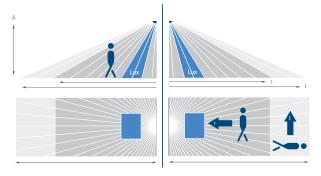
Detection areas: zone 1 and zone 2 (factory setting)



Installation height (A)	Walking persons frontal (r)	Walking persons across (t)
2.0 m	16 x 3.5 m (56 m ²)	16 x 3.5 m (56 m ²)
2.5 m	18 x 4 m (72 m ²)	22 x 4 m (88 m²)
3.0 m	20 x 4.5 m (90 m ²)	30 x 4.5 m (135 m ²)
3.5 m	20 x 5 m (100 m ²)	30 x 5 m (150 m ²)
4.0 m	20 x 5 m (100 m ²)	30 x 5 m (150 m ²)
4.5 m	20 x 5 m (100 m ²)	30 x 5 m (150 m ²)
5.0 m	20 x 5 m (100 m ²)	30 x 5 m (150 m ²)
5.5 m	20 x 5 m (100 m ²)	30 x 5 m (150 m ²)
6.0 m	20 x 5 m (100 m ²)	30 x 5 m (150 m ²)

All figures are guidance values.

Detection areas: zone 1 or zone 2

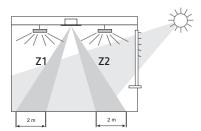


Installation height (A)	Walking persons frontal (r)	Walking persons across (t)
2.0 m	8 x 3.5 m (28 m ²)	8 x 3.5 m (28 m ²)
2.5 m	9 x 4 m (36 m ²)	11 x 4 m (44 m ²)
3.0 m	10 x 4.5 m (45 m ²)	15 x 4.5 m (68 m ²)
3.5 m	10 x 5 m (50 m ²)	15 x 5 m (75 m ²)
4.0 m	10 x 5 m (50 m ²)	15 x 5 m (75 m ²)
4.5 m	10 x 5 m (50 m ²)	15 x 5 m (75 m ²)
5.0 m	10 x 5 m (50 m ²)	15 x 5 m (75 m ²)
5.5 m	10 x 5 m (50 m ²)	15 x 5 m (75 m ²)
6.0 m	10 x 5 m (50 m ²)	15 x 5 m (75 m ²)

All figures are guidance values.

Brightness measurement

The presence detector measures artificial light and daylight by means of two directed light measurements. Light measurement Z1 measures the brightness in zone 1. In zone 2, light measurement Z2 measures the brightness. The alignment of both brightness measurements has to be taken into account during installation. The installation location is the reference point for the lighting level. The brightness measurement can be adapted to the conditions in a room with the room correction factor.



Each light measurement zone maps a rectangle of about 2 \times 4 m on the floor. Depending on the operating mode and the selected detection zone, the light measurements are assigned as follows:

1-channel (broadcast):

Selection of detection zone	Lighting channel	Light measuring zone		
Only zone 1	Channel C1 - light	Zone 1		
Only zone 2	Channel C1 - light	Zone 2		
Zone 1 + zone 2	Channel C1 - light	Ø from zone 1 + zone 2		

2-channel (addressable):

Lighting channel	Light measuring zone		
Channel C1 - light	Zone 1		
Channel C2 - light	Zone 2		

- ① The alignment of both zone 1/zone 2 brightness measurements must be taken into account!
- Direct light influences the light measurement. Avoid placing floor lamps or suspended lighting directly under the detector.

Constant light control

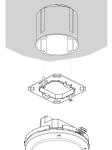
The detector must be positioned in such a way that it only detects artificial light that it controls itself. Artificial light controlled by other detectors (or manually switched working lights) will affect the brightness measurement of the detector.

Switching mode

If the brightness measurement is deactivated, the lighting only switches based on the presence detection function (brightness setpoint value is set to «Measurement off» via the remote control).

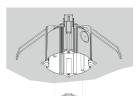
Flush-mounted installation

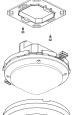
with standard flush-mounting box, size 1



Ceiling installation

with ceiling installation box 73A (9070917), for installation diameter 72 mm (\emptyset 73 mm)







Surface-mounted installation

with back box 110A (9070912, 7070913)









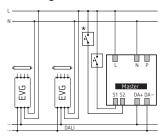
5. Connection

Use the same external conductor for all detectors and buttons.

- ① Several buttons can be connected to one control input.
- ① Illuminated buttons can only be used with a neutral conductor connection.
- ① Up to 50 DALI operating devices can be connected to each master device. Distribute the DALI operating devices evenly over the 3 external conductors.
- ① In the addressable operating mode, lighting channels C1 and C2 can be assigned to the required button inputs S1 and S2 via the remote control.

Individual switching

 As master, the presence detector detects presence and brightness and controls lighting.

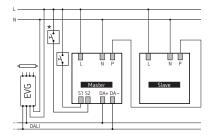


*Only for the "addressable" operating mode

Master/slave parallel switching

- If the detection area of a single presence detector is insufficient (spacious rooms), a maximum of 10 detectors can be connected in parallel by connecting the P terminals.
- Presence is detected collectively by all the detectors.
- The master measures the brightness, processes the button information and controls the lighting.

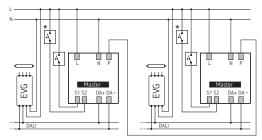
• The other detectors (slaves) merely provide presence information (e.g. the Passa P360 Slave UP).



*Only for the "addressable" operating mode

Master/master parallel switching

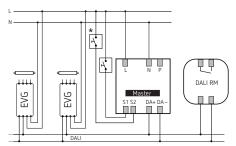
- Several masters can be used. Every master controls its lighting groups according to its own brightness measurement.
- Time delays and brightness setpoint values are set individually on each master.
- Presence is detected collectively by all the detectors.
- Switch up to 10 detectors in parallel.



*Only for the "addressable" operating mode

Integrating an external DALI relay

- No more than 1 external DALI relay can be connected on one single DALI line (IEC 62386-208).
- The detector automatically detects the DALI relay.
- Switch-on delay and time delay can be set using the remote control.



*Only for the "addressable" operating mode

6. Start-up

Initial operation of the Passa P360-111 DALI (broadcast) \rightarrow factory setting

After the start-up phase (30 s), the detector is ready for operation.

