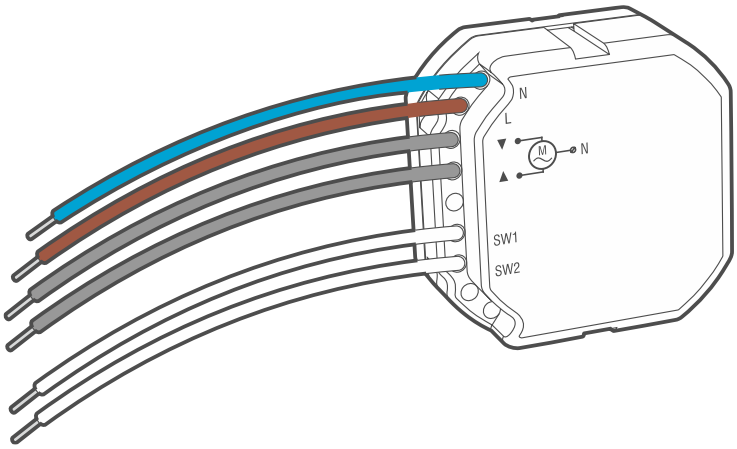
Smart Blinds

ARSC-200

EN

Firmware version 1.01



CE

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IMPORTANT

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

Description of symbols on the device:

The device meets the requirements of the applicable EU directives.

The device must not be disposed of with other municipal waste. It should be disposed of in accordance with the existing rules for environment protection (the device was placed on the market after 13 August 2005).

The device is designed for indoor installation.

Alternating current (AC).

Prior to installation, please read carefully the manual.

SATEL aims to continually improve the quality of its products, which may result in changes in their technical specifications and software. Current information about the changes being introduced is available on our website.
Please visit us at:
https://support.satel.pl

Hereby, SATEL sp. z o.o. declares that the radio equipment type ARSC-200 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.satel.pl/ce

Signs in this manual

Caution – information on the safety of users, devices, etc.

Note – suggestion or additional information.

CONTENTS

1. Features 2
2. Description 2
3. Installation 3
3.1 Tips for installation 3
3.2 Mounting 4
4. Specifications 4

The ARSC-200 controller (Smart Blinds) is used to open and close roller blinds / shutters / electric windows. It controls devices driven by a 230 VAC motor with limit switches. The manual applies to the controller installed in the BE WAVE system.

1. Features

- Control of blinds / shutters / windows driven by 230 VAC.
- Remote control or local control by means of control inputs.
- Automatic detection of blind / shutter travel time.
- Detection of blind / shutter errors (no power, incorrect position, mechanical jam, motor overheating).
- 2 control inputs:
  - capability to connect a double push-button or a roller blind switch,
  - local blind / shutter control,
  - capability to control any device in the system.
- Operation in the 868 MHz frequency band.
- AES encrypted two-way radio communication.
- Transmission channel diversity – 4 channels for automatic selection of the one that will enable transmission without interference with other signals.
- Remote settings programming.
- Remote firmware update.
- Powered by 230 VAC.
- Installed in a flush- or surface-mounted junction box with a minimum diameter of 60 mm.

2. Description

Figure 1 shows the controller.

① button used to:

- register the controller in the system – press while adding the controller to the system,
- block / unblock the registration – press and hold for 10 seconds to block / unblock the capability to add the controller to the system.

Wires

N [blue] - for connecting 230 VAC supply neutral wire.
L [brown] - for connecting 230 VAC supply phase wire.
▼ [gray] - for connecting the blind / shutter motor – downward motion.
▲ [gray] - for connecting the blind / shutter motor – upward motion.
SW1 [white] - control input 1.
SW2 [white] - control input 2.

Do not connect more than one motor to the controller.

The controller inputs are not galvanically isolated.

