



# LAVVA double

Universal Smart Home controller  
with a built-in energy monitor

Dear Sir or Madam,

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**Lavva Double controller** is a piece of modern, wireless home automation system. For proper operation it requires power supply, connection with the managed receiver and Wi-Fi communication.

The device can be used in two modes. In the first it plays a role of lighting controller or electric circuit controller, e.g. socket. In this variant, LAVVA double is a two-channel device (two lamps or two sockets with a load up to 5 A on each) offering in addition, the functionality of the energy monitor.

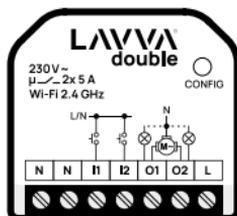
On the other hand, LAVVA double can work as a roller shutter controller. In this mode the device can control the roller shutter while realizing an additional functionality which is automatic calibration.

Devices from the LAVVA line are controlled by mob. app. available for devices with Android and iOS, also through web browser at <https://lavva.cloud/>

Thank you for choosing our solutions.

# KIT CONTENTS

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**LAVVA double**



**Manual**

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# WARNING



The device must be connected to the power supply in accordance with the applicable standards. **The method of connection is specified in this manual. Installation, connection and adjustment should be carried out by qualified electricians, who have read the user's manual and know the functions of the equipment.** Disassembly of the housing voids the warranty and poses a risk of electric shock. Before assembly, make sure that there is no voltage on connection cables!

ZAMEL Sp. z o.o. hereby declares that the radio-frequency (RF) device type LAVVA double conforms to Directive 2014/53/EU. See the website below for the full EU Declaration of Conformity: [www.zamel.com](http://www.zamel.com)

([https://zamel.com/pl/double/deklaracja\\_zgodnosci.pdf](https://zamel.com/pl/double/deklaracja_zgodnosci.pdf))



Do not dispose of this device with other waste! In order to avoid harmful effects on the environment and human health, the used device should be stored in designated areas. For this purpose, you can dispose of household waste free of charge and in any quantity to a collection point set up, as well as to the shop when you buy new equipment.

**LAVVA double** is a versatile smart home controller that **can operate as a lighting controller or a roller shutter controller**, depending on the selected mode.

You can select the operating mode when adding the device to the LAVVA app.

## DEVICE FEATURES

### Lighting controller mode / electric circuit controller mode



2-channel lighting control.

Monitoring of power consumption on each channel.

Possibility of local control by using buttons and remote control using LAVVA app.

Wi-Fi 2.4 GHz communication.

Maximum load 2 x 5 A.

### Roller shutter controller mode



Automatic calibration of the roller shutter position.

Possibility of local control using buttons and remote control using LAVVA app.

Possibility of reversing input and output channels in the app.

Wi-Fi 2.4 GHz communication.

Komunikacja Wi-Fi 2.4 GHz.

**LAVVA double**

Rated voltage	230 V ~ (50/60 Hz)
Rated power consumption	1.2 W
Transmission Wi-Fi	Wi-Fi 2.4 GHz b/g/n
Maximum transmit power	ERP < 20 mW
Compatible connectors	monostable (bell buttons), bistable (standard light switches without backlight function)
Operating temperature range	-10 + +55°C
Number of terminals	7 (conductor cross-section up to 1.5 mm <sup>2</sup> )
Enclosure installation	installation box 60 mm
Enclosure protection rating	IP20
Dimensions	40 x 37.5 x 17 mm
Weight	0.05 kg

**Lighting / socket control mode**

Number of inputs	2
Number of output channels	2
Relay contact parameters	2 x NO 5 A / 250 V ~
Maximum output current-carrying capacity	2 x 5 A / 250 V ~ incandescent and halogen bulbs – 750 W; CFL bulbs – 250 W; LED bulbs – 60 W

