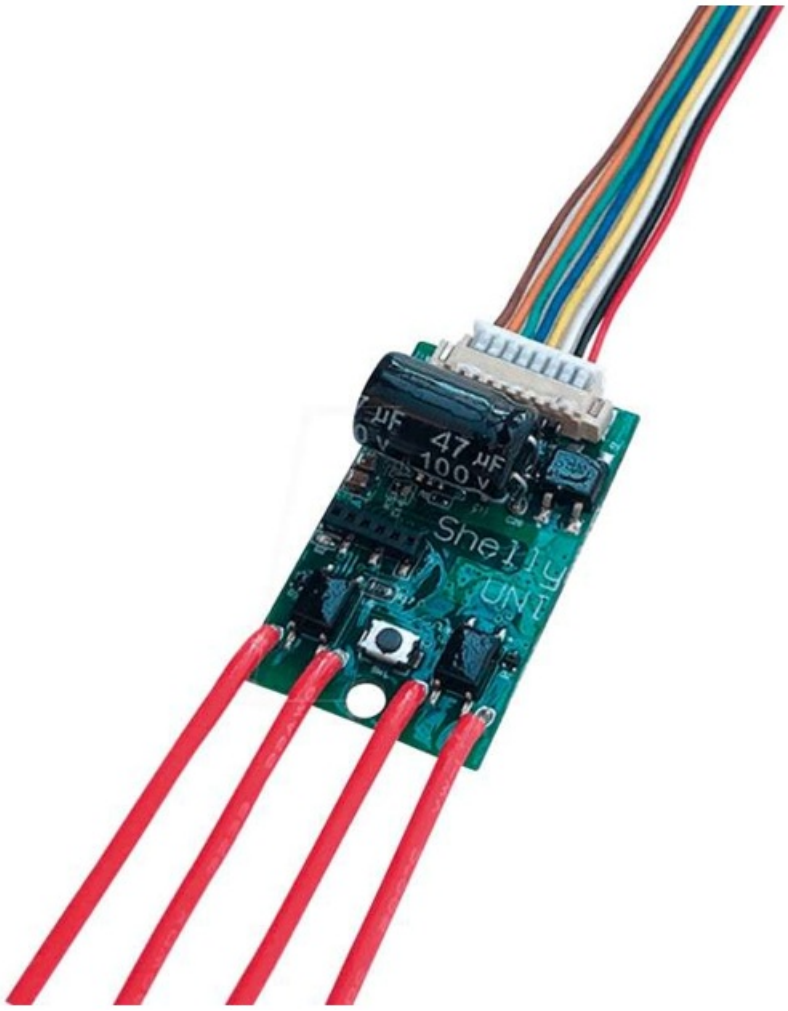
Shelly UNI Universal WiFi Sensor Input User Guide

UNI Universal WiFi Sensor Input
User Guide



UNIVERSAL WI-FI SENSOR INPUT
USER AND SAFETY GUIDE

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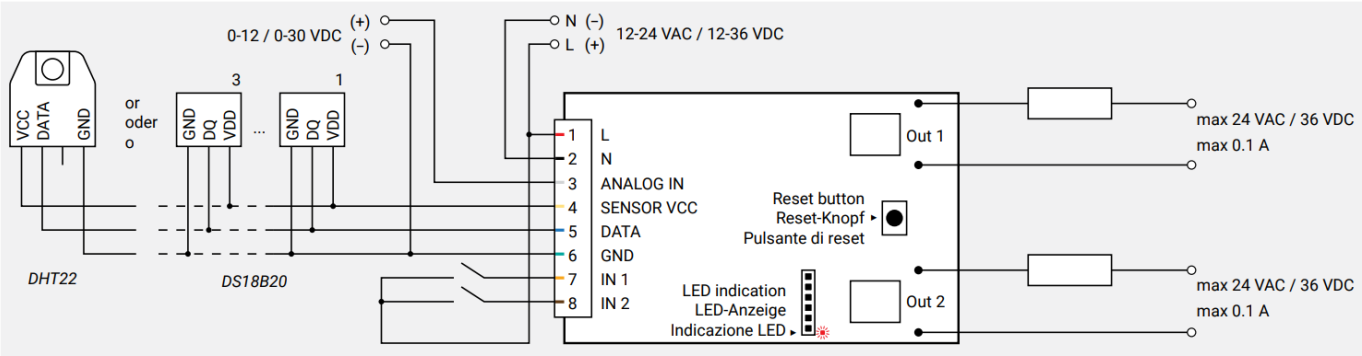

Legend
L: Power supply live (AC) / positive (DC) input
N: Power supply neutral (AC) / negative (DC) input
ANALOG IN: Analog input
SENSOR VCC: Sensor power supply output
DATA: 1-Wire data line
GND: Ground
IN 1: Binary input 1
IN 2: Binary input 2
OUT 1: Potential-free MOSFET relay output 1
OUT 2: Potential-free MOSFET relay output 2

Read before use

This document contains important technical and safety information about the device, its safety use and installation.
⚠**ATTENTION!** Before beginning the installation, please read this guide and any other documents accompanying the device carefully and completely. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of the law or refusal of legal and/or commercial guarantee (if any). Alterio Robotics EOOD 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.

