INSTALLATION AND OPERATING INSTRUCTIONS

SIEGENIA®
brings spaces to life

DRIVE

SIEGENIA senso secure

Radio sensor for status and locking monitoring system of windows.

Window systems
Door systems
Comfort systems

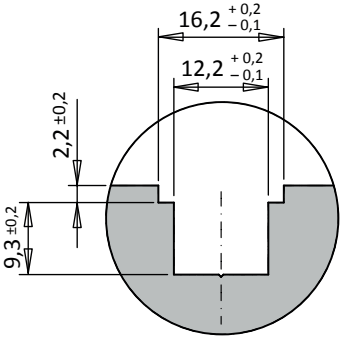
Content

1 Target group of this documentation

- This documentation is intended for use by specialists and end users.

2 Intended use

- SIEGENIA senso secure is a concealed sensor that monitors the status and locking of windows.
- SIEGENIA senso secure transmits the status wirelessly via EnOcean radio to the „SIEGENIA Connect Box“ or to other remote stations, which support the EnOcean Equipment Profile (EEP) of the SIEGENIA senso secure (e. g. mediola EnOcean PlugIn).
- Use the sensor only when it is in a technically sound condition.
- Do not modify the unit's components in any way.
- Conditions for the window:
  - 16 mm hardware groove eurogroove



  - Timber windows: observe the specifications of DIN 68121

3 Safety notes

Observe the safety regulations for ladders, steps and overhead work in particular heights etc.

4 General information

4.1 Instructions for disposal

Disposal according to WEEE directives. Control device must not be disposed of in the household waste.

4.2 Notes on dimensions

All the dimensions in this documentation are specified in millimetres (mm).

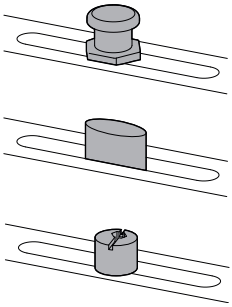
4.3 Installation video

As a supplement to this document, you can stream a comprehensive assembly video via the following link:

https://www.youtube.com/watch?v=qHL-rTip8jE&feature=youtu.be

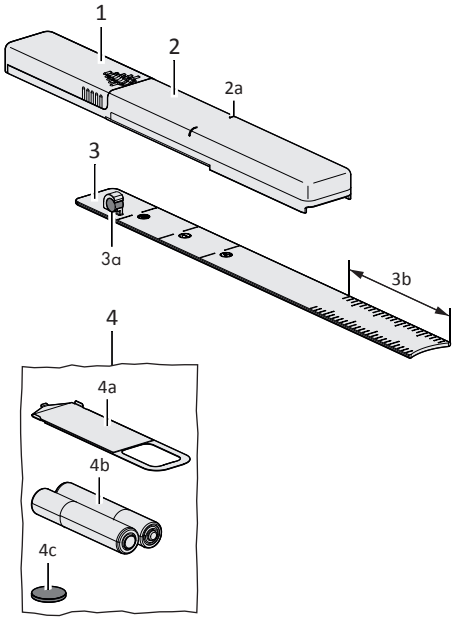
4.4 Terms and definitions of windows

- Frame: frame that is firmly attached to the outside wall.
- Window sash: moving frames which can be opened*, closed and left ajar.
- Hardware: functional parts in the window (usually metal), which connect the window sash to the frame. The hardware is there to open* and lock the window.
- Cam: integral part of the hardware. Cams are seated in an oblong hole in the components of the window sash and can have different shapes. Examples:



*opening, turning, tilting or parallel action

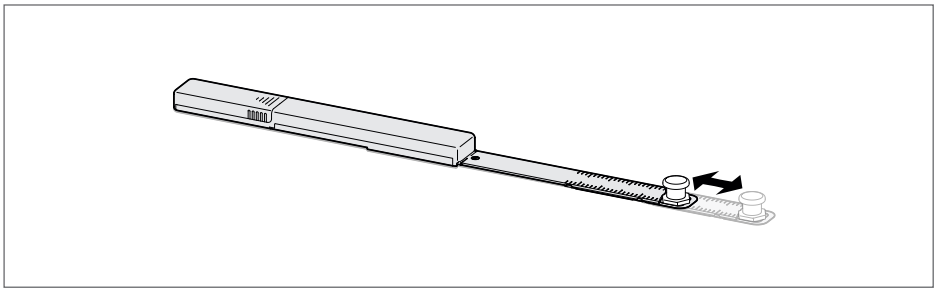
5 Scope of delivery and designation of parts



1	Battery compartment
2	Casing including sensor (self-adhesive)
2a	Frame magnet marking
3	Slider
3a	Sash magnet
3b	Cropping area
4	Bag with accessories
4a	Cam catcher (self-adhesive)
4b	Batteries AAAA (2x)
4c	Frame magnet (self-adhesive)

6 Function

- SIEGENIA senso secure is a concealed sensor that monitors the status and locking of windows.
- The sensor casing is firmly attached to the hardware. The slider is fixed to the cam and, according to the cam position (locking position of the window), relay impulses to the sensor.

