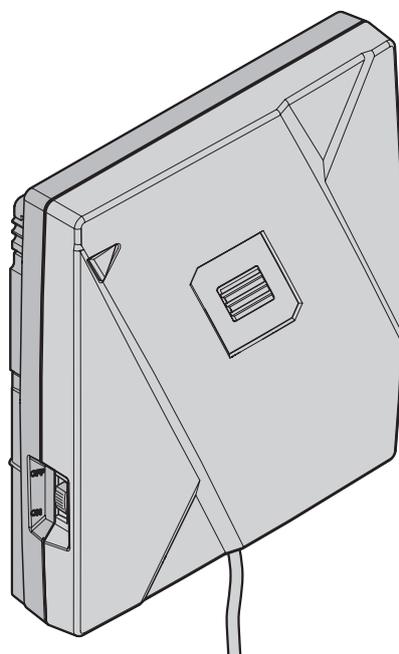


SMARTLIBERTY

— MORE TIME FOR CARE —

# Sensor module

## User documentation



## 1. Description

### Intended use

The SmartLiberty wireless sensor module allows residents to call for help from rooms or shared bathrooms. All they have to do is pull the cord or press the call button. Moreover this module can be used as a door opening detector or as a wireless entry module.

### Reference documents

Document	Description / Document no.
Data sheet	Technical features of the sensor module

### Functions

- Call button
- Pull cord
- Door opening detector (with magnet)
- Mono jack input (3.5 mm)

### Power

- Battery CR2450, 3 V, 500 mAh (replaceable). Only use batteries approved by the manufacturer (see SmartLiberty website).

### Overview

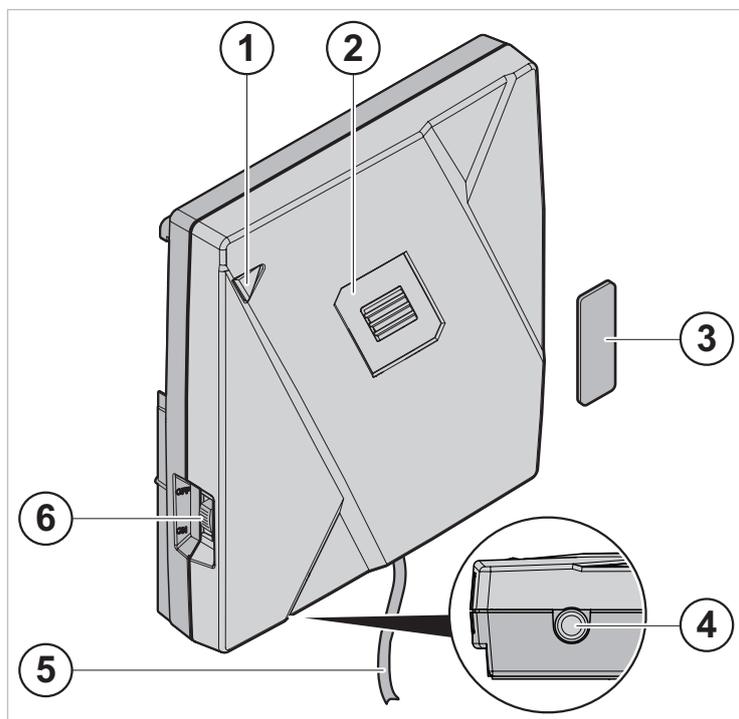


Fig. 1 Sensor module and mounting plate

- 1 Reassurance light (LED)
- 2 Call button
- 3 Door opening detector (with magnet)
- 4 Mono jack input for connecting external devices
- 5 Pull cord (or optional cable strain relief) (Fig. 10)
- 6 On/off switch

