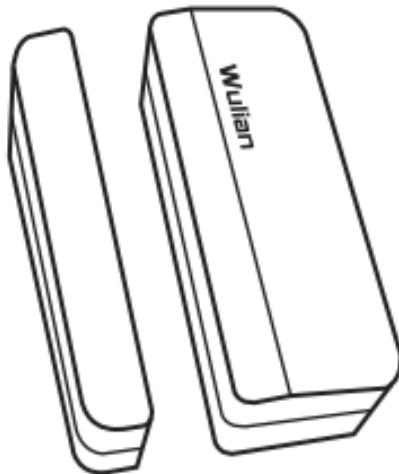


# **Wulian®**

## **Smart Contact Sensor**

**FOR WL-ZSPDBPW-MT-01**

### **User Manual**



©Nanjing IOT Sensor Technology Co., Ltd.  
Publication Number: 2015-0407.V01

## **Federal Communications Commission (FCC) Compliance Notice:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Federal Communications Commission (FCC) Caution:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## **Federal Communications Commission (FCC) Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

## Welcome to use Smart Contact Sensor User Manual

- **Wulian** is the registered trademark of Nanjing IOT Sensor Technology Co., Ltd. All the other trademarks and registered trademarks mentioned in this manual are trademarks or registered trademarks of their respective owners.
- Please read this manual carefully for the proper use of this product.
- Smart Contact Sensor (hereinafter referred to as “this product”) are smart home audio and video products produced by Nanjing IOT Sensor Technology Co., Ltd. (hereinafter referred to as “Wulian”). This product shall be used with smart home APP as well as the supplied accessories. Wulian is not responsible for any loss due to improper installation and usage of this product.
- Please check the Wulian website periodically for manual and APP update availability and the relevance.
- Without the written permission of Wulian, any individuals and enterprises shall not copy all or part of the contents of this manual, or use our registered trademark. Any illegal use of our trademarks shall be investigated according to law.
- For more information about smart home products, please visit: [www.wulian.cc/english](http://www.wulian.cc/english).

# Features

- Support IEEE 802.15.4 ZigBee/SmartRoom protocol.
- Under defense, remotely control door is open or closed, and send real-time monitor status to smart APP.
- Make scene setting by smart APP for linkage with our other devices.
- Alarm with wireless transmission brings about rapid response, high anti-interference, and low rate of false alarm.
- Low consumption, energy saving, and environment friendly for building green human living environment.
- Wireless device with small size is for hiding and merging with home environment perfectly.
- Made of high shock-resistance and temperature-resistance material, shell is sturdy and durable.

# Product Parameter

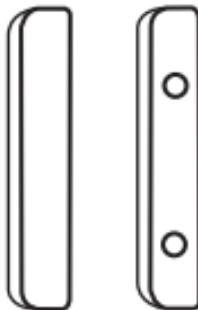
Communication Protocol	IEEE 802.15.4 ( ZigBee/SmartRoom )
Antenna Type	PCB Antenna
Power Parameter	DC 3V
Battery Type	CR2*1
Stand-by Current	4uA
Current For Opening	2uA at opening door
/Closing Door	4uA at Closing Door
Warning Distance	20mm
Installation Method	Window Mounted
Material &Color	PC, White
Overall Dimension (L x W x H, mm)	Main Body 23×19×60 Magnetic Part 10×19×60
Net Weight	55
Flame Retardant Rating	UL94 V-2
Operating Temperature	-10°C ~ +45°C
Operating Humidity	≤95%RH(Noncondensing)

Notes: This product supports gateway with LAN

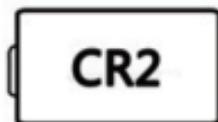
# Package List



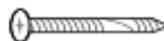
( Main Body + Base Of  
Main Body) \*1



(Magnetic Part + Base of  
Magnetic Part)\*1



Battery \*1



Flat Cross-Recessed  
Self-Tapping Screw with  
Pointed Tail (ST3\*12)\*4



PE Form Tape \*2



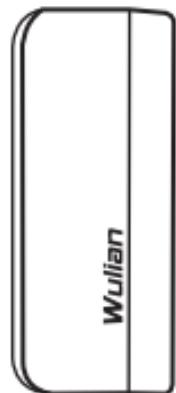
Manual



Guarantee  
Card

Manual \*1      Guarantee Card \*1

# Function Illustration



Main Body



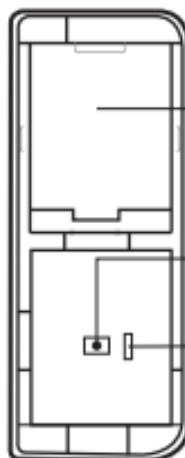
Base of Main Body



Main Body Of Magnetic Part



Base Of Magnetic Part



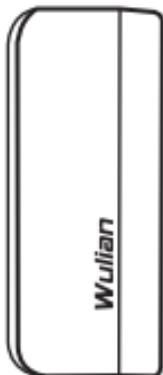
Battery Compartment

SET Key

System Indicator

# Installation Steps

Step 1: Separate [Base of Main Body] & [Base of Magnetic Part] from their respective main body as per below illustration.



