



KRC2104 Dry Contact Controller Product Common Specification

1. Product Description

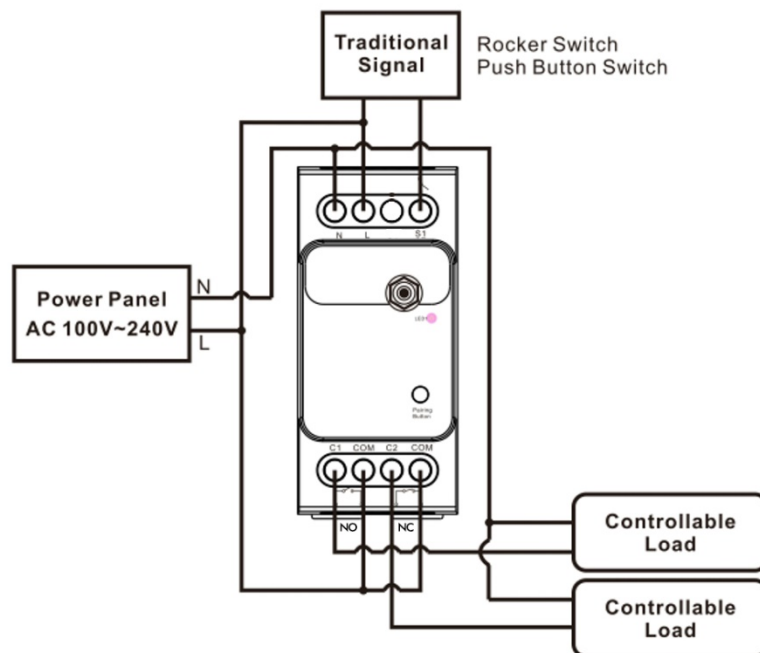
1.1 Product Introduction

KRC2104 Dry Contact Rail Controller supports RF 433MHz, which can be controlled by wireless kinetic switch, the maximum current can reach 16A. It reserves the input terminals for traditional switches, and can be controlled by the original traditional switches. It is mounted in the rail of distribution box.

2. Technical Parameters

Project	Parameters
Power Supply	AC100V -240V 50/60Hz
Output	2x Independent Dry Relay OUT 2x NO, max.2 x 16A
Operational Current	16A
Radio Frequency	RF 433MHz
Operate Range	80m (Outdoors), 25m(Indoors)
Standby Power Consumption	< 1W
Storage Capacity	Up to 10 wireless kinetic switches
Wiring Method	Terminals
Installation Method	DIN Rail
Dimensions	L36*W77*H67mm
RF Receive Sensitivity	-110dBm
Operational Temperature	-20°C ~ +55°C
IP Rating	IP20
Certifications and standards	EN60669-1:2018 EN IEC55015:2019

3. Wiring Diagram



Channel 1: LED1 (green)

Channel 2: LED2 (red)

4. Product Features

4.1 Pairing Method

There are two pairing methods for pairing with the receiver and the wireless kinetic switch:

- Ordinary pairing and Directional pairing.

4.1.1 Ordinary Pairing

4.1.1.2 Physical button Mode

Press the button for 3 seconds, the light will enter a slow flashing state (1 flash in 1 second is a slow flash. LED1 indicates L1 output, LED2 indicates L2 output, click four times the button to switch between two channels), the receiver enters the status of “waiting for pairing”. At this time, press the button of the wireless switch that needs to be paired once, and the light is off, it means that the pairing is completed.

4.1.1.3 Through wired switch

Within 2 minutes after the controller is powered on press quickly the wired switch for 5 times within 2 seconds, and the output load is switched ON/OFF repeatedly. Then the receiver enters the pairing mode. At this time, press the button of the wireless kinetic switch once, and the load stops ON/OFF, it means that the pairing is completed. After controller is powered on more than 2 minutes, the pair mode cannot be triggered by the wired switch.

4.1.2 Directional Pairing

In order to meet the user's habit of using traditional switches, and to ensure the synchronization of the states of multiple wireless receivers in one-control-multiple mode, the directional pairing is defined. This pairing method only supports double-buttons, four-button or six-buttons rebound switches. The pairing methods are as follows:

4.1.2.1 Physical button Mode

Press the pairing button of the receiver for 3 seconds, the light will enter a slow flashing state, the receiver enters the status of “waiting for pairing”. At this time, press the button of the wireless switch that needs to be paired four time within 1 second, and the light is off, it means that the pairing is completed.

