# Videosec®

Product Description

This 6 circuits controller can pair with KS2, KM1 and K1 series wireless kinetic energy switch to achieve wireless control, dual control andmulti-control. This controller has six circuits dry contact control function for easy centralized wiring and installation.

External antenna
RS485 interface
Function button
Power input
Dry contact output
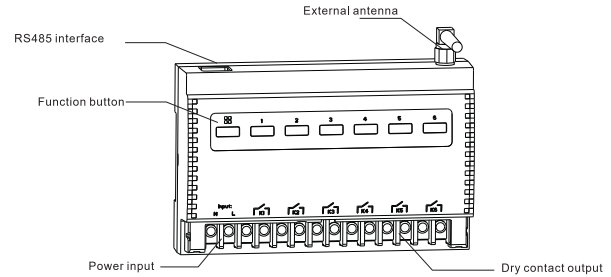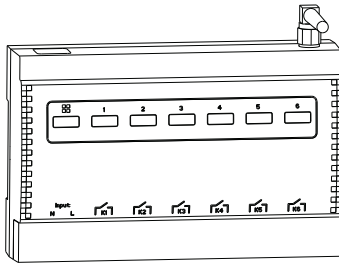
KRC-101/102/103 six circuits controller

Instructions

● Product parameters

Product series: KRC10x series
Number of circuits: 6 circuits
Operating temperature: -25℃~55℃
Receive sensitivity: -110dBm
Communication protocol： ModBus & RS-485
　　　　　　　　　　　　　WiFi 2.4G （KRC102)
　　　　　　　　　　　　　Zigbee 2.4GHz (KRC-103)

Input voltage: AC100-240V 50/60Hz
Rated current: 16A* 2 + 10A *4
Distance: 160m (outdoor) 30m (indoor)
Storage capacity: paired with 5 kinetic
　　　　　　　　　　switch keys per circuit

Execution standards： EN61058-1;2002+A2;2008; GB 14536.1-2008

Installation Method

The KRC-10x six circuits receiving controller is dry contact output, which only provides circuit connection function for circuits. The power required by the loads is not output by the controller's power supply. The fourth circuit is used as wiring example, as follows:

The blue indicator light is on, means power supply connect well.

N　L
AC 100-240V　　Load-adaptive power supply
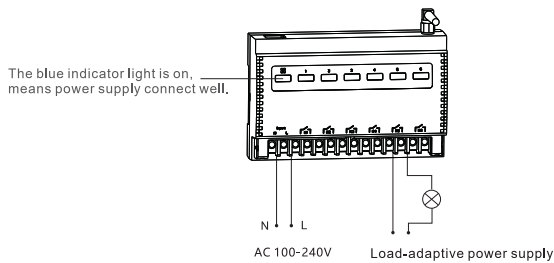
This product can be directly installed on the guide rail in the electric box, but sealed closed metal box will shield the wireless signal, so it cannot be used in an all-metal electrical box.This product can also be placed in the ceiling space.
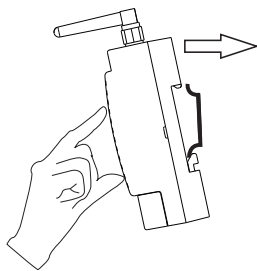
Basic pairing with wireless kinetic energy switch

1.Power supply connect with input of the controller, and press the "paring key" of any circuit for around 3 seconds, release when the indicator light flashes.

1.Press the selected kinetic energy switch once, after the indicator light is off, means the pairing is successfully.

1.If a circuit needs to be paired with multiple kinetic energy switches, repeat the above process, each circuit can be paired with up to 5 kinetic switch keys.

1.After successful pairing, you can press the kinetic switch to control the corresponding circuit. In the case of no load, the status of controller on or off can be judged by the indicator light on/off.
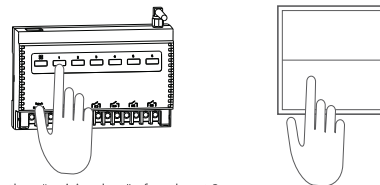
①Press the "pairing key" for about 3 seconds, the indicator light starts to flash

②Press the kinetic energy switch once

Directional pairing (not commonly used)

In order to meet the user's usage habits of traditional switches, and to ensure synchronization of the controller's state in a one-to-multi control mode, we define the directional pairing method. This pairing method only supports rocker switches, two-button or six-button push button switches.

1.Connect the controller's input with power and press and hold the "pairing key" on any circuit of controller for about 3 seconds, release when the indicator light flashes.

