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Secukey XK5 OSDP Reader

Secukey XK5 OSDP Reader User Manual

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Secukey XK5 OSDP Reader

Introduction

It is a waterproof OSDP keypad reader, and also with Wiegand output, can read 125KHz EM card, HID card & 13.56MHz Mifare cards at the same time.
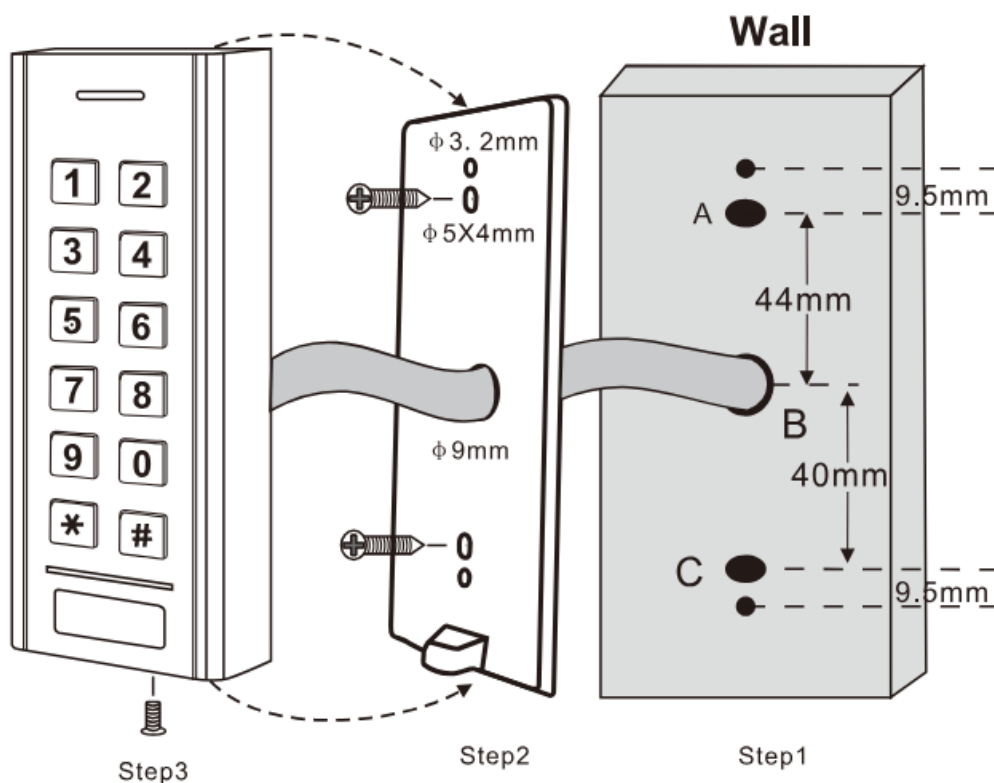
Features:

- Waterproof, conforms to IP66
- OSDP+ Wiegand, AES128 encryption
- **Card Type:** 125KHz HID, EM & 13.56MHz Milare
- **Programmable Wiegand output**
    - **EM card:** Wiegand 26-44 bits output (default: 26bits)
    - **Milare card:** Wiegand 26-44, 56, 58bits output (default: 34bits)
    - **HID card:** Wiegand 26-37 bits output
- **PIN output:** 4 bits, 8 bits or virtual card number

Specifications

Operation Voltage	12-18V DC
Standby Current	≤50mA
Frequency	125KHz & 13.56MHz
Card Type	EM & HID & MIFARE
Read Range	2~4 cm
Wiegand Output Format	EM card: Wiegand 26~44 bits output (default: 26bits) Mifare card: Wiegand 26~44, 56, 58bits output (default: 34bits) HID card: Wiegand 26~37 bits output
Keypad Transmission Format	4 bits (factory default) 8 bits or virtual card number can be set
Operating Temperature	-40°C~60°C
Operating Humidity	0% ~ 98% RH
Color	Black
Index of Protection	IP66
Dimension	120x75x20mm(Wide) 120x50x20(Slim)
Net Weight	200g (Wide) / 150g (Slim)
Shipping Weight	250g (Wide) / 200g (Slim)

