



Livi Roller Shutter shutter control unit

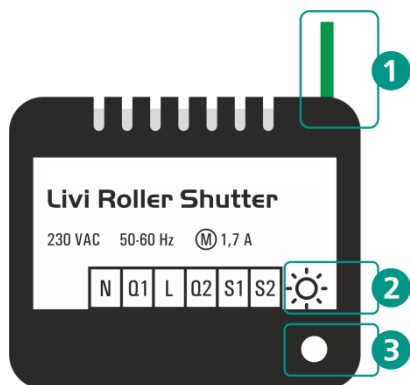
DESCRIPTION

The Livi Roller Shutter unit (hereafter referred to as the unit) is designed to control an AC electric motor at the command of the Livi Smart Hub and through control switches.

The unit has two inputs for connection of roller control switches and 2 relay outputs for the motion direction control (upwards/downwards).

The unit can be used to control AC electric motors of roller shutters, curtains, blinds, gates and other units powered by single-phase AC power mains. The unit can provide precise positioning of rollers shutter plates. Precise positioning can be performed for all AC electric motors with mechanical and electronic limit switches.

UNIT APPEARANCE



1. Antenna
2. LED indicator
3. Function button

CHOOSING LOCATION FOR THE UNIT

The unit is designed for discrete in-wall mounting or for installation in a deep switch box or in the enclosure of controlled equipment.

DO NOT install the unit outdoors, in places with high humidity, or at temperatures exceeding the operating temperature range (see "Specifications" table below).

PRECAUTIONS

Observe the general electrical safety rules and regulations when installing and operating the unit. The unit wiring and installation must be performed by an authorized person qualified in electrical work.

DO NOT open the unit enclosure.

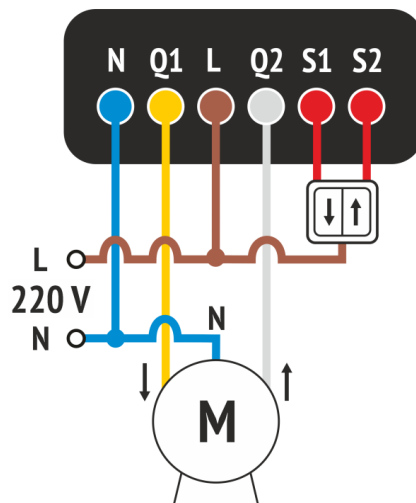
The unit must be unpacked and allowed to reach room temperature for at least two hours before handling if it was transported or stored at low temperatures.

UNIT INSTALLATION

1. De-energize the power cable to which the unit will be connected (or cut off electricity at the site).
2. Connect the neutral wire of the power cable to the blue wire (N) of the unit and to the AC electric motor (refer to the documentation for the electric motor for connection).
3. Connect the phase wire of the power cable to the brown wire (L) of the unit and to the contacts of the switches.
4. Connect red wires of the unit to the contacts of the switches (S1 - close and S2 - open).

5. Connect yellow (Q1 - close) and white (Q2 - open) wires of the unit to the corresponding motor control inputs.
6. Bring the antenna (1) out and place it under the plastic frame of the switch if the unit is installed in a switch box. The farther the antenna will be located from any metal structures, the less chance of the radio signal shielding. **DO NOT** shorten the antenna.

CONNECTION DIAGRAM



BINDING TO LIVI SMART HUB

1. Supply power to the unit after the unit wiring and installation. The unit indicator will blink blue for 60 seconds when the unit switches to the binding mode.
2. In the Livicom app, open the "Devices" screen, in the upper right corner of the screen tap + and select "Add device". The unit indicator will blink green five times after successful binding.

The unit switches to the binding mode only for 60 seconds. If you have not bound it to the Livi Smart Hub within this period, then de-energize the unit, wait for 10 seconds and supply the power to the unit again. The unit will switch to the binding mode.

EVALUATING SIGNAL STRENGTH

Check the quality of the connection between the unit and the Livi Smart Hub at the unit installation location. There are two ways to evaluate the signal strength:

1. In the Livicom app, on the Unit settings screen.
2. With the help of LED indication on the unit: double-click on the function button (3) and look at the unit indicator (2). Interpret the indication using the table below.

| | |
|----------------|------------------------------------|
| Good signal | The indicator blinks green 3 times |
| Average signal | The indicator blinks green 2 times |
| Poor signal | The indicator blinks green once |
| No connection | The indicator blinks red 4 times |

UNIT OPERATION CHECKING

Send to the unit a command to open roller shutters from the Livicom app to calibrate the unite. Wait until the shutters open completely. Then send to the unit a command to close roller shutters from the Livicom app. Make sure that the shutters have been fully closed.

Then you can set the "Comfort" position in the app and check whether it is really comfortable for you.

Do not use the unit and contact technical support (support@livicom.ru) if you see any incorrect operation of the unit.

UNIT DELETING

There are two ways to unbind the unit from the Livi Smart Hub:

1. In the Livicom app, on the Unit settings screen.
2. Using the function button (3): de-energize the unit, wait for 10 seconds and supply power to the unit again. Quickly click on the function button (3) until the indicator (1) starts blinking blue.

SPECIFICATIONS

| | |
|--|--------------------------------|
| Operating frequency | 868 MHz |
| Radio communication range* | 1000 m |
| Radio channel power | 25 mW |
| Period of sending test events to the hub | 2 minutes |
| AC supply voltage | 100 – 250 V, 50/60 Hz |
| Number of inputs | 2 |
| Number of control channels | 2 (opening and closing) |
| Connected load | 1 induction single-phase motor |
| Control channel load | up to 1,7 A (cosφ≠1) |
| Control channel power | up to 391 W |
| Power consumption | up to 1 W |
| Operating temperature range | from -20 to +55 °C |
| Relative humidity | no more than 80% at 25 °C |
| Unit dimensions | 43 x 36 x 17 mm |

* Radio communication range is the maximum distance between the hub and the unit in line of sight and without interference.

SUPPLY SET

| | |
|--------------------------|---|
| Livi Roller Shutter unit | 1 |
| Packaging | 1 |

LED INDICATION OF THE INTERNAL INDICATOR

| | |
|------------------------------------|--|
| Binding mode | The indicator blinks blue for 1 minute |
| Confirmation of successful binding | The indicator blinks green 5 times |

WARRANTY

The manufacturer LLC "NPP Stels" guarantees that the unit meets AGNS.421453.001 TU technical requirements, provided that the consumer complies with the conditions of transportation, storage, installation and operation.

The warranty period is 5 years from the manufacturing date.

The warranty does not cover the following cases:

1. Non-compliance with the intended operating conditions;
2. Mechanical damage to the unit;
3. Repairs to the unit by a third party (a person or a company other than the Manufacturer).