Main Body



Base of Main Body



Main Body of  
Magnetic Part



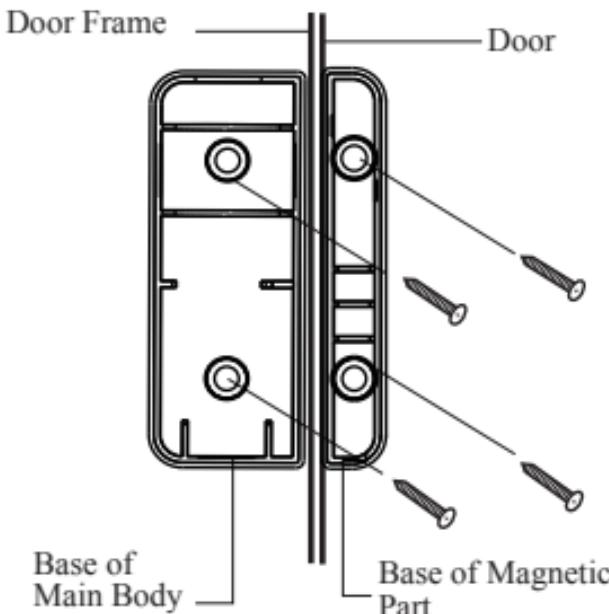
Base of Magnetic  
Part

## Step 2:

Option 1: Fix [Base of Main Body] on the door frame or window frame.

[Base of Main Body] is fastened to the right position of door frame or window frame via 2 pieces of screw.

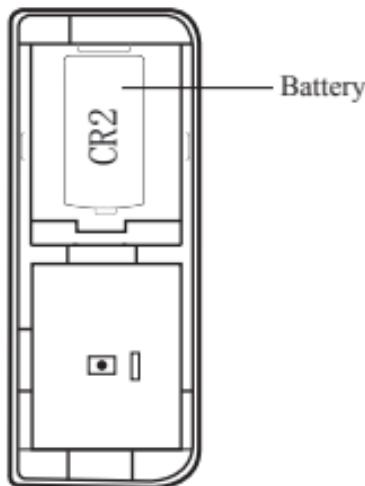
Similarly, fix [Base of Magnetic Part] on the right position of door or window via 2 pieces of screw.



Option 2: Stick this product on the proper flat surface by the equipped PE form tape. Paste PE form tape on the base of product, and then stick the product in the selected place.

Notes: Before installation, please keep the selected place tidy and clean.

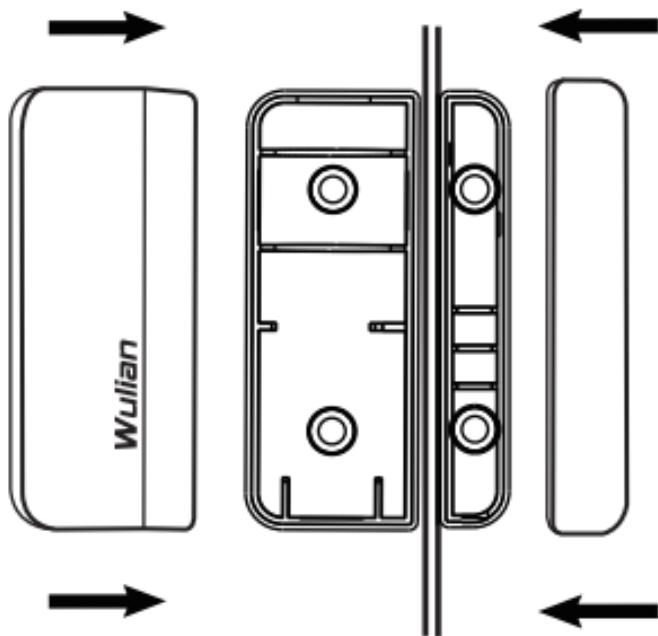
Step 3: Put 1 \* CR2 battery into battery compartment of main body.