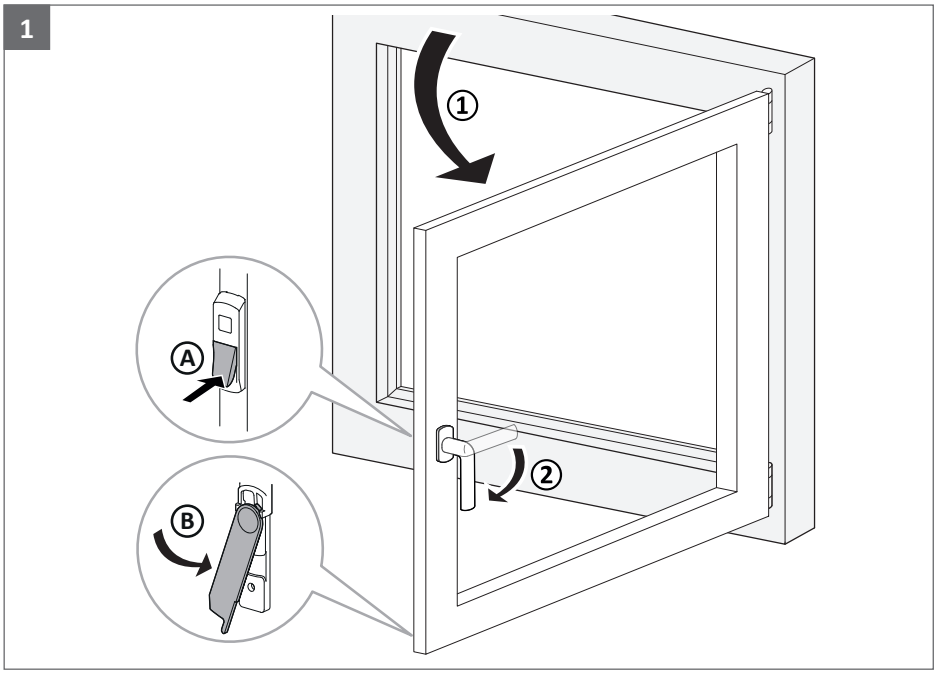


7 Preparations for assembly

- senso secure should be installed to be as free from interference as possible. The following interferences can have a negative influence on the radio signal:
  - water pipes
  - stone and concrete walls
  - metal objects
  - air conditioning units
  - wireless devices (e. g. radio telephones, baby monitors, Bluetooth loudspeakers, etc.)
  - Radio networks on on the same radio channels
- External magnetic and/or electromagnetic sources (e. g. power lines, neodymium magnets, etc.) can impair the functioning of the sensor and and cause incorrect notifications.

Youwill find notes on the EnOcean wireless range planning via the following link: https://www.enocean.com/fileadmin/redaktion/pdf/app_notes/AN001_RANGE_PLANNING_Nov_2018_en.pdf

1

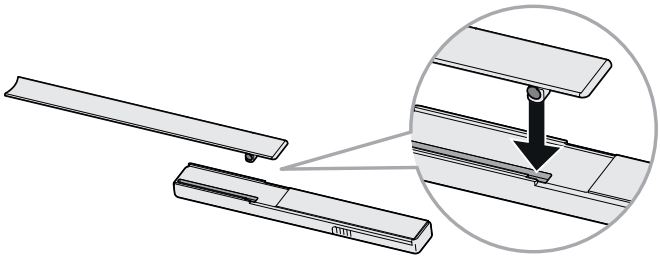


Open the window in the turning position and turn the handle into the locking position

If necessary, the anti-mishandling device must be used to be able to turn the handle into the locking position.

The position and design of the anti-mishandling device could vary according to the hardware (example: **A** = SIEGENIA TITAN, **B** = SIEGENIA FAVORIT).

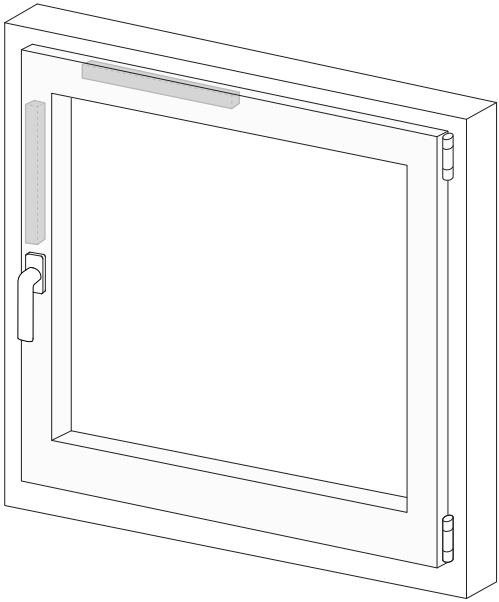
2



Position the slider in the casing

Do **not** remove the protection foil from the adhesive tapes.

3

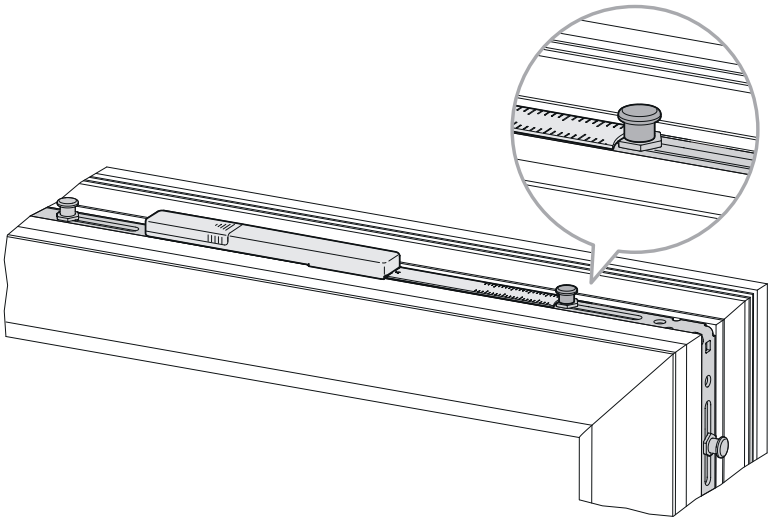


Position senor on the hardware of the window sash

Suitable installation location on the window:

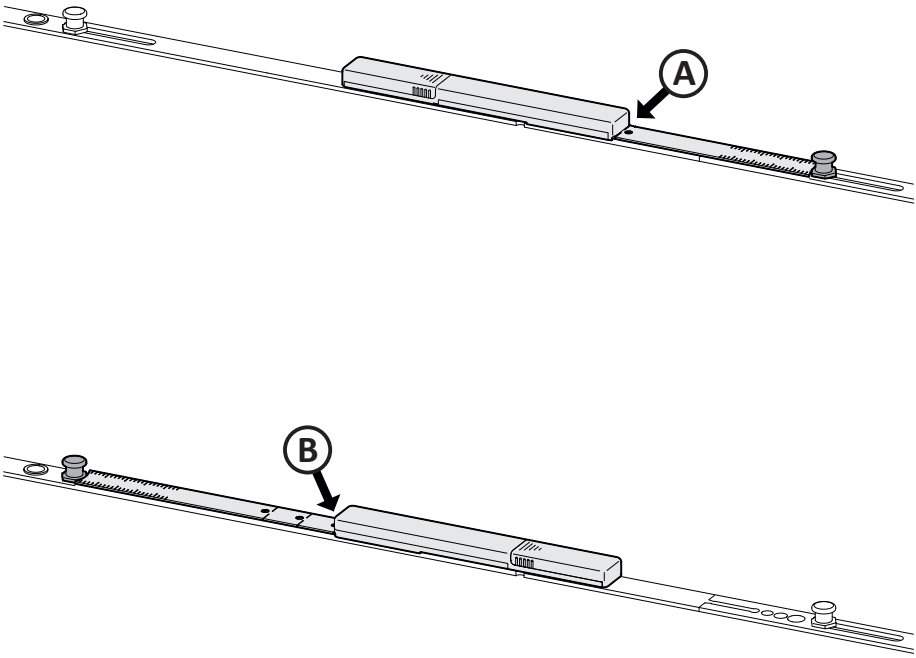
- horizontal: top
- vertical: above the window handle