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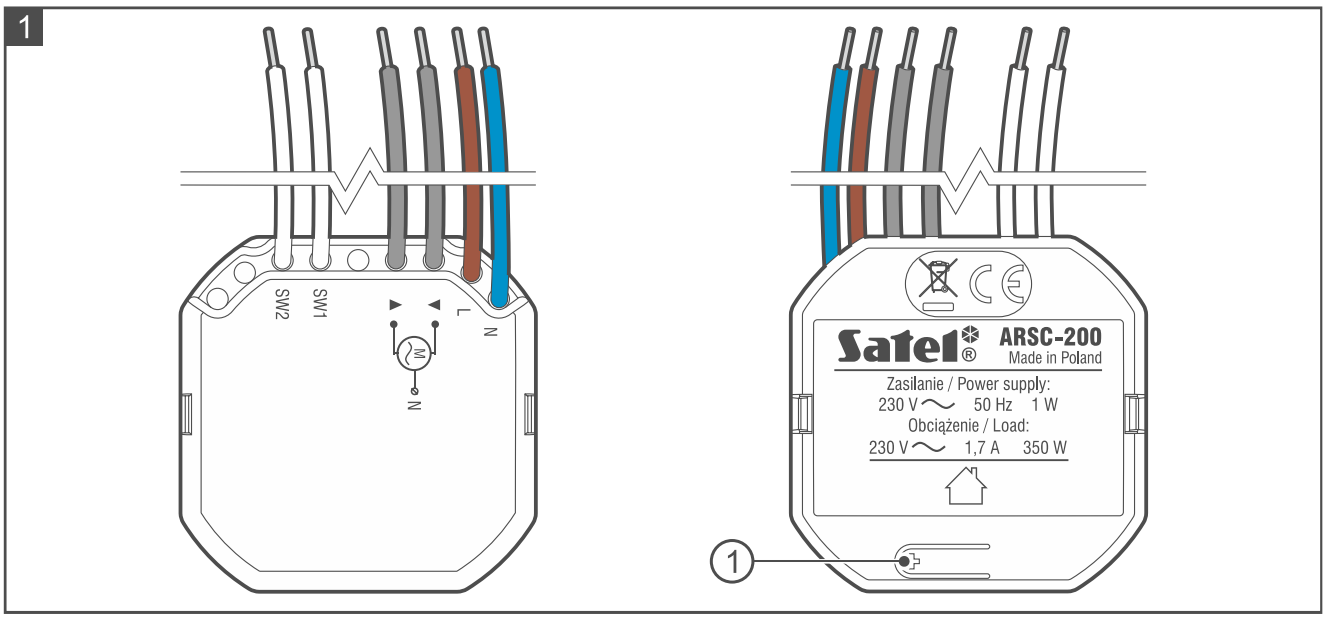


3. Installation

The device should be installed by qualified personnel.

Disconnect power before making any electrical connections.

Connect the controller to a single-phase network according to the applicable standards.

The roller blind / shutter connected to the controller should meet the requirements of standard 60335-2-97.

Do not remove the controller from the enclosure. Installing the controller without enclosure or with a damaged enclosure poses a risk of electric shock and may damage the device.

Do not install the controller at locations above 2000 m above sea level.

