

## NEO NAS-DS09

# NEO Zigbee Contact Sensor NAS-DS09 User Manual

Model: NAS-DS09 | Brand: NEO

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your NEO Zigbee Contact Sensor (Model NAS-DS09). This device is designed to enhance your home security and automation by detecting the open or closed status of doors and windows.

## 2. PRODUCT OVERVIEW

### 2.1. Components

- Main Sensor Unit
- Auxiliary Unit (Magnet)
- AA Battery (1.5V)
- Adhesive Pads
- Instruction Manual



### What's in the box

- 1. ZigBee Door Sensor x1
- 2. Instruction manual x1
- 3. AA battery x1

Figure 2.1: What's in the box. Includes the main sensor unit, auxiliary magnet, AA battery, and instruction manual.

### 2.2. Key Features



- **Precise Detection:** Maximum effective gap of 20mm between main and auxiliary units for accurate open/close status monitoring.
- **Long Battery Life:** Powered by a single AA battery for extended operation.
- **Manual Disable:** Features an ON/OFF switch for convenient power management and energy saving.
- **Smart Home Integration:** Compatible with Zigbee hubs and platforms such as SmartThings, Home Assistant, Alexa, and Google Assistant.
- **Real-time Alerts:** Receive instant notifications on your smart device when a door or window status changes.



Figure 2.2: The NEO Zigbee Contact Sensor (main unit and auxiliary magnet) and an illustration of its use for door monitoring.

## 3. SETUP AND INSTALLATION

### 3.1. Prerequisites

- A compatible Zigbee hub (e.g., SmartThings, Home Assistant).
- A smartphone or tablet with the appropriate smart home application installed.



### 3.2. Battery Installation

1. Gently open the main sensor unit casing.
2. Insert one AA LR6 1.5V battery, ensuring correct polarity (+/-).
3. Close the casing securely.



Figure 3.1: The main sensor unit showing the ON/OFF switch and the AA battery power supply.

### 3.3. Mounting the Sensor

1. Identify a clean, dry, and flat surface on your door/window frame (for the main unit) and the moving part of the door/window (for the auxiliary unit).
2. Clean both surfaces thoroughly to ensure optimal adhesion.
3. Attach the main sensor unit to the fixed frame using the provided adhesive pad.
4. Attach the auxiliary unit (magnet) to the moving part of the door or window, aligning it with the main sensor unit.
5. Ensure the gap between the main unit and the auxiliary unit is no more than 20mm when the door/window is closed.



# ZigBee Door Sensor

Detect the open/close status of doors and windows



Figure 3.2: Proper installation of the Zigbee Contact Sensor on a door, with the main unit on the frame and the magnet on the door.



