Contact Sensor

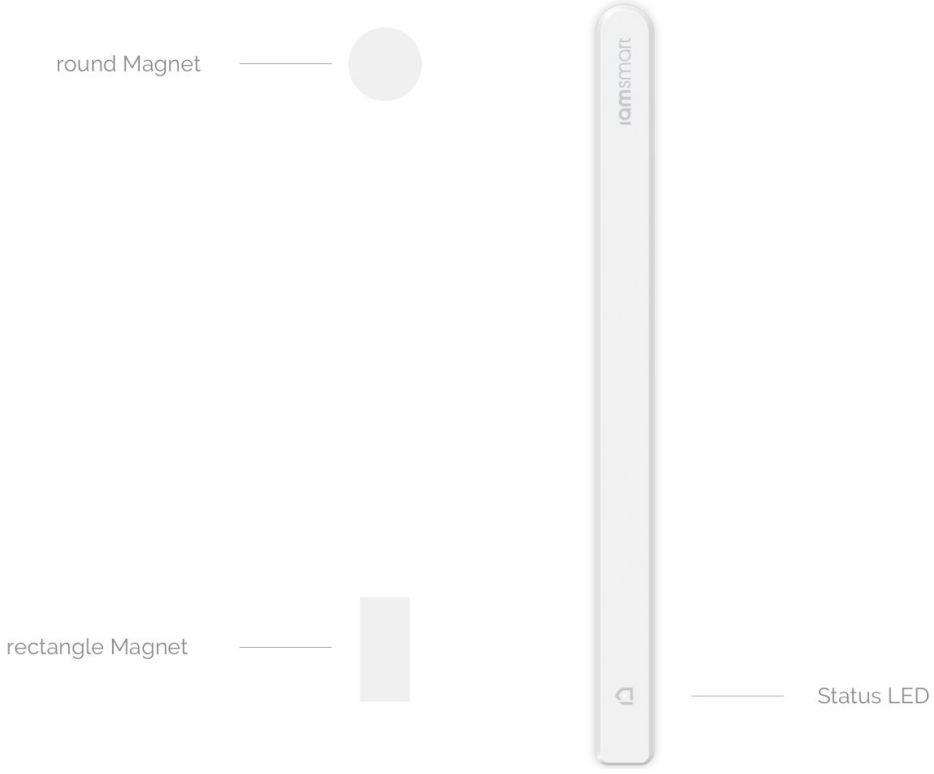
User Manual

Product description

The iamsmart Contact Sensor is a smart contact sensor that can be installed in window or door frames. It notifies you if something is opened while you are away via notification. In combination with the iamsmart Smartbox, and its integrated siren, it gives you even more security. In addition, it can work together with the iamsmart Radiator Thermostat for more efficient heating. You connect it with your iamsmart Smartbox, using the iamsmart app, to add invisible security to your home.

The iamsmart Contact Sensor is a Z-Wave Plus device, see Appendix one for more information on Z-Wave.

The iamsmart Contact Sensor is shipped with a 3M cleaning wipe for preparing surfaces before installation.



Before installation

For good functionality in the window or door

- To place the iamsmart Contact Sensor invisibly, you need a gap with a minimum height of 3.5 mm. If the round magnet fits, the gap height should be enough.
- The iamsmart Contact Sensor may be mounted on the frame (recommended) and the magnet on the window/door, or vice versa.
- Check that the rectangle magnet can be placed so that it is less than 10 mm from the iamsmart Contact Sensor's flat end when the window is closed. When the window is open, the magnet should be at least 30 mm away from the iamsmart Contact Sensor.
- Open the window/door fully to check that the placement of the iamsmart Contact Sensor and the magnet does not interfere with any hinges or locking mechanisms.
- You can also watch us do this if you visit Youtube and type in iamsmart, there you will find instructional videos if you need help!