4



Join the slider to the cam to sit flush.

5a

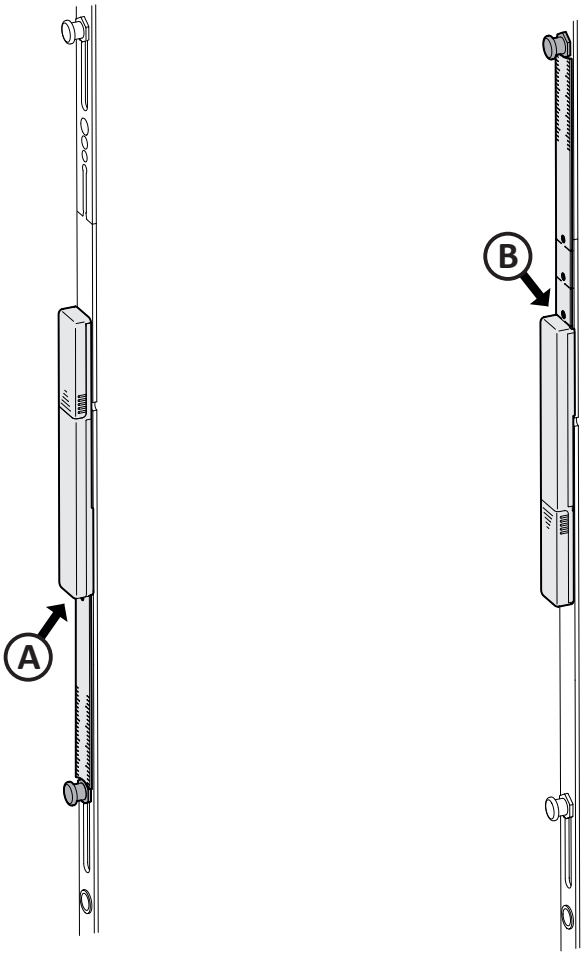


For horizontal installation: move slider to position **A** or **B**

- If the cam is seated on the right of the sensor, the slider must be in position **A** for the installation.
- The oblong hole of the cam is not covered in the installation of the slider.

- If the cam is seated on the left of the sensor, the slider must be in position **B** for the installation.
- The oblong hole of the cam is covered in the installation of the slider.

5b

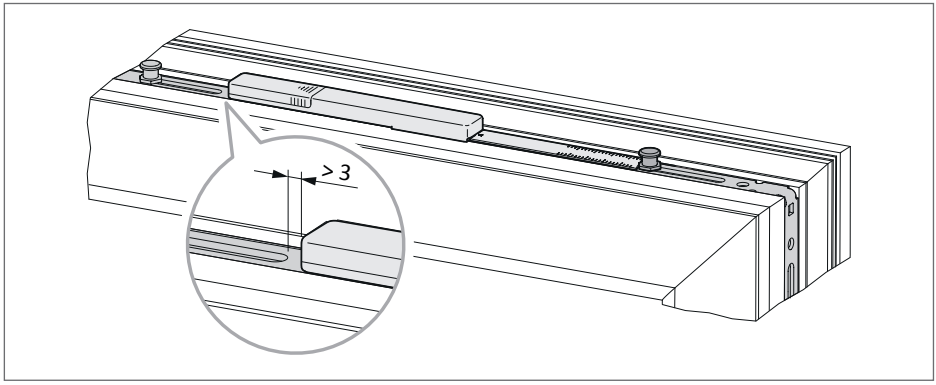


For vertical installation: move slider to position **A** or **B**

- If the cam is seated below the sensor, the slider must be in position **A** for the installation.
- The oblong hole of the cam is not covered in the installation of the slider.

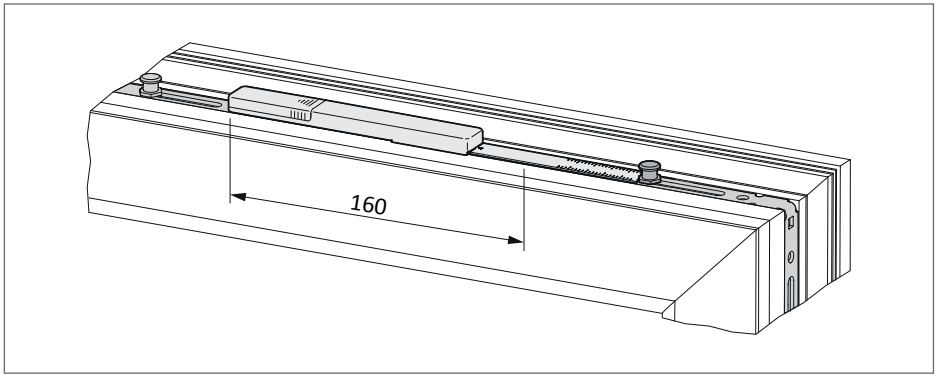
- If the cam is seated above the sensor, the slider must be in position **B** for the installation.
- The oblong hole of the cam is covered in the installation of the slider.

