

Connected Home Presence Sensor

SCH010ZB



Presence detection

- Stays on top of activity in your home at all hours
- No power connection required; battery operation gives you the flexibility to install the sensor nearly anywhere
- Easy to install
- Visual alerts and monitoring records update you when there's presence in a chosen area
- Communicates with Connected Home Hub via Zigbee network

Use

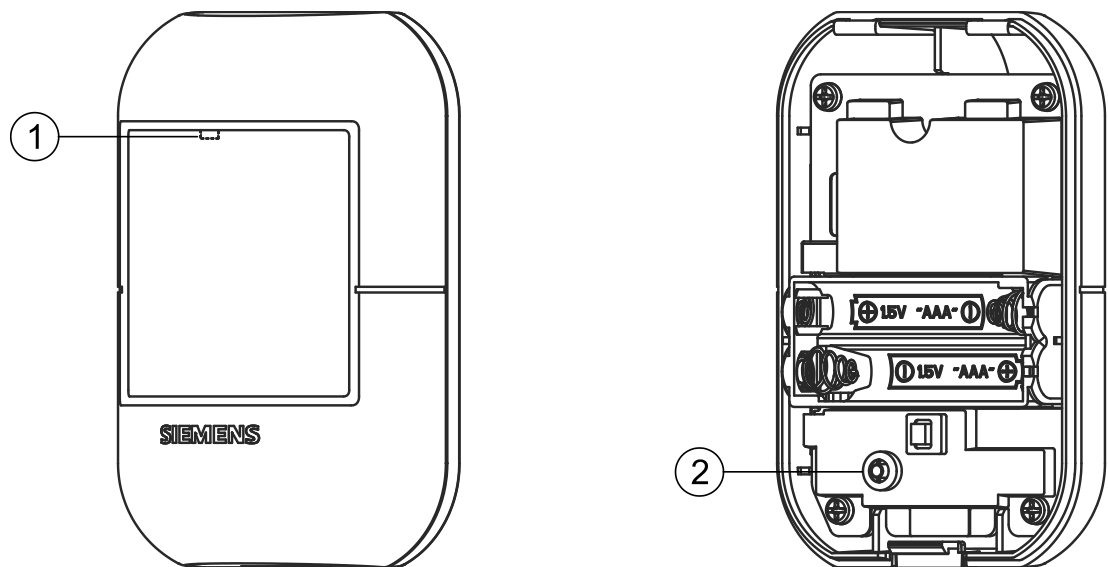
The sensor can detect person presence for security or detection use.

Mechanical design

The sensor consists of the following parts:

- Front housing
- PIR lens
- Mounting plate

Sensor layout



No.	Description
1	LED indicator
2	Button for user operation: <ul style="list-style-type: none">• Press it shortly to check sensor status.• Press and hold it down for 3 s to join Zigbee network (initiated from the mobile application).• Press and hold it down for 10 s to perform factory reset.• See LED indication [▶ 3] for more information.

Sensor state	Checking method ¹⁾	LED state
Sensor not added to the hub	Press the operation button shortly or reinstall the batteries	Solid amber for 8 s then turns off
Low battery		Flashes red fast for 8 s then turns off
Successful connection	Press the operation button shortly or after the connection is successfully established	Solid green for 8 s then turns off
Zigbee network failure ²⁾³⁾	Press the operation button shortly	Flashes red slowly for 16 s (1 s on, 1 s off, 1 s on)
Firmware upgrade in process		Flashes amber for 8 s then turns off
Presence detected	No operation needed	No LED indication by default, but can be enabled in the mobile application. If enabled and presence is detected, the LED flashes green for 3 s (1 s on, 1 s off, 1 s on). When the sensor detects person absence, the LED turns off.