Initial operation of the Passa P360-221 DALI (addressable), unconfigured system

- ➤ The operating mode can be switched from broadcast to addressable with the SendoPro remote control or the the-Senda B/app:
- ➤ Select the <thePassa P360-111 DALI> parameter as the detector type.
- ➤ Open the DALI configuration ("Control commands" menu in the SendoPro).
- ➤ Send the <Change over to addressable operating mode> parameter to the detector.
- ➤ After the changeover, select <thePassa P360-221> as the detector type for further parameterization.

After the first changeover to the addressable operating mode (thePassa P360-221 DALI), the detector restarts, identifies all connected DALI lights, assigns short addresses and manages them in a list.

→ Depending on the system size, the LED on the detector flashes (5 x ON briefly every 3 s) for up to 3 min.

If no DALI EBs are connected to the detector or a DALI line is interrupted

→ the LED flashes (LED is switched on and flashes 2 x OFF briefly every 3 s).

If the system is functioning, the detector switches to configuration mode and waits for the configuration of the lighting groups.

 \rightarrow The LED flashes (2 x ON briefly every 3 s).

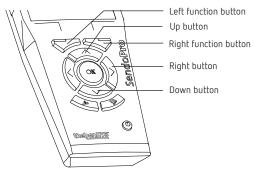
As long as the configuration has not been carried out, the system is in the following operating state:

- Detector is in broadcast mode.
- Function is in switching mode (only presence detection, no light measurement).
- All lights are controlled with 100% switch-on dimming value.
- The operating mode is fully automatic device.
- All connected buttons are active. Switching on and off as well as dimming are possible.
- Time delay: 10 min.

Configuring the lighting groups with

- SendoPro
- theSenda B/app
- Buttons or theSenda S

Configuring the lighting groups with SendoPro



- ➤ Select "thePassa P360-221 DALI" as the type in the SendoPro.
- ➤ Select "Menu" (right function button) then "Control commands" (left function button).
- ➤ Open "DALI configuration" with "Open" (right function button).

For the DALI configuration, there are 3 options available:

- "Group assignment (unaddress.)": only DALI EBs without a group address are processed.
- "Group assignment (all)": all connected DALI EBs are configured. NOTE: All existing group assignments with group number 1 or 2 are deleted.
- "Change group assignment": the next existing EB is searched for and selected.
- ➤ Use the Up or Down button to select the required group assignment and press "Send" (right function button) to start the configuration.
- ① The remote control must be directed to the detector! The LED is switched off.
 - \rightarrow A DALI light starts to pulse (random order).
- ➤ Select the required C1 or C2 channel with the button and assign it to the DALI EB by pressing "Send" (right function button).
 - \rightarrow As confirmation, the light dims to 20%.
 - → The next DALI light starts to pulse. One after the other, the lighting groups are assigned to all the lights.
 - For group assignment (unaddress.) or (all): if all DALI EBs are assigned to a lighting group, the detector terminates the configuration process and restarts (startup phase of 30 s). The detector then switches to the normal operating mode and the configuration is completed.
- ① If necessary, the configuration process can be ended by pressing "End" (left function button).
 - \rightarrow In this case, the system is not ready for operation.
 - If "Change group assignment" has been selected, use the right ">" button to switch to the next DALI EB without changing the lighting group.
- ➤ When all required changes have been made, end the configuration process by pressing "End" (left function button).

Configuring the lighting groups with the theSenda B/app

- ➤ Connect the theSenda B with the corresponding "theSenda Plug" app.
- ➤ Place the theSenda B under the detector (direct the remote control towards the detector).
- ➤ Select "thePassa P360-221 DALI" as the type in the "the-Senda Plug" app.
- ➤ In the "DALI configuration" menu, select the required group assignment.

For the DALI configuration, there are 3 options available:

- "Group assignment (unaddress.)": only DALI EBs without a group address are processed.
- "Group assignment (all)": all connected DALI EBs are configured. **NOTE**: All existing group assignments with group number 1 or 2 are deleted.
- "Change group assignment": the next existing EB is searched for and selected.
- → After selecting the required group assignment, the detector is in the programming mode.
- \rightarrow A DALI light starts to pulse (random order).
- ➤ Use <a> to assign the required C1 or C2 channel to the DALI FB
- ➤ For further steps, see "Configuring the lighting groups with SendoPro".

Configuring the lighting groups using buttons

- ➤ Set the <Configuration button/RC> parameter to "Enabled". All connected buttons can be used for the configuration.
- ➤ Press any button 5 times briefly (< 0.4 s) and press and hold once (> 15 s).
 - \rightarrow The LED is switched off.
 - \rightarrow A DALI light starts to pulse (random order).
 - → The lighting group is assigned by pressing the appropriate button:
 - 1 x short button press = channel C1
 - 2 x short button press = channel C2
 - → As confirmation, the light dims to 20% (3 s after the last button press).
 - → The next DALI light starts to pulse. One after the other, the lighting groups are assigned to all the lights.
 - If all DALI EBs are assigned to a lighting group, the detector terminates the configuration process and restarts (startup phase of 30 s).
 - → The detector switches to the normal operating mode and the configuration is completed.
- ① If required, the configuration process can be ended by pressing and holding any button for longer than 15 s. The detector restarts.
 - \rightarrow In this case, the system is not ready for operation.
- ① Instead of using the button, the configuration can also be carried out with the ON/OFF buttons on the theSenda B/S.

Checking the configuration

The assignment of the lighting groups can be checked by switching the individual lighting groups on or off using buttons, the SendoPro remote control or the theSenda B/app (for SendoPro/theSenda B (app), select the "Control commands" menu).

- ① Changing the lighting group for DALI EBs: use the Sendo-Pro or the theSenda B/app to change the DALI configuration via the "Change group assignment" command.
- With the button: the whole DALI configuration must be re-executed.
- ① A video on configuring the lighting groups can be found at https://www.youtube.com/user/TheThebenAG

Switch-on response (configured system)

If voltage is applied, the presence detector goes through two phases which are indicated by the LED:

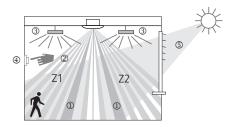
1. Start-up phase (30 s)

- The red LED flashes in one-second intervals; the lighting is switched on with the switch on dimming value.
- The detector does not react to button commands or to the theSenda B/S.
- If absent, the lighting is switched off after 30 s.

