

TRILUX
SIMPLIFY YOUR LIGHT.



INTUSENS

OPERATION AND NETWORKING

EN | 10495316 | 260703

TABLE OF CONTENTS

1. NOTES	Page 2
2. LOW BAY	Page 3
2.1. Low Bay sensor range	Page 3
3. HIGH BAY	Page 4
3.1. High Bay sensor range	Page 4
4. HIGH BAY CORRIDOR	Page 5
4.1. High Bay Corridor sensor range	Page 5
5. OVERVIEW OF NETWORKING VARIANTS	Page 6
5.1. Examples of networking variants	Page 7
6. SETTINGS	Page 9
6.1. Factory settings	Page 9
6.2. Unlocking the sensor	Page 9
6.3. Illuminance threshold	Page 10
6.4. Switch-off delay	Page 11
6.5. Test mode	Page 12
6.6. Basic light mode (IntuSens DALI-2 Broadcast only)	Page 13
6.7. Setting automatic mode on IntuSens Switch	Page 14
6.8. Setting automatic mode on IntuSens DALI-2 Broadcast	Page 15
7. RESETTING TO FACTORY SETTINGS	Page 16
8. DALI SHORT CIRCUIT (INTUSENS DALI-2 BROADCAST)	Page 17

1. NOTES

Observe and follow the notes below:



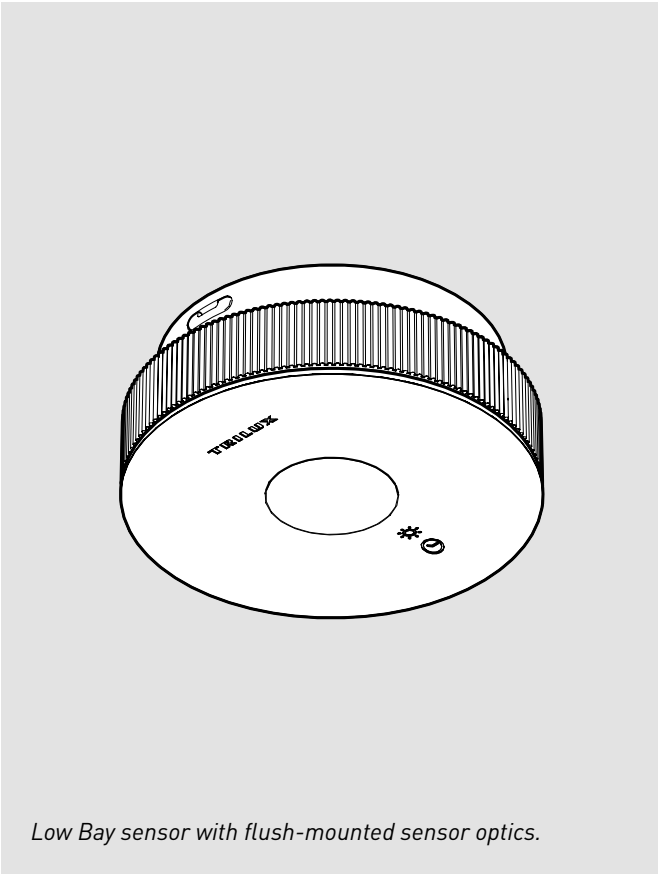
NOTICE. Indicates hazards that may result in property damage or malfunctions..



TIP. Indicates information that contains advice or a useful note.



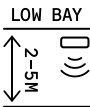
2. LOW BAY



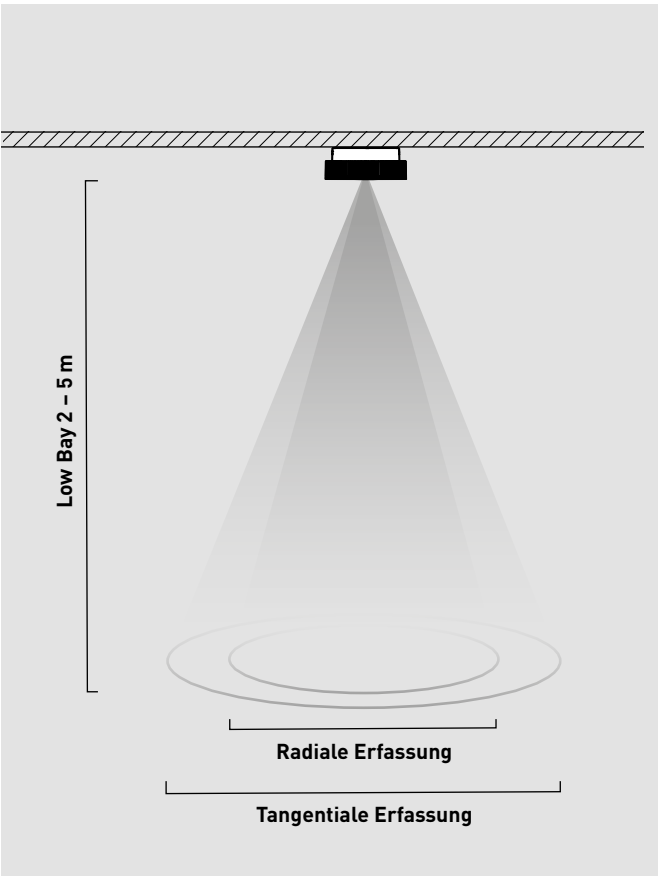
Description

Thanks to the integrated presence detector, this sensor variant is particularly suitable for offices, classrooms or meeting rooms. The presence detector detects smaller movements, for example during seated activities.

- Mounting height: 2 m to 5 m
- Presence and motion detection with a detection range of up to 24 m in diameter



2.1. Low Bay sensor range



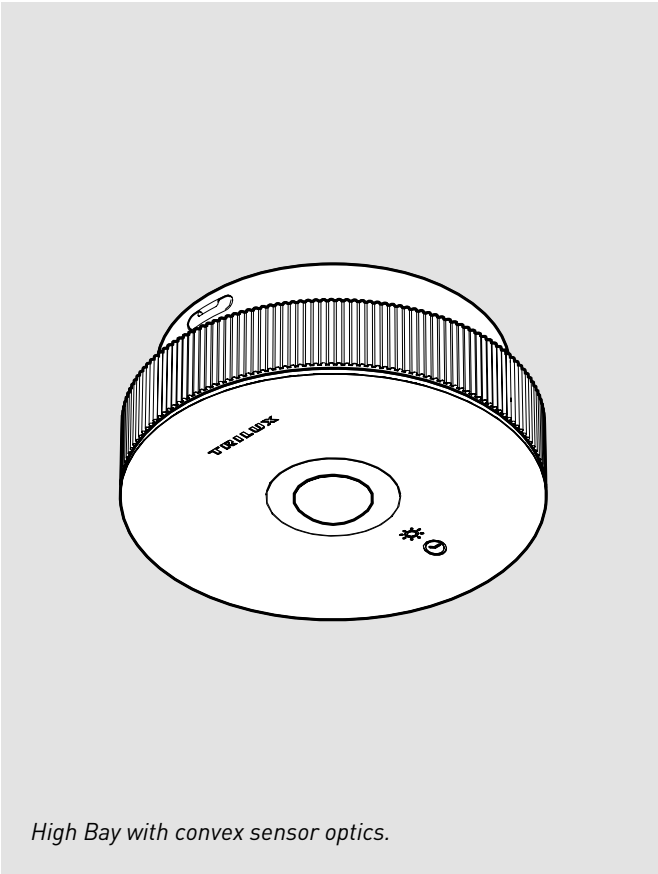
Sensor range

The detection range of the integrated sensors varies depending on the mounting height. The following overview shows the detection ranges at different mounting heights.