**Roller shutter mode**

Number of inputs	2
Number of output channels	switchable: top / bottom
Maximum output current-carrying capacity	1 x 5 A / 250 V ~ roller shutter drives – 350 W



screwdriver



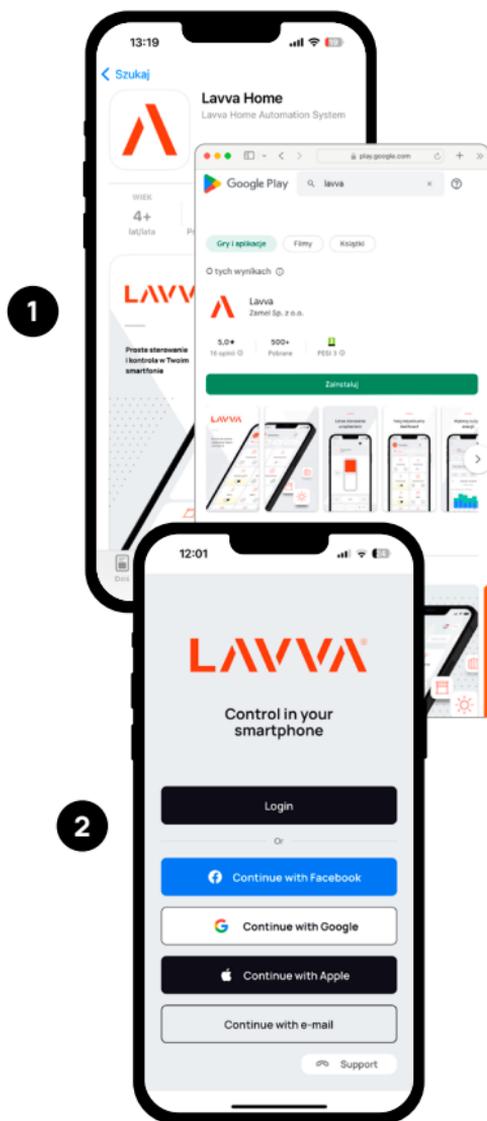
pliers

electrical wires  
Ø max 1,5 mm<sup>2</sup>

## WARNING!

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Before assembly, make sure that there is no voltage on connection cables!



### Install LAVVA app

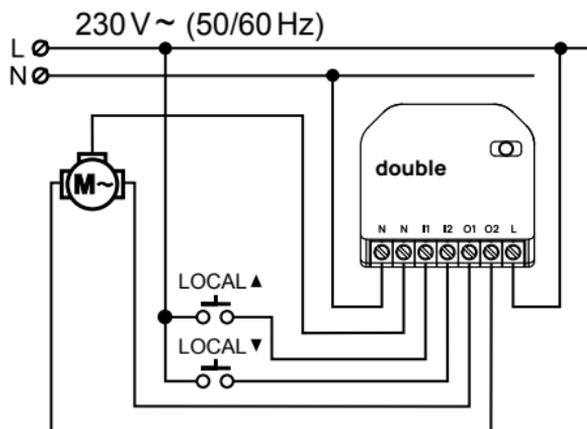
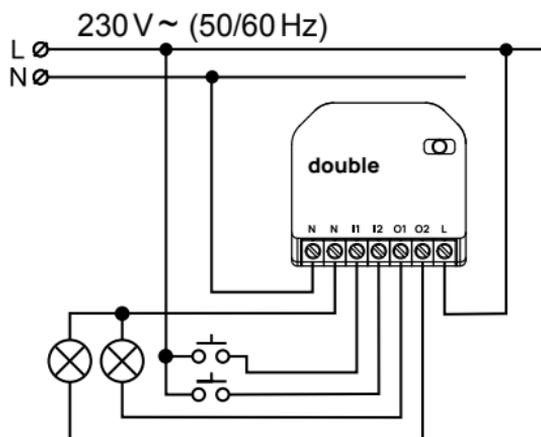
Download the LAVVA app to your mobile device from the App Store or Google Play. The app is also available in your web browser at: [lavva.cloud](http://lavva.cloud)



### Create an account in the LAVVA app

If you do not have an account yet, create one by providing your email address or selecting another available authorization method.

Connect LAVA double to the electrical installation according to the diagram appropriate for the selected function (lighting/socket or roller shutter control).