For good communication with your iamsmart Smartbox

Your iamsmart Contact Sensor uses low power radio signals, to communicate with your iamsmart Smartbox. For best results, please consider the following:

- The iamsmart Contact Sensor is designed to fit invisibly in most wood, wood/aluminum and plastic windows and doors.
- The iamsmart Contact Sensor should not be mounted directly on metal surfaces or within a metal structure as the range will be reduced.
- The magnet should not be placed on metal.
- The iamsmart Contact Sensors range is up to 40 meters.

For good placement of the iamsmart Contact Sensor

1. Make sure the surface is clean, dry and at least + 10˚ C. Use the included wipe to clean and prepare the surfaces.
2. Remove the short protective film from the small Contact Sensors test adhesive. The small adhesive is used before final placement so it is easy to move the iamsmart Contact Sensor if needed.
3. Place the iamsmart Contact Sensor in the desired location. Check the position by carefully closing the window/door and then opening it completely again.
4. Measure and identify where the rectangle magnet should be placed. Remove the protective film and place the magnet. Close and open again to validate that your iamsmart Smartbox detected the changes. Re-mount if needed.
5. When you are satisfied, mark the exact position for the iamsmart Contact Sensor. Remove it from its position, ensure that the surface is still clean, remove the long film protecting the adhesive backing and place your iamsmart Contact Sensor exactly as you marked. The long adhesive is used to make the final placement of the iamsmart Contact Sensor.
6. Check that the window/door can be fully closed and opened and that your iamsmart Smartbox detects the changes.

Activation and installation of the iamsmart Contact Sensor

Open the iamsmart app on your smartphone and press “add new device” in the room of your choice and choose “Contact Sensor” as the device type.

1. Follow the installation instructions in the iamsmart app to connect your iamsmart Contact Sensor to your Smartbox.
    a. Press “Start” to set your Smartbox into add mode.
    b. Remove the two magnets on the back of you Contact Sensor.
    c. Shortly, “Connected” should be displayed in the iamsmart app. This means that the connection between your Smartbox and your new Contact Sensor is completed successfully.
2. After successfully adding your iamsmart Contact Sensor, you proceed with the installation process.
3. Clean the desired surface of your window or door frame by using the included 3M cleaning wipe. This is helpful for a safe and long-lasting installation.
4. After the surface is dry, you can remove the small adhesive on the back of the Contact Sensor. This small adhesive is used before the final placement so it is easy to move the Contact Sensor if needed.
5. Place the rectangle magnet on the opposite site of the Contact Sensor.
6. Test if the iamsmart app displays the correct status (open/closed).
   If you have found the best position for your Contact Sensor, remove the long adhesive on the back of your Contact Sensor for final placement.

Reinstallation, Reset and troubleshooting

If you need to move your iamsmart contact sensor, or need to reset it because of a problem, please visit our FAQ section or contact us through our website: www.iamsmart.com

Important safety information

Repairing Do not attempt to dismantle the iamsmart Contact Sensor as it contains no serviceable parts. If defects appear, please contact iamsmart support.

Not a toy The iamsmart Contact Sensor is not intended for children and must not be used as a toy. Do not leave packaging materials where children may be tempted to play with them, as this is extremely dangerous.

Recycling The iamsmart Contact Sensor must be disposed of as electronic waste.

Technical specifications

Dimensions:	195 x 15 x 2.98 mm	(Contact Sensor)
	30 x 11 x 1 mm	(rectangle magnet)
	Diameter 12 x 3 mm	(round magnet)
Weight:	8 g	
Color:	white	
LED color:	green	
Power supply:	Built-in battery (LiMnO2) with 480 mAh	
Battery life:	up to 10 years*	
Operating Temperature:	-20 to +60°C (In- and outdoor usage)	
Wireless communication:	868.4 MHz (Z-Wave Plus)	
Range:	Up to 40 meters	

* Note: Short wake up intervals and usage in low or high temperatures will shorten battery life.

Certifications

The CE mark affixed to this product confirms its compliance with the European Directives which apply to the product and, in particular its compliance with the harmonized standards and specifications.

