



HIKVISION

DS-K1802 Series Card Reader

User Manual

UD01892B

User Manual

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About this Manual

This Manual is applicable to DS-K1802series card reader

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (<http://overseas.hikvision.com/en/>).

Please use this user manual under the guidance of professionals.

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Chapter 1 Preventive and Cautionary Tips

To guarantee the card reader works properly, please read and obey the notes below.

- If the card reader is powered by the controller, the power supply distance is recommended to be no longer than 100m. If the distance is longer than 100m, you are advised to power the card reader by external 12V (range: $-10\% \sim +10\%$) DC power supply, which is nonswitched and linear.
- To guarantee the communication between the controller and the card reader, you must use RVVP cable above 0.5 to connect them.
- If the card reader is installed outside or in environment easy to permeable, it is advisable to install a waterproof shield.
- If you need to install several card readers, the distance among them must over 30cm.
- To reduce the noise in long distance transmission, the shield of cable should connect to the GND of both controller and card reader terminal.

Chapter 2 Introduction

2.1 Over View

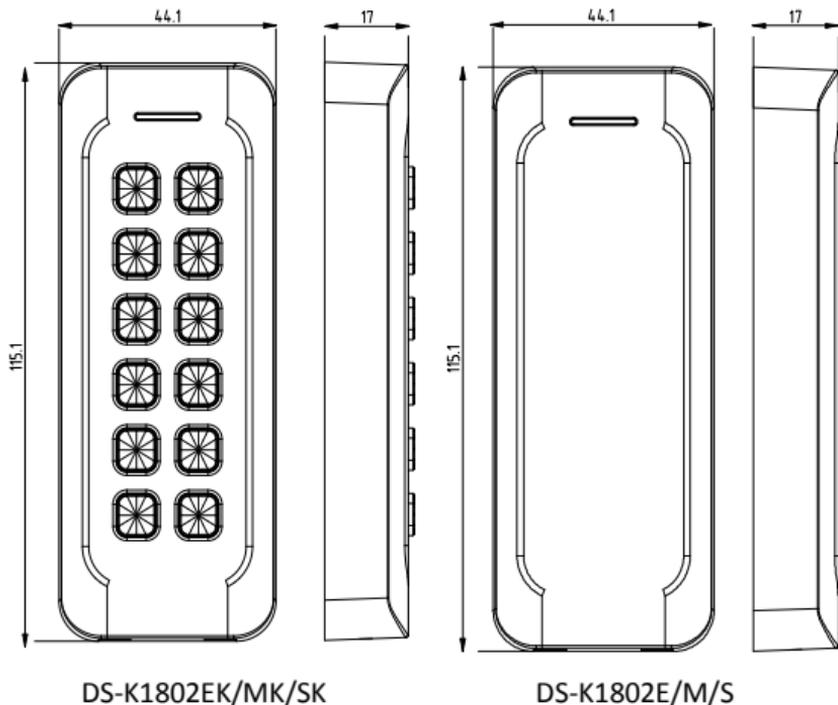


Figure 2-1 DS-K1802 Series Card Reader

DS-K1802 series card reader is a kind of high-performance product, with a 8 bit high-speed processor. It communicates with access controller via Wiegand protocol. As to the physical appearance, the PC+ABS material makes water proof and dust proof possible in poor environment.

2.2 Indicator and Component

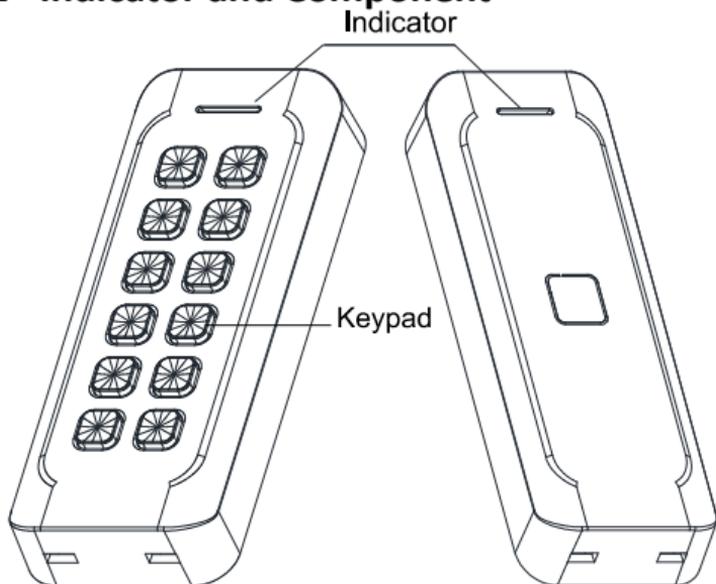


Figure 2-2 Indicator and Component

Chapter 3 Installation

3.1 Definition of Cable

The description of cables is shown below.