If the unit has not been configured before - the status LED should brighten and dim smoothly, flashing green.

## LED modes

### 1. LED lights up

- The device starts up.



### 2. LED lights up continuously

- The device is connected to Wi-Fi.
- The device is connected to LAVVA app.



### 3. LED flashes at equal intervals in a single blink

- The device has a problem connecting to Wi-Fi.



### 4. LED flashes at fixed intervals with double flashes

- The device is connected to Wi-Fi.
- The device is not connected to LAVVA app.



### 5. LED flashes with „breathing“ effect

- The device is in configuration mode (exposes a Wi-Fi network or broadcasts a Bluetooth connection).



### 6. LED flashes for long periods of time

- A connection with the network shared by the device has been established.

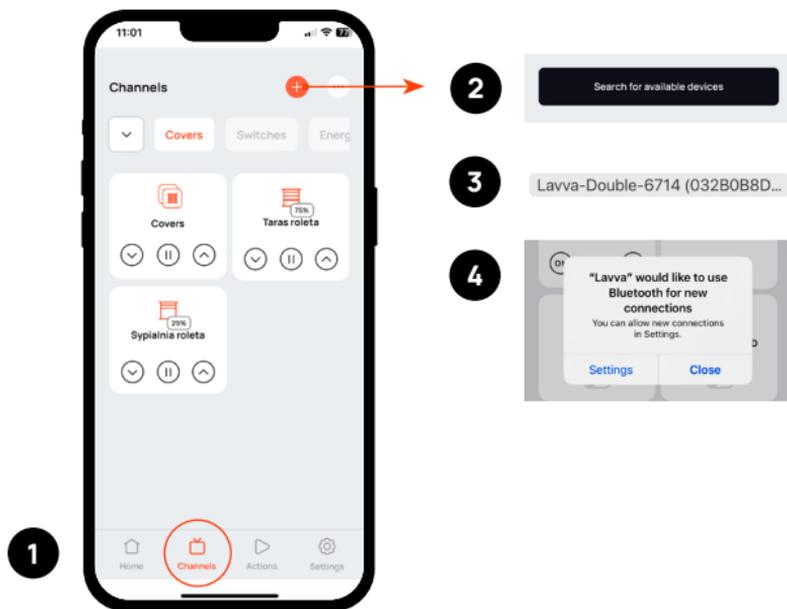


### 7. LED flashes very quickly

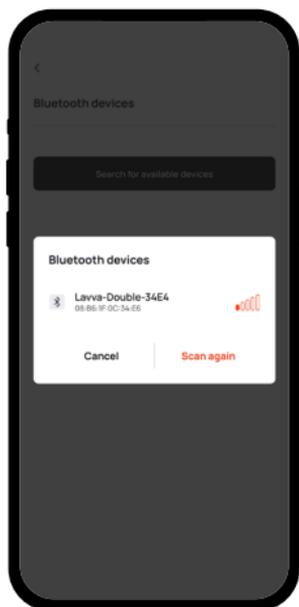
- The device enters configuration mode.
- Once in this mode, the LED begins to „breathe“.



In the LAVVA app, go to the Channels tab and select the icon  in the upper right corner of the screen and follow wizard instructions.



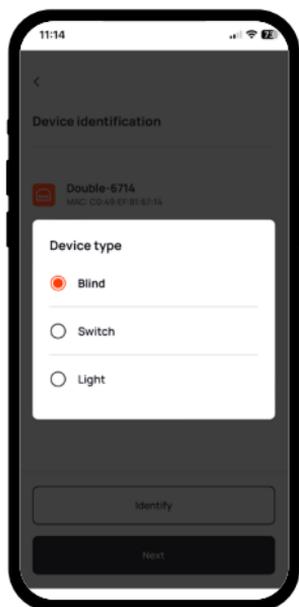
5



Select the device from the list of available devices.

Remember that Bluetooth connectivity in your device should be active.