Installation

- Drill 2 holes (A, C) on the wall for the screws and one hole (B) for the cable.
- Knock the rubber bungs to the holes (A, C).
- Fix the back cover on the wall with 2 screws.
- Thread the cable through the cable hole (B).
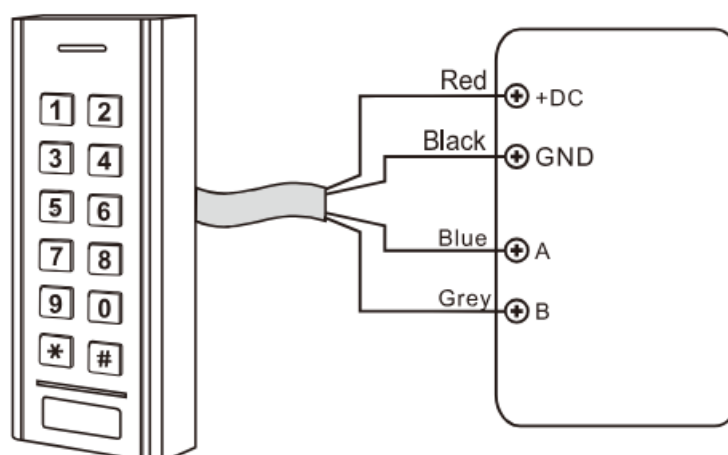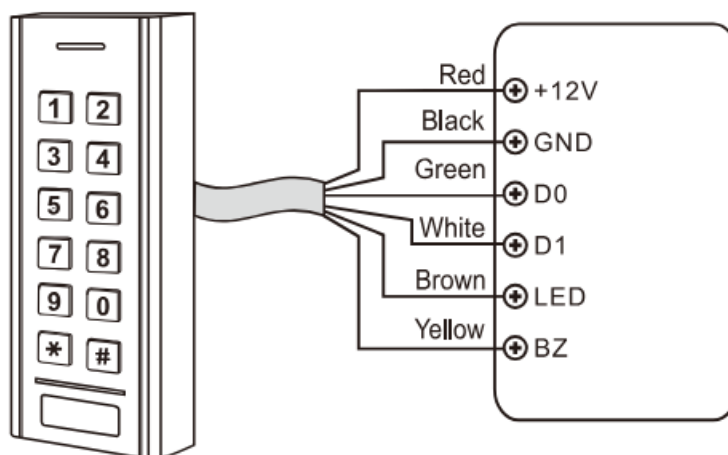- Attach the unit to the back cover.

Wiring

Color	Function	Notes
Red	Power+	+12V
Black	GND	Ground
Green	DO	Datao
White	D1	Data 1
Brown	LED	Green LED Light Control
Yellow	Buzzer	Buzzer Control
Blue	A	RS485A
Gray	B	RS485B

Connection Diagram

- **Connect with OSDP Controller**

- **Connect with Wiegand Controller**

Programming

Note: When enter program mode, need press ” for 5 seconds, then press Master code# (Factory default master code: 123456)

Set Master Code (6 digits)

The Master Code is used to prevent unauthorized access to the system, we highly recommend immediately updating it and recording the New Master Code.

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) # (factory default: 123456)
2. Update Master Code	0 (New Master Code) # (Repeat New Master Code) #
3. Exit Program Mode	*

- **Set Wiegand Format for EM Cards**

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Set Wiegand Format	1 (26~44) # (Factory default is 26bits)
3. Exit Program Mode	*

- **Set Wiegand Format for HID Cards**

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Output Format Setting	2 0 # (Auto output, factory default) 2 (26-37) #
3. Exit Program Mode	*

- **Set Wiegand Format for MIFARE Cards**

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Output Format Setting	3 0 # (Auto output) 3 (26-44, 56, 58) # (Factory default is 34 bits)
3. Exit Program Mode	*

- **Set PIN Output Format**

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Virtual Card Number Output PIN output PIN output	4 0 # 4 4 # (fatory default) 4 8 #
3. Exit Program Mode	*

- **Set Keypad Backlit**

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Keypad Backlit Always ON **OR** 2. Keypad Backlit Automatic OFF after 20s	5 1 # (fatory default) 5 2 #
3. Exit Program Mode	*

- **Baud Rate Settings (Factory default: 9600)**

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
Setting values:	6 (4800, 9600, 14400,19200, 38400, 56000, 57600,115200, 128000) #
3. Exit Program Mode	*

Note: The baud rate of all readers under the same controller should be set to the same with the controller's baud rate, otherwise the connection will fail.

- **OSDP Address Settings (Factory default: 0)**

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
Setting the address	7 (0-126) #
3. Exit Program Mode	*

Note: The addresses of all readers under the same controller should be set to be different, otherwise the two readers will conflict

- **Reset to Factory Default (two methods)**
  - **Method 1**

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Reset to Factory Default	5 0 #
3. Exit Program Mode	*

  - **Method 2 (This way is suitable for users forget the master code):**
    Power off, connect Yellow wire and GND wire, then power on, wait for 5 seconds, there will be a long beep, meas reset to factory default successfully, then disconnect the Yellow wire and GND wire.

Indicator light status

Operation Status	Indicator light color	Buzzer
Standby status	OSDP Controller decides	
Correct Card	OSDP Controller decides	beep-
Error Card	OSDP Controller decides	beep-

Packing List

Name	Quantity
Reader	1
Manual	1
Self Tapping Screws	2(Φ4*25mm)
USB Serial Tools	2
Rubber plug	2

Documents / Resources

Secukey XK5 OSDP Reader [pdf] User Manual
XK5 OSDP Reader, XK5, OSDP Reader, Reader

References

- **User Manual**