2. Operation

- The red LED is off. The constant light control or switching mode are started.
- \rightarrow The detector is ready for operation.

7. Functions



- ① Mixed light measurement
- ② Presence detection
- 3 Artificial light
- Button for manual lighting control
- ⑤ Incident daylight

Lighting channel C1 (broadcast) Lighting channel C1, C2 (addressable)

The lighting is controlled by presence and brightness. In case of little daylight and presence, the artificial light is switched on via the DALI interface and regulated to a constant brightness level.

In case of sufficient daylight or absence, the lighting is switched off via the DALI interface.

Constant light control

- It compensates for daylight fluctuations by controlling the lighting.
- The total brightness is kept constant at the required brightness level.
- The lighting is switched on with the switch on dimming value and regulated to the set brightness setpoint value.
- Depending on the "school" or "office" configuration type, the presence detector responds as follows after manual dimming using the buttons:
 - "School" configuration type (in school and conference rooms):
 - Manual dimming stops the constant light control.
 - When someone is present, the lighting remains at the dimmed value (no brightness influence).
 - Switching off and on again leads to control mode.

- "Office" configuration type (in single and open-plan offices):
 - After manual dimming, the constant light control remains temporarily active with the current brightness value as the new brightness setpoint value.
 - The new brightness setpoint value only applies while someone is present.
 - After the lighting time delay, the set brightness setpoint value is restored.

Switching mode

- The switching response is controlled by presence and brightness.
- The lighting channel switches on in darkness and when someone is present. The lighting switches off if there is sufficient brightness or during periods of absence after the set lighting time delay.
- The light is switched on with the switch-on dimming value.
- The button can be used to change the intensity of the artificial light when someone is present. If the lighting is switched on with the button, it remains switched on for at least 30 min. If people have left the room (before), the lighting switches off after the set time delay.

Standby (orientation light)

- After the lighting time delay, the lighting is set to the standby dimming value (1-25% of the lamp output).
- The standby time can be set between 0 s and 60 min or permanently.
- If the room brightness is above the brightness setpoint value, the lighting switches off. If the room brightness is below the brightness setpoint value, the lighting switches to the standby brightness. If someone reenters the room, the detector switches back automatically (fully automatic device) or after pressing the button (semiautomatic device) to the set brightness setpoint value.

Lighting time delay

- The minimum time delay (10 s 60 min) is adjustable and can increase to max. 30 min or decrease back to the set minimum time.
- With settings ≤ 2 min or ≥ 30 min, the time delay remains unchanged at the set value. If someone briefly enters and leaves an unoccupied room within 30 s, the lighting switches off early after 2 min (short-term presence).

Button control

- The lighting can be switched or dimmed manually via a button
- A short button press switches the light on or off; a long button press dims the light (brighter or darker).
- If the lighting is switched off manually, it remains switched off as long as people are present. The lighting switches on again after the time delay has elapsed.

Fully or semi-automatic device

- Fully automatic device: the lighting is switched on and off automatically.
- Semi-automatic device: the lighting must be switched on manually. It is switched off automatically.

Staircase light function

- If the staircase light function is activated, the detector is used as a staircase automatic device. It is not possible to switch the lighting off manually.
- If the staircase light function is deactivated, the lighting can be switched on and off manually.

eco and eco plus

Settings for ideal switching response and maximum energy savings.

8. Settings

The thePassa P360-221 DALI presence detector features two different operating modes:

- Broadcast (factory setting)
- Addressable

Both operating modes can be selected with the SendoPro or the theSenda B/app.

Parameter	Selection	
Туре	thePassa P360-111 DALI (broadcast)	
	thePassa P360-221 DALI (addressable)	

- The presence detectors are supplied with basic settings ready for operation.
- With SendoPro and the theSenda B/app, parameters can be checked, adjusted and optimised during start-up.
- With the theSenda P, parameters can only be adjusted.

Broadcast < the Passa P360-111 DALI>

Teach-in via button

- ➤ Press the button for > 15 s
 - → The currently measured brightness value is adopted as the brightness setpoint value.
- The teach-in function via the button can be disabled using the SendoPro or the theSenda B/app remote controls when the "Configuration button/RC" parameter is set to "disabled".

Parameters via remote control

The following parameters can be checked or changed via the remote control for support during start-up as well as servicing:

Parameter	Description	Can be checked by Sendo- Pro/the- Senda B (app)	Can be changed by SendoPro/theSenda B (app)	Can be changed by the- Senda P
Detection zone	Selection: Z1 / Z2 / Z1+Z2	x	X	
Function C1	Selection: switching/control	х	х	

Parameter	Description	Can be checked by Sendo- Pro/the- Senda B (app)	Can be changed by SendoPro/theSenda B (app)	Can be changed by the- Senda P
Brightness set- point value C1	Value range in lux/ measurement off	x	x	x
Brightness actual value C1	Check brightness actual value	х		
Room correction factor C1	Room correction factor	х	x	
Brightness measurement value C1	Lux meter bright- ness value in lux		X	
Detection sensi- tivity (PIR)	Value range in increments	х	х	х
Lighting time delay	Value range in seconds/minutes		×	х
Short-term presence	Short-term pre- sence: ON/OFF	x	x	
Energy saving mode	Selection: eco/eco plus	х	х	
Presence switch- on delay	Value range in seconds/minutes		x	
Presence time delay	Value range in seconds/minutes		х	х
Switch on dim- ming value C1	Value range in %		x	
Configuration type C1	Selection: Auto/Man	x	x	х
Control speed Selection: standard/ average/fast			x	
Minimum dim- ming value	Value range in %		x	
Maximum dim- ming value	Value range in %		x	
Switch off brightness	Value range in minutes/hours/ never off		х	
Staircase light function	Selection: ON/OFF	х	x	
Dimming speed: man. dimming	Selection: standard/ fast		x	
Response after man. dimming	Selection: school/ office		x	
Standby time	Value range in seconds/minutes Permanently on		x	
Standby dim- ming value	Value range in %		х	
IR group address C1	Selection: all/I/II/III (app to VIII)		х	
Scene 1 C1	Value range in %		х	
Scene 2 C1	Value range in %		х	
Configuration button/RC	Selection: Enabled/ Disabled		х	
LED motion display	OFF/ON		x	

① The selection of parameters is limited with the theSenda P.