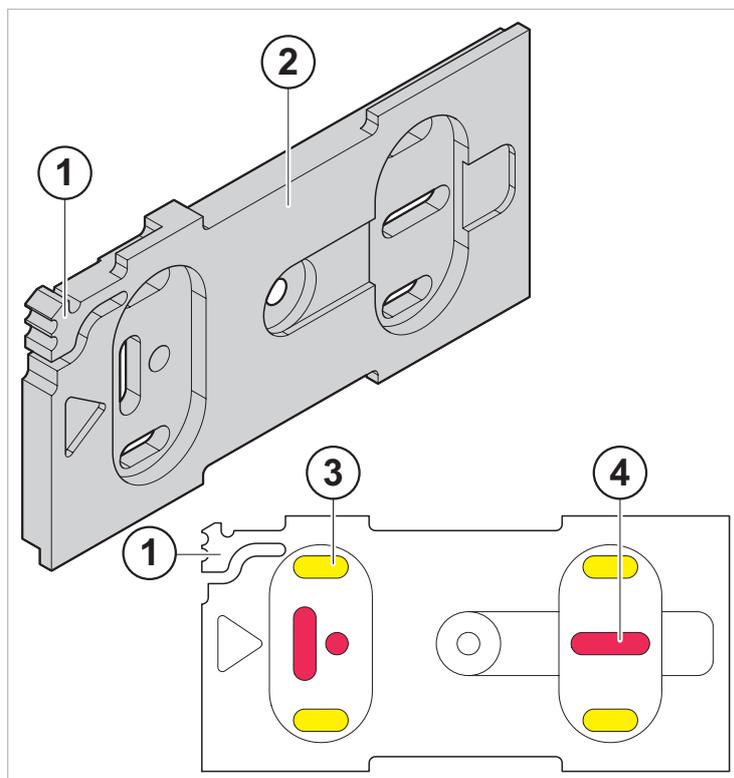


Fig. 2 Mounting plate with screw holes

- 1 Stopper
- 2 Mounting plate
- 3 Holes for attaching to a wheelchair using cable ties
- 4 Holes for wall attachment using 2 screws

## 2. Use



CAUTION

Risk of malfunction if the infrared receiver is covered!

- ▶ Do not cover the sensor module.
- ▶ Do not stick anything on the reassurance light (LED).

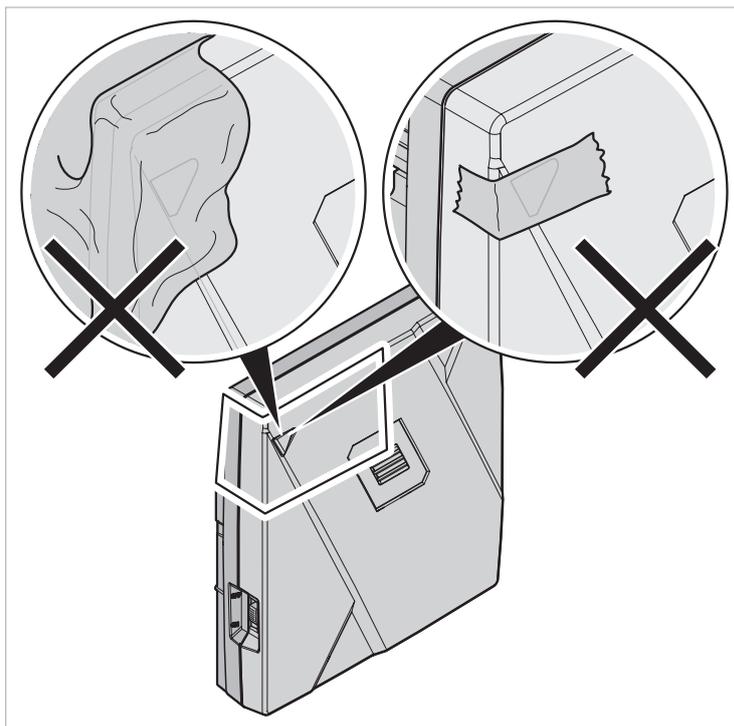


Fig. 3 Do not cover the sensor module

### Activating the sensor module

- ▶ Press the call button (2, Fig. 1) for 10 sec. until the reassurance light (LED) lights up.  
*When activated, the reassurance light (LED) flashes green.*

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Before putting into service, more stages absolutely must be carried out:

- ▶ Enter the sensor module into the software.
- ▶ Assign sensor module to a resident or a virtual user.

See *the software manual*.

