



Shelly

Shelly Wave Dimmer

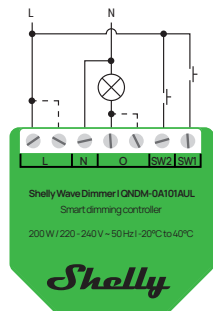


Fig.1

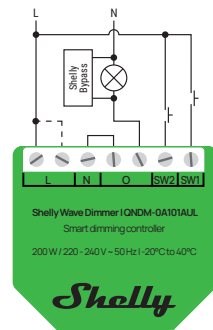


Fig.2

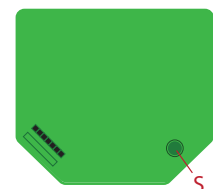


Fig.3

English

Wiring diagram

Fig. 1 - With Neutral

Fig. 2 - Without Neutral, with Bypass

Legend

Device terminals

- **L (x2):** 2 live terminals (220-240 V ~ 50 Hz)
- **N:** Neutral terminal
- **O (x2):** 2 output terminals to the load
- **SW1, SW2:** Switch/button input terminals for light control

Wires

- **N:** Neutral wire
- **L:** Live wire (220-240 V ~ 50Hz)

Button

- **S:** S button (Fig. 3)

EN

USER AND SAFETY GUIDE

Z-Wave® smart dimming controller

READ BEFORE USE

This document contains important technical and safety information about the Device, its safe use and installation.

⚠CAUTION! Before beginning the installation, please read carefully and entirely this guide and any other documents accompanying the Device. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of law or refusal of legal and/or commercial guarantee (if any). Shelly Europe Ltd. is not responsible for any loss or damage in case of incorrect installation or improper operation of this Device due to failure of following the user and safety instructions in this guide.

ABOUT THE DEVICE

Shelly Wave Dimmer (the Device) is a smart dimming controller which allows remote control of dimmable lights and dimming drivers through a mobile phone, tablet, PC, or home automation system. The Device can be used as trailing edge dimmer switch, with or without neutral wire.

⚠WARNING! Risk of electric shock. Installation of the Device to the power grid must be performed carefully by a qualified electrician.

⚠WARNING! Before installing the Device, turn the circuit breakers off. Use a suitable test device to make sure there is no voltage on the wires you want to connect. When you are sure that there is no voltage, proceed to the installation.

⚠WARNING! Before making any changes to the connections, ensure there is no voltage present at the Device terminals.

⚠CAUTION! Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.

⚠CAUTION! Connect the Device only to a power grid and appliances that comply with all applicable regulations. A short circuit in the power grid or any appliance connected to the Device can cause fire, property damage, and electric shock.

⚠CAUTION! The Device must be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 10A rated current, min. 6 kA interrupting rating, energy limiting class 3).

⚠CAUTION! Do not use the Device if it shows any sign of damage or defect.

⚠CAUTION! The Device may be connected to and control only electric circuits and appliances that comply with the applicable standards and safety norms.

⚠CAUTION! The Device is intended only for indoor use.

⚠CAUTION! Keep the Device away from dirt and moisture.

⚠CAUTION! Do not alter the antenna (the antenna must not be shortened, lengthened, or modified in any way!)

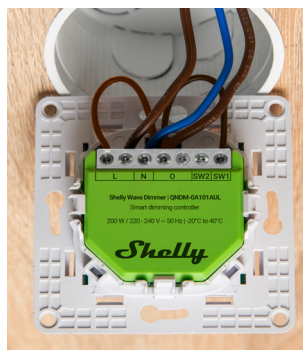
RECOMMENDATION: Place the antenna as far away as possible from metal elements as they can cause signal interference.

RECOMMENDATION! When connecting wires to the Device terminals, consider the specified conductor cross section and stripped length. Do not connect multiple wires into a single terminal. Do not insert multiple wires into one terminal.

⚠CAUTION! Do not attempt to service or repair the Device yourself!

⚠CAUTION! Do not interfere with the Device (any alteration or modification of the Device is prohibited).

⚠CAUTION! Do not allow children to play with the push-buttons/ switches connected to the Device. Keep the devices for remote control of Shelly Wave (mobile phones, tablets, PCs) away from children.



TECHNICAL SPECIFICATIONS:

Power supply: 220-240 V ~, 50 Hz

Power consumption: < 0.3 W

Neutral not needed: Yes

Min. load without neutral and without a Bypass: 5W

Dimming type: Trailing edge

External protection: 10 A, tripping characteristic B or C, 6 kA interrupting rating, energy limiting class 3

Power measurement [W]: Yes

Max. output power: 200 W

Internal-temperature sensor: Yes

Overheating protection: Yes

Overcurrent protection: Yes

Overvoltage protection: Yes

Wireless protocol: Z-Wave

CPU: S800

Z-Wave frequency band: 919.8 MHz

Maximum radio frequency power transmitted in

frequency band(s): < 25 mW

Range: up to 40 m indoors (131 ft.) (depends on

local condition)

Size (H x W x D): 38.5x43.5x17mm /

1.52x1.71x0.67in

Weight: 25 g / 0.88 oz

Screw terminals max torque: 0.4 Nm / 3.5 lbin

Conductor cross section: 0.2 to 2.5 mm² / 24 to 14

AWG (solid, stranded, and bootlace ferrules)

Conductor stripped length: 5 to 6 mm / 0.20 to

0.24 in

Mounting: In-wall

Shell material: Plastic

Color: Lime

Ambient working temperature: -20°C to 40°C /

-5°F to 105°F

Humidity: 30% to 70% RH

Max. altitude: 2000 m / 6562 ft.

IMPORTANT DISCLAIMER

Z-Wave® wireless communication may not always be 100% reliable. This Device should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the Device is not recognized by your gateway or appears incorrectly, you may need to change the Device type manually and ensure that your gateway supports Z-Wave Plus® multi-channel devices.

ORDERING CODE: QNDM-0A101AUL

MANUFACTURER:

Shelly Europe Ltd.

Address: Shelly Europe Ltd, 51 Cherni Vrah Blvd.,

building 3, floor 2 and 3, Lozenetz Region, Sofia

1407, Republic of Bulgaria

Tel.: +359 2 988 7435

E-mail: zwave-shelly@shelly.cloud

Support: <https://support.shelly.cloud/>

Web: <https://www.shelly.com>

Changes in the contact data are published by the

Manufacturer at the official website:

<https://www.shelly.com>

EN For more detailed installation instructions go to:

<https://shelly.link/ShellyWaveDimmerANZ-KB>