Mounting height (m)	Radial detection range (m)
2 m	5.6 m
3 m	8 m
4 m	8.2 m
5 m	11.5 m

Mounting height (m)	Tangential detection range (m)
2 m	12.5 m
3 m	17 m
4 m	20 m
5 m	25 m

3. HIGH BAY

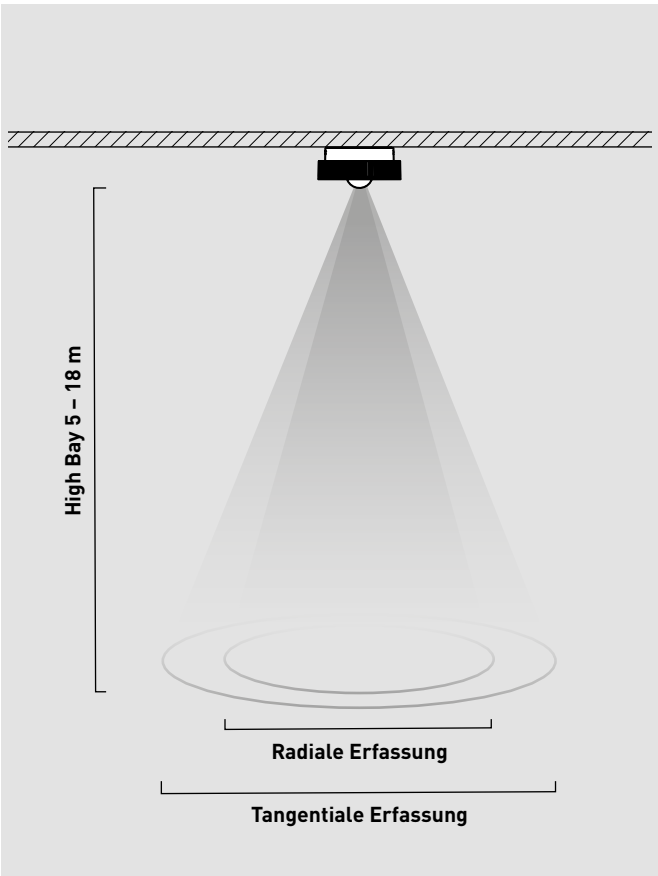


Description
Thanks to the integrated motion detector, this sensor variant is particularly suitable for stairwells or industrial hall areas. The motion detector detects larger movements, for example people or objects moving within the sensor range.

- Mounting height: 5 m to 18 m
- Motion detection with a detection range of up to 19 m in diameter



3.1. High Bay sensor range

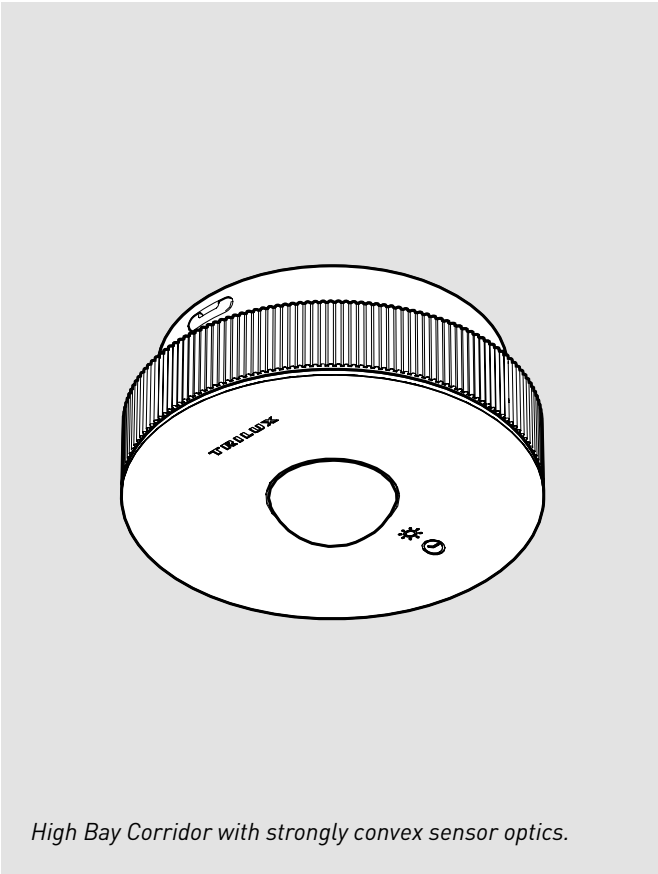


Sensor range
The detection range of the integrated sensors varies depending on the mounting height. The table shows the detection ranges at different mounting heights.

Mounting height (m)	Radial detection range (m)
5 m	5 m
8 m	9 m
12 m	13,2 m
18 m	19 m

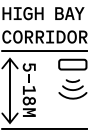
Mounting height (m)	Tangential detection range (m)
5 m	7.5 m
8 m	12.6 m
12 m	18.4 m
18 m	22 m

4. HIGH BAY CORRIDOR

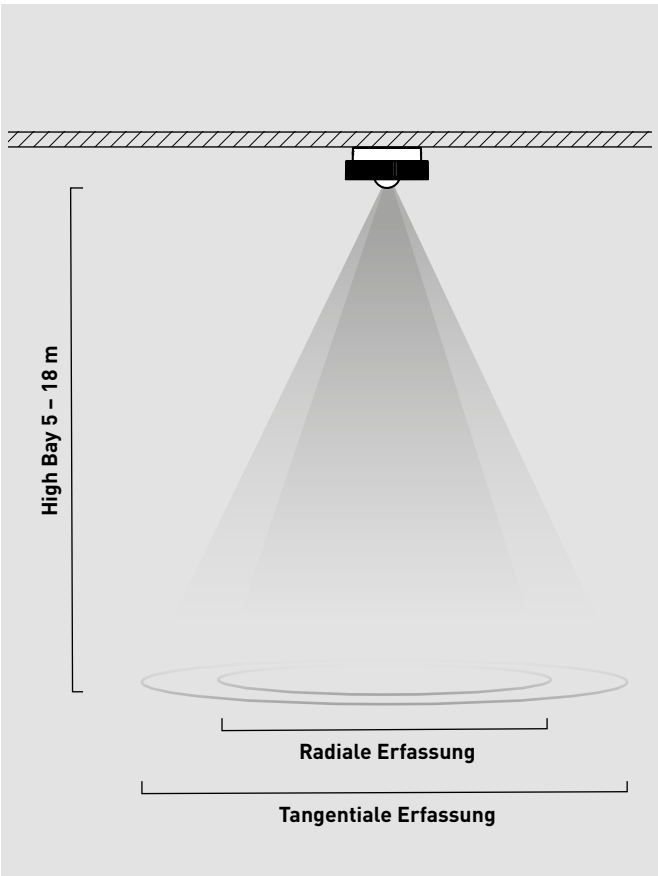


Description
Thanks to the integrated motion detector and the special detection range, this sensor variant is particularly suitable for hallways, passageways or corridors. The motion detector detects larger movements, for example people or objects moving within the sensor range.

- Mounting height: 5 m to 18 m
- Motion detection with a special corridor detection range of up to 26 m x 10 m in corridor areas



4.1. High Bay Corridor sensor range



Sensor range
The detection range of the integrated sensors varies depending on the mounting height. The table shows the detection ranges at different mounting heights.

Mounting height (m)	Radial detection range (m)
5 m	8.6 m x 3 m
8 m	17 m x 4.8 m
12 m	22.4 m x 7.2 m
18 m	28 m x 10.6 m

Mounting height (m)	Tangential detection range (m)
5 m	13.2 m x 4.8 m
8 m	18 m x 9.6 m
12 m	25.6 m x 13.6 m
18 m	28 m x 10.6 m

5. OVERVIEW OF NETWORKING VARIANTS

IntuSens Switch

Equipped with PIR technology and a switchable output for connecting switchable luminaires. Taking a light-dependent threshold value and the PIR sensor (motion sensor) into account, the sensor automatically switches the connected luminaires on and off. Commissioning is carried out directly on the sensor without an app and without a remote control.

IntuSens DALI-2 Broadcast

A DALI-2 certified sensor with PIR technology and a 1-channel DALI output for connecting DALI luminaires. Taking a light-dependent threshold value and the PIR sensor (motion sensor) into account, the sensor automatically switches the connected luminaires on and off. Commissioning is carried out directly on the sensor without an app and without a remote control.

IntuSens DALI-2 Input Device

A DALI-2 certified input-device sensor with PIR technology for connection to a DALI-2 certified control system, such as LiveLink. The sensor transmits data from the brightness sensor and the PIR sensor (motion sensor) to the DALI-2 certified control system. Commissioning is carried out via the higher-level DALI-2 control system.

