



HIKVISION

DS-K1801 Series Card Reader

User Manual

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User Manual

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About this Manual

This Manual is applicable to Card Reader

Series	Models	Description
DS-K1801 Series Card Reader	DS-K1801M	MIFARE Card Reader (without keypad)
	DS-K1801MK	MIFARE Card Reader (with keypad)
	DS-K1801E	ID Card Reader (without keypad)
	DS-K1801EK	ID Card Reader (with keypad)

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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Table of Content

Chapter 1	<i>Preventive and Cautionary Tips</i>	1
Chapter 2	<i>Introduction</i>	2
2.1	Front View	2
2.2	Side View and Rear View	2
Chapter 3	<i>Wiring and Installation</i>	3
3.1	Terminal Description	3
3.2	Wiring Cables	3
3.3	Installing Card Reader	4
Chapter 4	<i>Sound Prompt and Indicator</i>	5

Chapter 1 Preventive and Cautionary Tips

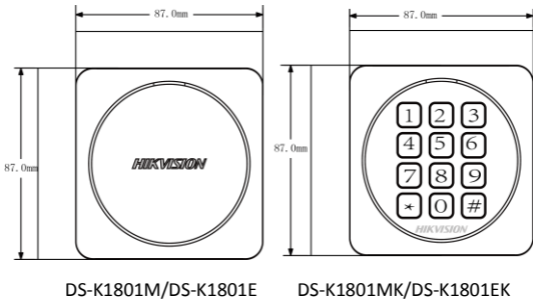
To guarantee the card reader works properly, please read and obey the notes below.

- 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

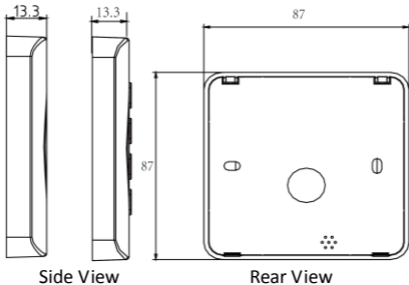
2.1 Front View

The front view of DS-K1800 series card reader is shown below:



2.2 Side View and Rear View

The side view of card reader is shown below:



Chapter 3 Wiring and Installation

3.1 Terminal Description

The description of 10 cables is shown below.

Table 3-1 Description of Cable

Color	Description	Color
VCC	PWR (12V DC)	Red
GND	GND	Gray
WG_BEEP	Beep Control (available for Wiegand Protocol)	Gray
WG_OK	OK (available for Wiegand Protocol)	Gray
WG_ERR	Error (available for Wiegand Protocol)	Gray
WG_D0	Wiegand W0 (available for Wiegand Protocol)	Gray
WG_D1	Wiegand W1 (available for Wiegand Protocol)	Gray
WIG_26/34	Private Wiegand 26 / 34 selection	Gray

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:

Wiring the cable between controller and card reader as shown below.

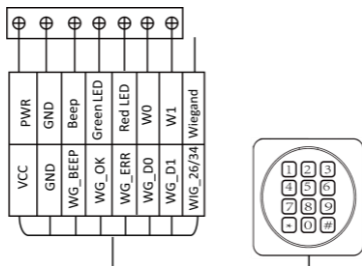


Figure 3-1 Wiring for Wiegand Communication Mode

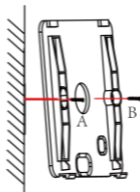


If the Wiegand mode is selected as Private Wiegand 34, disconnect the WIG_26/34 cable. If the Wiegand mode is selected as Private Wiegand 26, ground the WIG_26/34 cable.

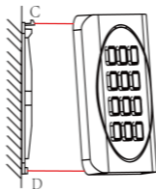
3.3 Installing Card Reader

Steps:

1. Fix the plate on the wall with screws(A and B) or other place with flat surface.



2. Connect the cables between controller and card reader. For details, refer to 3.2 Wiring Cables.
3. Buckle the card reader up to the plate with aligning C point and the corresponded slot on the upper side of card reader .
4. Press the lower side of the card reader to fasten the card reader on D point of the plate.



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.

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

Table 4-1 Description of Prompt Sound

Sound Prompt	Description
One slow beeps	Press The key, or swipe card
Continuous beeps	Unencrypted card reader
Two rapid beeps	Valid card operation, including pressing keys or swiping card.
Three slow beeps	Invalid card operation, including pressing keys or swiping card.

Table 4-2 Description of LED Indicator

LED Indicator Status	Description
Flicking Green	Card reader is working properly.
Solid Green for a period	The operation of pressing keys or swiping card is valid.
Solid Red for a period	The operation of pressing keys or swiping card is invalid.