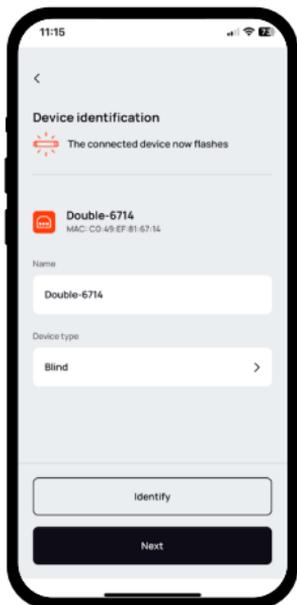
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## SELECT DEVICE OPERATION MODE

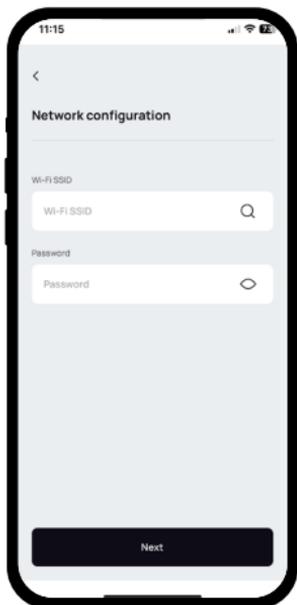
- **Switch** – lighting control or other receivers
- **Light** – lighting control
- **Blind** – roller shutter control

The differences between the Light and Switch modes will be more visible as the installation will develop in the context of group control mode.



## IDENTIFICATION OPTION

- After selecting the operating mode of your device you can give it your own name and use the identification option.
- The „Identify” option is especially useful when you add multiple devices during a single installation.



## CONNECT TO WI-FI NETWORK

Provide the access data to your Wi-Fi network.

If you have previously configured other LAVVA devices, the application will suggest using the same access data.

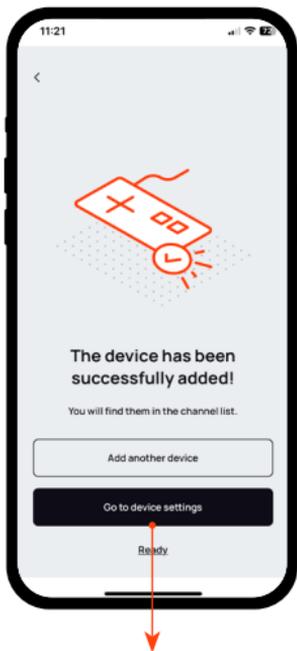
## SUCCESS!

After successful device adding, you can select „Done“ to go to the main screen of the app.

**WE RECOMMEND** that at this stage you calibrate the roller shutter control / configure the settings for sockets or lighting control by selecting „Go to device settings“.

In the „Channel settings“ tab, you can give your own name to the controller and select an icon. Further settings are available in the „Channels“ tab.

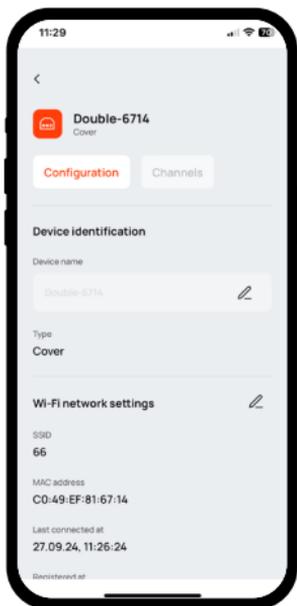
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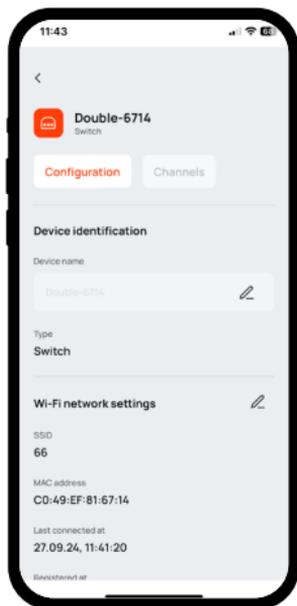
### 1. Roller shutter control configuration

