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## NodOn SIN-2-RS-01

# NodOn SIN-2-RS-01 EnOcean Roller Shutter Module User Manual

Model: SIN-2-RS-01 | Brand: NodOn

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## 1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, configuration, and operation of the NodOn SIN-2-RS-01 EnOcean Roller Shutter Module. This module is designed to integrate motorized roller shutters, awnings, and garage doors into your smart home system, offering remote control and automation capabilities. Please read this manual carefully before proceeding with installation or use to ensure safe and correct operation.

## 2. PRODUCT OVERVIEW

The NodOn SIN-2-RS-01 module is a compact, in-wall device that enables smart control of various motorized window coverings and access points. It utilizes the EnOcean wireless protocol, allowing for seamless integration with compatible switches, remote controls, and home automation gateways.

### Key Features:

- Remote control of motorized roller shutters, awnings, and garage doors.
- Compatibility with EnOcean wireless and battery-less switches for flexible control point placement.
- Integration with most home automation systems for scenario creation and centralized control.
- Power supply: 230V.
- Maximum motor power: 280W - 60Nm.
- Radio range: Up to 30 meters indoors.
- Compact design (40 x 17 x 45 mm) for easy installation behind existing switches or directly near the motor.



Figure 2.1: The NodOn SIN-2-RS-01 EnOcean Roller Shutter Module. This image shows the compact orange module with its connection terminals and EnOcean branding.

### 3. SAFETY INFORMATION

**WARNING:** Improper installation or use can be dangerous. Please observe the following safety precautions:

- **Electrical Installation:** Installation must be performed by a qualified electrician in accordance with all local and national electrical codes and regulations.
- **Power Disconnection:** Always disconnect the main power supply at the circuit breaker before performing any installation, wiring, or maintenance on the module or connected motor.
- **Load Limits:** Do not exceed the maximum motor power rating of 280W (60Nm). Overloading can cause damage to the module and create a fire hazard.
- **Environment:** Install the module in a dry indoor environment, away from direct moisture, water, or extreme temperatures (operating temperature up to 40°C). The module has an IP00 rating, meaning it is not protected against water or dust ingress.
- **Product Integrity:** Do not attempt to open, modify, or repair the module. Doing so will void the warranty and may pose a safety risk.

- **Children:** Keep the module and its components out of reach of children.

## 4. INSTALLATION

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The NodOn SIN-2-RS-01 module is designed for in-wall installation, typically behind an existing mechanical switch or directly near the motor of your motorized roller shutter, awning, or garage door. A deep electrical box is recommended for installation behind a switch.

### 4.1. Pre-installation Checklist

1. Ensure the main power supply to the circuit is disconnected.
2. Verify that your motorized device operates on 230V AC.
3. Confirm that the motor's power consumption does not exceed 280W (60Nm).
4. Gather necessary tools: screwdriver, wire strippers, voltage tester.

### 4.2. Wiring Instructions

Follow the wiring diagram below carefully. Incorrect wiring can damage the module or the motor.

- **L (Live):** Connect the live wire (phase) from your main power supply (230V) to the 'L' terminal on the module.
- **N (Neutral):** Connect the neutral wire from your main power supply to the 'N' terminal on the module.
- **Motor Common (M):** Connect the common wire of your motor to the 'M' terminal on the module.
- **Motor Up (▲):** Connect the motor's 'Up' control wire to the terminal marked with an upward arrow (▲) on the module.
- **Motor Down (▼):** Connect the motor's 'Down' control wire to the terminal marked with a downward arrow (▼) on the module.
- **External Switch Inputs (I1, I2):** If using an external wired switch, connect its control wires to the 'I1' and 'I2' terminals. Typically, I1 for 'Up' and I2 for 'Down' or vice-versa depending on your switch type.



Figure 4.1: Example of NodOn module integration with a wall switch. This image visually represents how the module connects to a physical switch for local control, while also enabling wireless communication.

After wiring, carefully place the module and wires into the electrical box, ensuring no wires are pinched. Restore power at the circuit breaker.

## 5. PAIRING & CONFIGURATION

The NodOn SIN-2-RS-01 module can be paired with EnOcean wireless switches/remote controls or integrated into a compatible home automation gateway.

### 5.1. Pairing with an EnOcean Wireless Switch/Remote

1. Ensure the NodOn module is powered on.
2. Locate the pairing button on the module (often labeled "LED/PRESS").
3. Press and hold the pairing button for approximately 3 seconds until the LED on the module starts blinking, indicating it is in pairing mode.
4. Within 30 seconds, actuate the EnOcean wireless switch or remote control you wish to pair (e.g., press the 'Up' button).
5. The module's LED will stop blinking and illuminate steadily for a few seconds, confirming successful pairing.
6. Test the control by pressing the 'Up' and 'Down' buttons on the paired switch/remote.