7.1 Notes on positioning the sensor

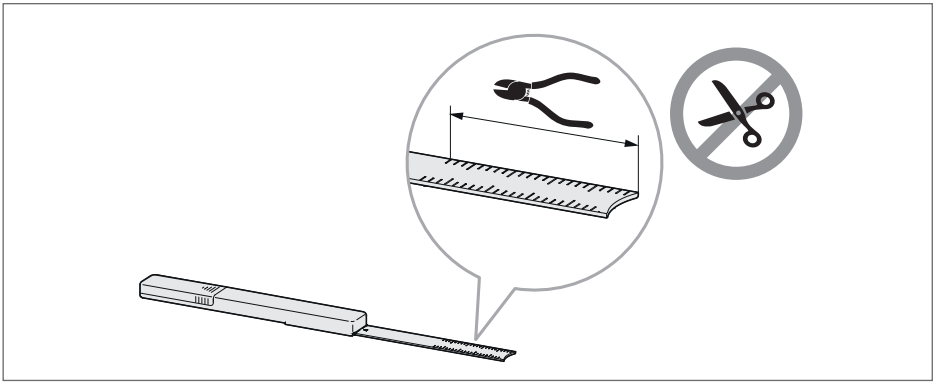


The interval to the next projecting hardware component must be greater than 3 mm so that the battery compartment can be opened without any problems.

The interval to the next oblong hole must be greater than 3 mm. The cam moves in the oblong hole during the locking of the window and could otherwise damage the sensor.



The sensor must be flat surface-mounted 160 mm in the rear area



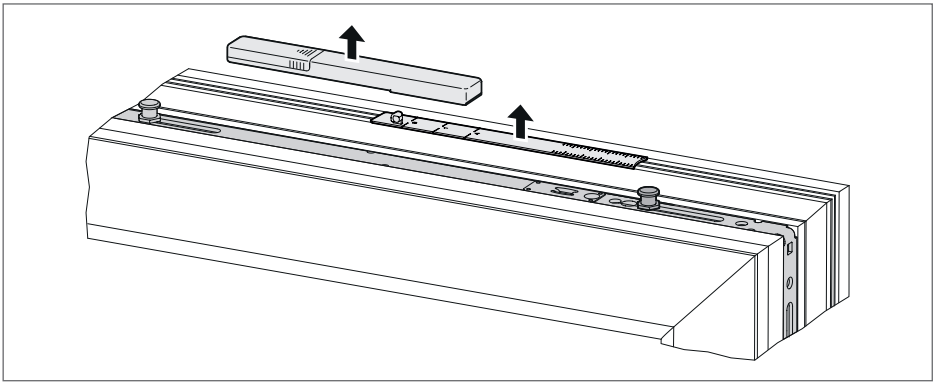
If the interval to the next projecting hardware component or oblong hole is less than 3 mm, shorten the slider in the marking area using a side cutter.
Any unevenness on the cut edge must be rectified.

⚠ ATTENTION

Material damage due to improper shortening of the slider

Inaccurate cut and/or breakability of the slider is possible if the slider is cut with scissors

- The slider must not be shortened with scissors.
- The slider must be shortened using a side cutter.

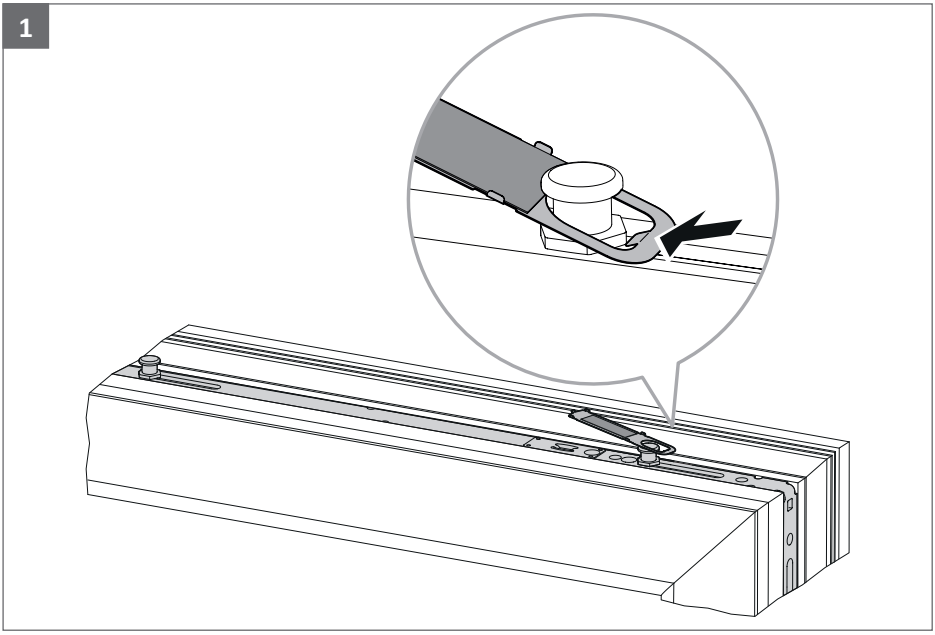


Remove sensor from window sash

8 Installation

8.1 Installation of window sensor

1

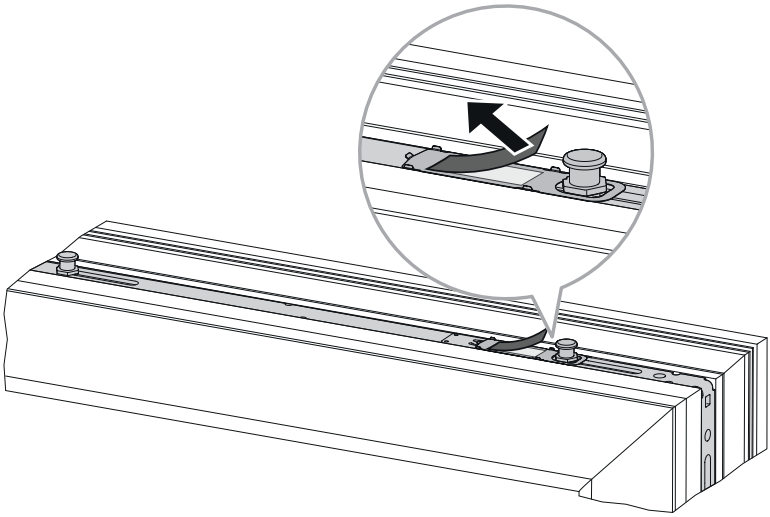


Guide cam catcher over cam

The window sash and hardware components must be free from dust and grease (clean if necessary).