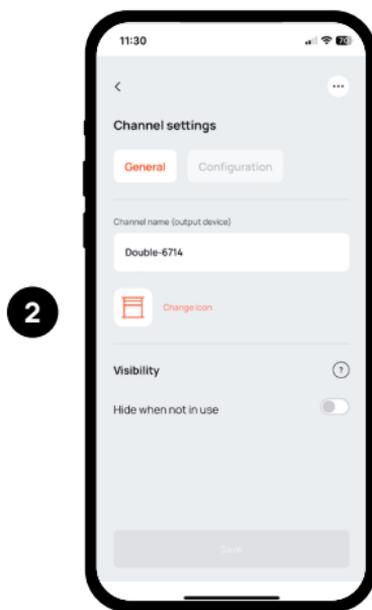
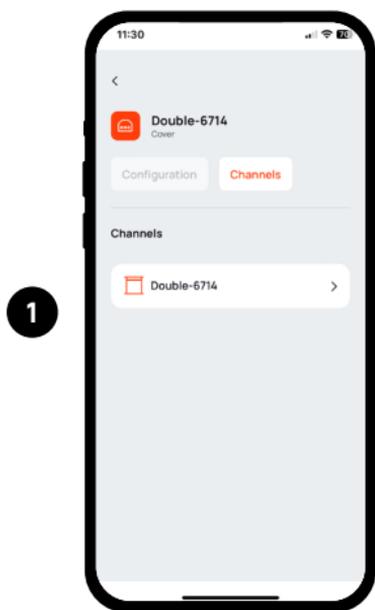
### 2. Sockets/lighting control configuration

10



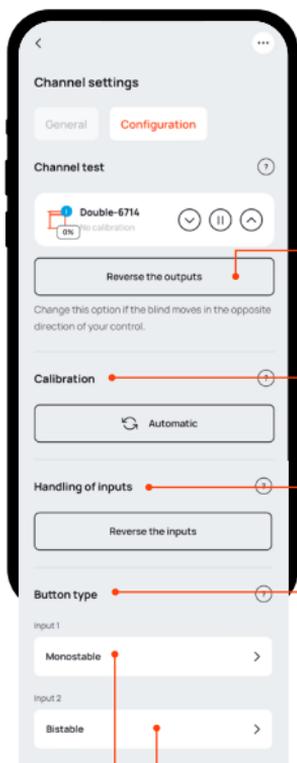
11





Here you can give your channel a name and choose an icon.

3



## CONFIGURATION IN A ROLLER SHUTTER CONTROLLER MODE

**Reverse outputs:** allows you to reverse the direction of the roller shutter just with one button.

**Calibration:** triggers automatic calibration. The controller will start the roller shutter and check its extreme position points.

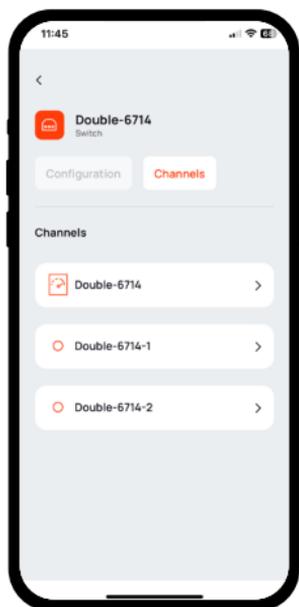
**Input support:** allows you to reverse the direction of the roller shutter control switch.

**Switch type:** Select appropriately for the type of devices used.

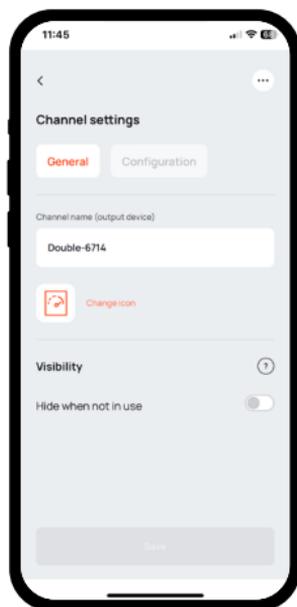
Under the question mark icons (?) you will find short explanations regarding selected functions.