### Sending a call for help

- ▶ Press the centre call button (2, Fig. 1).  
or
- ▶ Pull the cord (5, Fig. 1).  
or
- ▶ Activate the external accessory. The call is raised when the contact is closed.  
*The reassurance light (LED) lights up red.*
- The call has been received by the server.  
*The reassurance light (LED) lights up red.*
- The call has been taken over and someone will arrive to provide assistance.  
*The reassurance light (LED) flashes blue (after a short period).*
- The call has been cancelled.  
*The reassurance light (LED) flashes green for several seconds.*

### Switching the sensor module ON/OFF

- ▶ Switch the accessory ON/OFF with the switch (6, Fig. 1).  
*The LED briefly lights up red.*

## 3. Installation

### Attaching the mounting plate on the wall

- ▶ Attach the mounting plate to the wall with 2 screws.  
See «*Fig. 2 Mounting plate with screw holes*».

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- Make sure that the screw heads do not protrude from the mounting plate.
- ▶ Make sure that there is enough space between the wall (or other objects) and the mounting plate so that the sensor module can be pushed onto it.

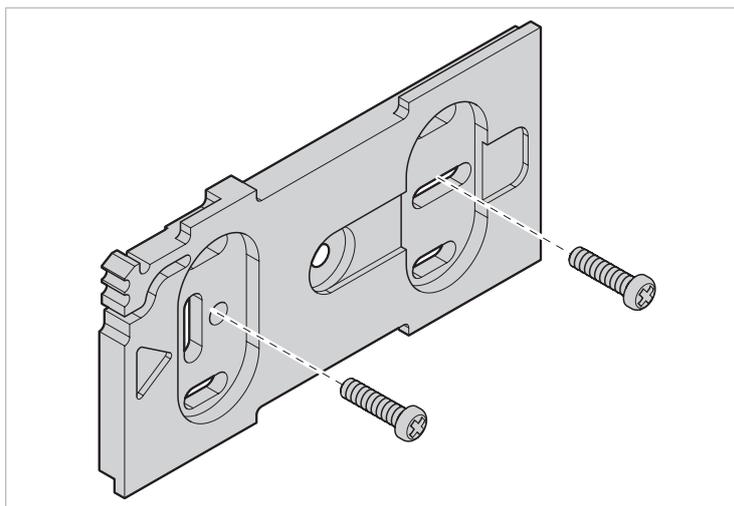


Fig. 4 Screwing the mounting plate to the wall

### Attaching the mounting plate with cable ties

- ▶ Use cable ties to attach the mounting plate to a wheelchair or a bed for example.

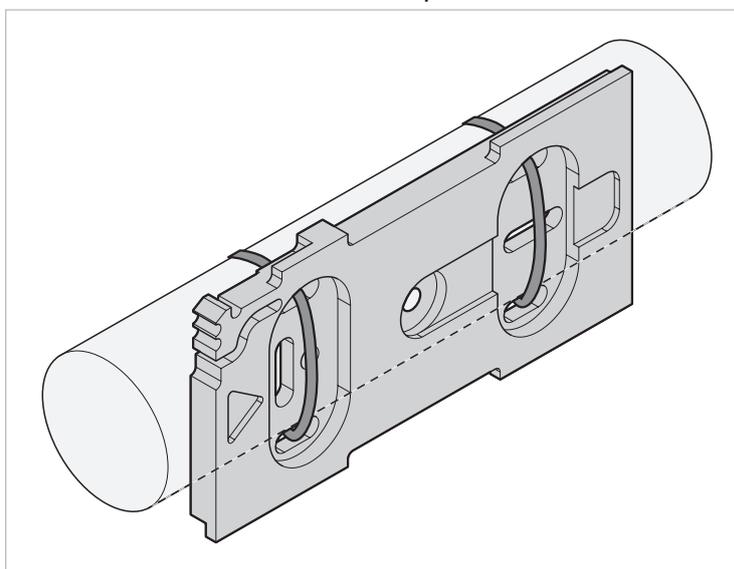


Fig. 5 Attaching the mounting plate with cable ties

### Hanging the sensor module

1. Place the housing of the sensor module centrally on the mounting plate and then push it to the right and snap it into place.