IntuSens Bluetooth NLC

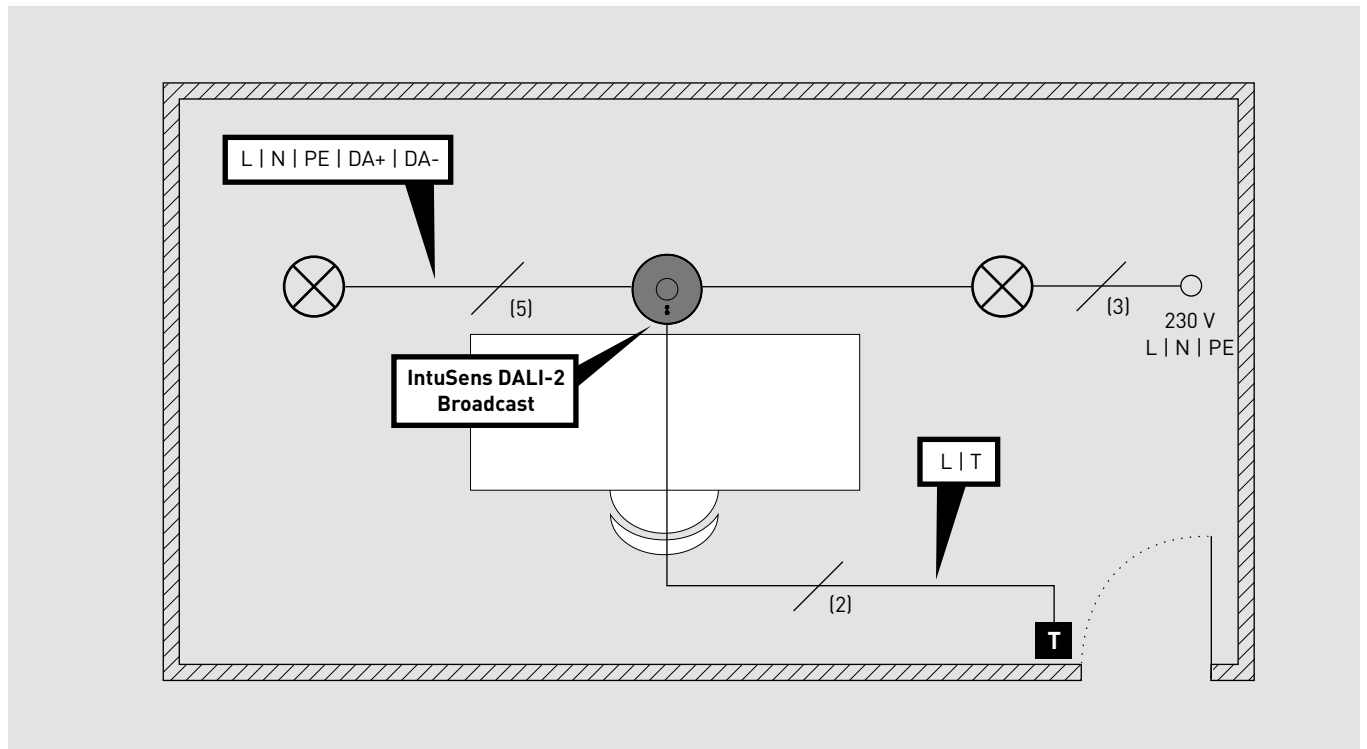
Suitable wherever cabling is not possible. Communication is wireless via Bluetooth; commissioning is quick and convenient via app. Bluetooth NLC components can be integrated into the DALI-2-based LiveLink light management system via the TRILUX wireless gateway.



5.1. Examples of networking variants

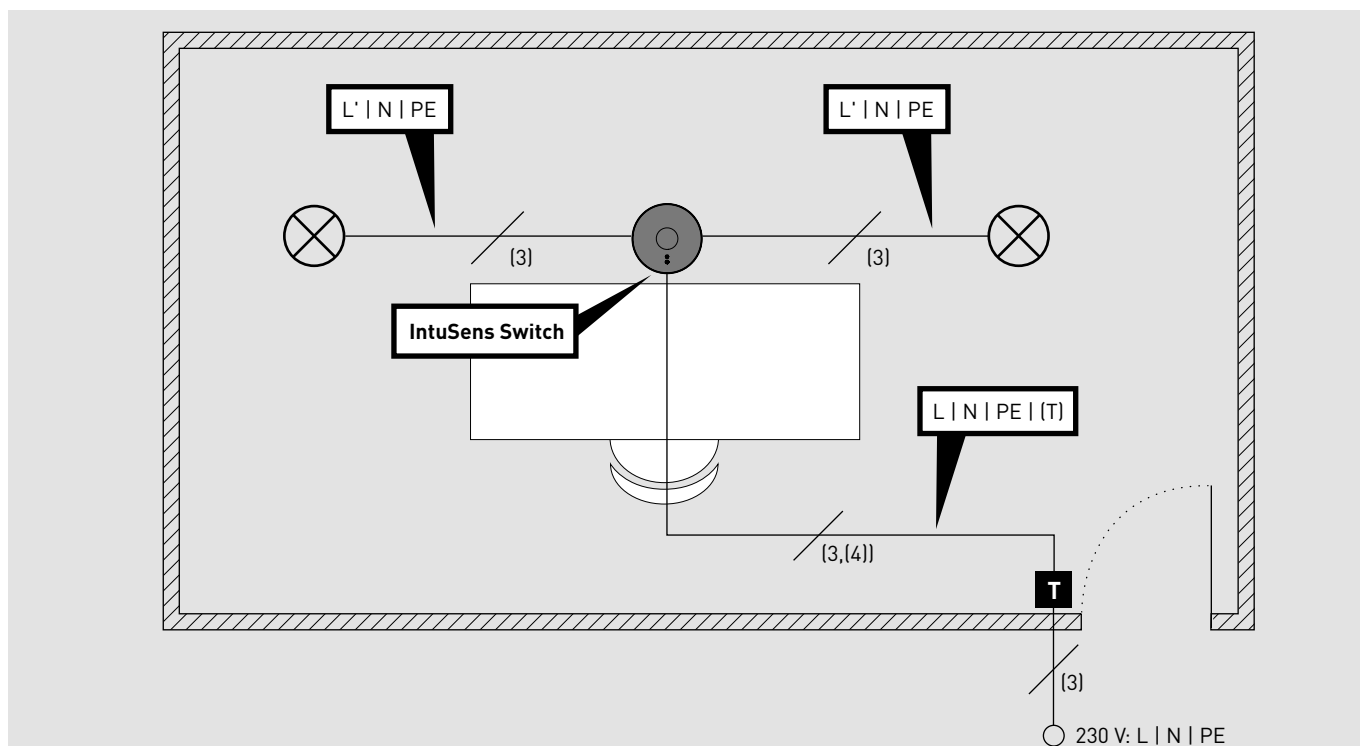
Example 1

Single-person office with IntuSens DALI-2 Broadcast.