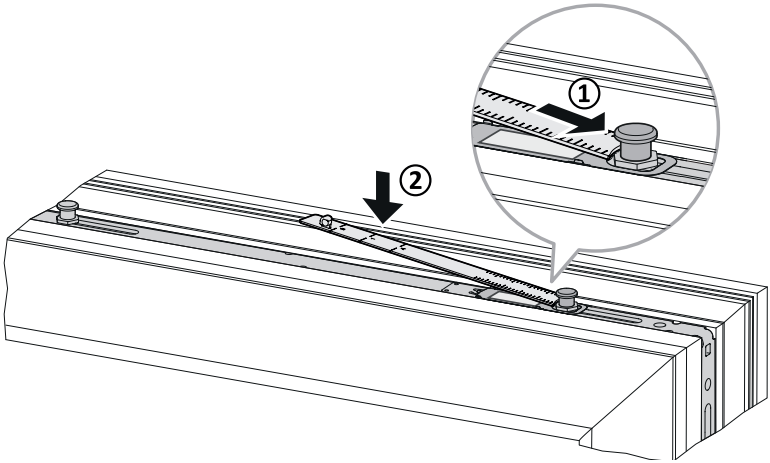
The lap on the cam catcher must grasp beneath the cam.

2



Remove protection foil from cam catcher adhesive tape

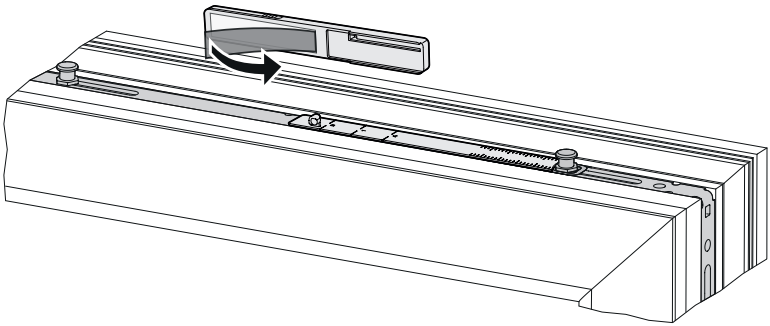
3



Glue the slider onto the cam catcher

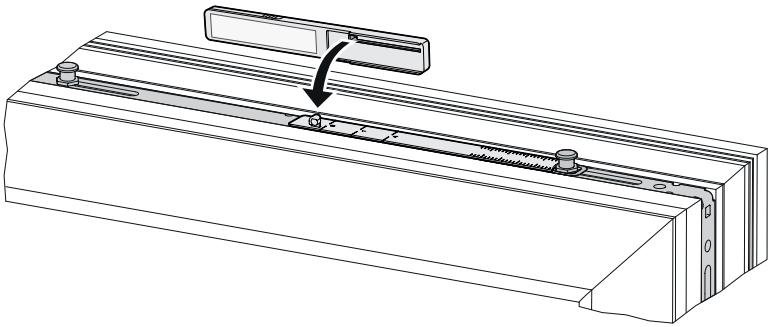
The slider must be seated closely on the cam (< 1 mm clearance).
Press the slider onto the cam catcher for a few seconds until the glue has hardened.

4



Remove protection foil from casing adhesive tape

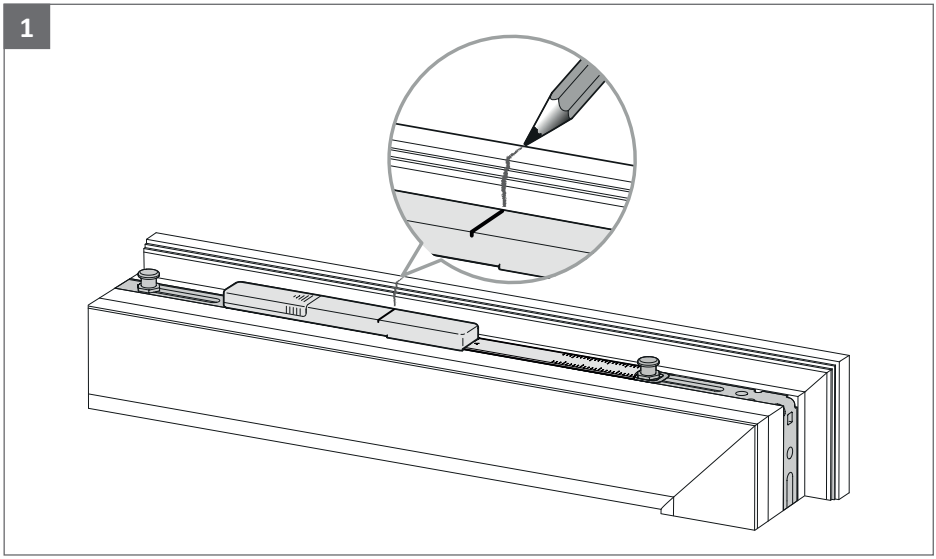
5



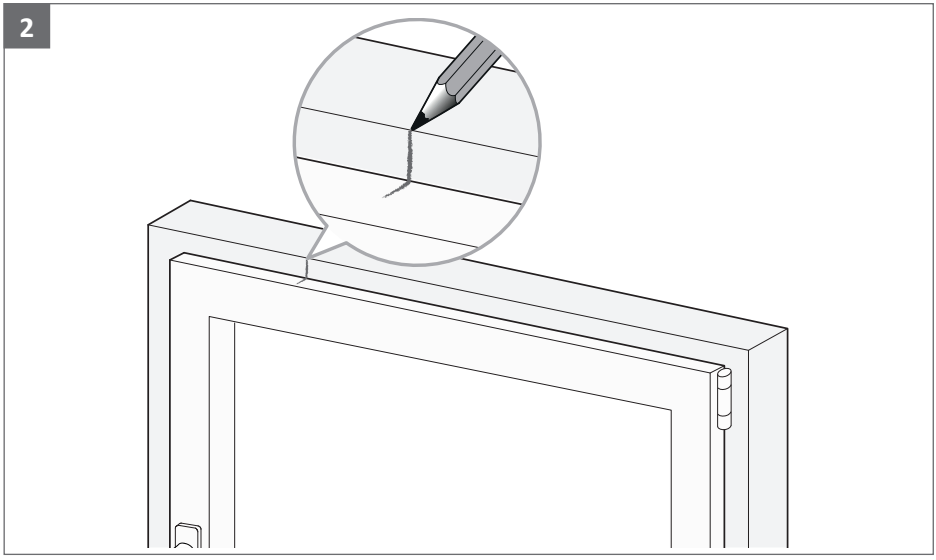
Glue sensor to hardware

Ensure slider is correctly positioned (**A** or **B**; see pages 10 and 11).
Press the sensor to the hardware for a few seconds.

