SCHWAIGER®

HOME AUTOMATION

DOOR AND WINDOW SENSOR

BDA_ZHS09

GB USER MANUAL ZHS09

Congratulations and thank you for purchasing the Schwaiger ZHS09 product. Below you will find useful operating guidelines.

> **Logging in (inclusion) or logging out (exclusion) of the sensor**
> By pressing the manipulation-proof safety switch for one second you confirm the inclusion and exclusion of the device.
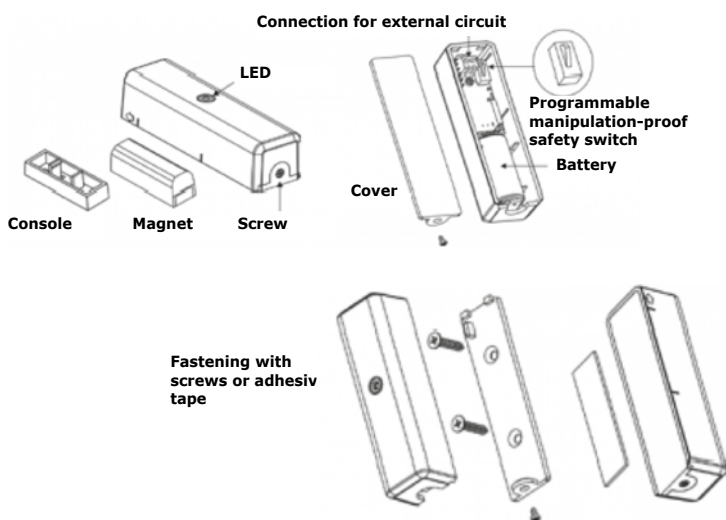
Product description

This sensor provides information on whether a window or a door is open or closed. The device consists of a magnet which is attached to the movable part of the window or the door as well as the main unit, which can be mounted on the fixed part. It is mounted with screws or doubled-sided tape. The ZHS09 is a battery-powered device. The batteries can be replaced without removing the attachment of the device. The unit also has a manipulation security feature, which sends an alarm to the controller in the event of unauthorized removal of the device. The door/window sensor ZHS 09 can report the status of the sensor via Z-wave to a controller or control other Z-Wave devices directly, depending on the sensor condition. The devices to be controlled must be associated with the sensor. Up to four Z-Wave devices can be associated with the ZHS09.

Batteries

This device is operated with batteries. Use only batteries of the specified type. Used batteries contain hazardous substances and must not be disposed of with household waste!
Battery type: 1 x C123A

Installation guidelines

1. Loosen the screw on the cover and slide the cover down.
2. Insert the CR123A battery into the battery holder. The LED will slowly start lighting up. This means that the device has not yet been incorporated into the Z-Wave network.
3. To install the sensor attach the cover using screws or double sided tape on the opening part of the window or door.

Connection for external circuit

LED

Programmable manipulation-proof safety switch

Cover

Battery

Console   **Magnet**   **Screw**

Fastening with screws or adhesiv tape

Functioning of the device in the Z-wave network

When delivered, the device is not yet connected to a Z-wave network. It must be integrated into an existing Z-Wave network so that it can communicate with other Z-Wave devices. This process is called Z-Wave inclusion. Devices can also be removed from networks again. This process is called Z-Wave exclusion. Both processes are started from a controller that must be connected to an inclusion and/or exclusion mode. The manual of the controller contains information on how it is to be connected in these modes. Devices can only be added when the controller of the Z-Wave network in in inclusion mode. Leaving the network by exclusion will reset this device to its factory defaults. Set the controller into the inclusion/exclusion mode.

Operating the device

Whenever the window or door on which the sensor is installed is opened or closed, the sensor transmits a corresponding wireless signal.

Communication with a battery-operated device

The device is battery-powered and to save power it is thus usually in deep sleep mode. In deep sleep mode the device cannot receive any wireless signals. Therefore a (static) controller is required, which is mains powered and therefore always available for wireless data transmission.
This controller - for example, an IP gateway - manages a message mailbox for this battery-powered device, in which messages to the device can be temporarily stored. Without such a static controller using this battery-operated device will quickly discharge the battery or render use completely impossible.

Programmable manipulation-proof safety switch

This device regularly „wakes up," reports this by sending a so-called wake up notification, and then empties its mailbox in the static controller. The node ID of the controller and a wake up interval must be defined with the inclusion. If the inclusion is carried by means of a static controller such as an IP Gateway, the controller will automatically perform this configuration and usually offer a user interface, to adapt the wake up interval to user needs. The wake up interval is a compromise between maximum battery life and minimum response time of the battery-powered device.

Opening the cover and thus activating the manipulation-free safety switch wakes up the device and keeps it awake.

It is possible to specify the device number 255 as the destination device for the wake up notification. In this case, the message is sent as a broadcast to all devices with direct wireless connection. The advantage of immediate notification is offset by the disadvantage that, where appropriate, the device consumes more time in active mode and thus more battery capacity.

Technical specifications

Protection class	20
Battery type	1 x C123A
Explorer Frames	Yes
SDK	4.54.00
Type of equipment	Slave with routing capabilities
General Z-Wave device type	Binary sensor
Special Z-Wave device type	Routing Binary Sensor
Router	No
FLiRS	No
Firmware Version	4.84

Disposal information

This product contains batteries. Please refer to the applicable disposal regulations for batteries. It is an electrical device. They can be disposed of free of charge at specified disposal sites.

EC Declaration of Conformity

„Hereby Schwaiger GmbH declares that the product ZHS09 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.". The Declaration of Conformity can be found at the following address:
http://www.schwaiger.de/downloads