Activity	Operation on the sensor	LED state
Join Zigbee network (initiated from the mobile application, 2-minute timeout)	Press and hold down the operation button for 3 s	Flashes green fast for 8 s then turns off
Perform factory reset	Press and hold down the operation button for 10 s	Flashes red and green alternately and fast, and then turns off. After 1 to 3 seconds, the LED turns to solid amber for 8 seconds and then turns off.
Locate sensor (initiated from the mobile application when Zigbee network connection is normal)	No operation needed	Flashes green slowly (1 s on, 1 s off, 1 s on) until location is complete, then turns off

1. If the checking method is the same, priority of LED state indication (high to low) is: low battery > Zigbee network status > firmware upgrade.
For example, if there is a Zigbee network failure when battery level is low, the LED flashes red fast rather than slowly.
2. Check if the hub is powered on and try to reduce distance between the sensor and the hub.
3. Try network reconnection.

- Remove the sensor from the mobile application, perform factory reset and then rejoin the Zigbee network.

Operation and settings

You can do the following on the sensor:

- Add the sensor to the hub after the mobile application initiates the joining process.
- Reset the sensor to factory settings.
- Indicate person presence/absence.

See LED indication [▶ 3] for information on the above operations. Other operations, such as assigning the sensor to a room, viewing monitoring records on person presence/absence and notifying you of tamper detection, are only available in the mobile application.

Type summary

Type	Stock number	Description
SCH010ZB	S55772-T115	Connected Home Presence Sensor

Ordering

When ordering, indicate product number, stock number and description.

Inbox items

Items	Quantity
Sensor	1
Screw	4
Wall anchor	4
Battery (LR03 - AAA)	2
Mounting instructions	1

Equipment combinations

Product number	Stock number	Description
GTW100ZB	S55772-T109	Connected Home Hub

Product documentation



Title	Document ID
Mounting instructions	A6V13959836
CE declaration	xx
UKCA declaration	
Product environmental declaration	


Related documents such as the environmental declarations, declarations of conformity, etc., can be downloaded from the following Internet address:

www.siemens.com/bt/download

Notes

Safety

 CAUTION	
	<p>National safety regulations</p> <p>Failure to comply with national safety regulations may result in personal injury and property damage.</p> <ul style="list-style-type: none">• Observe national provisions and comply with the appropriate safety regulations.



	<p>For indoor use only</p> <p>The sensor is for indoor use only. Do not place it outdoors.</p>
---	---

Mounting

- The sensor is suitable for wall (surface or corner) mounting. See the [Mounting instructions](#) for more details.
- Recommended height: 2.1 m above the floor.
- Do not mount the sensor in recesses, shelves, behind curtains or doors, or above or near heat sources.
- Avoid direct solar radiation.
- Adhere to allowed ambient conditions.

Installation

The mounting plate of the sensor can be installed on flat wall surface or square wall corner.

 WARNING	
	<p>Risk of explosion</p> <p>Personal injury and property damage</p> <ul style="list-style-type: none">• Install the battery at the correct polarity (+/-) using the illustration in the battery compartment.• Install only the correct battery types according to the indication in the battery compartment.• In case of a leakage, avoid contact with skin, eyes and mucous membranes.• Remove leaking battery from the battery compartment with a cloth.

Observe the following:

- The batteries must be undamaged.
- Do not mix new and used batteries when installing/replacing batteries.
- The batteries are for normal use under normal ambient room temperature.
- Remove the back cover to install/replace batteries. See the [Mounting instructions](#) for details.
- Remove the batteries before disposing of the sensor.
- Dispose of the exhausted batteries in compliance with environmental requirements.

Maintenance

The sensor is designed for maintenance-free operation.

Open Source Software (OSS)

Software license overview

The device uses Open Source Software (OSS). All Open Source Software components used in the product (including copyrights and licensing agreement) are available at <http://siemens.com/bt/download>.

Firmware version	OSS document ID	Device
xxx	xxxx	SCH010ZB

Disposal



This symbol or any other national label indicate that the product, its packaging, and, where applicable, any batteries may not be disposed of as domestic waste. Delete all personal data and dispose of the item(s) at separate collection and recycling facilities in accordance with local and national legislation.
For additional details, refer to [Siemens information on disposal](#).

