M-IN-RKE4-p: Receiver module for wireless remote controls

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Technical data

Supply voltage
11 — 16V DC

Current consumption
25mA

Receiver for wireless remote controls
yes

Technical data cont.

Number of supported remotes
64

Number of channels
4

Wireless range outdoors
50m

Dimensions

Width
41mm

Height
44mm

Depth
16.5mm

Environment

Temperature
-40 — 50°C

Humidity
≤95%RH, non-condensing

The image above is for illustration purpose only. The actual module may vary from the one presented here.

General features

Module M-IN-RKE4-p is a component of the Ampio system. Required voltage to power the module is 11 — 16V DC. The module is controlled via CAN bus.

The module enables the reception of signals generated by Ampio wireless remote controls.

Wireless remote controls receiver

With the use of the module, it is possible to receive signals generated by Ampio wireless remote controls. It is possible to programme up to 64 remotes that support rolling codes.

Information about key presses of remote controls is broadcast by the device within the building automation bus.

Typical application

- Control of entrance gates and garage doors;

- switching on the lighting;
- access control.

Installation

The dimensions of the module enable its installation in a standard junction box. In order to start the module, it must be connected to the CAN bus. The bus of the Ampio system consists of four wires - two for power and two for communication between the modules.

A cable, which constitutes an antenna, is led out of the casing of the device.

Device status LEDs

On the front of the module there are signalling LED indicators. The redl LED with the label *CAN* indicates the status of communication on the CAN bus:

- one regular flash every 1 sec. – CAN bus communication is working properly,
- two regular flashes every 1 sec. – the module is not receiving information from other modules,
- three regular flashes every 1 sec. – the module cannot send information to the CAN bus;

Apart from the LED indicating the communication bus status, there is also a yellow LED on the front of the device. It signals the reception of signals from the programmed remotes and it serves as a pairing mode indicator.

Programming

The module is programmed with a special programmer, available for authorised technicians, and the Ampio Smart Home CAN configurator software. It allows you to modify the parameters of the module and define its behaviour in response to signals directly available to the module as well as general information coming from all devices present in the home automation bus.

On the front of the device, there is a hole with a button that is used to pairing remote controls with the device. To put the device into a pairing mode, press and hold the button until the yellow LED lights up. When the device is in a pairing mode, simultaneously press and hold the first and second buttons on the remote control that you are pairing. The correct process of pairing is signalled by the yellow indicator diode flashing. After pairing, the device remains in a pairing mode and it is possible to add more remote controls to it. To exit the pairing mode, press the pairing button.
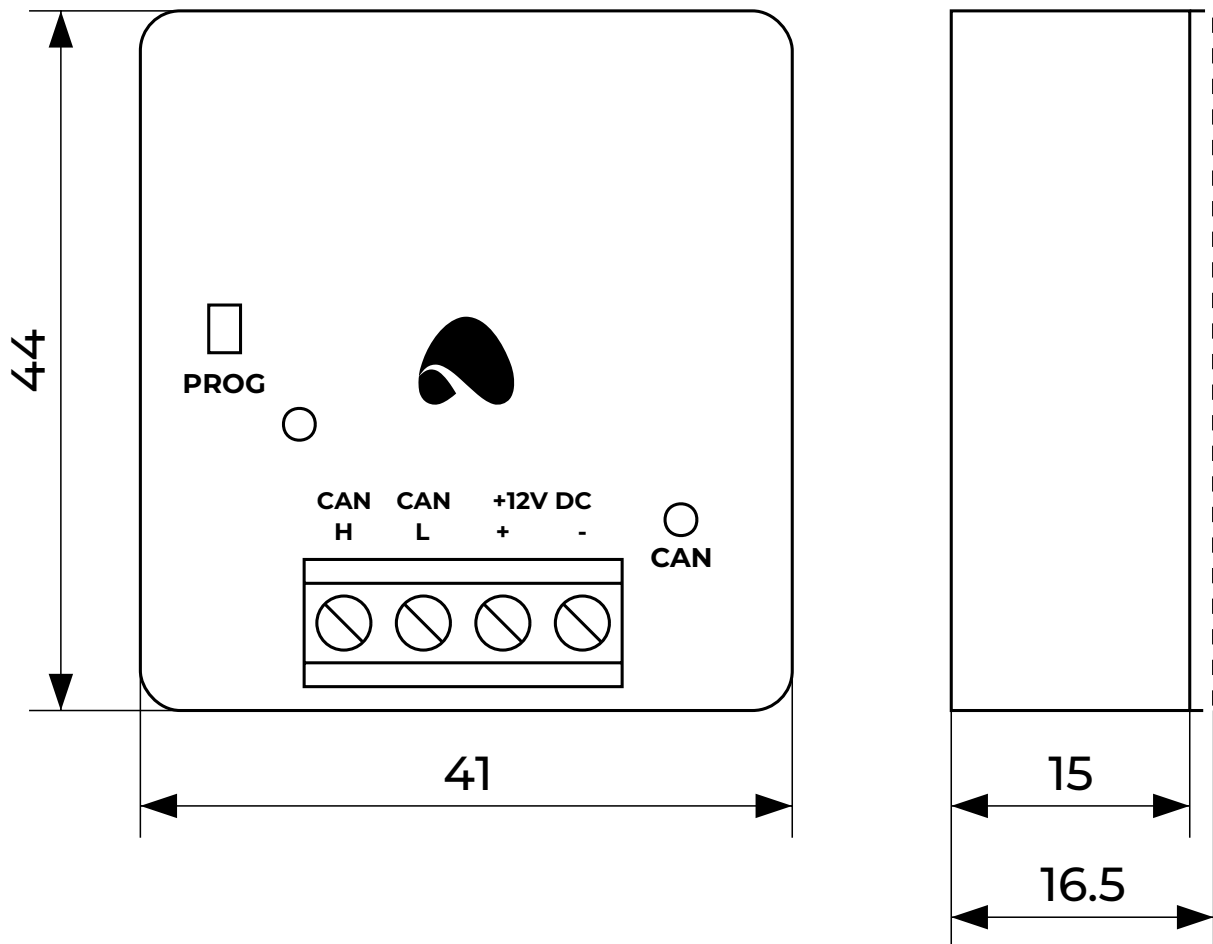
To remove information about all previously paired remotes from the device, hold down the pairing button until the yellow signaling diode lights up and then goes off.

Remote controls can also be paired with the use of the Smart Home CAN configurator software.

Module dimensions

Dimensions expressed in millimeters.

The dashed lines mark the areas where the device connectors or its other elements can be located.

Connection diagram