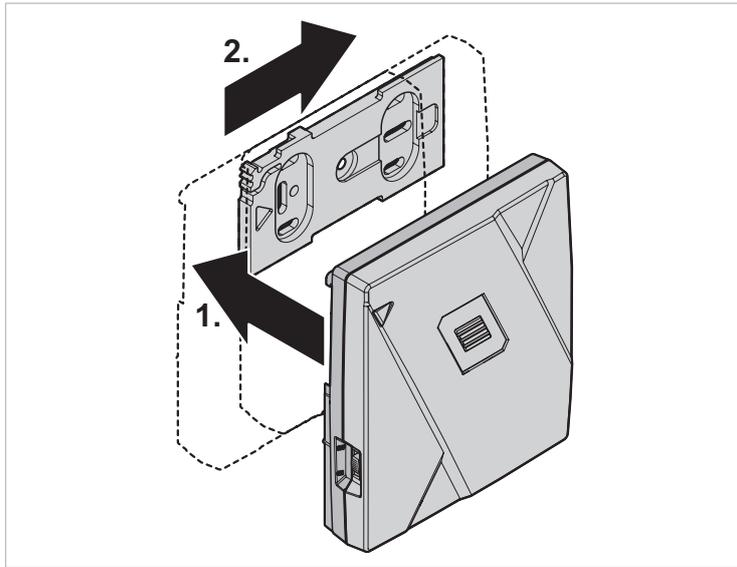


Fig. 6 Hanging the sensor module

2. If only the call button or the mono jack input is used: Pull the call cord out from under the housing and cut it off.

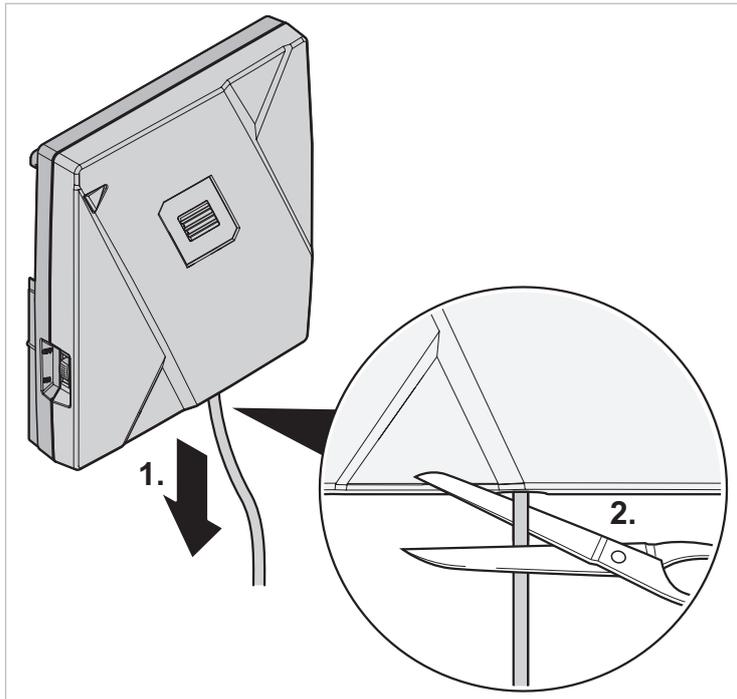


Fig. 7 Pulling out the pull cord and cut it off

### Mounting as door opening detector (with magnet)

The magnet can be positioned in 3 places depending on the application:

- Left, right and on the bottom side

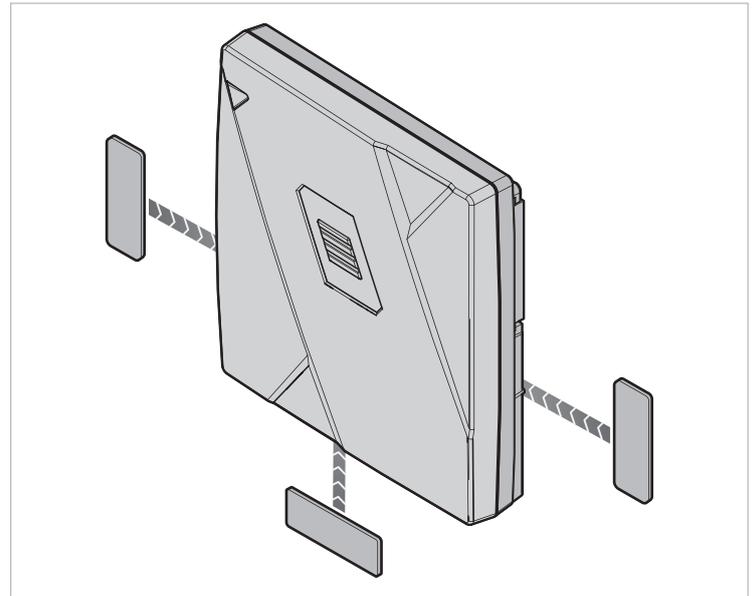


Fig. 8 Possible positions of the magnetic sensor

- ▶ Mount the magnet on the door frame and the housing on the door (or vice-versa), e.g. with double-sided tape or two screws.

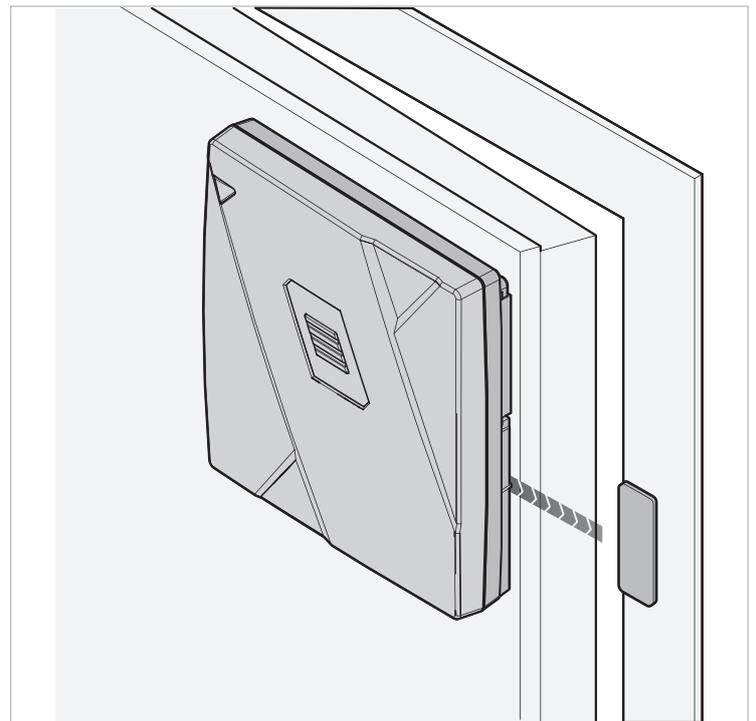


Fig. 9 Door opening detector (with magnet)

### Connecting accessories

1. Connect external devices with a 3.5 mm mono jack plug to the mono jack input.

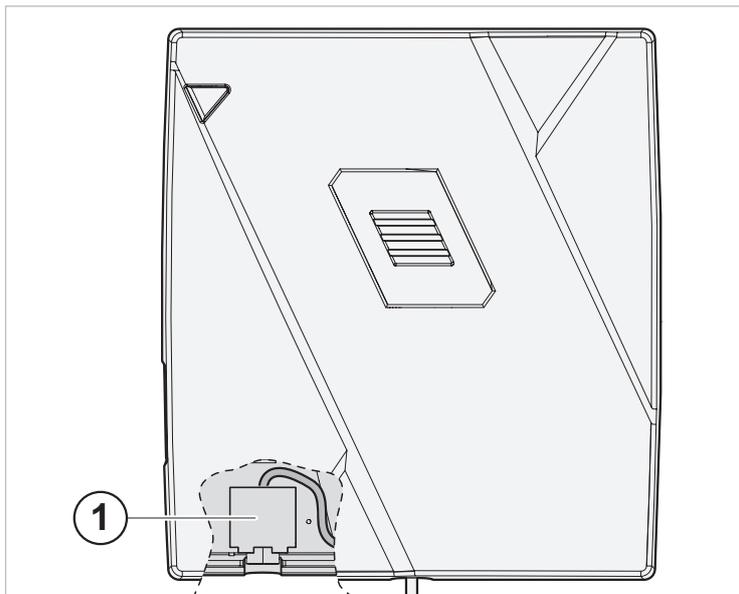


Fig. 10 Connecting the 3.5 mm mono jack plug

- 1 Mono jack input (3.5 mm)
2. Secure the cable to the cable strain relief with cable ties.