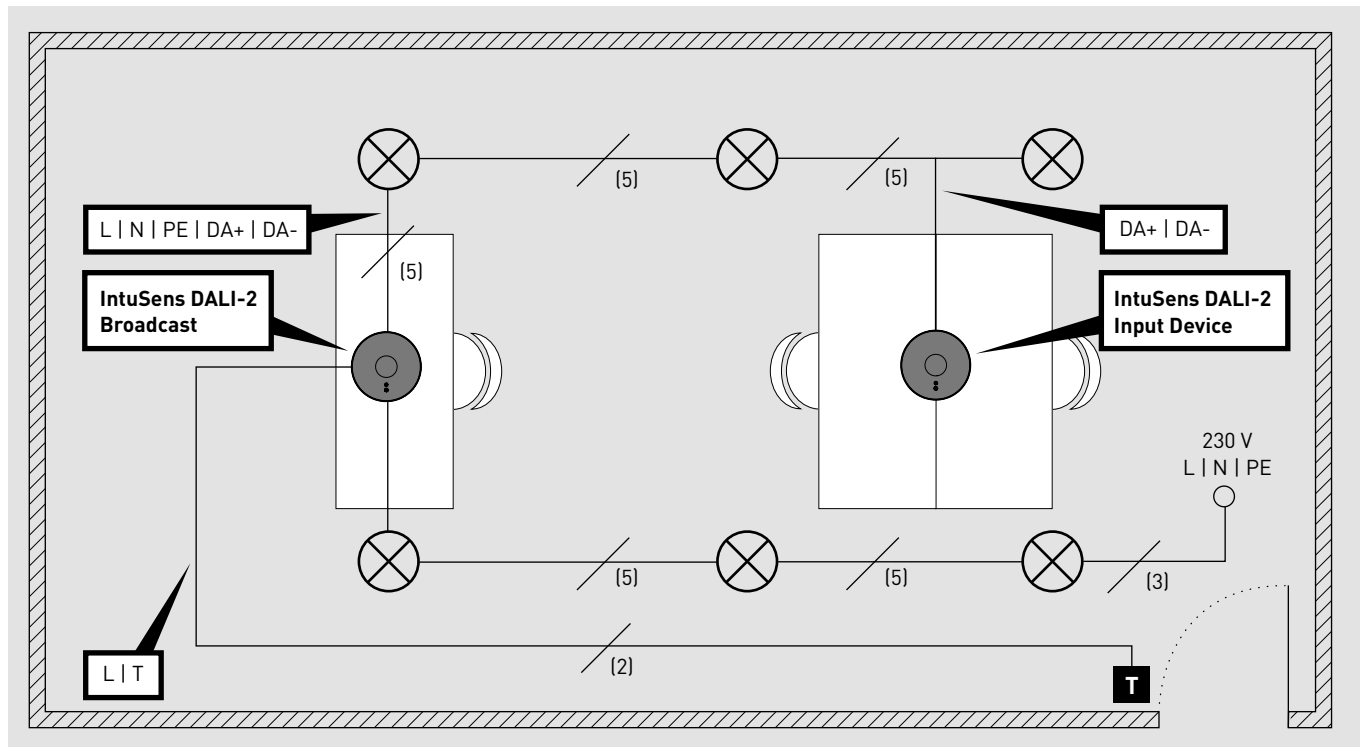
Example 2

Single-person office with IntuSens Switch.



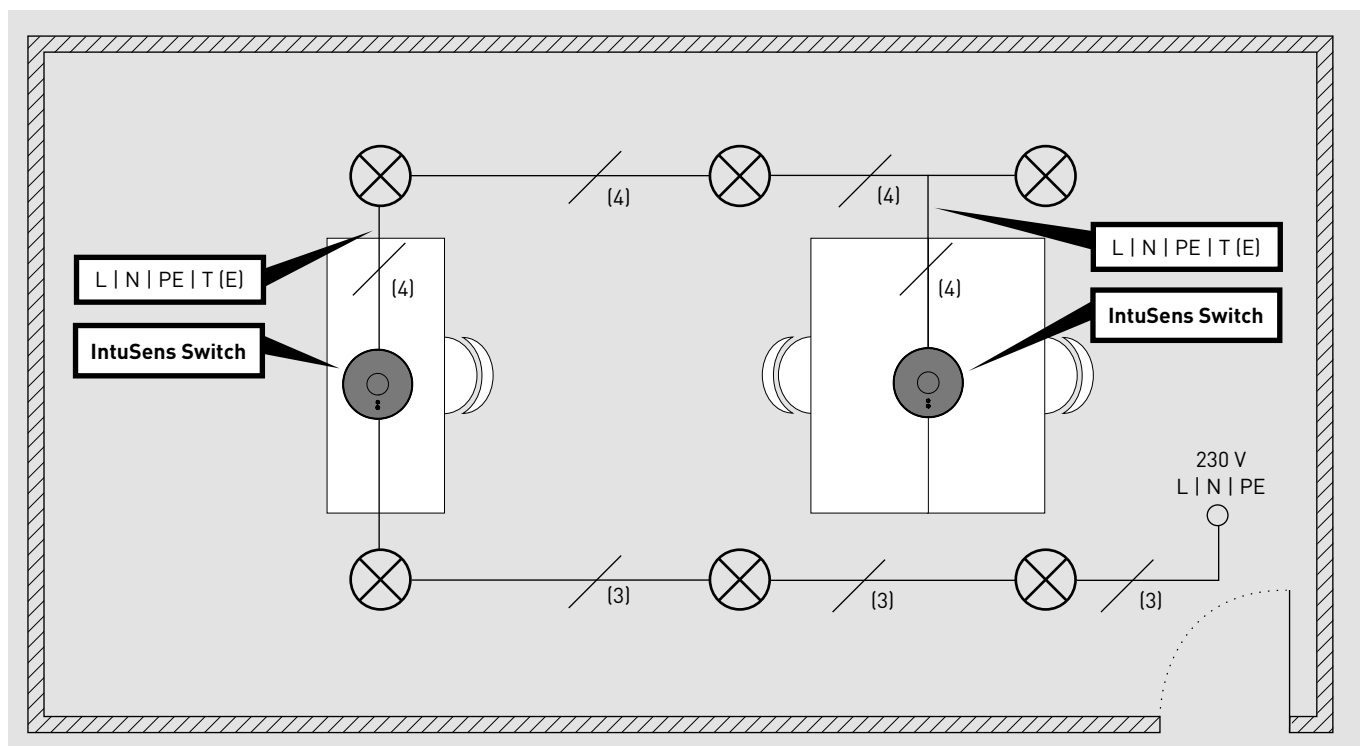
Example 3

3-person office with one IntuSens DALI-2 Broadcast and one IntuSens DALI-2 Input Device.



Example 4

3-person office with two IntuSens Switch.



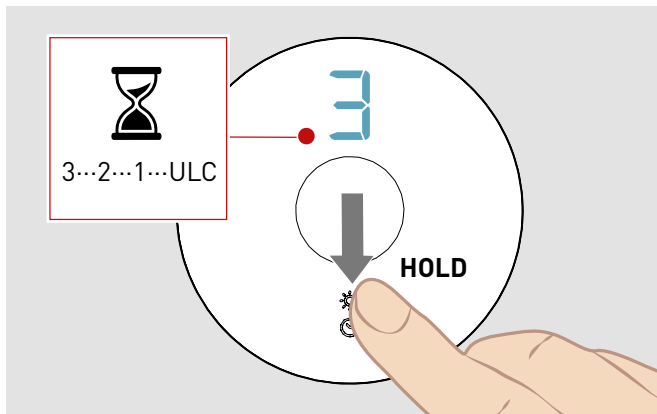
6. SETTINGS

6.1. Factory settings

Thanks to the factory configuration of the IntuSens sensors, they can be commissioned according to the plug-and-play principle after wiring. Configuration or adjustment of individual parameters is possible at any time, but is not required for commissioning. The IntuSens sensors are supplied with the following default settings:

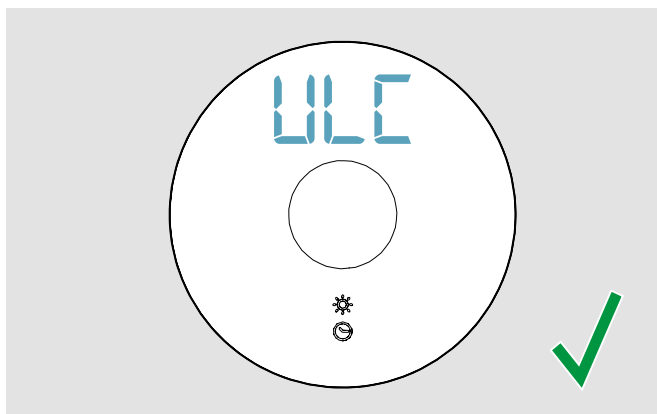
- Light sensor set to 80% illuminance
- Motion detection set to a 10-minute switch-off delay
- Basic light mode deactivated (IntuSens DALI-2 Broadcast only)
- Automatic operation activated
- User interface locked