### 5.2. Pairing with a Home Automation Gateway

1. Refer to your specific home automation gateway's user manual for instructions on adding new EnOcean devices.
2. Initiate the device discovery or pairing mode on your home automation gateway.
3. While the gateway is searching, activate the pairing mode on the NodOn module by pressing and holding its pairing button for approximately 3 seconds until the LED blinks.
4. The gateway should detect and add the NodOn module to your smart home network.
5. Follow any on-screen prompts on your gateway for naming the device and configuring its functions.

## 6. OPERATION

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Once the NodOn SIN-2-RS-01 module is successfully installed and paired, you can control your motorized roller shutters or other devices using various methods:

- **Local Control:** Use the connected wired switch (if installed) to operate the roller shutter (Up/Down/Stop).
- **Wireless Control:** Use paired EnOcean wireless switches or remote controls to send commands.
- **Smart Home Control:** Control via your home automation system's interface, including scheduling, scene creation, and voice commands (if your gateway supports integration with voice assistants like Amazon Alexa).

# Rénovation



**Ajout d'un nouveau contrôleur sans fil sans pile (interrupteur, télécommande, ...) pour un pilotage à distance**

*Figure 6.1: The module enables adding wireless control to existing roller blinds, enhancing convenience in a bedroom setting.*

# Sérénité



## Contrôle à distance et simulation de présence en cas d'absence

Figure 6.2: Remote control capabilities and presence simulation features offer enhanced security and peace of mind for your home.

## 7. MAINTENANCE

The NodOn SIN-2-RS-01 module is designed for long-term, maintenance-free operation. However, consider the following general guidelines:

- **Cleaning:** Keep the area around the module free from excessive dust and debris. Do not use liquid cleaners directly on the module.
- **Inspection:** Periodically check the wiring connections for any signs of loosening, corrosion, or damage. If any issues are found, disconnect power and consult a qualified electrician.
- **Firmware Updates:** If integrated with a home automation gateway, check for any available firmware updates for the module through your gateway's interface.
- **Avoid Tampering:** Do not attempt to open or modify the module's casing.

## 8. TROUBLESHOOTING

If you encounter issues with your NodOn SIN-2-RS-01 module, refer to the following troubleshooting steps:

### 8.1. Module Not Responding

- **No Power:** Ensure the main power supply to the module is active. Check the circuit breaker.
- **Wiring:** Verify all wiring connections (Live, Neutral, Motor, Switch Inputs) are secure and correctly installed according to the wiring diagram.
- **Pairing:** If using a wireless switch or gateway, re-attempt the pairing process as described in Section 5.
- **Range:** Ensure the control device (EnOcean switch/remote or gateway) is within the module's radio range (up to 30m indoors). Obstacles like thick walls can reduce range.

### 8.2. Motor Not Operating Correctly (e.g., only one direction, stops prematurely)

- **Motor Functionality:** Test the motor directly (if possible and safe) to ensure it is functioning correctly independently of the module.
- **Wiring:** Double-check the motor's 'Up' and 'Down' control wires are correctly connected to the corresponding terminals on the module.
- **Load Exceeded:** Confirm that the motor's power consumption does not exceed the module's maximum rating of 280W (60Nm).
- **Calibration:** Some motors or gateways may require a calibration step to learn the full travel distance of the shutter. Refer to your motor or gateway manual.

### 8.3. Intermittent Wireless Connectivity

- **Interference:** Identify and relocate potential sources of radio interference, such as large metal objects, Wi-Fi routers, or other wireless devices operating on similar frequencies.
- **Repeater:** If the distance between the module and the control device/gateway is significant, or if there are many obstacles, consider installing an EnOcean repeater to extend the wireless range.

## 9. SPECIFICATIONS

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Detailed technical specifications for the NodOn SIN-2-RS-01 EnOcean Roller Shutter Module:

Feature	Specification
Model Number	SIN-2-RS-01
Brand	NodOn
Power Supply	230V AC
Max Motor Power	280W - 60Nm
Connectivity Protocol	EnOcean
Dimensions (L x W x H)	40 x 17 x 45 mm
Weight	40 grams
Operating Mode	ON-ON
Current Rating	1 mA
Contact Type	Normally Open
Connector Type	Plug-in
Material (Housing)	Plastic
Material (Contact)	Copper
IP Rating	IP00
Mounting Type	Wall Mount
Actuator Type	Push Button
Upper Rated Temperature	40 Degrees Celsius
Control Method	Remote Control
Compatible Control Device	Amazon Alexa (via compatible gateway)
Country of Origin	China

## 10. WARRANTY AND SUPPORT

For detailed warranty information, terms, and conditions, please refer to the official NodOn website or the documentation provided with your purchase. Keep your proof of purchase for any warranty claims.

For technical support, troubleshooting assistance beyond this manual, or inquiries about spare parts, please contact your retailer or NodOn customer service directly. Information regarding the availability of spare parts is currently not provided.