4.1.2.2 Through wired switch

Within 2 minutes after the controller is powered on, press quickly the wired switch for 5 times within 2 seconds, and the output load is switched ON/OFF repeatedly. Then the receiver enters the pairing mode. At this time, press the button of the wireless kinetic switch four times within 1 second and the load stops ON/OFF, it means that the pairing is completed.

4.1.3 Special Switch Pairing

4.1.3.1 Pairing with Door sensor (D-254)

The door sensor can be paired into two control modes.

- (1) Open door open mode: after the controller enters the pairing, the door sensor will be pressed down (i.e., close the door after installation), the pairing will be closed by pressing down (close the door), and opened by popping up (open the door), and this mode is mostly used for light control.
- (2) Close door open mode: after the controller enters the pairing, the door sensor will pop up (i.e. open the door after installation), pairing into the press (close the door) to open, pop up (open the door) to close, this mode is mostly used for air conditioning, electric heater and other control.

The controller can be paired with more than one door sensor to use, when paired with more than one door sensor, the first door sensor's paired control mode shall prevail.

For door sensors in open door open mode, the controller will turn on as long as one door sensor is in the pop-up state (open door state), and the receiver will turn off after all door sensors are closed.

For door sensors in close door open mode, the receiver will turn on after all door sensors are closed, and will turn off as long as one door sensor is in the pop-up state.

Note: When the paired controller is turned on inching mode, and turned on by the door sensor, it also performs the inching function and turn off automatically after a preset time.

4.2 Cancel Pairing with Wireless Kinetic Switch

4.2.1 Physical button Mode

Press the pairing button of receiver for 12 seconds, the light will flash-still-off, and then release the button, all information for the wireless kinetic switch that matched will be cleared.

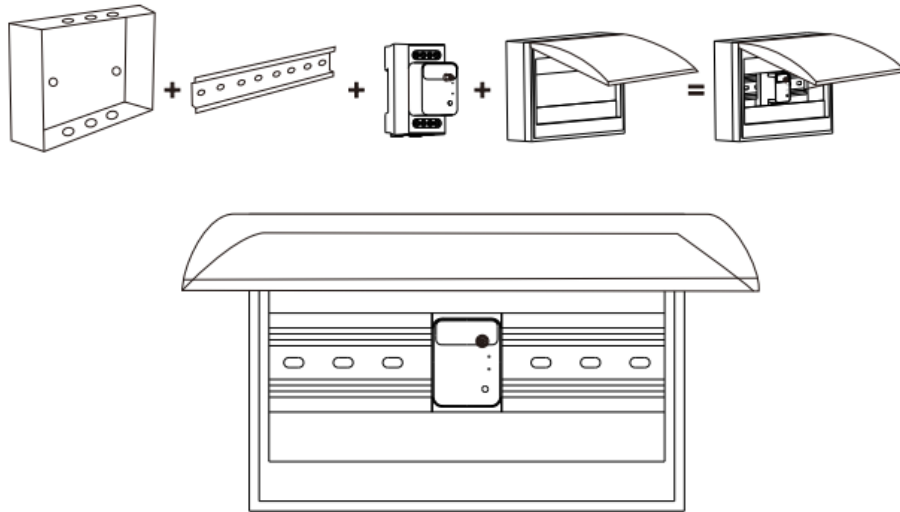
4.3 Bridging Mode

Press the button for 7 seconds, LED light changes from slow flashing to fast flashing (2 flashes per second), and release the button when it flashes quickly, and it enters the bridging mode. At this time, the light flashes once every 2 seconds. If need to exit the bridging mode, just repeat the above steps.

4.4 Wired switch control

The controller supports automatic detection of wired switch type (rocker switch or push button): After the controller is powered on, press the wired switch once to set the current wired switch type (for example, if the rocker switch is pressed after the controller is powered on, set the wired switch type to rocker switch). To reset the wired switch type, power off the controller and then power on it. Repeat the preceding steps.

5 Installation Diagram



6 Product Size