8.2 Installation of frame magnet

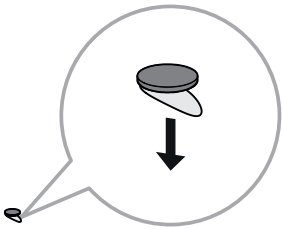


Transfer the frame magnet marking to the window sash



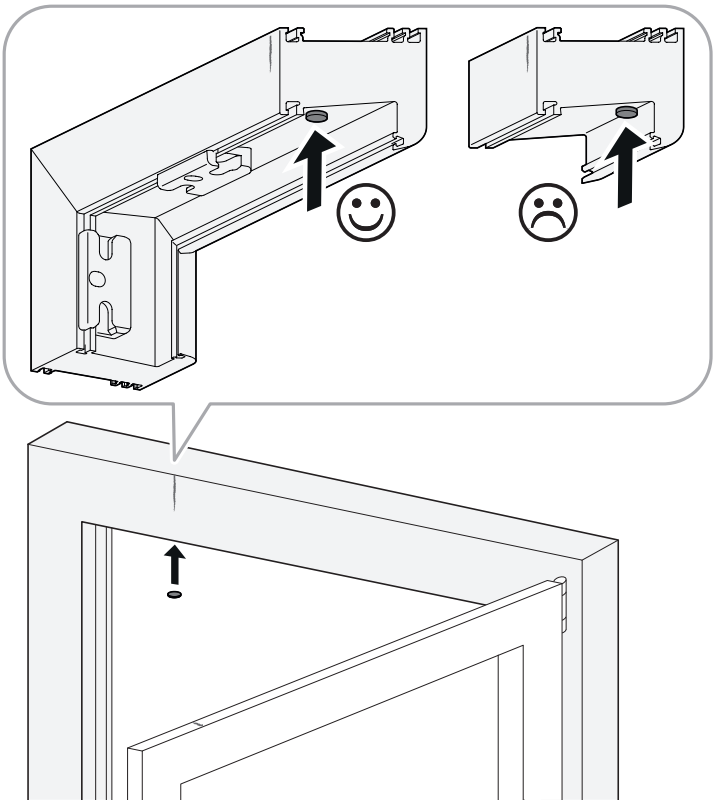
Transfer the window sash marking to the frame

3



Remove protection foil from frame magnet

4



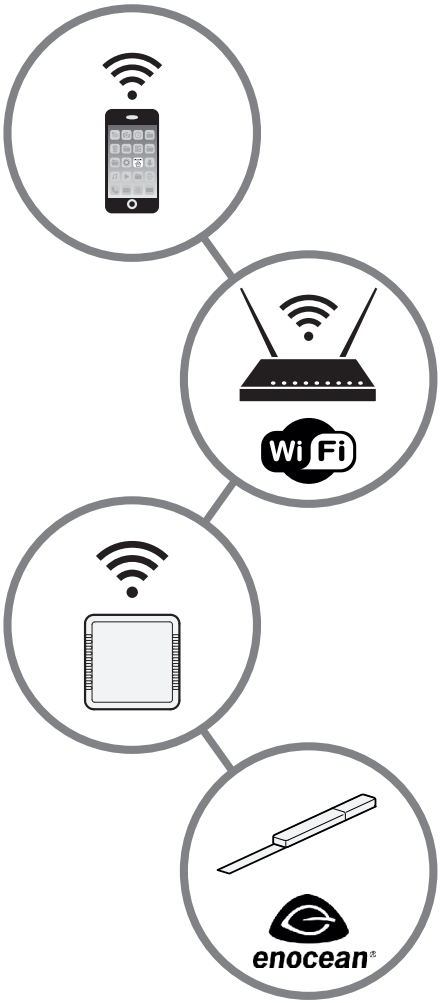
Glue frame magnet to the frame from the inside

The frame and hardware components must be free from dust and grease (clean if necessary).

Press the frame magnet onto the frame for a few seconds until the glue has hardened.

9 Operation

The window sensor SIEGENIA senso secure, in conjunction with the „SIEGENIA Connect Box“ and the SIEGENIA Comfort app, can monitor the status and locking of windows.



9.1 Device functions in the SIEGENIA Comfort app

9.1.1 Status indicator

The status indicator notifies the status of the connected window.

- Window locked
- Window not locked (tilted)
- Window not locked (turn-opened)

9.1.2 Signal tone

In case of vibration of the connected window, the signal tone will be emitted for approx. 30 seconds.

9.1.3 Battery status

The charging status of the battery is indicated in percent.

9.1.4 Replacing the batteries

The battery can be replaced with step by step support from the app.

9.1.5 Last alarm

The most recent alarm is indicated with date and time.

9.1.6 Statistics

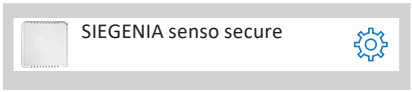
The history of all window statuses is documented and can be inspected.