2.Press the selected switch at this time. The rocker switch is pressed upside and downside once each (within 0.5 seconds), and for the push button type switch, the left and right buttons are one group. Press any button four times in a row (within 1 second).

3.After successful pairing, for the rocker switch,press the upside to turn on,and downside to turn off. For the push button switch, the left and right buttons are one group.Press the left button to turn off, and the right button to turn on.

Directional Pairing of Rocker switch

①Press and hold for about 3 seconds, the indicator light starts to flash

②Quickly press the up and down keys once each(within 0.5 seconds)

on
off

③ After the pairing is successful, press the downside to turn on and the upside to turn off

Directional Pairing of Push Button Switch (only supports two or six keys)
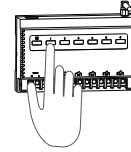
① Press and hold for about 3 seconds, the indicator light starts to flash

②Quickly press any button four times (within 1 second)

off   on

③After the pairing is successful, press the left button to turn off and the right button to turn on.

Clear Pairing

If you need to clear the pairing between the kinetic switch and the corresponding channel of the product, you need to press and hold the pairing button of the corresponding channel for about 10 seconds. You can see the indicator light from flashing to being off. After it is off, The kinetic switch information paired with this channel is cleared. If you need to use the controller again, please follow the instructions to re-pair.

Press and hold the button for corresponding channel button for about 10 seconds. The indicator light flashes, is lit still, and finally goes out.

RS-485 communication (Modbus)

This product uses the Rj45 interface on the top for 485 communication, in which orange white line is used as A+line and the orange line is the B+ line. more specific communication agreement can contact our request.

RS485 interface
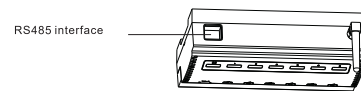
## APP download (this function and the WIFI part below are only available for KRC-102)

The controller can be remotely controlled by using the APP. You can search for "kinetic switch" in the application market.

WIFI Connection Method

1.Use your mobile phone to download the app, and then follow the prompts to register your account in the app.

2.Connect the controller to power and confirm that the red indicator on the function button is flashing rapidly.

(If the function red indicator is not flashing, please press and hold the function button on the controller for about 5 seconds. The indicator light will flash from slowly to be lit still, and release the button when the indicator is lit still. Wait for a few second, and the red indicator will be fast flashing.)

Pairing key
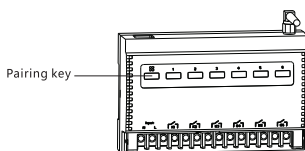
3. Click "Add Device" in the APP and select the model "6 Way Dry Contact Receiving Controller"

4. Enter the WIFI password as prompted in the APP and enter the pairing.

5. After network pairing is successful, the APP can be used to remotely control the controller and smart scene.

6.If you change the WIFI router or the WIFI password, please start from the second step to re-set the controller.

During matching, the three devices should be as close as possible Please make sure that the indicator flashes fast

Red indicator flashing
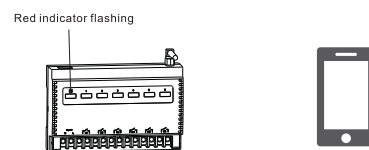
During pairing, the three devices should be as close as possible

ECHO

1.In the Kinetic Switch APP, rename the controller devices, such as bedroom lights

2 .Add the skill SmartLife in Alexa APP, and log in by using the account and password of the Kinetic Switch APP

3 .Discover the device in the smart application selection in the Alexa app

4. Now you can voice control the controller

Alexa, turn on/off bedroom light.
Alexa, brighten bedroom light

Troubleshooting

1.WIFI is not connected

Troubleshooting method: Please confirm the indicator light
flashes (2 times 1 second) before connection settings;
If it is not flashing, please refer to the WIFI connection instructions
to set the indicator to flash.
Do not use the Chinese WIFI name; let routers, controllers, and
mobile phones the three are as close as possible (within 5 meters).

2.The controller is occasionally offline in the app

Troubleshooting method: it may be that the number of connected
devices reaches the upper limit, and for the general route the
maximum number of connected devices is 15. The router can be
upgraded or turn off non-needed equipment.

3.After installation, the relay can be controlled and the corresponding
indicator light is indicated, but the load is not powered successful,
still in a state of no electricity.

Troubleshooting method: This product is a dry contact controller.
After each channel is connected, two of the channels terminal will
 be shorted. Please wire according to the wiring method in the
user manual.