6.2. Unlocking the sensor

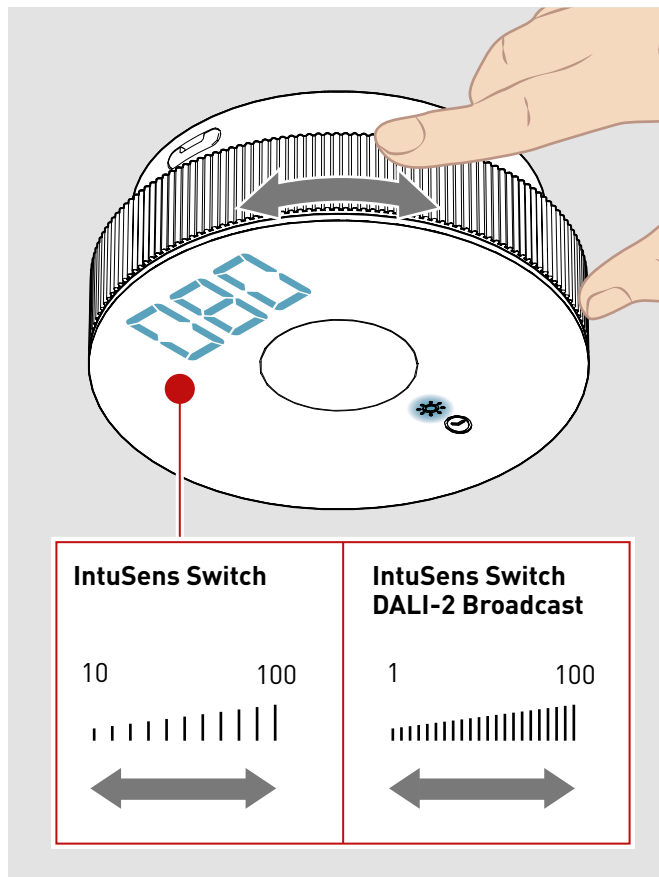


To make settings on the sensor, you must first unlock it:

1. Press and hold the push-button for **3 seconds**.
2. A counter appears in the display: **3..2..1.. "ULC"** for unlocked
3. The sensor is now **unlocked**.



6.3. Illuminance threshold



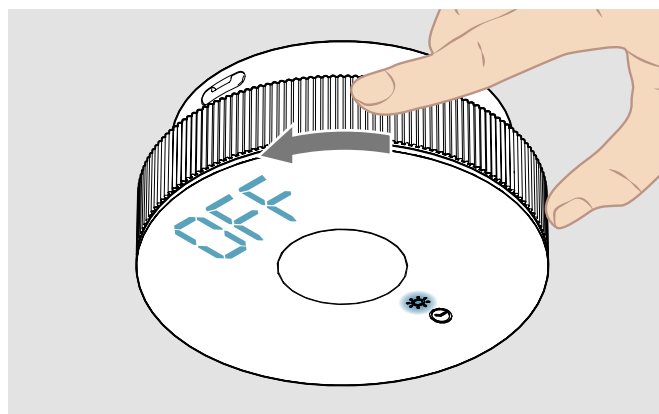
This value defines the threshold at which the sensor switches the connected luminaires on or off. To set the illuminance, proceed as follows:

1. **Unlock the sensor** (see 6.2).
2. The LED for illuminance lights up and the **set value** is shown in the display.
3. Turn the ring to change the **set value**.



TIP. For **IntuSens Switch**, the value can be set in increments of 10 from **10 to 100%**.

For **IntuSens DALI-2 Broadcast**, the value can be set in increments of 1 from **1 to 100%**.



TIP. If the value is set above 100, the display flashes three times.

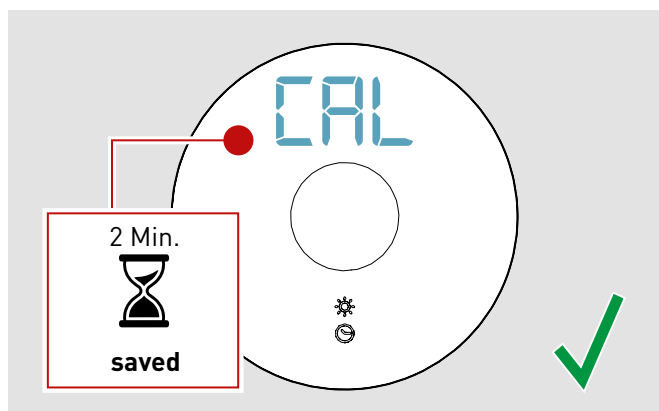


TIPP. If the value is set **below 10 (IntuSens Switch)** or **below 1 (IntuSens DALI-2 Broadcast)**, “OFF” appears in the display. The light sensor is deactivated.

4. The set value is saved when no changes are made for **10 seconds**. “**CAL**” appears in the display.

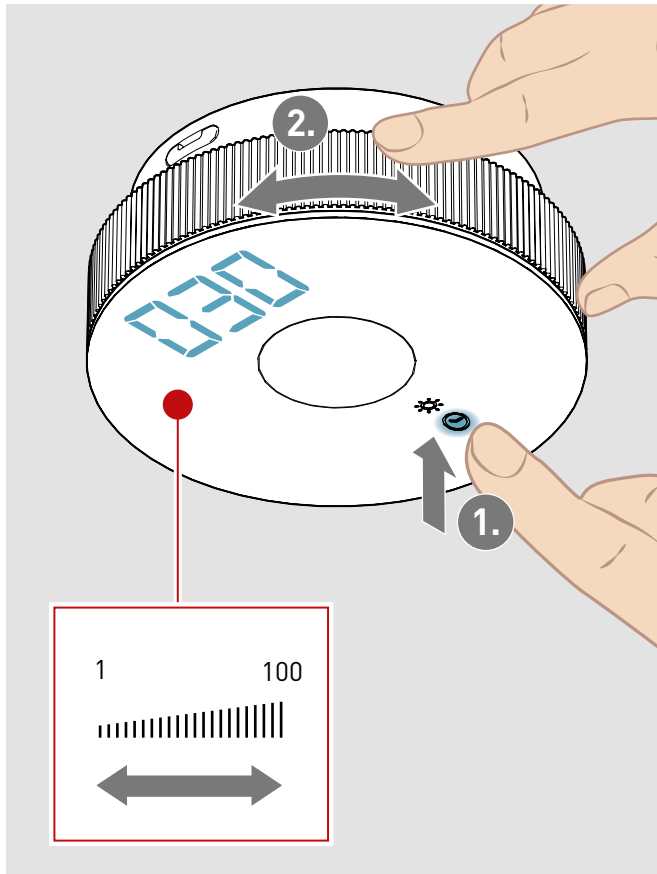


TIP. Calibration mode remains active for 2 minutes. This gives you time to clear the area below the sensor for the measurement. After the 2 minutes have elapsed, the sensor determines the reference value for the light sensor. This ensures that the light sensor uses the original reflection value as its reference, not the reflection from a ladder or work platform.



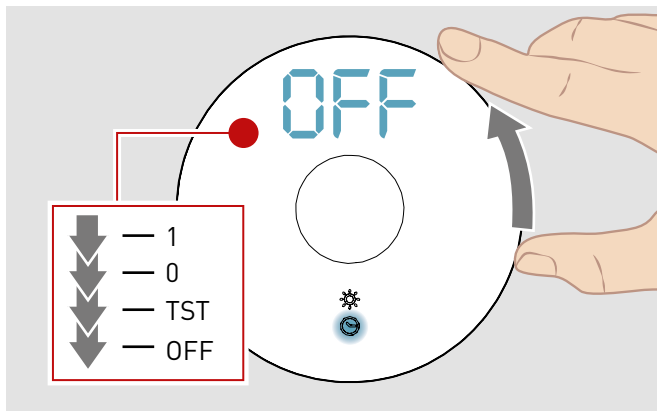
5. After two minutes, “**LOC**” appears in the display. The settings are now saved and the sensor is locked again.

6.4. Switch-off delay



This value defines the period after which the sensor switches off the connected luminaires. The switch-off delay starts automatically as soon as the PIR sensor no longer detects motion. To set the switch-off delay, proceed as follows:

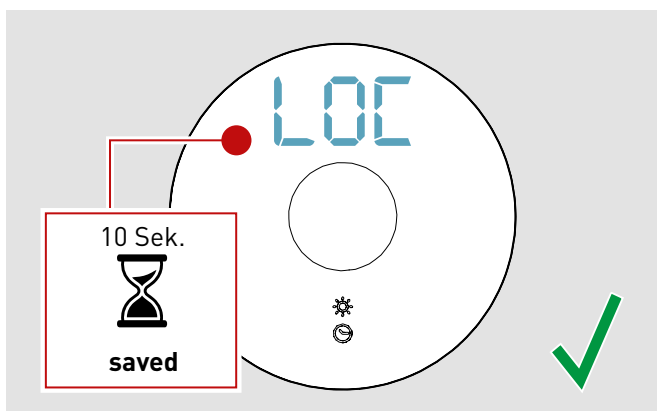
1. **Unlock the sensor** (see 6.2).
2. Press the **push-button once**. The **LED** changes to motion detection and the set value is shown in the display.
3. **Turn** the ring to change the value. The value can be set in increments of 1 from **1 to 100 minutes**.