The iamsmart Contact Sensor is compliant with the following directives:

- Radio & Telecommunications Terminal Equipment Directive 2014/53/EC, according to EN 300 220-1 V2.4.1 and EN 300 220-2 V2.4.1
- EMC Directive 2014/30/EC, according to EN 301 489-1

The iamsmart Contact Sensor is a Z-Wave Plus certified device.

iamsmart GmbH
Torstraße 164
10115 Berlin
Germany

www.iamsmart.com

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Appendix one - Z-Wave information

Interoperability

The iamsmart Contact Sensor is a Z-Wave device that can be added to any certified Z-Wave system and can operate with any Z-Wave device. Z-Wave is an international standard for wireless communication in smart homes and buildings enabling you to monitor and control your home remotely.

Any non-battery Z-Wave device will act as a repeater to increase network reliability and range. Usage of repeaters will reduce the iamsmart Contact Sensor's battery life.

Specifications

Associations:	Group 1 (Lifeline). Max 1 node.
Notification type:	Supports Binary sensor report, Notification report and Basic report
Wake up intervals:	30 min – 24 hours (default 24 h)
Device class:	GENERIC_TYPE_SENSOR_NOTIFICATION
Specific device class:	SPECIFIC_TYPE_NOTIFICATION_SENSOR
Command classes:	COMMAND_CLASS_ZWAVEPLUS_INFO_V2
	COMMAND_CLASS_VERSION_V2
	COMMAND_CLASS_MANUFACTURER_SPECIFIC
	COMMAND_CLASS_SENSOR_BINARY
	COMMAND_CLASS_CONFIGURATION
	COMMAND_CLASS_DEVICE_RESET_LOCALLY
	COMMAND_CLASS_ASSOCIATION_V2
	COMMAND_CLASS_ASSOCIATION_GRP_INFO
	COMMAND_CLASS_BATTERY
	COMMAND_CLASS_WAKE_UP_V2
	COMMAND_CLASS_POWERLEVEL
	COMMAND_CLASS_NOTIFICATION_V4

Notifications/Alarm Reports

1. **Type**
   NOTIFICATION_TYPE_ACCESS_CONTROL
   Events
   - NOTIFICATION_EVENT_ACCESS_CONTROL_WINDOW_OR_DOOR_IS_OPENED
   - NOTIFICATION_EVENT_ACCESS_CONTROL_WINDOW_OR_DOOR_IS_CLOSED

2. **Type**
   NOTIFICATION_TYPE_HOME_SECURITY
   Events
   - NOTIFICATION_EVENT_HOME_SECURITY_TAMPERING_INVALID_CODE

Appendix two - LED Signals, Configuration Parameter, User Commands and Other

LED Signals

1 short blink	• User feedback during commands • Specific event detected (e.g. door opened)
2 short	For demo purposes (only if the iamsmart Contact Sensor is not added)
1 long	User command successfully executed
5 short	Error - e.g. communication with controller failed

Configuration parameters

No	Description	Values	Default
1	Notification type (1 byte)	0: Binary Sensor report 1: Notification report 2: Basic report	1
2	LED indication (1 byte)	0: Specific event indication (*) Off 1: On	1

User commands

Wake up	Wake up iamsmart Contact Sensor manually for Z-Wave communication. Place the round magnet at the rounded edge. When the LED blinks, move the magnet away. Repeat a total of 3 times within 10 seconds.
Add/remove	Set your controller in add or remove mode (see your controller's manual). Follow the instruction above for Wake up. A long LED blink indicates that the add/remove was successful.
Reset	You may need to reset the iamsmart Contact Sensor if your Z-Wave controller is missing or not responding. Follow the instructions for "Wake up" above, but on the 3rd repetition, leave the magnet at the rounded edge for 10 seconds. A long LED signal indicates success.

Other

Association	The iamsmart Contact Sensor supports association group 1 (lifeline). Max 1 node. Normally used to send iamsmart Contact Sensor's status to the Z-Wave controller.
Tamper	The iamsmart Contact Sensor will send a tempering alert if it detects that someone tries to wake up or manipulate the iamsmart Contact Sensor.