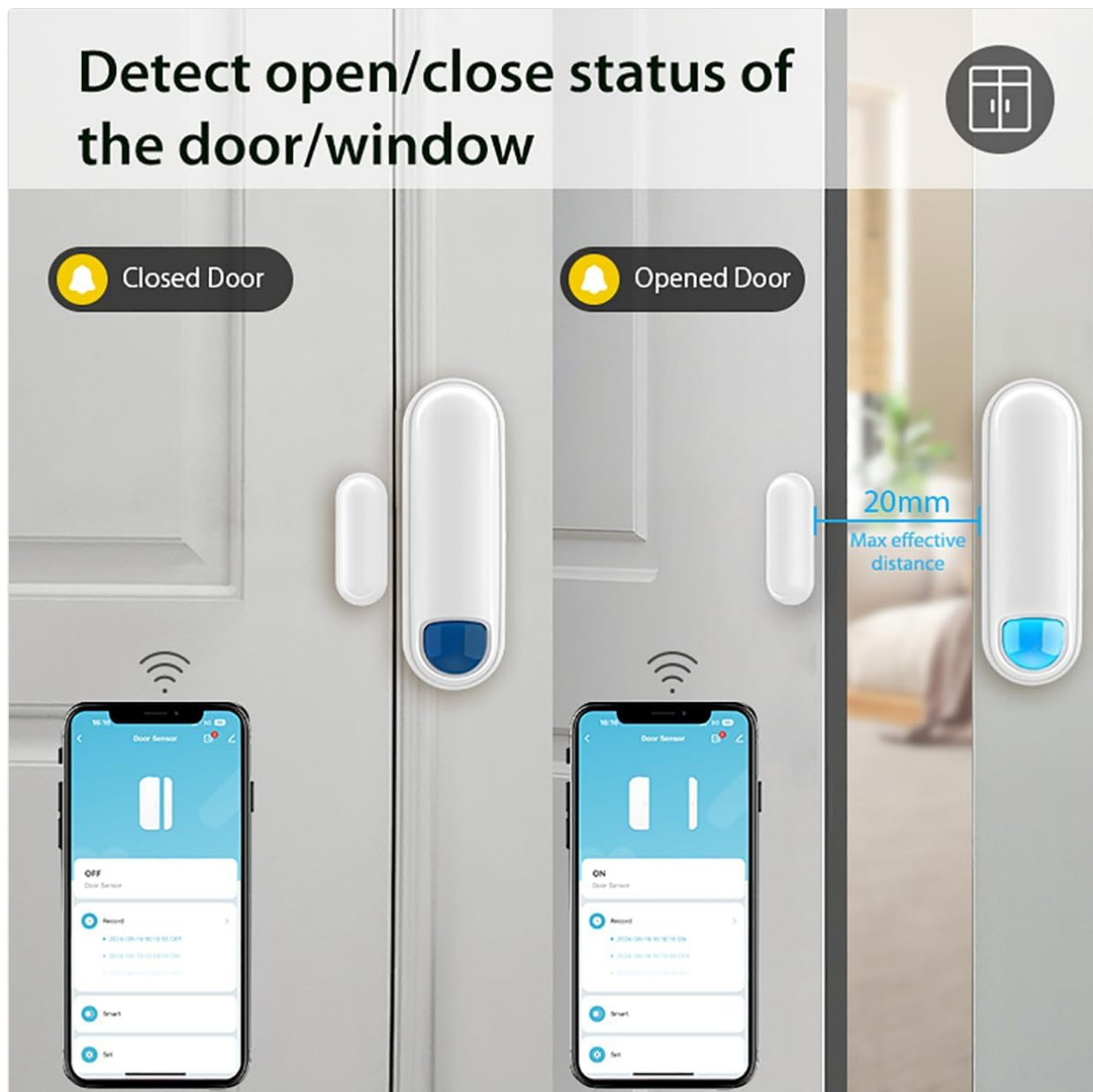


Figure 3.3: Illustration of the sensor detecting open and closed states, highlighting the maximum effective distance.

## 4. PAIRING INSTRUCTIONS

To integrate your NEO Zigbee Contact Sensor into your smart home system, follow these pairing steps:

1. Ensure your Zigbee hub is powered on and connected to your home network.
2. Open your smart home application (e.g., SmartThings, Home Assistant) and put your Zigbee hub into pairing or discovery mode. Refer to your hub's specific instructions for this process.
3. With the sensor powered on (ON switch position), activate the sensor's pairing mode. This typically involves a specific button press or sequence on the sensor itself. Consult the small instruction leaflet included with your sensor for the exact method.
4. Once the sensor is in pairing mode, your Zigbee hub should detect it. Follow the prompts in your smart home application to complete the pairing process.
5. After successful pairing, the sensor will appear in your smart home application, and you can assign it to a room or create automation rules.





Figure 4.1: Diagram illustrating the Zigbee pairing process between the sensor, a Zigbee gateway, and remote control via a smartphone application.