Checking the set values:

With the SendoPro and the theSenda B/app, parameters can be checked by gradually sending the values to the detector. If the sent value is below the set parameter, the LED lights up briefly. If the sent value is equal to or above the set parameter, the LED lights flickers for 2 s.

Detection zone

The detection area is divided into two independent detection zones (see 4. Installation, detection area). For a maximum range, zone 1 and zone 2 are activated. If a limitation of the detection area is required, zone 1 or zone 2 can be deactivated.

Value range

Adjustable values from SendoPro/	Z1, Z2, Z1 and Z2
theSenda/app	

Function C1

The lighting channel C1 can be operated in switching mode or in the constant light control function. The function is set via the <Function C1> parameter.

Value range (with SendoPro/theSenda B/app)

Switching	Lighting channel C1 is in the switching mode function
Control	Lighting channel C1 is in the constant light control function

Brightness setpoint value C1

The brightness setpoint value defines the minimum required brightness. The current brightness is measured below the presence detector. If the brightness is below the setpoint value and presence is detected, the light is switched on (for the fully automatic device configuration type).

Value range

Adjustable values from SendoPro/theSenda B/app	10-3000 lux	
Adjustable values from theSenda P	10, 15, 300, 500, 800 lux	

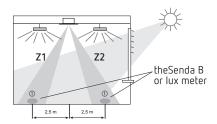
Deactivation of brightness measurement (brightness measurement has no effect) The lighting channels only switch according to presence and absence.	
SendoPro/theSenda B/app	Measurement off
theSenda P	☆ button

Brightness actual value C1

The brightness actual value can be checked for monitoring purposes. To check, see the "Parameters via remote control" table.

Room correction factor C1, brightness measurement value C1

The room correction factor is a measure of the different brightness measurements at the ceiling and on the work surface (the brightness value depends on the ambient conditions).



Room correction factor = Brightness value at the ceiling
Brightness value on the floor

The brightness measurement value at the ceiling is influenced by the installation location, incidence of light, position of the sun, weather conditions, the reflection properties of the room, and the furniture. In order to be able to adhere to the required lux value in the desired area, a comparison of the brightness measurements is necessary.

The measured lux meter value ① below the presence detector is sent to the detector via the remote control.

When sending the brightness measurement value, the room correction factor of the corresponding lighting channel is automatically adjusted to the conditions inside the room. Two different procedures can be selected for the comparison.

SendoPro and lux meter

- ➤ Dim all lights to maximum power. If possible, lower the blinds.
- ➤ Place the lux meter on the work surface under the sensor. The measured lux value is entered via the <Brightness measurement value C1> SendoPro parameter.
- ➤ During lux measurements, observe the distances shown in the diagram. Carry out all measurements on the floor.
- ➤ Using only zone 1: place the lux meter during the brightness measurement in zone 1 (approx. 2.5 m away from the detector).
- ➤ Using only zone 2: place the lux meter during the brightness measurement in zone 2.
- ➤ Using zones 1+2: place the lux meter in the middle.
 - The room correction factor is calculated from this. Values between 0.05 and 2.0 are permitted. Calculated or entered values outside the permitted range are automatically set to the appropriate limit value.
 - The calculated room correction factor is adopted. The room correction factor can be checked via the <Room correction factor C1> parameter for monitoring purposes. The default value is 0.3.

theSenda B and the "theSenda Plug" app

- ➤ Connect the theSenda B with the corresponding theSenda Plug app.
- ➤ Select the appropriate detector type and load the parameter set
- ➤ Select the <Brightness measurement value C1> parameter.

Using the theSenda B remote control

- ➤ Set up the theSenda B according to the drawing, and move a few steps away from the measurement location, so the lux measurement will not be influenced.
- ➤ Press OK.
 - → A new window with the measured brightness measurement value is shown. If you would like to apply this value,
- ➤ Press OK.
- ➤ Important: Press the send button (♠). After this, the brightness measurement is calibrated.

Using the lux meter

- ➤ Set up or align the lux meter according to the drawing, and read the lux value.
- ➤ Press "Enter" in the app.
 - \rightarrow A new window opens.
- ➤ Enter the lux value and press OK.
 - → The brightness measurement value appears in the display.
- ➤ Important: Press the send button (♠). After this, the brightness measurement is calibrated.
 - For the room correction factor, see SendoPro and the lux meter...

Switch on dimming value C1

In switching mode and in the constant light control function, the lighting is switched on with the switch-on dimming value.

Value range (with SendoPro/theSenda B/app)

Swil	ch on dimming value C1	30-100%
	3	I

Configuration type C1

Fully automatic device: the lighting is switched on and off automatically (based on presence, absence and brightness).	
SendoPro/theSenda B/app	auto
theSenda P	Button A

Semi-automatic device: the lighting must always be switched on manually. It is switched off automatically by the presence detector (based on absence or brightness)	
SendoPro/theSenda B/app	man
theSenda P	l'''J button

IR group address C1

This parameter is applied when using the theSenda S or theSenda B.

A group address can be assigned to lighting channel C1. The group addresses in the detector can be programmed with the SendoPro, theSenda B/app or theSenda S.

Value range

Adjustable values from SendoPro	I, II, III, all
Adjustable values from theSenda B	1, 11, 111
Adjustable values from theSenda Plug	I-VIII, all
Adjustable values from theSenda S	1, 11

With the theSenda S, the group address can be assigned as follows:

Press the ≥1 and ∜ 1 buttons at the same time for at least 5 s	I
Press the ≧2 and ∜ 1 buttons at the same time for at least 5 s	II

With the theSenda B, the group address can be assigned without the app as follows:

Press the ≧1 and 🌣 1 buttons at the same time for	I
at least 5 s	

Press button A and the 🌣 1 button at the same time for at least 5 s	II
Press the ≥2 and ∜ 1 buttons at the same time for at least 5 s	III

Scene 1 C1/Scene 2 C1

The required dimming value for lighting channel C1 can be assigned to scene 1 and scene 2.

Value range (with SendoPro/theSenda B/app)

Adjustable values	0-100%

With the theSenda S or the theSenda B, the lighting is set to a required brightness and saved as follows:

Press the ≥1 button for at least 3 s.	Scene 1 has been saved
Press the ≧² button for at least 3 s.	Scene 2 has been saved

The scene can be opened by briefly pressing the button.