**Bistable:** Dedicated for e.g. lighting or a switch, allows you to select one of two conditions.

**Monostable:** Dedicated for e.g. gates or roller shutters – sends a single signal.

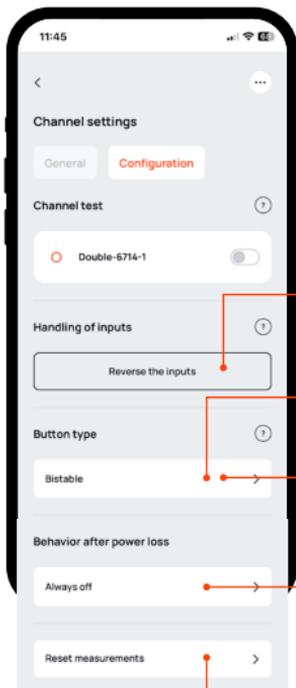


In the „Channel Settings“ section you can set your own controller name and icon.



In the „Channels“ tab, you can configure individual channels. Here you can give names to specific points, e.g. „Lamp above the table“, „Wall lamp“, „TV“.

3



Reversing the inputs will change the ports in the device (I1 to I2 and I2 to I1).

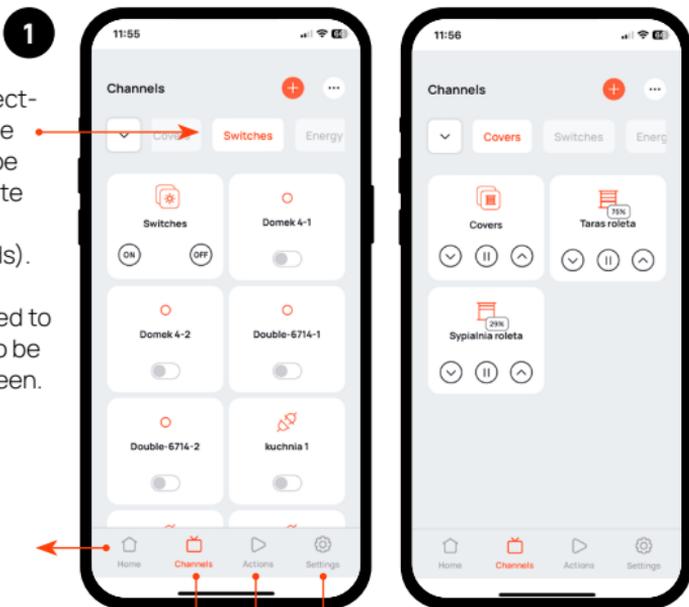
**Monostable:** Dedicated for e.g. gates or roller shutters – sends a single signal.

**Bistable:** Dedicated to e.g. lighting or a switch, allows you to select one of two conditions.

Here you can choose how the circuit control should behave after a power outage:

- **Always off:** after power is restored the controlled channels will remain off.
- **Always on:** after power is restored the controlled channels will remain on.
- **Keep state:** after power is restored the controlled channels will return to the state before the power was outage.

Resetting previous energy measurements.



**1**

Depending on the selected operating mode, the added controller can be found in the appropriate tab at the top of the screen (Lighting, Blinds).

If the controller is added to favorites ♥ - it will also be visible on the mainscreen.

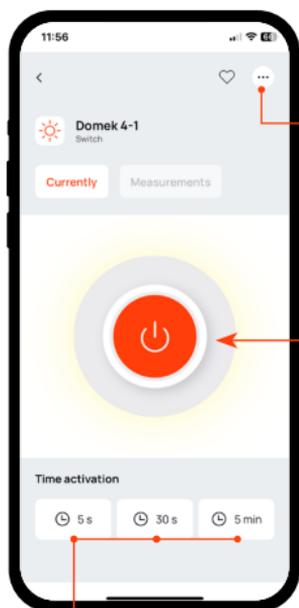
In the **Home** tab we have access to all LAVA controllers. Also those placed in the Favorites folder.