9.2 Connect the devices with each other

1. Set up SIEGENIA Connect Box according to assembly instructions H47.MOTS013EN

2. Open SIEGENIA Comfort app

3. SIEGENIA senso secure select

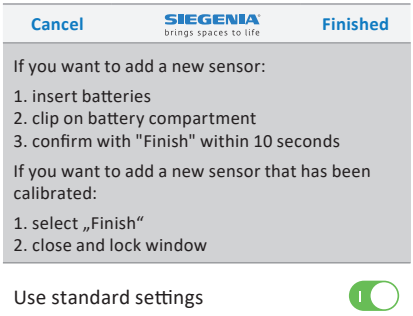


4. Select »connected devices«

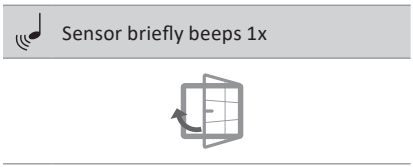
5. Add new device

6. Set up window sensor
Note: the setup is carried out step by step via the SIEGENIA Comfort app. The following figures demonstrate this sequence of steps.

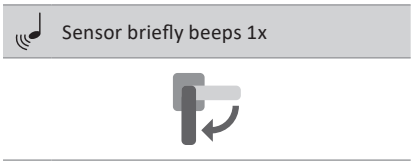
7. Add window sensor



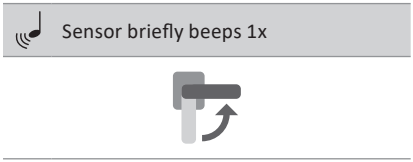
8. Close the window



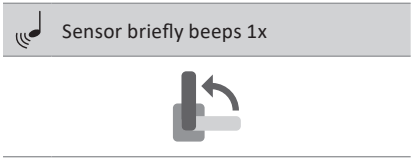
9. Lock window



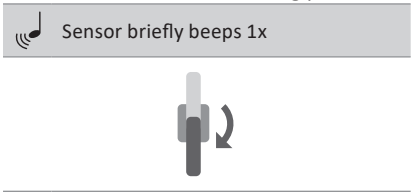
10. Turn window handle to 90°



11. Turn window handle to 180°



12. Turn window handle to locking position



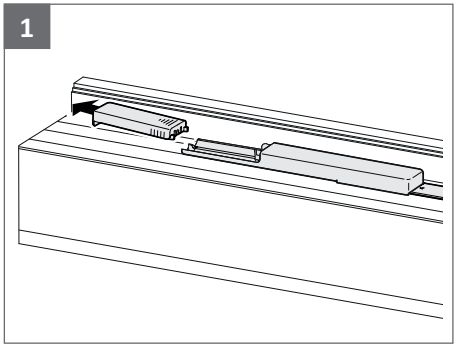
13. The window sensor has been successfully integrated

10 Care and maintenance

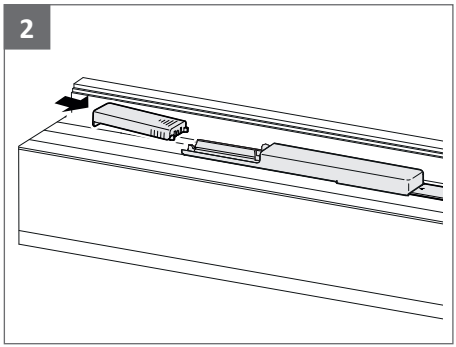
10.1 Cleaning

- Never use cleaning agents that are aggressive or contain solvents, or sharp-edged objects, as these may damage the surfaces of the casing.
- Never clean the unit with a high-pressure cleaner or steam-jet cleaner.

10.2 Replacing the batteries

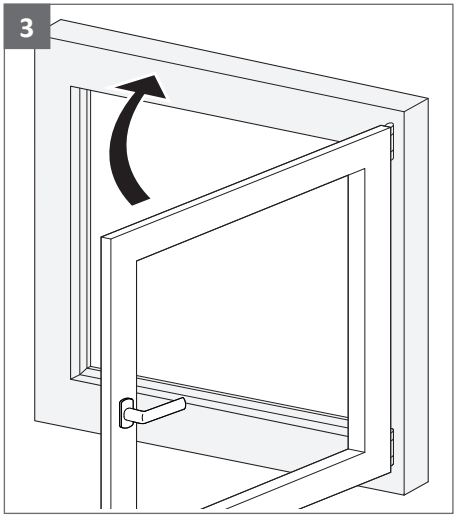


Remove battery compartment and batteries



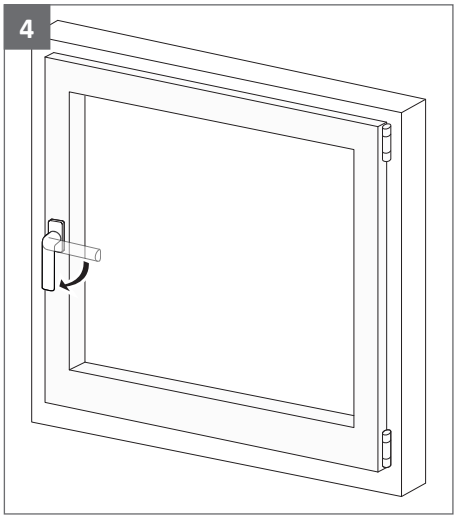
Insert new batteries into the battery compartment and insert into the sensor

Wait until the sensor briefly beeps 1x



Close window - **do not lock**
The correct position of the frame magnet is checked automatically