Control commands via remote control

The following control commands can be triggered with the remote control:

Control command	Description	Can be triggered by SendoPro/theSenda B (app)	Can be trigge- red by the- Senda P
DALI configuration	Configuration of the operating mode/DALI components		
Change over to "addressa- ble" operating mode	Changeover from "broadcast" to "addressable". After the changeover, <thepassa dali="" p360-221=""> must be selected as the type.</thepassa>	х	
Reset DALI EBs	All connected DALI EBs are reset to the factory setting.	х	
Reset DALI relay	The connected DALI relay is reset to the factory setting.	х	
Switching light	The lighting group can be switched on and off.	х	х
Teach-in C1	Activation	Х	Х
Presence test	OFF/ON	Х	Х
Light test	OFF/ON	Х	
Restart	Restart the detector	Х	Х
Factory settings	Set all parameters and settings to the factory setting.	x	

Changing over to "addressable" operating mode

In factory setting, the detector is in the broadcast operating mode (<thePassa P360-111 DALI> type). Use the control command to change over to the <thePassa P360-221 DALI> detector type which owns 2 addressable lighting groups.

① After changing over to the addressable mode, the detector is in the emergency mode. For programming the lighting groups, see chapter 6 "Start-up".

Teach-in C1

During the teach-in process, the currently measured brightness value is adopted as brightness setpoint value C1. Values outside the permitted range are automatically set to the appropriate limit value.

The teach-in control command can be executed with the SendoPro, the theSenda B/app or with the theSenda P (via the button).

Factory settings

The presence detector is supplied with the following parameter values: the Passa P360-111 DALI

Parameter	Value
Detection zone	Z1+Z2
Function C1	Control
Brightness setpoint value C1	200 lux
Room correction factor C1	0.3
Detection sensitivity (PIR)	Increment 3
Lighting time delay	5 min
Short-term presence	ON
Energy saving mode	есо
Presence switch-on delay	0 s
Presence time delay	10 min
Switch on dimming value C1	50%
Configuration type	auto
Control speed	Standard
Minimum dimming value	10%
Maximum dimming value	100%
Switch off brightness	10 min
Staircase light function	OFF
Dimming speed: man. dimming	Standard
Response after man. dimming	School
Standby time	0 s
Standby dimming value	10%
IR group address C1	1
Scene 1 C1	30%
Scene 2 C1	70%
Configuration button/RC	Enabled
LED motion display	OFF

① The parameters can only be reset to the factory setting with the SendoPro or the theSenda B.

Addressable < the Passa P360-221 DALI>

Setting the teach-in function via button

- > Press the button for > 15 s
 - → The currently measured brightness value is adopted as the brightness setpoint value.
- ① The teach-in function via the button can be disabled using the SendoPro or the theSenda B/app remote controls when the "Configuration button/RC" parameter is set to "disabled".

Parameters via remote control

The following parameters can be checked or changed via the remote control for support during start-up as well as servicing:

Parameter	Description	Can be checked by Sendo- Pro/the- Senda B (app)	Can be changed by SendoPro/theSenda B (app)	Can be changed by the- Senda P
Function C1/C2	Selection: switching/control	×	х	
Terminal S1 assignment, terminal S2 assignment	Selection: C1/C2/ C1+C2		x	
Brightness setpoint value C1, C2	Value range in lux/ measurement off	Х	х	х
Brightness actual value C1, C2	Check brightness actual value	Х		
Room correction factor C1, C2	Room correction factor	Х	Х	
Brightness mea- surement value C1, C2	Lux meter bright- ness value in lux		x	
Detection sensi- tivity (PIR)	Value range in increments	x	x	x
Lighting time delay	Value range in seconds/minutes		Х	х
Short-term presence	Short-term pre- sence: ON/OFF	X	х	
Energy saving mode	Selection: eco/eco plus	x	х	
Presence switch- on delay	Value range in seconds/minutes		х	
Presence time delay	Value range in seconds/minutes		x	x
Switch on dimming value C1, C2	Value range in %		x	
Configuration type C1/C2	Selection: Auto/Man	х	х	х
Control speed	Selection: standard/ average/fast		х	
Minimum dim- ming value	Value range in %		x	
Maximum dim- ming value	Value range in %		Х	
Switch off brightness	Value range in minutes/hours/ never off		х	
Staircase light function	Selection: ON/OFF	x	x	
Dimming speed: man. dimming	Selection: standard/ fast		x	
Response after man. dimming	Selection: school/ office		х	
Standby time	Value range in seconds/minutes Permanently on		х	
Standby dim- ming value	Value range in %		Х	
IR group address C1, C2	Selection: all/I/II/III (app to VIII)		Х	
Scene 1 C1, scene 2 C1	Scene for lighting channel C1 value range in %		х	
Scene 1 C2, scene 2 C2	Scene for lighting channel C2 value range in %		х	
Configuration button/RC	Selection: Enabled/ Disabled		х	

Parameter	Description	Can be checked by Sendo-Pro/the-Senda B (app)	Can be changed by SendoPro/theSenda B (app)	Can be changed by the- Senda P
LED motion display	OFF/ON	(- -/-	Х	

① The selection of parameters is limited with the theSenda P.

Checking the set values:

With the SendoPro and the theSenda B/app, parameters can be checked by gradually sending the values to the detector. If the sent value is below the set parameter, the LED lights up briefly. If the sent value is equal to or above the set parameter, the LED lights flickers for 2 s.

Function C1, C2

Lighting channels C1 and C2 can be operated together in switching mode or in the constant light control function. The function is set via the <Function C1, C2> parameter.

Value range (with SendoPro/theSenda B/app)

Switching	Lighting channels C1 and C2 are in the switching mode function
Control	Lighting channels C1 and C2 are in the constant light control function

Terminal S1 assignment, terminal S2 assignment

Terminals S1 and S2 for the buttons can be assigned to the required lighting channel at any time without rewiring.

Value range (with SendoPro/theSenda B/app)

Parameter	Lighting channel		
Terminal S1 assignment	C1	C2	C1+C2
Terminal S2 assignment	C1	C2	C1+C2

Brightness setpoint value C1, C2

The brightness setpoint value defines the minimum required brightness. The current brightness is measured below the presence detector. If the brightness is below the setpoint value and presence is detected, the light is switched on (for the fully automatic device configuration type).

A separate brightness setpoint value is available for each lighting channel C1, C2.