Warranty

Technical data on specific applications are valid only together with Siemens products listed under "Equipment combinations". Siemens rejects any and all warranties in the event that third-party products are used.

Power supply	
Operating voltage	DC 3 V (2 x AAA Alkaline batteries)
Battery life	Up to 2 years

Radio parameters	
Frequency band	2.4...2.4835 GHz
Maximum radio-frequency power	10 dBm (antenna gain is 0...2, depending on models)
Communication standard	Based on Zigbee 3.0
MAC protocol	IEEE 802.15.4
Communication range ^{*)}	30 m (indoor)
Zigbee channels	11...26
Pairing method with GTW100ZB	Global Link Key

^{*)} The range depends largely on building structure and indoor environment.

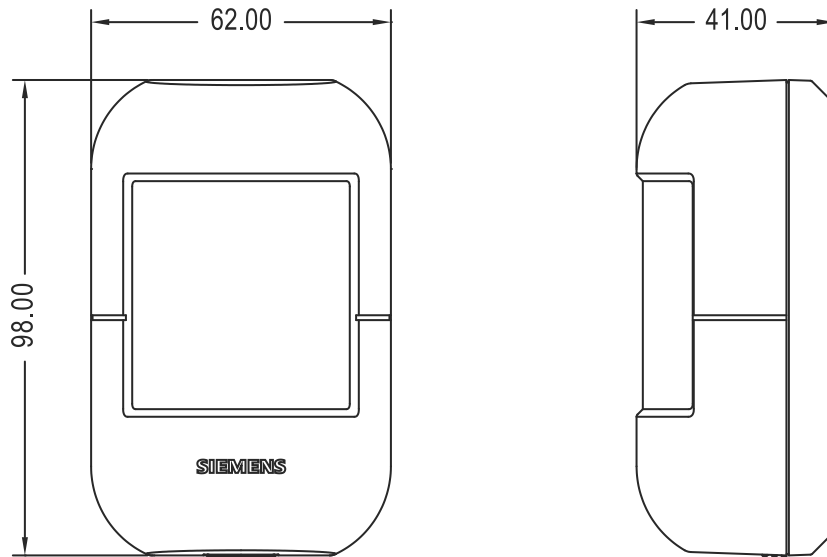
PIR lens sensitive area	
Installation height	2.1 m
Detection angle	90°
Range	14 m x 10 m

Ambient conditions and protection classification	
Degree of pollution	2
Overvoltage category	I
Protection against electrical shock	Protection class III
Degree of protection of housing as per EN 60529	IP30
Climatic ambient conditions	
Operation (in dry locations having no temperature or humidity control)	Temperature: -5...+50 °C Ambient humidity: 5...95 % r.h. (Non condensing)
Transport and storage (in packaging)	Temperature: -25...+70 °C Ambient humidity: 5...95 % r.h. (Non condensing)
Operation altitude	Max. 3,000 m above sea level

Standards, directives and approvals	
Electromagnetic compatibility	For residential and commercial environments
EU conformity (CE)	See EU declaration of conformity xx*)
UK conformity (UKCA)	See UK declaration of conformity *)
Environmental compatibility	The product environmental declaration () contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

General	
Dimensions	See "Dimensions [▶ 9]"
Color	RAL9016
Sensor	PIR sensor
Firmware upgrade	Via the mobile application
Weight (net)	100.5 g
Weight (with box, user document and accessory)	161.5 g

Dimensions



Issued by
Siemens Switzerland Ltd
Smart Infrastructure
Global Headquarters
Theilerstrasse 1a
CH-6300 Zug
+41 58 724 2424
www.siemens.com/buildingtechnologies

© Siemens 2023
Technical specifications and availability subject to change without notice.

Document ID A6V13959459_en--_a
Edition 2023-07-11