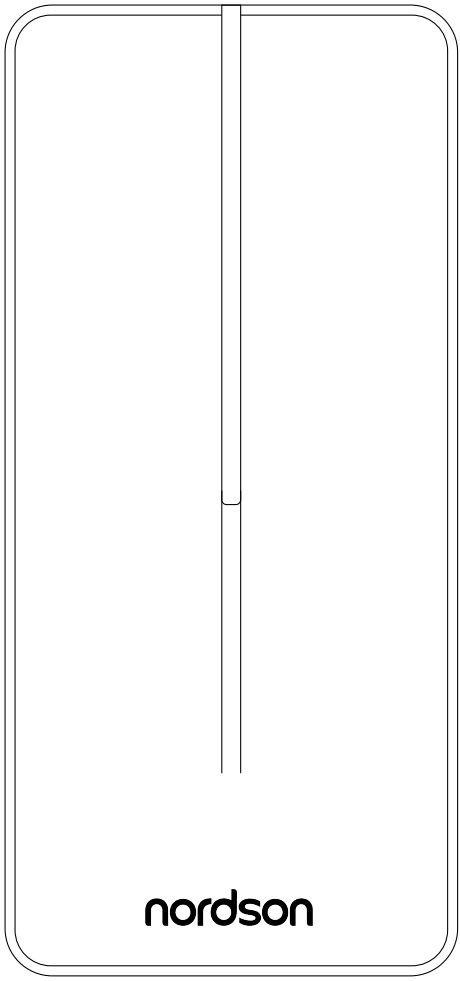
RRO RF1

All-Metal Access Control Card Reader



User Manual

Please read this instruction completely and keep it properly

1 Product Introduction

The product adopts innovative appearance, waterproof full metal body and non-traditional reading window,which truly reflecting the high strength and safety of metal access control reader. mReader is ideal for office and house using. Highly integrated and reliable technology of software and hardware are applied in the product. EM,HID and IC card reading are supported.

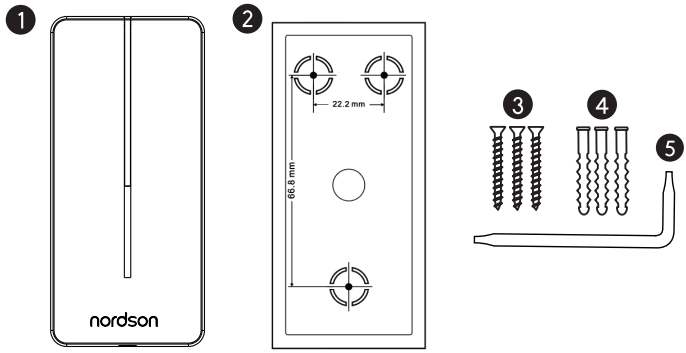
2 Performance Parameter

Body material:	Zinc Alloy
Card type:	EM,HID Card(125Khz) IC Card (include Mifare & CPU,13.56Mhz,ISO14443A)
Reading range:	≤5cm
Output format:	Wiegand 26-37bit Default 26bit, Customize for other format)
Input voltage:	DC12V±10%
Quiescent current:	≤35mA
Operating temperature:	-20~50℃
Operating humidity:	0~95%
Dimension:	103*48*22mm
Ingress Protection:	IP65

3 Wires and instruction

Serial No.	Color	Definition	Instruction
❶	Red	+12V	Positive pole
❷	Black	GND	Negative pole
❸	Green	D0	Wiegand output
❹	White	D1	Wiegand output
❺	Brown	LED	Green LED control
❻	Yellow	BZ	Buzzer control input

