

RADIO EQUIPMENT DIRECTIVE 2014/53/EU EU-TYPE EXAMINATION CERTIFICATE

Hereby, Allterco Robotics EOOD, 103 Cherni Vrah Blvd., Sofia 1407, Bulgaria declares that the essential requirements set out in the (RED) 2014/53/EU have been fully fulfilled on our product with indication below:

Radio Equipment: **Shelly1 Wi-Fi Relay switch**

Equipment Manufacturer: Allterco Robotics EOOD, 103 Cherni vrah Blvd., 1407, Sofia, Bulgaria

The following standards have been applied for the investigation of compliance:

- EN 61010-1:2010
- EN 60950-1: 2006 +A11: 2009 +A1: 2010+A12: 2011+A2: 2013
- EN 50491-1:2014
- EN 50491-3:2009
- EN 55022:2010
- EN 61000-3-2/3
- EN 61000-4-3
- EN 301 489-1 V1.9.2

For WiFi Module ESP8266EX of Espresiff Systems (Shanghai) PTE LTD:

Opinion TCF-1933CC14/29.10.2014 of TIMCO Engineering Inc., NB 1177

Date:

30.07.2018
Sofia

Signed by:




Svetozar Iliev, CEO
Allterco Robotics EOOD

ANNEX TO

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Description of the Equipment:

Shelly Wi-Fi relay switch is a remotely controlled device for switching on/turning off power lines, main sockets, lights, appliances and any other main powered devices up to 3500VA (220 VAC).



Shelly1 Wi-Fi relay switch main features are:

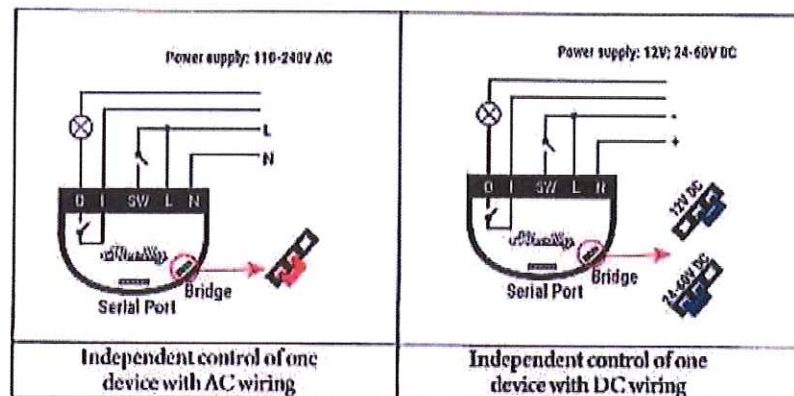
- Remotely control any electrical device connected to it.
- Remote control from anywhere or upon conditions and/or events – time, sensors or actions.
- Can be manually managed by a physical switch/push button.
- Saving energy by controlling heating and cooling, based on room temperature and the state of the premises.
- REST API is available upon request.
- Sending notifications when a device has finished an operation or If an appliances were accidentally left on.
- Built in delay On/Off functionality.
- React automatically in an emergency event.
- Work standalone without the need of a Hub.

Main technical data:

WiFi Parameters	WiFi Module	ESP8266EX
	WiFi Protocols	802.11 b/g/n
	Frequency range	2400-2483.5 MHz
	TX Power	802.11 b: + 20 dBm 802.11 g: + 17 dBm 802.11 n: + 14 dBm

	RX Sensitivity	802.11 b: - 91 dBm (11 Mbit/s) 802.11 g: - 75 dBm (54 Mbit/s) 802.11 n: - 72 dBm (MCS7)
Type of Antenna		PCB trace
Operating Voltage		110 - 240 VAC; 12-60 VDC
Operating Temperature		-40 to +40 °C
Power Relay Data (FUJITSU JV-KS)	Numbers of Relays	1
	Number of Contacts per Relay	1
	Contact Form	A (SPST-NO)
	Contact Rating	16A/250VAC / 12 VDC (resistive load)
	Max. Switching Voltage	250VAC / 150VDC
	Max. Switching Current	16A
	Max. Switching Power	3500VA / 240W
Protocols		HTTP, UDP
Dimensions		41 x 36 x 17 mm

Typical application diagrams



Notes:

- This EC-Type Examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/53/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- The manufacturer shall keep a copy of the EU-type examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for 10 years after the equipment has been placed on the market.
- The manufacturer shall take all measures so that the manufacturing process and its monitoring ensure conformity of the manufactured equipment with the examined type described in this EU-type examination certificate and with the requirements of the above Directive that apply to them.
- The manufacturer shall affix the CE marking to each individual equipment that is in conformity with the type described in this EU-type examination certificate and satisfies the requirements of this Directive.
- The manufacturer shall draw up a written EU declaration of conformity for each apparatus model and keep it at the disposal of the national authorities for 10 years after the apparatus has been placed on the market.