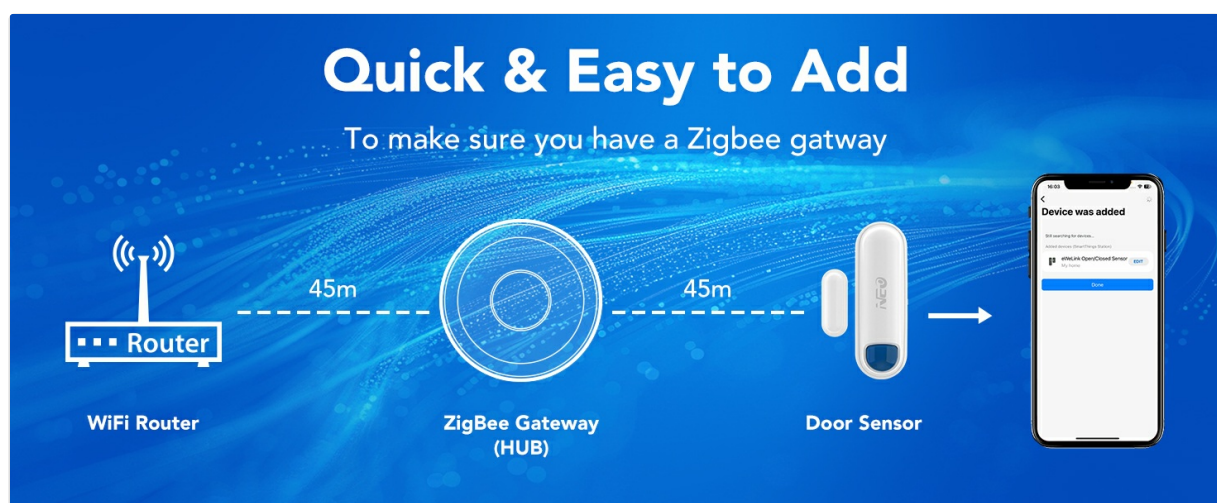


Figure 4.2: Visual representation of adding the sensor to a Zigbee network, showing the router, gateway, and sensor connection.

## 5. OPERATION



## 5.1. Status Monitoring

Once paired, the sensor will continuously monitor the open/close status of the door or window it is installed on. This status is reported to your Zigbee hub and displayed in your smart home application.



Figure 5.1: Remote control of the sensor via a smartphone application, allowing monitoring from anywhere.

## 5.2. Real-time Alerts and Notifications

Configure your smart home application to receive instant alerts and notifications on your smartphone or tablet whenever the sensor detects a change in status (e.g., a door opening). This feature is crucial for security monitoring.



# Real-time Alerts and Notification

Receive alerts when the door or window is opened/closed



Figure 5.2: A smartphone displaying a real-time notification indicating a door or window has been opened.

## 5.3. Automation and Voice Control

Leverage the sensor's compatibility with platforms like SmartThings, Home Assistant, Alexa, and Google Assistant to create automation routines. For example:

- Turn on lights when a door opens (requires a smart plug or smart lighting).
- Receive voice announcements when a window is opened.
- Integrate with other security devices.



# Linkage Alarm with Power Plug

Light up your home when you open the door



Figure 5.3: Example of a linkage alarm system where a door sensor triggers a smart power plug via a gateway to turn on a light.

## 5.4. Manual Disable Feature

The sensor includes an ON/OFF switch. Set the switch to "OFF" to temporarily disable the sensor, which can be useful during maintenance or when you do not require active monitoring, helping to conserve battery life.

## 6. MAINTENANCE

### 6.1. Battery Replacement

When the battery level is low, your smart home application may notify you. To replace the battery:

1. Set the sensor's ON/OFF switch to "OFF".
2. Gently open the main sensor unit casing.
3. Remove the old AA LR6 1.5V battery.
4. Insert a new AA LR6 1.5V battery, ensuring correct polarity.
5. Close the casing securely.
6. Set the ON/OFF switch back to "ON".



Dispose of old batteries according to local regulations.

## 7. TROUBLESHOOTING

- **Sensor not pairing with hub:**

- Ensure the Zigbee hub is in pairing mode.
- Verify the sensor has a fresh battery and is powered ON.
- Bring the sensor closer to the Zigbee hub during the pairing process.
- Try resetting the sensor (refer to the small instruction leaflet for reset procedure).

- **Inaccurate open/close detection:**

- Check the alignment of the main unit and auxiliary magnet. They should be parallel.
- Measure the gap between the two units when closed. It must be within the 20mm effective distance.
- Ensure the mounting surfaces are stable and not allowing movement that affects alignment.

- **Short battery life:**

- Ensure the sensor's ON/OFF switch is set to "OFF" when not in use for extended periods.
- Verify the battery type is AA LR6 1.5V and is new.
- Extreme temperatures can affect battery performance.

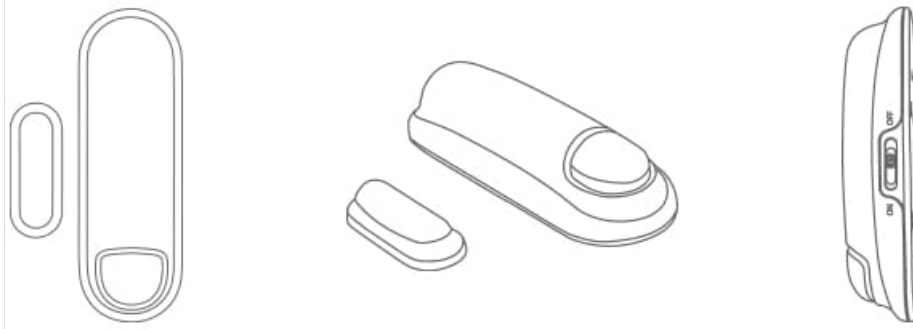
- **No alerts or notifications:**

- Check your smart home application's notification settings for the sensor.
- Ensure your smartphone/tablet has notifications enabled for the smart home app.
- Verify the sensor is still paired and reporting status correctly in the app.