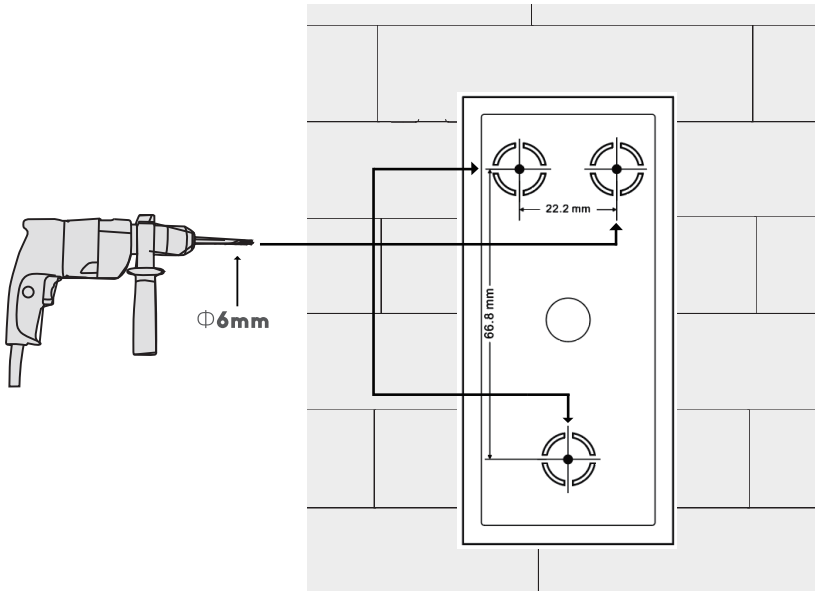
4 Packing list



1. Card Reader *1
2. Punch sticker *1
3. Self tapping screw KA4*25mm*3
4. Expansion rubber bung Φ6*24mm*3
5. L Wrench*1

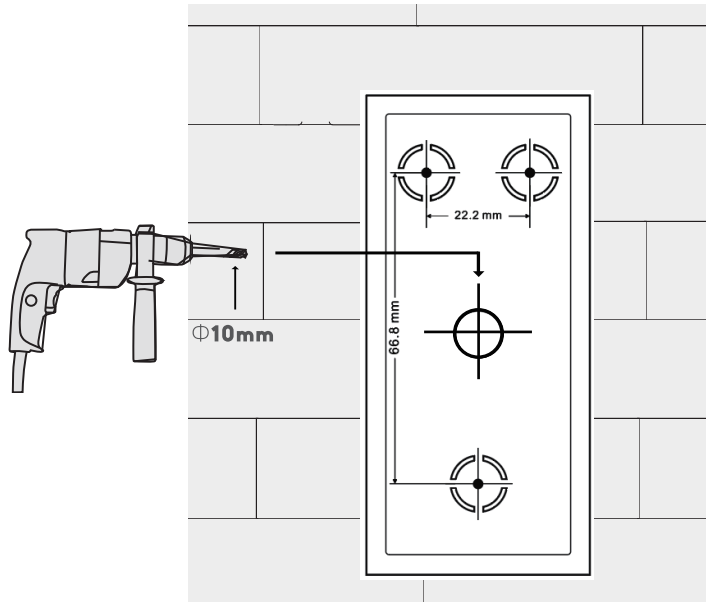
5 Installation

1 Drill installation holes



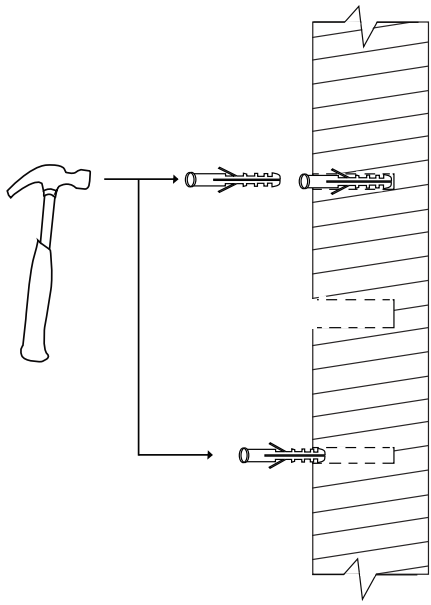
Put the punch sticker on the wall.Drill 3 Φ6mm installation holes with percussion drill with the depth of 26mm.

2 Drill the hole for outlet



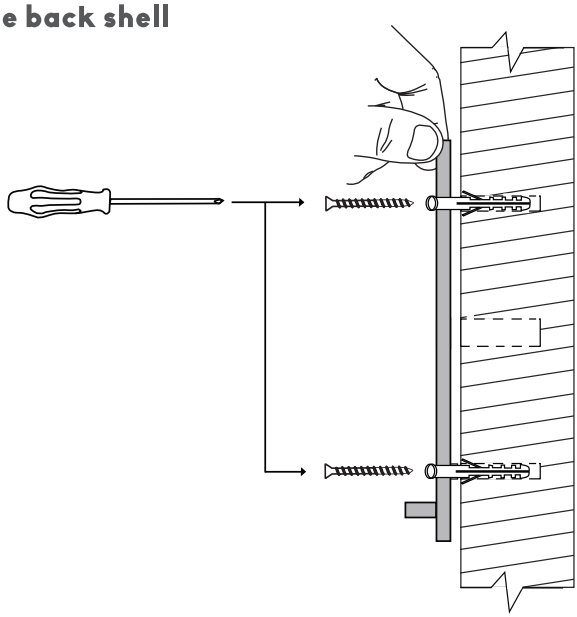
Drill Φ10mm hole for outlet with the depth according to the practical situation of electric lines.