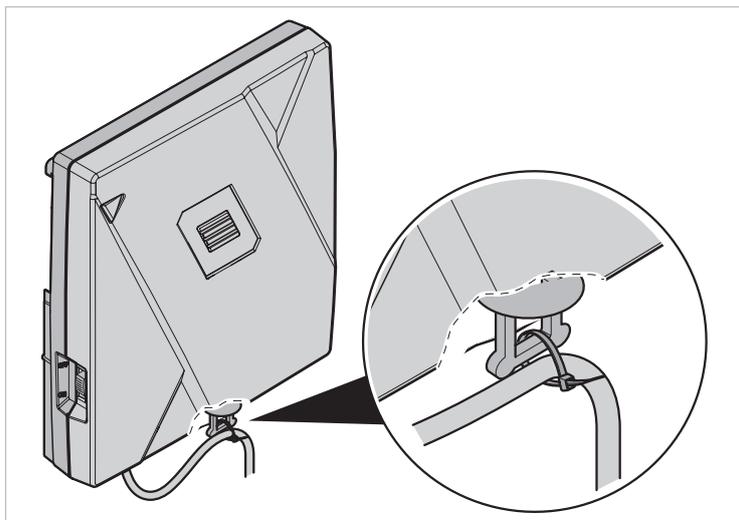


Fig. 11 Strain relief with cable tie

### 4. Uninstalling

The sensor module housing must be opened in order to:

- change the battery

#### Disengaging the sensor module from the plate

1. Press the stopper on the mounting plate. If necessary, use a pointed object, e.g. a screwdriver.
2. Push the sensor module outwards and unhook.

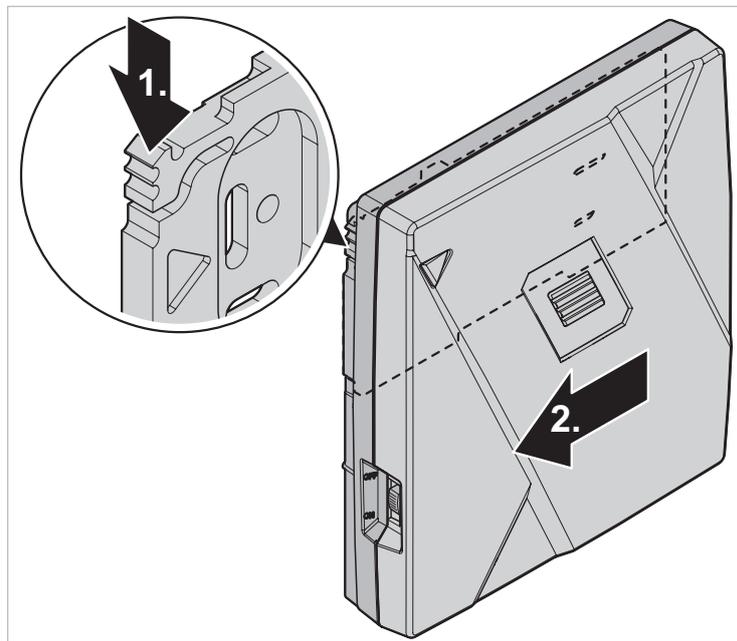


Fig. 12 Disengaging the sensor module

#### Opening the housing

- Use a Torx T6 screwdriver to unscrew the bottom of the housing.