Product Introduction

Shelly® is a line of innovative microprocessor-managed devices, which allow remote control of electric circuits through a mobile phone, tablet, PC, or home automation system. Shelly® devices can work standalone in a local Wi-Fi network or they can also be operated through cloud home automation services. Shelly Cloud is a service

that can be accessed using either Android or iOS mobile application, or with any internet browser at **https://home.shelly.cloud/**.

Shelly® devices can be accessed, controlled and monitored remotely from any place where the User has internet connectivity, as long as the devices are connected to a WiFi router and the Internet. Shelly® devices have embedded Web Interface accessible at **http://192.168.33.1** when connected directly to the device access point, or at the device IP address on the local Wi-Fi network. The embedded Web Interface can be used to monitor and control the device, as well as adjust its settings.
Shelly® devices can communicate directly with other Wi-Fi devices through HTTP protocol. An API is provided by Alterio Robotics EOOD. For more information, please visit: **https://shelly-api-docs.shelly.cloud/#shelly-family-overview**.
Shelly® devices are delivered with factory-installed firmware. If firmware updates are necessary to keep the devices in conformity, including security updates, Alterio Robotics EOOD will provide the updates free of charge through the device embedded Web Interface or Shelly Mobile Application, where the information about the current firmware version is available. The choice to install or not the device firmware updates is user's sole responsibility. Alterio Robotics EOOD shall not be liable for any lack of conformity of the device caused by failure of the user to install the provided updates in a timely manner.

Control your home with your voice
Shelly® devices are compatible with Amazon Alexa and Google Home supported functionalities. Please see our step-by-step guide on: **https://shelly.cloud/support/compatibility**/.
Shelly® Uni (the Device) is a universal Wi-Fi sensor input and 2-channel solid-state switch.

Wiring
Connect the Device according to the wiring schematic at the top of the page. You can connect up to 3 DS18B20 temperature sensors or a single DHT22 temperature and humidity sensor. Check our knowledge base for more information and specific use cases at: **www.shelly.cloud/knowledge-base/devices/shelly-uni/**

⚠ **WARNING!** Danger of electrocution! Do not connect the Device to sources of voltage higher than the specified.
⚠ **CAUTION!** Use the Device only with power supply and appliances which comply with all applicable regulations. A short circuit in any appliance connected to the Device may damage the Device.
⚠ **CAUTION!** Do not connect the Device to appliances exceeding the given max load!
⚠ **CAUTION!** Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.
⚠ **CAUTION!** When mounting the Device, make sure its PCB is not in contact with any conductive materials.
⚠ **CAUTION!** Do not mount the Device at a place that is possible to get wet.

Initial Inclusion

If you choose to use the Device with the Shelly Cloud mobile application and Shelly Cloud service, instructions how to connect the Device to the Cloud and control it through the Shelly App can be found in the "App Guide".
https://shelly.link/app
Shelly Mobile Application and Shelly Cloud service are not conditions for the Device proper functioning. This Device can be used with various other home automation services and applications.
⚠ **CAUTION!** Do not allow children to play with the buttons/switches connected to the Device. Keep the Devices for remote control of Shelly (mobile phones, tablets, PCs) away from children.

Specifications

- PCB dimensions (LxWxH): 33x20x13 mm
- Power supply: 12 – 36 VDC or 12 – 24 VAC, 50/60 Hz
- Electrical consumption: < 1 W
- Working temperature: -20 °C – 40 °C
- Analog input: 0 – 12 VDC (range 1), 0 – 30 VDC (range 2)

- Binary inputs: 2 (1 – 36 VDC or 12 – 24 VAC)
- 1-Wire interface: supports a single DHT22 temperature and humidity sensor or up to 3 DS18B20 temperature sensors
- Outputs: 2 potential-free MOSFET relays
- Max. switching voltage: 36 VDC / 24 VAC
- Max. current per output: 100 mA
- Radio protocol: Wi-Fi 802.11 b/g/n
- RF band: 2401 – 2495 MHz
- Max. RF power: <20 dBm
- Operational range (depends on local conditions): up to 50 m outdoors, up to 30 m indoors
- MQTT: Yes
- CAP: Yes
- Webbooks (URL actions): up to 22 with 5 URLs per hook
- Schedules: 20

Declaration of conformity
Hereby, Alterio Robotics EOOD declares that the radio equipment type Shelly® Uni is in compliance with Directive 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address: **https://shelly.link/Uni_DoC**

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Changes in the contact data are published by the Manufacturer at the official website.
https://www.shelly.cloud

Documents / Resources

	Shelly UNI Universal WiFi Sensor Input [pdf] User Guide UNI Universal WiFi Sensor Input, Universal WiFi Sensor Input, WiFi Sensor Input

References

- Shelly Home
- Welcome to Shelly Technical Documentation | Shelly Technical Documentation
- Shelly - Shelly
- Overview - Support & knowledge - Shelly
- Shelly Smart Control
- Application guide
- Shelly Uni
- Shelly - Shelly