3 Click expansion rubbers



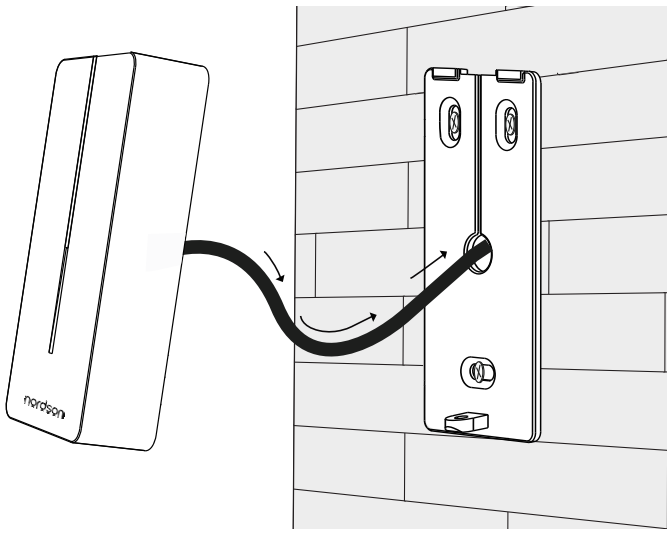
Click 3 accessory expansion rubbers into the installation holes.

4 Fix the back shell



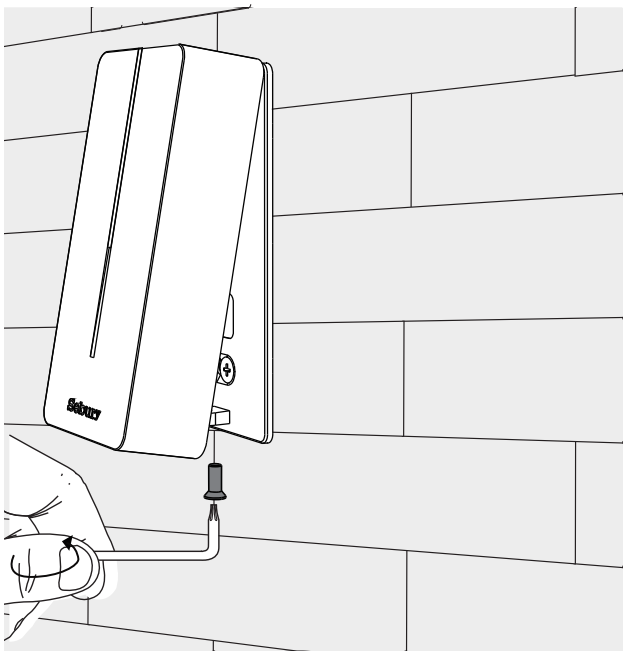
Fix the back shell on the wall with 3 KA4*25 self-tapping screws.（The percussion drill, hammer and screwdriver in figure 2,3 and 4 should be self-prepared）

5 Connect cables



Put the outlet cables through the Φ10mm hole and connect the needed cables.（pack the useless cables with the insulating tape）

6 Install the front shell



Put the front shell on the back shell. Install the Φ3*8tamper screw from the bottom of the device and tighten it by L Wrench.

6 Functional description

1. When swiping the card, the indicator light turns green and the reader has a steady beep.Then indicator light turns red, wiegand signal is output at the same time.
2. When the LED line is lowered, the indicator light turns green; when the LED line is set high, the indicator light turns red.
3. When the BZ line is lowered, the buzzer rings. When the BZ line is lowered for more than 30 seconds or set higher, the buzzer will return to normal.
4. When the machine is illegally disassembled, the buzzer will ring and automatically stop after 1 minute.

7 Wiegand data description

1. The Wiegand format of the card reader can be customized according to the customer's needs. The format range is: 26 ~ 37bit Wiegand.The EM card and IC card output 26~ 37bit Wiegand in the factory format. HID card has nothing to do with factory Settings, and automatically outputs 26 ~ 37bit Wiegand in card format.

2. The green line D0 is Wiegand signal data line 0, and the white line D1 is data line 1.Usually high level, low level represents the output data.Low level pulse width is 40uS,The pulse width interval is 2mS.The following figure illustrates the waveform of data "0101".