Table 3-1 Description of Cable

Color	Description
Red	PWR (+12 VDC)
Black	GND
Purple	Beep Control
Brown	Green LED Control
Orange	Red LED Control

Color	Description
Green	Wiegand W0
White	Wiegand W1
Blue	Wiegand 26/ 34

3.2 Wiring Cables

Purpose:

Wire the cables between controller and card reader, thus to establish the communication between them.

Steps for Wiegand communication mode:

1. Set the Wiegand mode before power-on:
Ground the blue Wiegand 26/ 34 cable: Wiegand 26.
Not ground the blue Wiegand 26/ 34 cable: Wiegand 34.
2. Wiring the cable between controller and card reader as shown below.

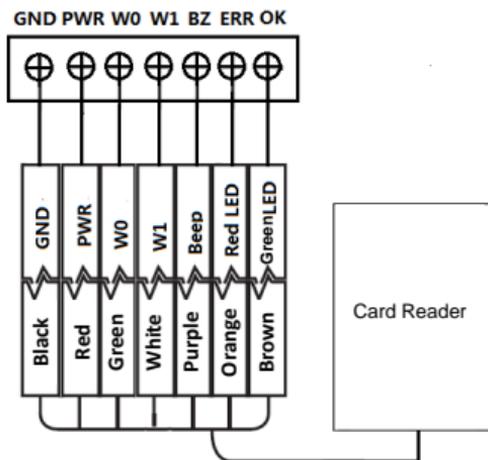
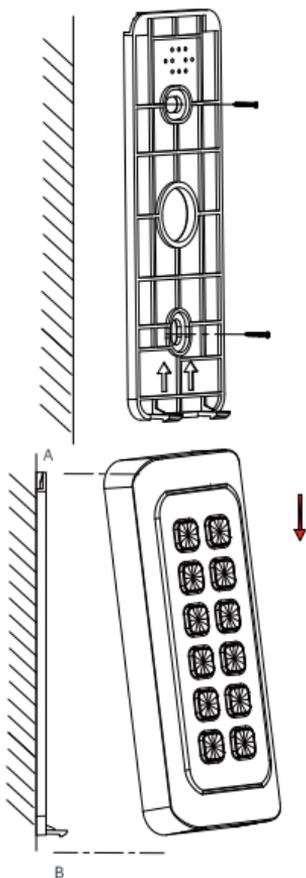


Figure 3-1 Wiring for Wiegand Communication Mode

3.3 Installing Card Reader

Steps:

1. Fix the plate on the wall or other places by using two screws (PA4×25-SUS). Make sure the arrows on the plate are upwards.
2. Check whether the plate is fixed and in the right direction.
3. Slide the card reader from the direction A to B along the plate side until the bottom matches the joint. Make sure the card reader is tightly on the wall or other places.
4. Drag and move the card reader to make sure it is fixed.



Chapter 4 Sound Prompt and Indicator

After the card reader is powered on, LED status indicator will turn green and blink for 1 time. Then it will turn red and blink for 3

times. At last the buzzer will send out a beep sound indicating the starting up process is completed.

When using the card reader, it will send out different sounds prompt and the LED indicator to indicate different statuses. You can refer to tables below for detailed information.

Table 1-1 Description of Prompt Sound

Sound Prompt	Description
One beep	Swiping card prompt
	Pressing keys prompt
	Prompt for too long card No. input by pressing keys.
	Time out prompt for pressing keys or swiping card.
	For Card + Fingerprint authentication: prompt for pressing the fingerprint after swiping the card.
Two rapid beeps	The operation of pressing keys or swiping card is valid.
Three slow beeps	The operation of pressing keys or swiping card is invalid.
Rapidly continuous beeps	Prompt for tamper-proof alarm.
	Prompt for buzzer alarm.
Slowly continuous beeps	The card reader is unencrypted.

Table 1-2 Description of LED Indicator

LED Indicator Status	Description
Green (blink for 1 time), and red (blink for 3 times)	The card reader is power on.
Green and blinking	For Card + Fingerprint authentication: prompt for pressing the fingerprint after swiping the card.
	The operation of configuring the fingerprint.
Solid green for 2s	The operation of pressing keys or swiping card is valid.
Solid red	Card reader is working normally.
Red and blink for 3 times	The operation of pressing keys or swiping card is invalid.
Red and blinking	For RS-485 protocol: Registering failed or card reader is offline.

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