## 8. SPECIFICATIONS



# SPECIFICATION



Power supply	AA LR6 1.5V*1
Standby current	32.6uA
Triggering distance	20mm
Wireless frequency	2.4GHz
Wireless protocol	Zigbee IEEE 802.15.4
Wireless distance	50M
Working temperature	0°C ~ 55°C (32°F ~ 131°F)
Working humidity	0% ~ 90%
Product size	90mm x 30mm x20mm(Main body)
	40mm x 15mm x 10mm(Deputy body)

Figure 8.1: Technical specifications of the NEO Zigbee Contact Sensor.

<b>Power Supply</b>	AA LR6 1.5V * 1
<b>Standby Current</b>	32.6uA
<b>Triggering Distance</b>	20mm
<b>Wireless Frequency</b>	2.4GHz
<b>Wireless Protocol</b>	Zigbee IEEE 802.15.4
<b>Wireless Distance</b>	50M
<b>Working Temperature</b>	0°C ~ 55°C (32°F ~ 131°F)
<b>Working Humidity</b>	0% ~ 90%
<b>Main Body Dimensions</b>	90mm x 30mm x 20mm
<b>Auxiliary Body Dimensions</b>	40mm x 15mm x 10mm
<b>Compatible Devices</b>	Home Assistant, SmartThings, Alexa, Google Assistant

## 9. WARRANTY AND SUPPORT







For warranty information and customer support, please refer to the documentation provided at the point of



purchase or visit the official NEO website. Keep your purchase receipt for warranty claims.

© 2024 NEO. All rights reserved.

Related Documents - NAS-DS09

	<p><a href="#">NEO Matter Smart Power Plug Instruction Manual</a></p> <p>Detailed instructions for setting up and using the NEO Matter Smart Power Plug. Covers specifications, installation, compatibility, and integration with Tuya, Apple Home, Google Home, and Amazon Alexa smart home platforms.</p>
	<p><a href="#">NEO Zigbee Temperature and Humidity Sensor NAS-TH02B2 User Guide   Smart Home Monitoring</a></p> <p>User guide for the NEO NAS-TH02B2 Zigbee Temperature and Humidity Sensor. Learn how to set up, configure, and use this smart home device for real-time environmental monitoring.</p>
	<p><a href="#">How to Connect Neo Smart Blinds to Amazon Alexa</a></p> <p>A step-by-step guide to integrating Neo Smart Blinds with Amazon Alexa for voice control, including setting up the Alexa Skill, discovering devices, using voice commands, creating groups, and automating actions with routines.</p>
<p>Wi-Fi water valve user manual</p>  <p>NEO-WV02W</p> <p>Check the manual and the QR code of the device before using it. Please read the manual carefully before using the device.</p>	<p><a href="#">NEO Wi-Fi Smart Water Valve User Manual</a></p> <p>User manual for the NEO Wi-Fi Smart Water Valve (Model NAS-WV02W), detailing installation, app setup, product specifications, functions, and operation for smart home water management.</p>
<p>NEO NAS-CW01W6</p> <p>Temperature and Humidity (4 IN 1)</p>  <p>NEO NAS-CW01W6</p>	<p><a href="#">NEO NAS-CW01W6 Smart Clock: Temperature, Humidity, and Light Monitor User Manual</a></p> <p>Detailed user guide for the NEO NAS-CW01W6 smart clock, covering setup, features, specifications, and app integration for monitoring temperature, humidity, and ambient light. Includes FCC compliance information.</p>
	<p><a href="#">NEO NAS-DS05W WiFi Door Sensor: User Manual and Setup Guide</a></p> <p>Comprehensive guide for the NEO NAS-DS05W WiFi Door Sensor, covering specifications, LED status, setup with the Smart Life app, and main functions for smart home integration.</p>