Value range

Adjustable values from SendoPro/theSenda B/app	10-3000 lux
Adjustable values from theSenda P	10, 15, 300, 500, 800 lux
Deactivation of brightness measurement (brightness measurement has no effect) The lighting channels only switch according to presence and absence.	
SendoPro/theSenda B/app	Measurement off
theSenda P	☆ button

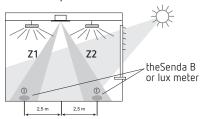
Brightness actual value C1, C2

Both brightness actual values can be checked for monitoring purposes.

To check, see the "Parameters via remote control" table.

Room correction factor C1, C2, brightness measurement value C1, C2

The room correction factor is a measure of the different brightness measurements at the ceiling and on the work surface (the brightness value depends on the ambient conditions).



Room correction factor = Brightness value at the ceiling Brightness value on the floor

The brightness measurement value at the ceiling is influenced by the installation location, incidence of light, position of the sun, weather conditions, the reflection properties of the room, and the furniture. In order to be able to adhere to the required lux value in the desired area, a comparison of the brightness measurements is necessary.

The measured lux meter value $\hat{\mathbb{O}}$ below the presence detector is sent to the detector via the remote control.

When sending the brightness measurement value, the room correction factor of the corresponding lighting channel is automatically adjusted to the conditions inside the room. Two different procedures can be selected for the comparison.

SendoPro and lux meter

- ➤ Dim all lights to maximum power. If possible, lower the blinds.
- ➤ Place the lux meter on the work surface under the sensor. The measured lux value is entered via the <Brightness measurement value C1, C2> SendoPro parameter.
- ➤ During lux measurements, observe the distances shown in the diagram. Carry out all measurements on the floor.
- ➤ Using only zone 1: place the lux meter during the brightness measurement in zone 1 (approx. 2.5 m away from the detector).
- ➤ Using only zone 2: place the lux meter during the brightness measurement in zone 2. (approx. 2.5 m away from the detector).
- ➤ Using zones 1+2: place the lux meter in the middle.
 - The room correction factor is calculated from this. Values between 0.05 and 2.0 are permitted. Calculated or entered values outside the permitted range are automatically set to the appropriate limit value.
 - The calculated room correction factor is adopted. The room correction factor can be checked via the <Room correction factor C1,C2> parameter for monitoring purposes. The default value is 0.3.

theSenda B and the "theSenda Plug" app

- ➤ Connect the theSenda B with the corresponding theSenda Plug app.
- ➤ Select the appropriate detector type and load the parameter set.
- Select the <Brightness measurement value C1, C2> parameter.

Using the theSenda B remote control

- ➤ Set up the theSenda B according to the drawing, and move a few steps away from the measurement location, so the lux measurement will not be influenced.
- ➤ Press OK.
 - → A new window with the measured brightness measurement value is shown. If you would like to apply this value,
- > Press OK.
- ➤ Important: Press the send button (♣). After this, the brightness measurement is calibrated.

Using the lux meter

- ➤ Set up or align the lux meter according to the drawing, and read the lux value.
- ➤ Press "Enter" in the app.
 - \rightarrow A new window opens.
- ➤ Enter the lux value and press OK.
 - → The brightness measurement value appears in the display.
- ➤ Important: Press the send button (♠). After this, the brightness measurement is calibrated.
 - For the room correction factor, see SendoPro and the lux meter...

Switch on dimming value C1, C2

In switching mode and in the constant light control function, the lighting is switched on with the switch-on dimming value.

Value range (with SendoPro/theSenda B/app)

Switch on dimming value C1, C2	30-100%
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Configuration type C1/C2

Fully automatic device: the lighting is switched on and off automatically (based on presence, absence and brightness).	
SendoPro/theSenda B/app	auto
theSenda P	Button A

Semi-automatic device: the lighting must always be switched on manually. It is switched off automatically by the presence detector (based on absence or brightness).	
SendoPro/theSenda B/app	man
theSenda P	l''J button

IR group address C1, C2

This parameter is applied when using the theSenda S or theSenda B.

A group address can be assigned to lighting channels C1 and C2. The group addresses in the detector can be programmed with the SendoPro, theSenda B/app or theSenda S.

Value range

Adjustable values from SendoPro	I, II, III, all
Adjustable values from theSenda B	1, 11, 111
Adjustable values from the theSenda Plug app	I-VIII, all
Adjustable values from theSenda S	1, 11

With the theSenda S, the group address can be assigned as follows:

For IR group address C1:

Press the ≥1 and ÿ 1 buttons at the same time for at least 5 s	I
Press the ≥2 and 🌣 1 buttons at the same time for at least 5 s	II

For IR group address C2:

Press the ≥1 and ∜ 2 buttons at the same time for at least 5 s	I
Press the ≥2 and ∜ 2 buttons at the same time for at least 5 s	II

With the theSenda B, the group address can be assigned without the app as follows:

For IR group address C1:

Press the ≥1and ७ 1 buttons at the same time for at least 5 s	I
Press button A and the $\begin{tabular}{l} \begin{tabular}{l} $	II
Press the ≧² and ॐ 1 buttons at the same time for at least 5 s	III

For IR group address C2:

Press the ≥1 and ∜ 2 buttons at the same time for at least 5 s	1
Press button A and the 👸 2 button at the same time for at least 5 s	=
Press the ≥2 and ७ 2 buttons at the same time for at least 5 s	III

Scene 1 C1, C2/scene 2 C1, C2

The required dimming value for each lighting group can be assigned to scene 1 and scene 2.

Value range (with SendoPro/theSenda B/app)

Adjustable values	0-100%
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With the theSenda S or the theSenda B, the lighting is set to a required brightness and saved as follows:

Press the ≥1 button for at least 3 s.	Scene 1 has been saved
Press the ≥² button for at least 3 s.	Scene 2 has been saved

The scene can be opened by briefly pressing the button.

