



RiDom

Socket «Ri-SCT-1»



Installation guide

1 GENERAL INFORMATION

1.1 The «Ri-SCT-1» socket (hereinafter referred to as the Socket) connects external devices to the 230 V AC network and transmit notifications via a two-way radio channel in accordance with the «Ri-Contact-R» protocol.

1.2 The socket works as part of the RiDom smart home security system, communicating with the «Ri-HUB-1» control center (hereinafter referred to as the Hub), which supports the «Ri-Contact-R» radio exchange protocol.

1.3 The power to the Socket is supplied from the AC mains with a rated voltage of 230 V and a frequency of 50 Hz.

1.4 During operation, the Socket provides indication of the following statuses:

- «Linking»;
- «Identification»;
- «Communication quality assessment»;
- «Power is supplied to the external device»;
- «Power is not supplied to the external device».

1.5 The radio exchange is initiated by the socket with a period: 10 s, 15 s, 30 s, 1 min, 2 min, 5 or 10 min, the time frame is set in the Hub.

1.6 The Socket is resistant to electromagnetic interference.

1.7 Operating modes of the socket are displayed by a two-color LED indicator (see table 3).

2 SPECIFICATIONS

Table 1

Parameter	Value
Frequency range	868,7...869,2 MHz
Supply voltage	184...253 B, 50 Hz
Maximum power consumption	1,5 W
Maximum switching load current (with resistive load, $\cos \varphi=1$)	7 A
Protection class	IP30
Dimensions	103x62x84 mm
Weight	0,2 kg
Average service life	8 years
Operational conditions	
Operating temperature range	-30... +55 °C
Permissible air humidity at a temperature of +40 °C, without moisture condensation	93 %

3 SCOPE OF SUPPLY

Table 2

Name	Qty.
Socket «Ri-SCT-1»	1 pc.
Installation guide for the «Ri-SCT-1»	1 copy

4 SAFETY MEASURES

4.1 The manufacturer is not responsible for damage caused by non-compliance with safety regulations and the rules for application of the Socket.

4.2 The Socket is designed for domestic use and can be used in apartments, country houses, hotel rooms, utility rooms of shops, offices or other similar non-industrial environments. Industrial or any other non-intended use of the Socket will be considered as a violation of the conditions for the proper application of the product. In this case, the manufacturer is not liable for the possible consequences.

4.3 Before connecting the Socket to the power mains, check whether the voltage matches the rated supply voltage of the socket (see technical specifications).

4.4 Unplug the power Socket during lightning storms, when it is not in use for a long time or when cleaning.

4.5 Do not use the Socket outdoors: moisture or foreign objects entering the socket body can cause serious damage.

4.6 Do not leave unattended appliances with heating elements connected to the mains through a socket.

IT IS FORBIDDEN to immerse the Socket in water!

4.7 The Socket is not intended for use by persons (including children) with a physical, nervous or mental impairment or lack of experience and knowledge, unless such persons are supervised or instructed in how to use this appliance by a person responsible for their safety. It is necessary to supervise children in order to prevent them from playing with the appliance, its accessories, as well as the factory packaging. Cleaning and maintenance of the Socket should not be carried out by children without adult supervision.

It is forbidden to use the Socket in case of any malfunctions.

5 INSTALLATION RECOMMENDATIONS

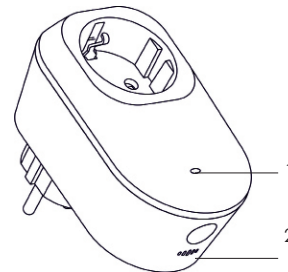
The Socket is not recommended to be placed:

- on massive metal structures and closer than 1 m from them;
- near sources of radio interference;
- inside metal structures.

6 VIEW AND DESIGN

The Socket contains:

- LED indicator (1);
- button (2) for connecting disconnecting the power, checking the quality of communication, if the device was linked. (indicated by the button after changing the status of the relay), switching to the «Linking» mode.



Picture 1

7 INDICATION

Table 3

Mode of operation	Indication
«Linking» Mode	Intermittent green indicator light
«Linking is complete»	Turning on the red indicator for 1 second
«Identification» indication	Alternating green and red indicators
«Assessment of communication quality»	See table 4
«Power on external device»	Continuous red indicator light
«Power is not supplied to the external device»	Continuous green indicator light

8 CONNECTION OF THE SOCKET TO THE SYSTEM

8.1 Open the RiDom application. In the My Devices tab, click **+** and then press **Add device** button. Select the «Ri-SCT-1» from the list of devices and follow the prompts of the application.