Notes: Join the network before fastening this product

Step 4:

Aim [Main Body] & [Main Body of Magnetic Part] at the respective card slot of main body to fix them.



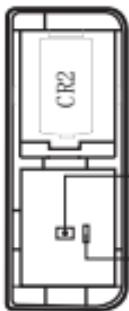
Step 5:

Installation Finish

# Join ZigBee Network

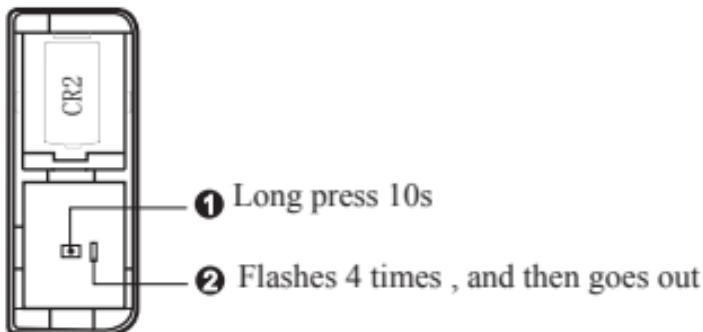
1. Before setting, please make sure the gateway (additional purchase) works normally. Ensure that power is supplied to this product, and it is within the effective communication range of the gateway.

2.Quickly click [Multi-Functional Key] 4 times to apply for joining ZigBee network, and each click is less than 1s. While searching networking, [System Indicator] is flashing. After joining ZigBee network successfully, [System Indicator] is on 2 seconds, and then goes out.



- ① Quickly click 4 times, and each click is less than 1s.
- ② After joining the network successfully, [System Indicator] is on 2 seconds, and then goes out.

3.Long press [SET Key] 10 seconds. [System Indicator] flashes 4 times, then goes out to restore to factory setting. The default setting for factory setting does not join ZigBee network.



# User Guide

After setting, user can control the monitor information of this product by smart mobile terminal. Once door frame or window frame is illegally open, this product will send alarm signal to smart mobile terminal so that user can know all to take corresponding measures.

# Cautions

- Please do not install this product in the metal cover and other fully closed devices. It may result in network signal interrupt and low performance.
- Take routine tests periodically to find and remove trouble in case of any alarm for stealing.
- Avoid fall or sever collision for product to for fear of damage of internal part and impact on working life of product.
- Wipe the dust on the product by soft cloth. Clean by the corrosive cleansing liquid and other chemical solvent is forbidden.
- This product should be installed in dry and clean place to prevent inner component from dampness or other debris.
- Please do not disassemble or refit this product and its accessories.
- If this product breaks down, non-professional staff shall not handle it. Send it to local service center for repair, or contact our customer service staff.



RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

# Trouble Shooting

Q:	How to deal with it when failed to join ZigBee network?  A: Please confirm gateway works normally, and is allowed to add network, and this product is within effective communication range.
Q:	How to handle it when it stays alarming in the early stage of installation?  A: Please confirm main body of door contact matches that of magnetic parts, and size difference is within tolerance.
Q:  A:	How to deal with it when this product is not online displayed on the smart APP?  A1: Please check if it's accessible to ZigBee network gateway within? A2: Please check if sensor is installed in the effective communication range of gateway? Besides, switch on smart APP to check power supply. If battery power is low, please replace battery.

# Purchasing Information

Product Name	Smart Contact Sensor
Material & Color	WL-ZSPDBPW-MT-01
Item No.	PC, White
Model	WLPN1448200

# Software Download

Option A:

Download the latest smart APP by scanning QR code on the package box of this product.

Option B:

Please visit our official website:

<http://www.wulian.cc/service.shtml> for downloading.

Warm prompt: For the first use, please download smart home APP and read user manual carefully. Please pay attention to Wulian information to download the latest APP in time.

Statement: Hereby, Nanjing IOT Sensor Technology Co., Ltd. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

### **Disposal and Recycling Information**



You can help protect the environment!

Please remember to respect the local regulations: hand in the non-working electrical equipments to an appropriate waste disposal centre

The following marking is included in the product :

**CE0700**

Building 11, No.15, Fengji Road, Yuhuatai District,  
Nanjing (P. C.: 210039)  
Email: [overseas@wuliangroup.com](mailto:overseas@wuliangroup.com)  
Service Hotline: 400-889-2891  
[www.wulian.cc](http://www.wulian.cc)