HOMESYSTEM

QUICK USER GUIDE

# Shelly Wave Shutter LR

Z-Wave shutter controller, Z-Wave Long Range

Manufacturer: **Shelly** · Model: **QLSH-001P10EU**

PRODUCT IN THE HOMESYSTEM E-SHOP

**obchod.homesystem.sk/en/shelly-wave-shutter-lr-z-wave-shutter-controller/**

This guide belongs to a product bought at obchod.homesystem.sk. Scan the QR code for current information, accessories and advice.

In-wall module for controlling roller shutters, blinds, awnings and other bi-directional AC motors. It controls position and slat tilt and measures motor power and energy.

## BASIC INFORMATION

| | |
|---|---|
| Ordering code | QLSH-001P10EU |
| Power supply | 110–240 V AC ±10 % |
| Max. switching current | 10 A per channel, 240 V AC |
| Measurement | W, kWh |
| Load | 110–240 V AC motors (inductive load with RC snubber) |
| Power consumption | < 0.3 W |
| Radio | Z-Wave 800 (S800), max. RF power < 25 mW |
| Long Range (star) | 864 MHz, up to 80 m indoors / 1,000 m outdoors, no repeater function |
| Mesh | 868.4 MHz, up to 40 m indoors, works as a repeater |
| Security | Unsecure, S0, S2 Unauthenticated, S2 Authenticated; SmartStart |
| Protections (always active) | overheating > 80 °C, overcurrent > 10 A + 10 %, overvoltage > 278 V AC (each > 5 s) |
| Size (H × W × D) | 37 × 42 × 16 mm |
| Weight | 29 g |
| Mounting | in-wall box |
| Conductors | 0.5–1.5 mm², strip 5–6 mm, torque 0.4 Nm |

| | |
|---|---|
| Operating temperature | −20 °C to 40 °C |
| Humidity | 30 – 70 % RH |
| Max. altitude | 2,000 m |

## SAFETY INSTRUCTIONS

**CAUTION**

- Use only motors with electronic or mechanical limit switches and set them before connecting the module.
- Do not use two separate on/off switches for up/down – use shutter push-buttons or a centre-off double-throw switch.
- Outputs O1 and O2 are never on at the same time; run time is limited to twice the travel time. Recommended RC snubber: 0.1 µF / 100 Ω / ½ W / 600 V AC.
- Installation must be carried out by a qualified electrician. Before work, switch off the circuit breaker and check with a tester that there is no voltage on the terminals.
- Do not exceed the maximum load. Do not install the device where it can get wet, do not use it if damaged, do not modify it or its antenna and do not repair it yourself.
- Z-Wave communication may not always be 100% reliable – do not use the device where life or valuable property depends solely on its operation.

## TERMINALS AND WIRING

| | |
|---|---|
| N | neutral |
| L | live 110–240 V AC (two L terminals) |
| SW1 / SW2 | input for the up (open) / down (close) button |
| O1 / O2 | motor output up / down |

## ADDING TO THE NETWORK – SMARTSTART (LONG RANGE AND MESH)

1. In a SmartStart-capable gateway app, scan the Z-Wave QR code from the device label (or add the DSK to the provisioning list).
2. During inclusion choose the network topology: **Long Range** (star) or **mesh**. Long Range requires a gateway that supports Z-Wave Long Range.
3. Power the device within network range – it is added automatically within 10 minutes.

**LONG RANGE**

In Long Range mode the device can only be added via SmartStart; manual inclusion with the S button applies to the mesh network only.

## CALIBRATION

1. Make sure the motor limit switches are set correctly.
2. In settings mode (blue) press the S button briefly until the LED is solid yellow, then hold it for more than 2 s. Alternatively, with the blind at the top, press the button on input SW1 4 times within 3 s, or set parameter 78 to 1.
3. The blind moves down, up and to 50 % (LED blinks yellow). For venetian blinds set the slat turn time with parameter 72; for motors without limit switches enter the times manually (parameters 74, 75 and parameter 71 = 2).

## S BUTTON – MANUAL INCLUSION, EXCLUSION, RESET

1. **Settings mode:** press and hold the S button until the LED is solid blue. Each short press moves to the next menu item; the mode times out after 10 s.
2. **Inclusion (mesh only) / exclusion:** enable add or remove mode on the gateway, then in settings mode (blue) press and hold the S button for more than 2 s until the LED blinks blue rapidly, and release.
3. **Factory reset:** in settings mode, press briefly until the LED is solid red, press and hold the S button for more than 2 s until the LED blinks red rapidly, and release. The reset clears parameters, kWh, associations, Home ID and Node ID – use it only when the gateway is missing.
4. **Reset with a switch:** only within the first minute after power-up, toggle the switch or press the push-button on an SW input 5 times within 3 s.

## LED SIGNALLING

| | |
|---|---|
| **Blue solid** | settings mode |
| **Blue slow blinking** | device not included in a network |
| **Green slow blinking** | device included in a network |
| **Blue blinking (0.5 s)** | inclusion / exclusion in progress |
| **Blue and red alternating** | firmware update (OTA) or power-supply check after power-up |
| **Red blinking 1–6×** | alarm – overcurrent, overheating or overvoltage |
| **Blue and yellow blinking** | not included and not calibrated |
| **Green and yellow blinking** | included, not calibrated |
| **Yellow blinking (0.5 s)** | calibration in progress |

**Disposal:** A product marked with the crossed-out wheelie bin symbol must not be put in household waste. Hand it in at an electronic-waste collection point or to the seller when buying a new device. Hand in batteries separately at a battery collection point.
**Important:** this short guide in English was prepared by HomeSystem s.r.o. for customers of the obchod.homesystem.sk e-shop based on the manufacturer's documentation. In case of differences, the manufacturer's original manual prevails.
Product: obchod.homesystem.sk/en/shelly-wave-shutter-lr-z-wave-shutter-controller/ · Status: 11/2026
**Need help?** obchod.homesystem.sk · +421 948 213 492