TIP. If the value is set above 100, the display flashes three times. If the value is set below 1, "TST" appears in the display. The sensor is now in test mode. Test mode switches the lighting on or off when motion is detected, alternating each time. This test mode remains active until the user changes the ring setting.

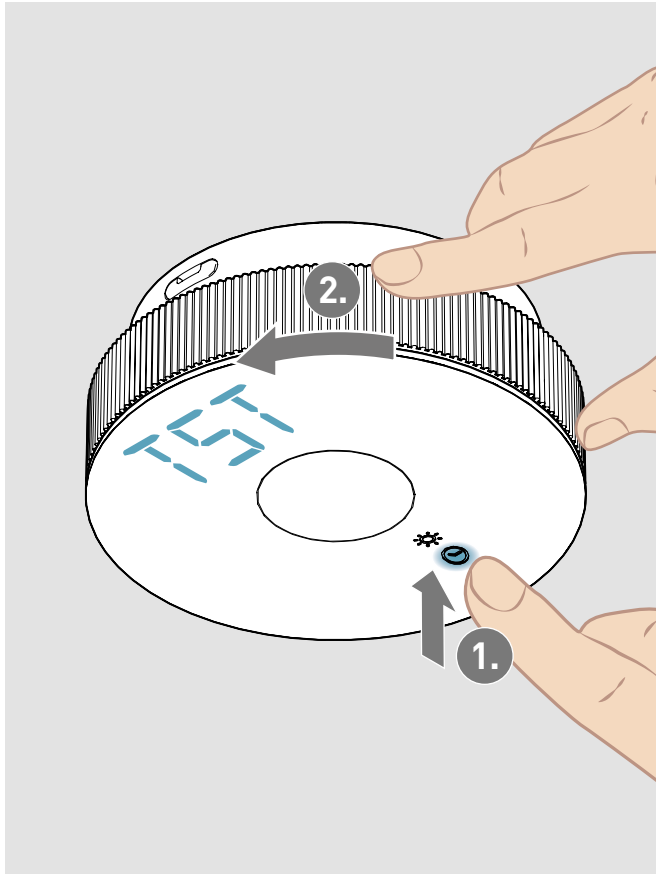


TIP. If the ring is turned further, "OFF" appears in the display. Motion detection is **deactivated**.



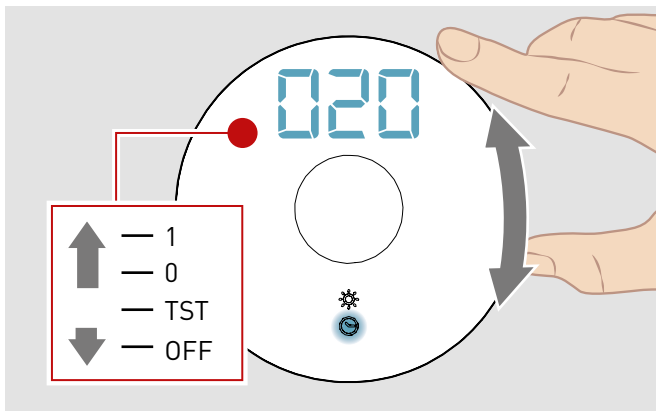
4. The set value is **saved** when no changes are made for **10 seconds**. "**LOC**" appears in the display. The settings are now **saved** and the sensor is locked again.

6.5. Test mode

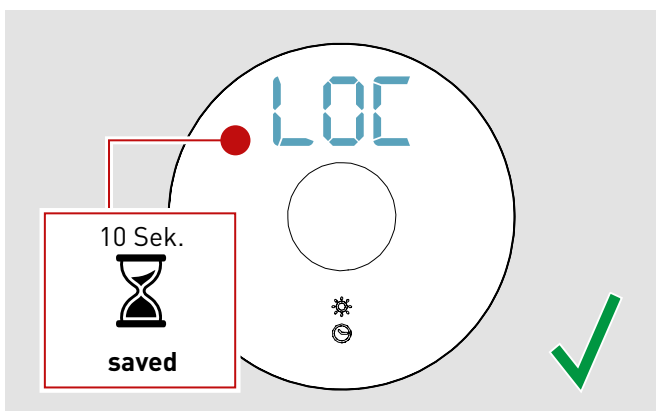


Test mode switches the lighting on or off when motion is detected, alternating each time. This test mode remains active until the user changes the ring setting. To activate test mode, proceed as follows:

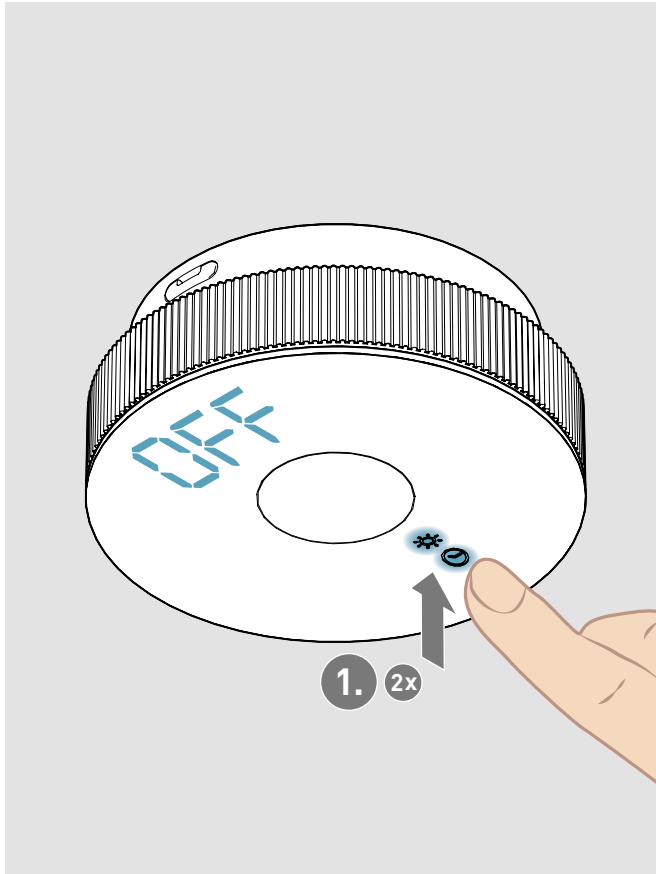
1. **Unlock** the sensor (see 6.2).
2. **Press** the push-button **once**. The LED changes to **motion detection** and the set value is shown in the display.
3. **Turn** the ring counterclockwise until **"TST"** appears in the display. The sensor is now in test mode.



4. To **exit** test mode, use the ring to set a value from 1 to 100, or select "OFF" to deactivate motion detection.
5. The setting is **saved** when no changes are made for **10 seconds**. **"LOC"** appears in the display. Test mode is now deactivated.

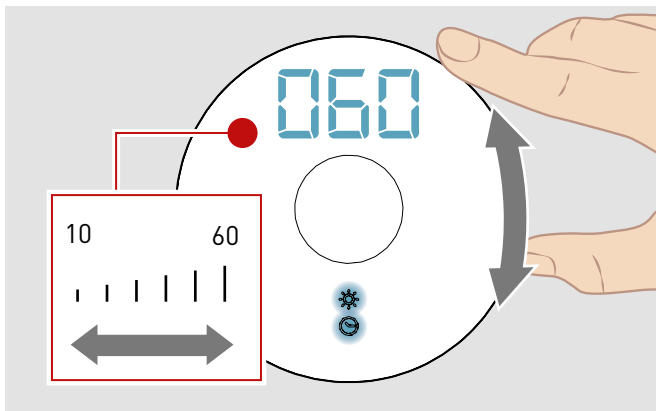


6.6. Basic light mode (IntuSens DALI-2 Broadcast only)

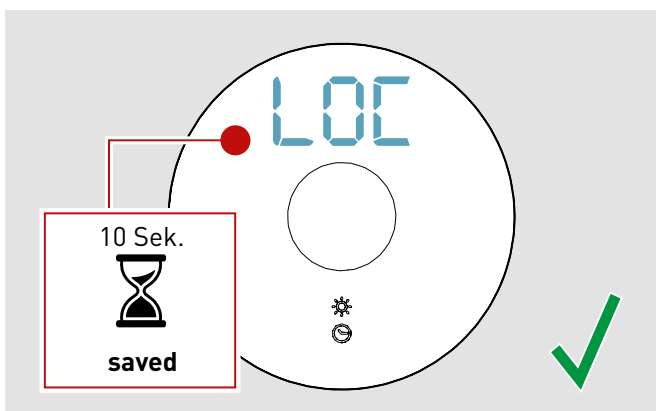


When basic light mode is set and the lighting system has switched off because there is too much light, the basic light is automatically deactivated. It is reactivated when the light value falls below the threshold. The basic light switch-off delay is the same time that is set as the switch-off delay for motion detection. The light then switches off. To activate basic light mode, proceed as follows:

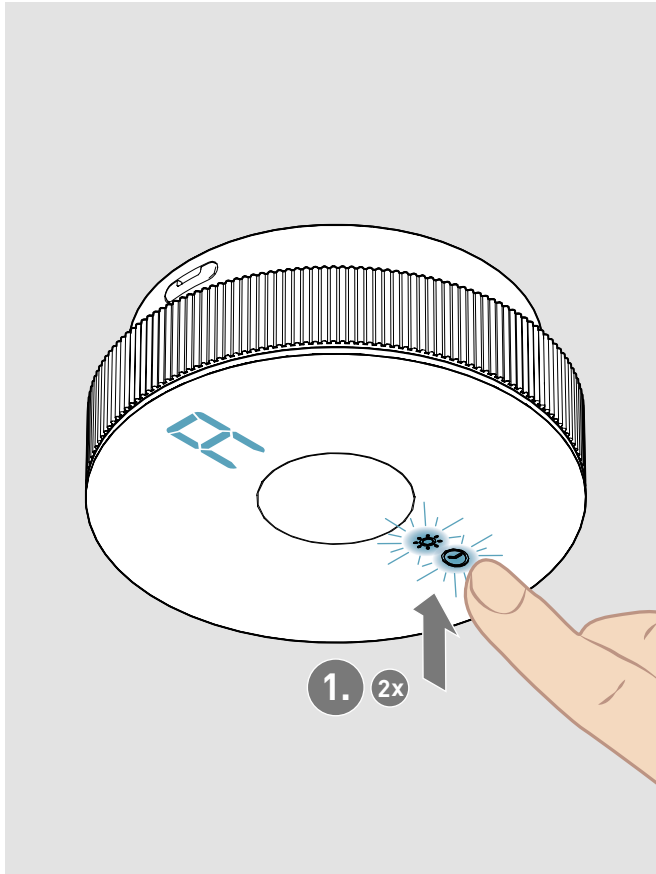
1. **Unlock** the sensor (see 6.2).
2. Press the **push-button once**. The LED changes to **motion detection** and the set value is shown in the display.
3. Press the **push-button once** more. Both LEDs light up and **"OFF"** (factory setting) is shown in the display.



4. **Turn** the ring to set the basic light value in increments of 10 from **10 to 60%**.
5. The setting is **saved** when no changes are made for **10 seconds**. **"LOC"** appears in the display. Basic light mode is now set.

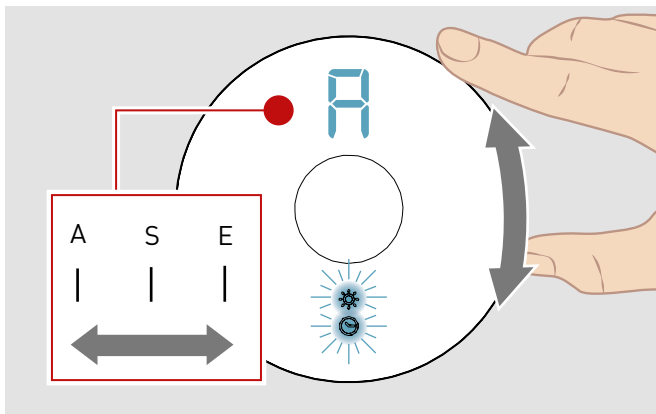


6.7. Setting automatic mode on IntuSens Switch



The IntuSens Switch can be used in three modes. To set automatic mode, proceed as follows:

1. **Unlock** the sensor (see 6.2).
2. Press the **push-button once**. The LED changes to **motion detection** and the set value is shown in the display
3. Press the **push-button once more**. Both LEDs start **flashing** and **"A"** (**factory setting: automatic operation**) is shown in the display.

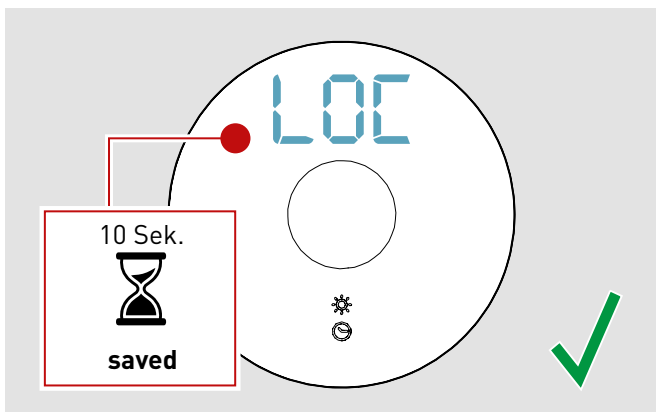


4. **Turn** the ring to switch between three modes:
 - **Automatic (A)**
 - **Semi-Automatic (S)**
 - **Extension mode (E)**

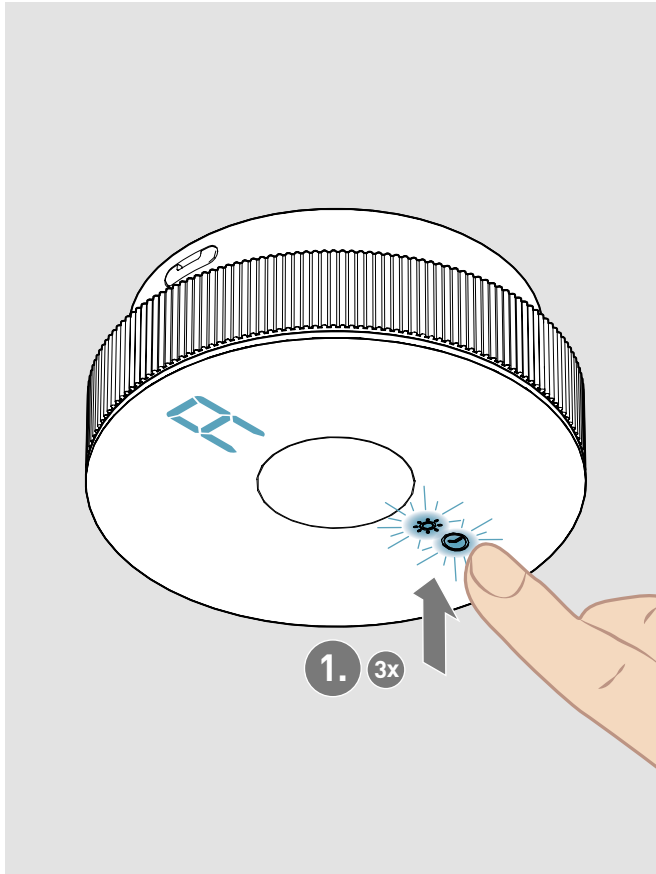


TIP. In extension mode, another switchable sensor can be connected via the push-button contact to extend the sensor range.

5. The setting is **saved** when no changes are made for **10 seconds**. **"LOC"** appears in the display. The mode is now set.