In the **Channels** tab we have access to individual channels of all controllers.

In the **Actions** tab we have access to Group Control (e.g. blinds, switches), creating Actions and Automation for individual controllers or their entire groups.

**2**

In the **Settings** tab we can personalize both the LAVA app itself or the installation and our account, set notifications. We also have access to technical support, the Privacy Policy and the Regulations.

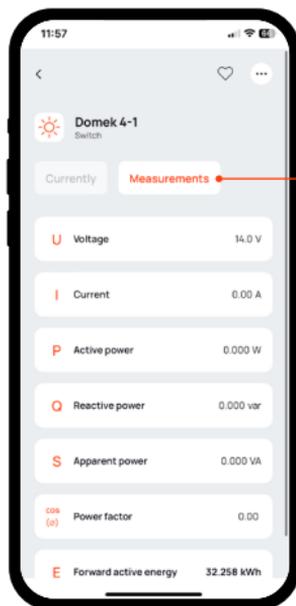


3

You can add the device to your favorites by clicking the heart  in the upper right corner. After pressing the three dots icon  in the upper right corner, you can choose Channel Settings or choose Channel Sharing option, where you can share your channel to some other users.

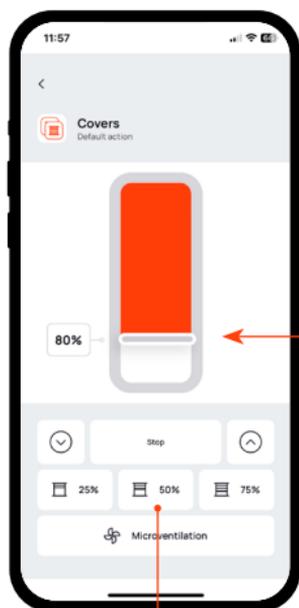
After selecting the lighting controller tile, you can turn on or turn off the controlled receiver.

You can set the time for how long the lighting will remain on. By holding the button you can enter your own time settings from 1 second to 59 minutes 59 seconds.



After entering the **Measurements** tab, we gain access to all the measurements performed by the controller.

4

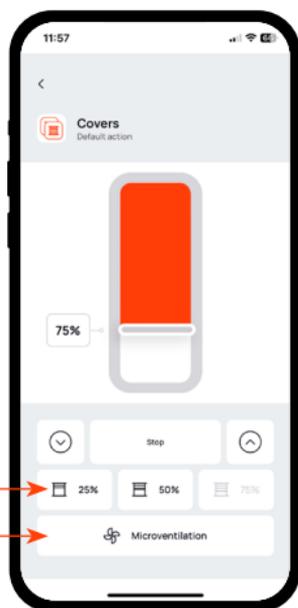


1

You can adjust the shutter opening level on a graphic scale.

2

You can also choose from ready-made options, e.g. 25%, 50%, 75% or Micro-ventilation (99%).

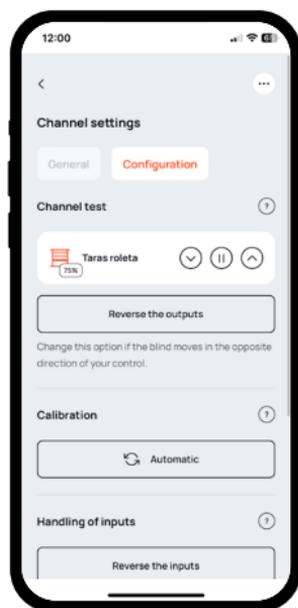


After holding down the button, you can enter your own settings in shortcuts to your preferred roller shutter closing range.

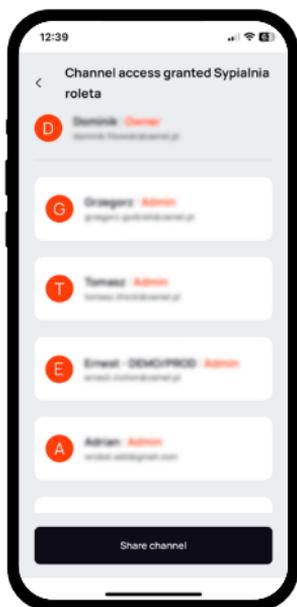


1

In the upper right corner you can bring up the channel's Settings menu or choose to share it with other users.