Control commands via remote control

The following control commands can be triggered with the remote control:

	l -		
Control command	Description	Can be triggered by Sen- doPro/ theSenda B app	Can be triggered by the- Senda P/ theSenda B app
DALI configuration	Configuration of the lighting group operating mode/DALI components		
Group assignment (unaddress.)	Configuration of the unaddressed lighting groups	х	
Group assignment (all)	Configuration of all lighting groups	х	
Change group assignment	Change configuration of the lighting groups	х	
End group assignment	End configuration of the lighting groups	х	
Change over to broadcast operating mode	Changeover from "addres- sable" to "broadcast". After the changeover, <thepassa P360-111 DALI> must be selected as the type.</thepassa 	х	
Reset DALI EBs	All connected DALI EBs are reset to the factory settings	х	
Reset DALI relay	The connected DALI relay is reset to the factory setting.	х	
Switching light C1	Lighting group C1 can be switched on and off.	х	X
Switching light C2	Lighting group C2 can be switched on and off.	х	х
Switching light (all)	All lighting groups can be switched on and off together	х	х
Teach-in C1	Execute for lighting channel C1	х	x
Teach-in C2	Execute for lighting channel C2	х	x
Teach-in C1 + C2	Activate for all lighting chan- nels C1, C2	х	
Presence test	ON/OFF	Х	Х
Light test	ON/OFF	Х	
Restart	Restart the detector	х	х
Factory settings	Set all parameters and settings to the factory set- ting; the DALI configuration remains unchanged.	х	

Teach-in C1, C2

During the teach-in process, the currently measured brightness value is adopted as brightness setpoint value. Values outside the permitted range are set to the appropriate limit value.

The teach-in control command can be executed with the SendoPro, theSenda B/app or theSenda P.

With the theSenda P, the teach-in process is saved as follows:

Teach-in channel C1	Press the ॐ 1 button and then the ™ button within 10 s
Teach-in channel C2	Press the 🚏 2 button and then the 👁 button within 10 s
Teach-in channel C1 + C2	Press the © button

Factory settings

After resetting, the presence detector is preset via the <Factory settings> parameter with the following parameter values: thePassa P360-221 DALI

Parameter	Value
Function C1/C2	Control
Terminal S1 assignment	C1
Terminal S2 assignment	C2
Brightness setpoint value C1	200 lux
Brightness setpoint value C2	200 lux
Room correction factor C1	0.3
Room correction factor C2	0.3
Detection sensitivity (PIR)	Increment 3
Lighting time delay	5 min
Short-term presence	ON
Energy saving mode	eco
Presence switch-on delay	0 s
Presence time delay	10 min
Switch on dimming value C1	50%
Switch on dimming value C2	50%
Configuration type C1/C2	auto
Control speed	Standard
Minimum dimming value	10%
Maximum dimming value	100%
Switch off brightness	10 min
Staircase light function	OFF
Dimming speed: man. dimming	Standard
Response after man. dimming	School
Standby time	0 s
Standby dimming value	10%
IR group address C1	1
IR group address C2	II
Scene 1 C1	30%
Scene 2 C1	70%
Scene 1 C2	30%
Scene 2 C2	70%
Configuration button/RC	Enabled
LED motion display	OFF

① The parameters can only be reset to the factory setting with the SendoPro or the theSenda B.

General settings of

Broadcast < the Passa P360-111 DALI>

Addressable < the Passa P360-221 DALI>

Detection sensitivity

The detector has 5 sensitivity increments. The basic setting is the middle increment (3). Increments 1 to 5 can be selected and sent to the detector with the SendoPro and the theSenda B/app. With the theSenda P, the sensitivity can be reduced by one increment by pressing the button, or raised by pressing the button.

Value range

Incre- ment	Sensitivity
1	Very insensitive
2	Insensitive
3	Standard
4	Sensitive
5	Very sensitive

① By selecting the presence test mode, the set sensitivity increment is not changed.

Lighting time delay

Value range

Adjustable values from SendoPro/theSenda B/app	10 s - 60 min
Adjustable values from theSenda P	10 s (\(\rightarrow\)^- button), 30 s, 60 s, 2 min, 10 min, 20 min, 60 min (\(\rightarrow\)^+ button)

Short-term presence

If someone enters an unoccupied room only briefly and leaves within 30 s, the lighting is switched off early after 2 min (short-term presence). Short-term presence can be used for the fully automatic device and semi-automatic device configuration type.

Value range (with SendoPro/theSenda B/app)

The time delay is applied according to the set time delay.	OFF	
Short-term presence is active.	ON	

Energy saving mode: eco/eco plus

The "eco" selection stands for an ideal switching response, while "eco plus" stands for maximum energy savings.

Value range (with SendoPro/theSenda B/app)

eco	The time delay adapts to the user behaviour. The time delay does not fall below the set value.
eco plus	The set time delay remains unchanged (no self-learning effect). Faster response to brightness detection than with the eco mode.

Presence switch-on delay

The contact of the external DALI relay closes when someone is present regardless of the brightness and after the set switch-on delay has elapsed. Buttons and the configuration type (fully automatic device/semi-automatic device) do not affect the relay contact.

Value range (with SendoPro/theSenda B/app)

No switch-on delay	0 s
Switch-on delay	30 s - 30 min

Presence time delay

The relay contact of the external DALI relay only opens once the set time delay has elapsed in periods of absence.

Value range

Adjustable values from Sendo- Pro/theSenda B/app	10 s - 120 min
Adjustable values from theSenda P	10 s, 30 s, 60 s, 2 min, 10 min, 20 min, 120 min

Control speed

In the "Control" function, the speed of the constant light control can be set using the <Control speed> parameter.

Value range (with SendoPro/theSenda B/app)

The response is set ideally. The control function is slow and barely perceptible.	Standard
The control function is a little faster.	Average
The control function is fast.	Fast

Minimum/maximum dimming value

The lower and upper limits of the lighting channel output values can be set using the <Minimum dimming value> and <Maximum dimming value> parameters.

Value range (with SendoPro/theSenda B/app)

Minimum dimming value	1% – 25%
Maximum dimming value	50% – 100%

Switch off brightness

In the Constant light control function, the lighting can be switched off if the brightness is sufficient. If the lighting is switched down to the lower limit of the control, the lighting is switched off after the time set in the <Switch off brightness> parameter. If the "Never off" option is selected, the lighting is never switched off (only as long as there are people present).

Value range (with SendoPro/theSenda B/app)

Switch off the lighting after the set time.	5 min – 9 h
The lighting is never switched off.	Never off

Staircase light function

Value range (with SendoPro/theSenda B/app)

[The lighting can be switched on and off manually.	OFF
	The lighting can be switched on, but not switched off manually. It only switches off after the set time delay.	ON

Dimming speed for manual dimming

Value range (with SendoPro/theSenda B/app)

Dimming speed when dimming with buttons or the remote control	Standard
- theSenda S - theSenda B/App	Fast

Response after man. dimming

With the constant light control function, the response after manual dimming can be selected using the <Response after man. dimming> parameter.