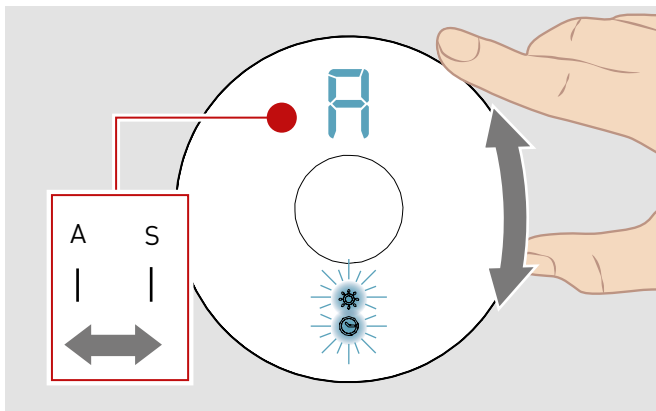


6.8. Setting automatic mode on IntuSens DALI-2 Broadcast

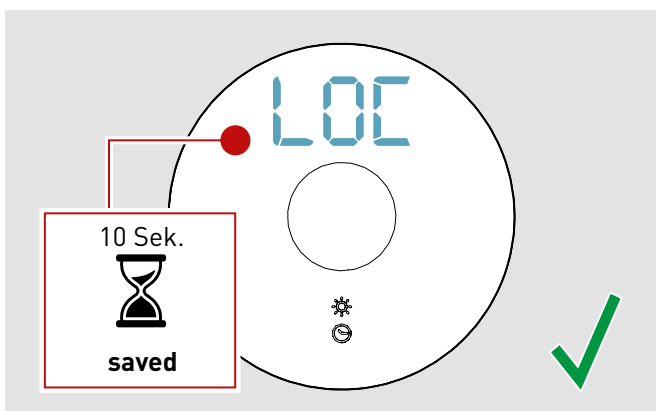


The IntuSens DALI-2 Broadcast can be used in two modes. To set automatic mode, proceed as follows:

1. **Unlock** the sensor (see 6.2).
2. Press the **push-button once**.
The LED changes to **motion detection** and the set value is shown in the display.
3. Press the **push-button once more**. Both LEDs light up and the value for basic light mode is shown in the display.
4. Press the **push-button once more**. Both LEDs start flashing and "**A**" (factory setting: **automatic operation**) is shown in the display.



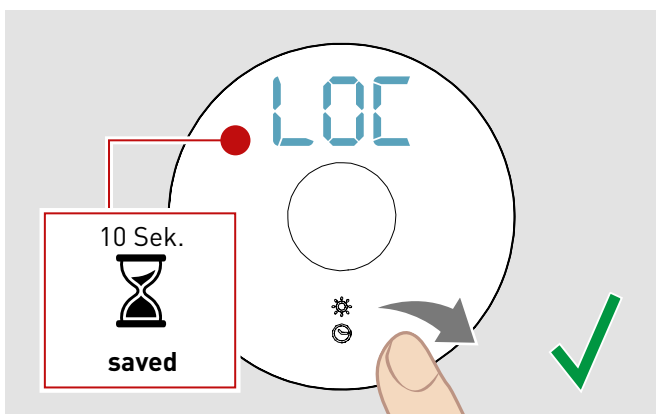
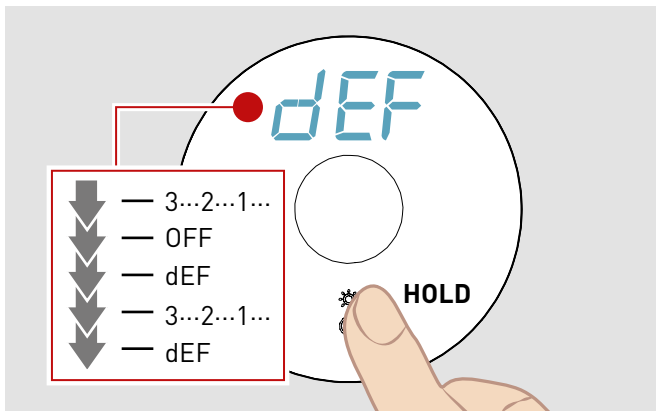
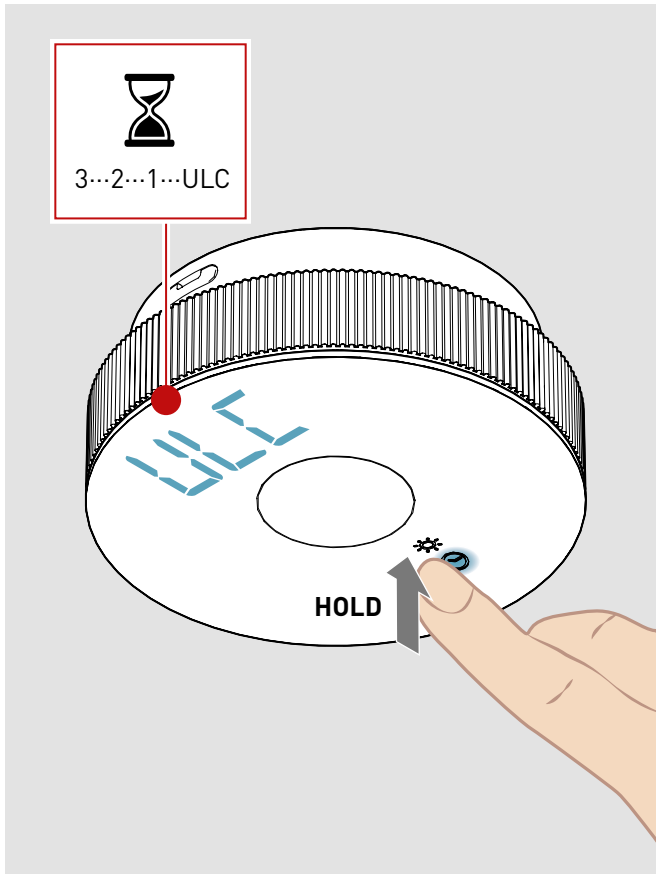
5. **Turn** the ring to switch between two modes:
 - **Automatic (A)**
 - **Semi-Automatic (S)**
6. The setting is **saved** when no changes are made for **10 seconds**. "**LOC**" appears in the display. The mode is now set.



7. RESETTING TO FACTORY SETTINGS

Resetting to the factory settings is possible as follows:

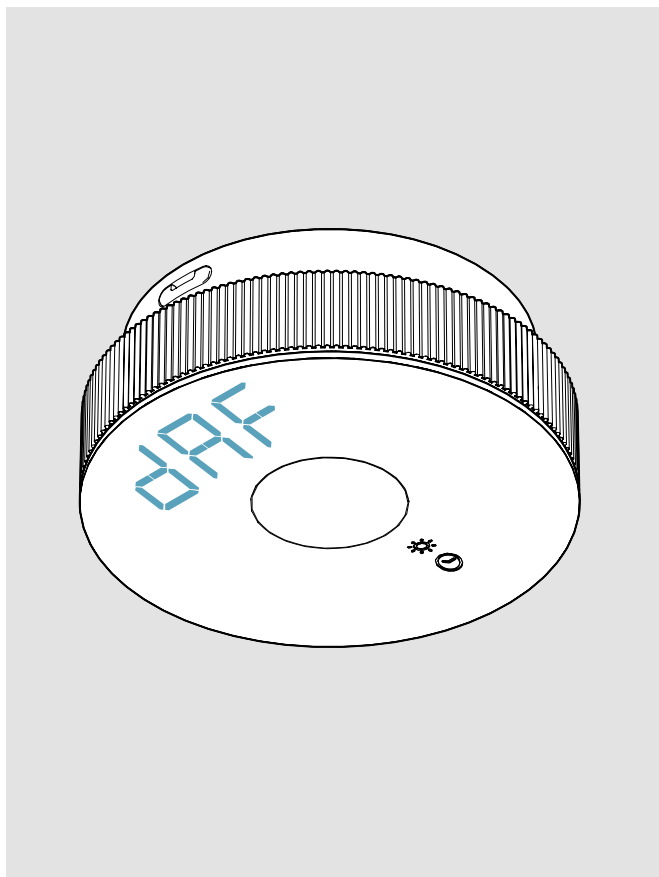
1. **Press** and hold the push-button while the sensor is locked.
2. Keep the push-button pressed until "ULC" appears, then release the push-button. The illuminance LED lights up.



3. Press and hold the push-button again for approximately 10 seconds until the **counter 3 2 1** appears and "**dEF**" then lights up in the display. **Only release the push-button now.**
4. "**LOC**" appears in the display and the sensor has been **reset** to the factory settings.



8. DALI SHORT CIRCUIT (INTUSENS DALI-2 BROADCAST)



In the event of a DALI short circuit, the message “dAF” appears in the display for DALI failure.



WICHTIG. The message will only **disappear** automatically once the short circuit has been **rectified**.



TRILUX GmbH & Co. KG

Heidestraße
D-59759 Arnsberg
+49 2932 301-0
info@trilux.com
www.trilux.com