Wait until the sensor briefly beeps 1x

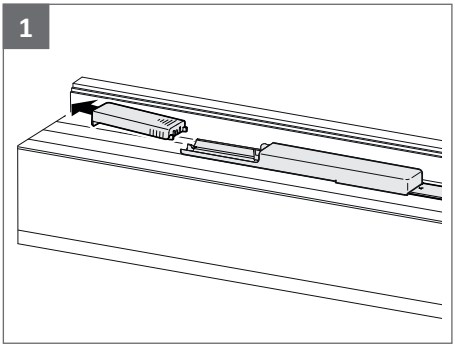


Lock window handle

Sensor briefly beeps 2x

11 Resetting the sensor to the factory setting

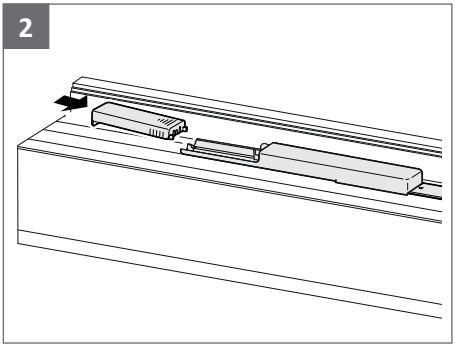
1



Remove battery compartment and batteries

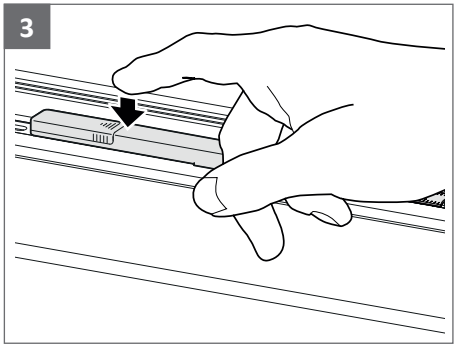
Wait 10 seconds

2



Insert battery compartment with batteries into the sensor

3



Tap 4x on the sensor with your finger

Sensor briefly beeps 2x

12 Spare parts and accessories

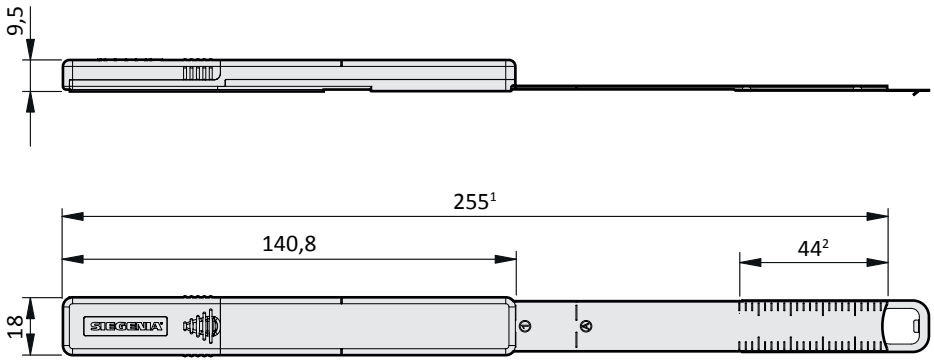
Name	Content	Material number
SIEGENIA senso secure	1x window sensor	GSEF0100-0D4010
SIEGENIA Connect Box	1x converter	GZFM2040-002010
Battery set	2x batteries AAAA	GERS0020-093010
Spar part set	1x cam catcher 1x slider 1x frame magnet	GERS0030-0D4010

13 Technical specifications

Radio frequency	868.3 MHz (EnOcean)
EnOcean Equipment Profile (EEP)	D2-06-50
Max. transmission performance	0.4 mW
Radio range (in open space)	300 m
Protection type	IP64 (electronics); IP40 (battery compartment)
Permissible room temperature	–20 °C to + 60°C
Batteries	2x AAAA
Service life of batteries	approx. 3 years

13.1 Dimensions

Figure: position of slider in turn position



[1] sensor lengths to stop cam (slider centre position): not shortened = 255 ± 19 mm | shortened = 211 ± 19 mm

[2] Cropping area

14 Rectification of malfunctions

In case of a malfunction, do not open the device or try to repair it under any circumstances. If the problem is not listed in the table below, please contact your installation firm or SIEGENIA directly: tel. +49 271 3931-0

Problem	Possible cause	Solution
SIEGENIA sensor secure is not detected during teach-in / calibration error	SIEGENIA Connect Box is outside the wireless range	Reposition SIEGENIA Connect Box (for notes on wireless range planning, see page 7).
		Use radio repeater (see operating instructions SIEGENIA Connect Box - H47.MOTS013EN).
	Interference of the wireless signal	Observe notes on wireless range planning and potential sources of interference (see page 7).
SIEGENIA senso secure notifies incorrect or no status	Batteries are flat	Replace batteries (see page 21).
	SIEGENIA senso secure teach-in was erroneous	Reset SIEGENIA senso secure to setting and calibrate once again (see page 22 and page 20).
	Wrong position of the magnet	Check position of magnet and re-position if necessary (see page 17).
	Interference of the wireless signal	Observe notes on wireless range planning and potential sources of interference (see page 7).
	Window handle not seated in the end position	Check handle position and rectify if necessary
	The window cannot be opened smoothly	Have the window hardware serviced and adjusted

Problem	Possible cause	Solution
SIEGENIA senso secure reacts too frequently to vibration or not at all	Alarm sensitivity wrongly calibrated	The alarm sensitivity is preset to level 1 for calibration with standard settings. Via »Further settings«, it is possible to regulate the alarm sensitivity from level 0 to level 6. Please proceed as shown below: 1. Open »SIEGENIA Comfort app« 2. Select SIEGENIA Connect Box 3. SIEGENIA senso secure select 4. Retrieve »Further settings« 5. Select »Re-calibrate« 6. Activate »Apply user-defined settings« 7. Regulate »Alarm sensitivity« 8. Start calibration

Note: you will find detailed information on how to rectify malfunctions on the SIEGENIA Smarthome Internet page.
www.siegenia.com/qr/comfort-app/faq

15 EU Declaration of Conformity with regard to CE marking

For our product senso secure, we confirm that the general safety of the defined product, in accordance with Directive 2001/95/EC, is compliant with the general product safety and relevant protection requirements which are laid down in the Council Directives about electrical and electronic products.

The following listed test standards, which are harmonised in the relevant directives, have been employed for the evaluation:

a) 2014/30/EU EMC Directive
EN 50130-4:2011+A1:2014 Emission
EN 50130-4:2011+A1:2014 / EN 61000-6-2:2005

b) 2014/53/EU RED Directive

b1) Electromagnetic compatibility
EN 301 489-1, V.1.9.2
EN 301 489-3, V.1.6.1

b3) Safety of persons in electromagnetic fields (10 MHz to 300 GHz)
EN 62479:2010

b4) Radio spectrum matters - data transmission devices
EN 300 220-2:V3.1.1
Radio systems with low range (SRD), which operate in the frequency range of 25 MHz to 1000 MHz

c) 2011/65/EU RoHs
EN 50581:2012 Technical documentation on the evaluation of electrical and electronic devices with reference to the restriction of hazardous substances

This declaration is responsible for the manufacturers / importers based in the European Union submitted by:

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Siegen, 2019-06-24

ppa.
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