Value range (with SendoPro/theSenda B/app)

After manual dimming, the constant light control remains temporarily active with the current brightness value as the new brightness setpoint value. After the lighting time delay, the set setpoint value is restored.	Office
Constant light control is temporarily interrupted by manual dimming. The setpoint remains unchanged.	School

Standby time/standby dimming value

When the standby time is activated, the lighting is not switched off after the lighting time delay has elapsed, but remains set to the standby dimming value as an orientation light.

Value range (with SendoPro/theSenda B/app)

Standby time	30 s - 60 min
Standby function (orientation light) is inactive	0 s
Standby function (orientation light) is switched on permanently	ON
Standby dimming value	1-25%

Configuration button/RC

The teach-in function and the configuration of lighting groups via the button or the theSenda B/S can be enabled or disabled with the <configuration button/RC> parameter.

Value range (with SendoPro/theSenda B/app)

Teach-in and configuration can be executed via the buttons/remote controls.	Enabled
Teach-in and configuration via the buttons/remote controls id disabled.	Disabled

LED display motion

Motion detection can be displayed using the LED.

Value range (with SendoPro/theSenda B/app)

	No display of motion detection.	OFF
- 1	The LED is switched on when motion is detected, otherwise it remains off.	ON

Presence test

The presence test mode checks the presence detection and wiring. The presence test mode can be activated with the SendoPro, the theSenda B/app or with the theSenda P (\boxtimes button). When the test mode is set, the detector switches directly to test mode:

- Every movement is indicated by the LED.
- The lighting is switched on where there is movement.
- If there is no movement, the lighting is switched off after 10 s.
- The brightness measurement is deactivated, the detector does not respond to brightness.
- Constant light control is deactivated (switching mode).
- The standby function is deactivated.
- The detector responds as in the "fully automatic device" configuration type — even if "semi-automatic device" is set.
- Teach-in cannot be activated in test mode.
- The test mode ends after 10 min. The detector restarts (see "Switch-on response").

Light test

The light test mode checks the brightness threshold and the constant light control. The light test mode can be activated with

the SendoPro or the theSenda B/app. When the test mode is set, the detector switches directly to test mode:

- The LED shows the light test mode (5 seconds ON, 0.3 seconds OFF).
- The presence detector responds as in the normal operating mode; it only responds faster to brightness/ darkness.
- To simulate the response, either actuate the blinds or illuminate the area under the presence detector.
- The test mode ends after 10 min. The detector restarts (see "Switch-on response").
- Note: Do not use a torch to trigger the presence detector to switch! The adaptive light switching thresholds are falsified!

Resetting the DALI EBs/DALI relays

The connected DALI EBs/DALI relays are reset to the factory settings.

9. Technical data

Operating voltage	110 - 230 V AC, +10% / -15%
Frequency	50-60 Hz
Upstream protection device:	16 A
Power consumption (without DALI EB)	< 0.4 W
Type of installation	Ceiling installation; flush/ surface mounted or ceiling installation
Recommended installation height	2.0-6.0 m
Minimum height	> 1.7 m
Detection area horizontal	360°
Maximum range	20 x 5 m (IH 3.5 m)/100 m ² moving radially 30 x 5 m (IH 3.5 m)/150 m ² moving tangentially
Setting range of brightness setpoint value	10-3000 lux
Lighting time delay	10 s - 60 min
Presence switch-on delay	0 s - 10 min
Presence time delay	10 s - 120 min
Lighting standby time	0 s - 60 min/permanently on
Standby dimming value	1-25%
Lighting control output	DALI interface 100 mA, max. 50 DALI devices, base insulation
Connection type	Screw terminals
Max. cable cross-section	max. 2 x 2.5 mm ²
Flush-mounted box size	Size 1, Ø 55 mm (NIS, PMI)
Protection rating	IP 20 (IP 54 when installed)
Ambient temperature	−15 °C − 50 °C
CE Declaration of Conformity	This device conforms to the safety regulations of the EMC Directive 2014/30/EU and of Directive 2014/35/EU.

Troubleshooting

Fault	Cause
Light does not switch on or off if presence is detected and in darkness	Brightness setpoint value is set too low; detector is set to semi-automatic device; light was switched off manually using buttons or the theSenda B/S; person is not in the detection area; obstacle(s) disrupt detection; time delay is too short
Light stays on with detection of presence despite sufficient brightness	Brightness setpoint value is set too high; the light was switched on manually a short while ago using buttons or the theSenda B/S (wait 30 min during switching mode); detector is in test mode
Light does not switch off, or light switches on spontaneously when no one is present	Wait for time delay (self-learning); thermal sources of interference in detection area; fan heaters, light bulb/halogen spotlight, moving objects (e.g. curtains in front of open windows)
Button does not work	Device still in the start-up phase; illuminated button was used without neutral conductor; button not connected to master.
Light cannot be switched off with the button	Button is not connected to the detector. Check the button wiring.
Lighting does not respond	Short circuit or interruption on DALI bus. Overvoltage on DALI bus: disconnect the detector from the mains for 1 minute (thermal fuse).
Error flashing (4 x per second)	Error in self-test; device not functional!
LED is switched on and flashes 2 x OFF briefly every 3 s	The detector has not detected any DALI EBs. Check DALI connections. At least 1 DALI EB must be connected to the detector. Short circuit on DALI bus.
Master/slave, master/ master parallel swit- ching is not working	The detector and button are not connected to the same external conductor.

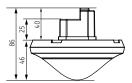
Cleaning and service

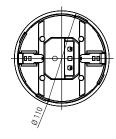
- ➤ Only use a dry, soft cloth to clean the device surface.
- ➤ Do not use any cleaning agents and solvents.

Disposal

➤ Dispose of device in environmentally sound manner

10. Dimensions diagrams





11. Contact

Theben AG Hohenbergstr. 32 72401 Haigerloch GERMANY Phone +49 7474 692-0 Fax +49 7474 692-150

Hotline

Phone +49 7474 692-369 hotline@theben.de Addresses, telephone numbers, etc. www.theben.de