2



Selected channels can be shared with other users. By clicking „Share channel” you can invite other users by providing their email address. Once they accept your invitation you can decide on their permissions.

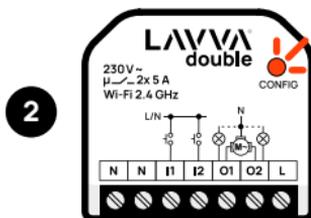
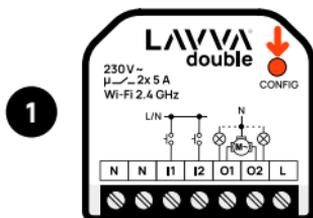
You can share:

- the entire installation (all controllers);
- individual controller groups (e.g. roller shutters, switches, lighting, etc.);
- selected channels of individual devices.

We can limit access in terms of authorizations (administrator/user) and in terms of access (unlimited, time-based, quantitative with a specified number of actions performed).

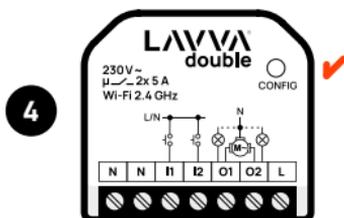
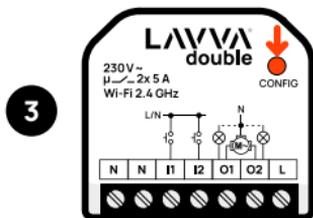
Press and hold the CONFIG button for 8 s., untill The STATUS LED will flash rapidly.

Release the CONFIG button.  
The STATUS LED will be „breathing“.



Press and hold the CONFIG button for 8 s. again, untill the STATUS LED will flash rapidly.

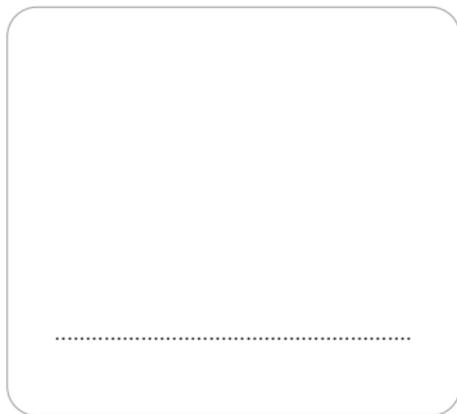
Release the CONFIG button. The device will be reset to factory settings and will restart.



1. Zamel Sp. z o.o. offers a 24-month warranty on the products sold. 2. The warranty offered by ZAMEL Sp. z o.o. does not cover: a) mechanical damage caused during transport, loading/unloading or other circumstances, b) damage caused by faulty assembly or operation of the products provided by ZAMEL Sp. z o.o.; c) damage resulting from any changes made by the BUYER or third parties in the products sold or equipment necessary for the proper operation of the products sold; d) damage resulting from force majeure or other fortuitous events for which ZAMEL Sp. z o.o. is not responsible. 3. Any warranty claims shall be made by the BUYER at the point of sale or to ZAMEL Sp. z o.o. in writing after the identification of defects. 4. Zamel Sp. z o.o. undertakes to handle complaints in accordance with the applicable provisions of Polish law. 5. The choice regarding the form of complaint resolution, e.g. replacement of a product with a product free from defects, repair, or reimbursement, lies with ZAMEL Sp. z o.o. 6. The warranty does not exclude, limit, or suspend the BUYER's rights under the statutory warranty for defects in the item sold.



**Seller's signature,  
stamp and date of sale**



**Installer's signature,  
licence number, stamp and date**

Help us  
to grow

**Share your  
opinion**



[https://www.facebook.com  
/groups/zamelekoozep/](https://www.facebook.com/groups/zamelekoozep/)

LAVVA®

Positive energy

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