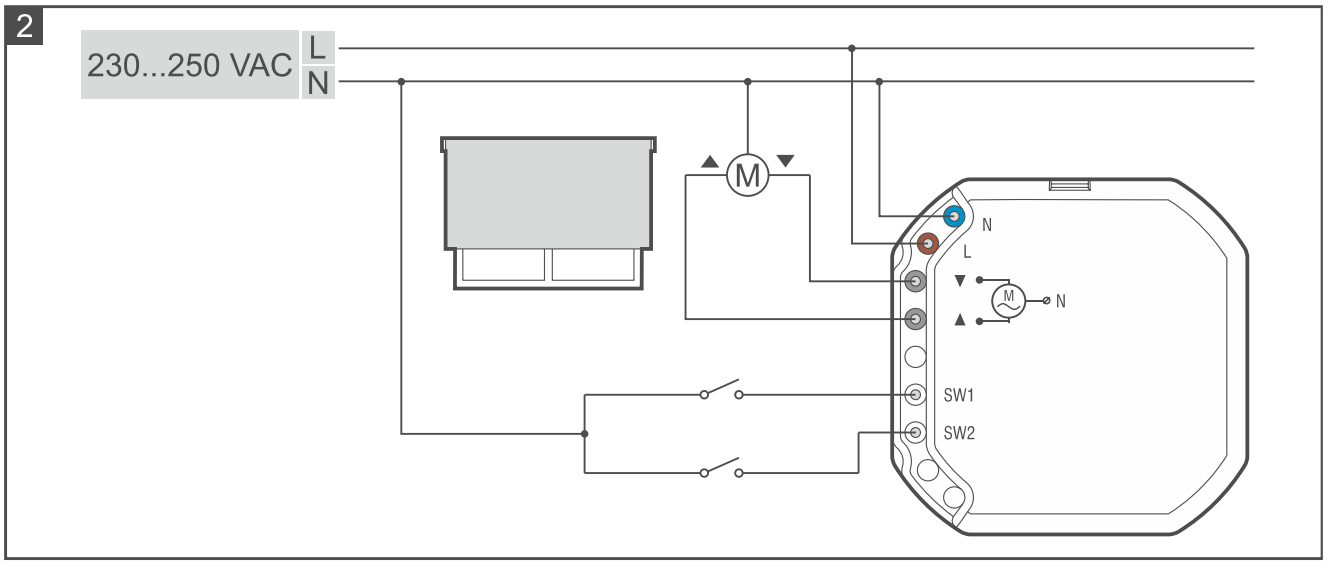
3.1 Tips for installation

- The controller should be installed indoors, in spaces with normal air humidity.
- Do not install the controller outdoors.
- When selecting a place of installation, consider the radio communication range.
- Thick walls, metal partitions, etc. reduce the range of the radio signal.
- The electrical circuit to which the controller is to be connected must have suitable protection. Instruct the owner / user of the system on how to disconnect the controller from the mains supply (e.g. indicate the fuse or circuit breaker protecting the controller supply circuit).
- Install the controller in an electrical junction box (a deep junction box with a diameter of at least 60 mm).
- To connect the wires, use screw terminal blocks, splicing connectors, etc.
- You can connect a 230 VAC blind / shutter motor with limit switches to the controller. The motor's current consumption cannot exceed 1.7 A.

- You can connect a double push-button or a roller blind switch designed for 230 V electrical installations to the controller inputs. The push-button is the preferred choice. It provides more functionality.
- To connect the push-button / switch, use flexible wires with a cross-section of 0.5-0.75 mm^2.

3.2 Mounting

1. Power off the circuit to which the controller is to be connected.
2. Open the electrical junction box in which the controller is to be installed.
3. Connect the controller to the 230 VAC supply circuit (Fig. 2):
   – brown wire [L] to phase wire.
   – blue wire [N] to neutral wire.
4. Connect the blind / shutter motor to the controller output (Fig. 2).
5. Connect a double push-button / roller blind switch to the controller inputs (Fig. 2).



6. Place the controller in the junction box. Make sure the electrical wires are behind the controller enclosure.
7. Power on the circuit to which the controller is connected.
8. Add the controller to the system (see the manual for the BE WAVE system controller or the BE WAVE Hybrid system control panel).
9. Close the junction box.

4. Specifications

Operating frequency band ..... 868.0 MHz ÷ 868.6 MHz
Radio communication range (in open area) ..... up to 1000 m
Supply voltage ..... 230 VAC, 50 Hz
Standby power consumption ..... 0.45 W
Maximum power consumption ..... 1 W
Maximum load ..... 1.7 A / 350 W / 230 VAC
Complied with standards ..... EN 50130-4, EN 50130-5
Environmental class according to EN 50130-5 II
Operating temperature range ..... -10°C...+55°C

Maximum humidity ..... 93±3%
Dimensions ..... 47 x 47 x 22 mm
Weight ..... 41 g