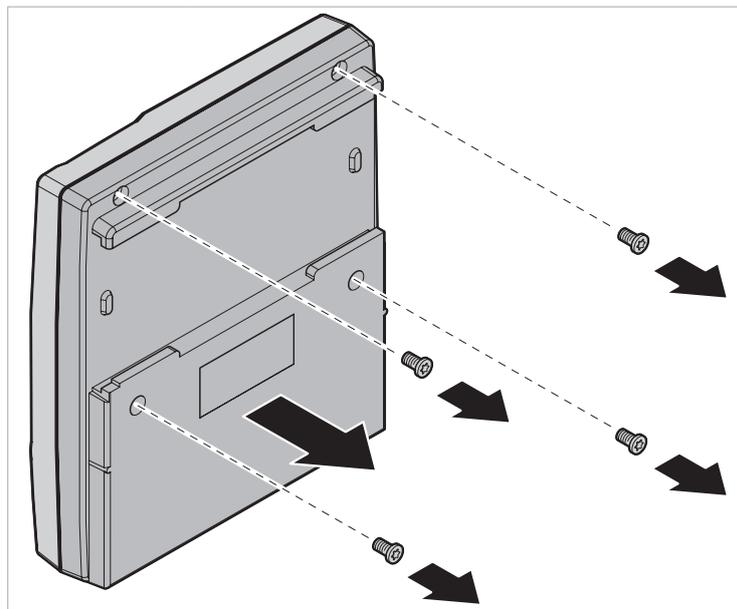


Fig. 13 Unscrewing the housing

#### Closing the housing

- Use a Torx T6 screwdriver to uniformly tighten the screws in an even cross-like pattern.

## 5. Replacing the battery

The sensor module works with a CR2450 3 V 500 mAh battery.

1. Open the housing.  
See «4. Uninstalling»

 <b>CAUTION</b>	<b>Risk of damaging the device!</b> ▶ Do not touch the electronic circuit with a metal tool.
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2. Tilt the upper part of the printed circuit board slightly outwards. Do **not** pull the battery compartment and do **not** remove the printed circuit board from the module.
3. Remove the used battery. Push the battery out of its compartment with the help of a pen for example.

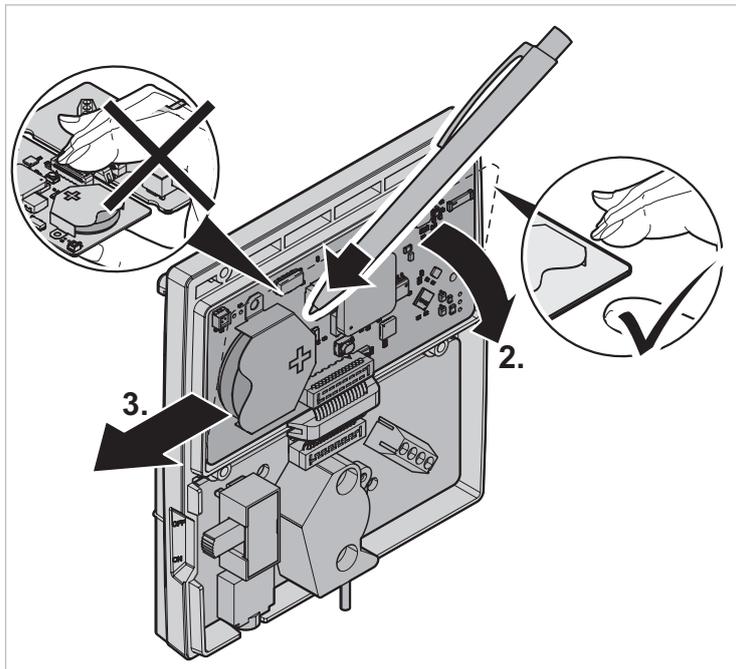


Fig. 14 Removing the battery

4. Place a new battery in the battery compartment.  
The + must point upwards.
5. Place the printed circuit board back in its housing.
6. Close the housing again.

## 6. Maintenance

- ▶ Replace the housing if it is cracked/broken.

### Cleaning

 <b>CAUTION</b>	<b>Risk of damage!</b> ▶ Do not clean with ultrasound. ▶ Do not sterilise in an autoclave. ▶ Do not machine wash.
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- ▶ Clean the sensor module regularly with a cloth and a 50 % isopropyl alcohol solution.

## 7. Disposal



Directive DEEE 2012/19/CE on electrical and electronic equipment waste

- ▶ Dispose of the package and the end-of-life product in an appropriate recycling facility.
- ▶ Do not discard the product with household waste.
- ▶ Do not burn the product.
- ▶ Remove the battery.
- ▶ Recycle the battery in compliance with legal requirements and do not discard with household waste.

