# **INSTRUCTION** MANUAL

Metal waterproof access control

Metal waterproof PIN access control

R3

Item No.	R3-EM	R3-H	R3-H&EM	R3-M
Item No.	R3-K EM	R3-K H	R3-K H&EM	R3-K M
Card type	EM	HID	HID&EM	IC/CPU
Frequency	125KHz	125KHz	125KHz	13.56M
Max proximity card read range	3~6cm	3~6cm	3~6cm	2~6cn
Operating voltage	DC 12V			
Static current	≤30mA	≤30mA	≤30mA	≤20mA
Operating temperature range	-40~60°C	-40~60℃	-40~60°C	-20~60
Operating humidity range	0~95%			
IP	IP65			
Dimensions	128X82X2	Bmm		

EM	Wiegand 26-37, 26 bit is factory default setting (Wiegand 26-37 can be customized to manufacturer)
HID	Wiegand 26-37, Wiegand 26 card reader. It will output Wiegand 26-37 bit according to HID card's format automatically)
HID&EM	Wiegand 26-37, Wiegand 26 card reader. It will output wiegand 26-37 bit according to HID card's format automatically)
IC/CPU	Wiegand 26-37, Wiegand 26 bit is factory default setting (Wiegand 26-37 can be customized to manufacturer)

Note: 1. The factory default output is Wiegand 26 format. Wiegand 27~37 can be

customized to the manufacturer.

2. Ask ISO14443Astandard ICor CPU card.

### 1. Introduction

The R3/R3-K is a waterproof, standalone proximity reader. It can read EM, HID and Milfare cards, with multiple data format output, can be compatible with most access controllers.

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### 3. Wiring Definition

Color	Functionality	Description
Red	+12V	+12V Power Input
Black	GND	GND
Green	D0	Wiegand output D0
White	D1	Wiegand output D1
Brown	LED	Green light input
Yellow	BELL	Buzzer input

- > Mark 4 dots (A, B, C, D) on the wall for screws and 1 dot (F) for the cable, then drill hole (A,B, C,D) in form diameter, and drill the holeF) in 10mm diameter.
  > Plug the Rubber Bungs into the 4 holes (A, B, C, D). Fix the back cover firmly on the wall with 5eAf-agoing screws.
  > Thread the cable though the cable hole.
  > Altach the front cover to the back cover, and use the screw E to fix it.



## 5. Functional Description

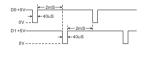
- > After reading a card, the Color of the LED will turn Green, the buzzer sound a
- long beep.
  > Then, the Color of the LED will turn Red, at the same time, the reader output

- > When you pressing the key, the Wegand signal will output at the same time. Pressing the number key, the buzzer sound a short beer, pressing the ", the buzzer sound a short beer, pressing the ", the buzzer sound a short pole, and pressing if the Color of the LED will tam Green when the product of the LED will tam Green when the hey to Valge for LED is low, and thurst flex when the legal Valge for LED is low, and it will turn flex when the legal Valge for the Bell is low, and it will turn manual earlier 30 seconds of the legal Valge go high.
  > When the enclosure is opened, the buzzer will aliam. And it will turn off the sound of aliam autematically will be no revision.

# 6. Instruction for the Wiegand Data

The buyers can customize the Wiegand bit of this reader, Range: Wiegand 26~37. Wiegand 26 card reader, HID card can output Wiegand 26~37 automatically, other

Wegand 26 card reader, HID card can output Wegand 28-57 automatically, other cards are output Wegand 26 compulsively. Wegand 27-57. Wegand 27-57. Wegand 27-57. The wire in green(1) is the wire for Wegand 0, and the wire with white is the wire for Wegand 1. The input voilage is high at cordinary time, and when it is low, there is data output from the reader. The pulse width for low voilage is 40uS; and the time interval is 2mS. Below is the data for "0101" oscillogram.



## 7. Description for Key Wiegand output (only available for R3-K)

The format of key output: 4bit. 8bit. virtual card number: three formats.4bit is factory

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4 bit no checked format, that is , each key press sends 4 bits data, the corresponding

A bit no checked format, that a, each key press sends 4 bits data, the corresponding relation is:

1 (0001), 2 (0010), 3 (0011)

4 (0100), 5 (0101), 6 (0110)

7 (0111), 8 (1000), 9 (1001)

8 (1010), 0 (0000), # (1011)

8 bit ones-complement code, for the leaf 4 bits, the corresponding relationship is:

1 (1100001), 2 (1100001), 3 (1000011)

1 (1100001), 8 (1000011)

7 (10000111), 8 (1000011)

\* (01010101), 0 (11100000), # (10101011)

# 8. Packing List

Name	Quantity	Remark
Packing Box	- 1	
Card Reader	- 1	Reading type to see labels
User Manual	1	
Rubber Bungs	4	White 6mm×24 mm,used for fixing
Self Tapping Screws	4	Stainless steel KA4mm×25 mm,used for fixing

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