8.2 Plug the device into a wall outlet.

8.3 Make sure that the green indicator on the case is turned on.

8.4 To switch the Socket to the «Linking» mode, press and hold the button on the Socket case for 10 seconds until an intermittent green indication appears, then release the button.

8.5 Время режима «Подключение» ограничено 100 секундами.

The device operates only from external power in networks with a voltage of 184-253 V 50 Hz. Do not plug in the appliances in the Socket with power consumption greater than 1.5 kW.

9 COMMUNICATION QUALITY ASSESSMENT

9.1 Bring the Socket to the intended place of installation.

9.2 Press and hold the button for 3 seconds.

9.3 Within 5 seconds, the socket will indicate the quality of communication with the Hub by turning on the LED indicator (see Table 4).

Table 4 - Indication of the communication quality control results

Indication		Communication quality assessment	Recommendations
Color	Mode		
Green	Three blinks	Perfect	Installation in a standard location
Green	Two blinks	Good	
Green	One blink	Weak	
Red	Multiple blinks	No connection	Choose a different installation location or use a repeater

10 SOCKET OPERATION FEATURES

10.1 The Socket supports the following load connection modes:

by radio channel:

- turned on;
- turned off;
- turned on with a frequency of 4 Hz;
- turned on with a frequency of 2 Hz;
- turned on with a frequency of 1 Hz;
- turned on with a frequency of 0.5 Hz.

All modes can be turned on permanently or for a period of time from 1 to 2500 seconds.

by pressing the button for 3 to 10 seconds:

- turned on;
- turned off.

10.2 The maximum switching current is calculated for a resistive load. Reducing $\cos \varphi^*$ reduces the maximum switching current.

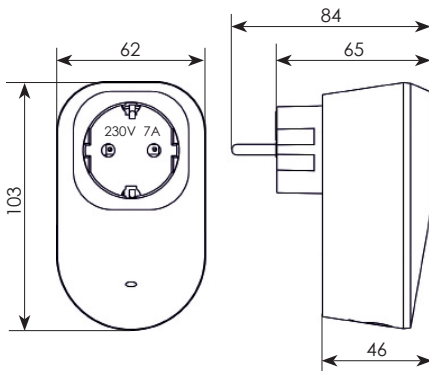
* The ratio of active power to apparent

Table 5

Type of load	Power
AC-1 active load	1750 VA
AC-3 electric motor	400 W
AC-15 contact coils	315 VA

11 DIMENSIONS

(mm)



Picture 2

12 STORAGE AND TRANSPORTATION

12.1 The Socket in their original packaging are resistant to:

- transport jolting with the acceleration up to 30 m/sec² at impact frequency range from 10 to 120 per minute or 15 000 strikes;
- ambient temperature range minus 50 ... +55 °C;
- relative air humidity (95 ± 3) % at a temperature +35 °C.

12.2 The Socket in original package may be transported by any means of transportation in closed vehicles over any distances in compliance with the existing shipping rules concerning the respective means of transportation.

12.3 After transportation under the conditions different to exploitation conditions the Socket shall be ready to operate after a maximum of six hours.

12.4 During storage period lithium batteries should be removed from the holders or isolators should be installed.

Note: The storage premises should not contain any current-conducting dust, acid and alkali fumes, or corrosive or destroying insulation gases.

13 DISPOSAL INFORMATION

13.1 The Socket does not contain precious metals, hazardous or toxic substances that can harm human health or the environment, and does not pose a danger to life, human health and the environment at the end of its service life.

13.2 In this regard, the disposal of the Socket can be carried out according to the rules for the disposal of general industrial waste.

14 MANUFACTURER WARRANTY

14.1 LLC NPP RIELTA guarantees that the Socket meets the requirements of technical specifications within 27 months from the date of manufacture, subject to the conditions of transportation, storage, installation and operation.

14.2 Warranty period of operation of the Socket is 24 months from the date of commissioning within the warranty period of storage.

14.3 If during the warranty period the Socket, which is subject to the rules of transportation, installation and operation, is found to be inconsistent with the requirements of the technical specifications, it is to be replaced or repaired by the manufacturer.

15 DATE OF MANUFACTURE

_____,
month, year



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