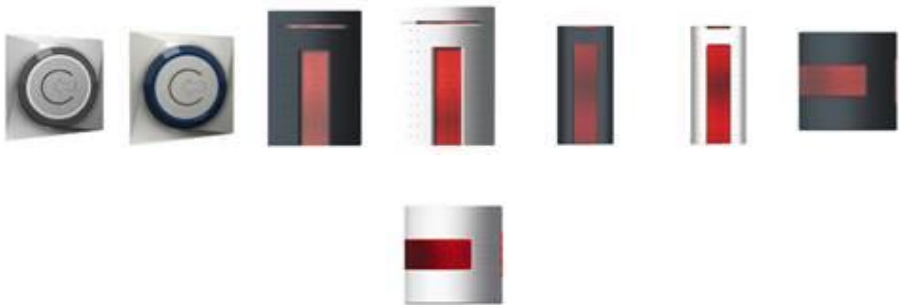
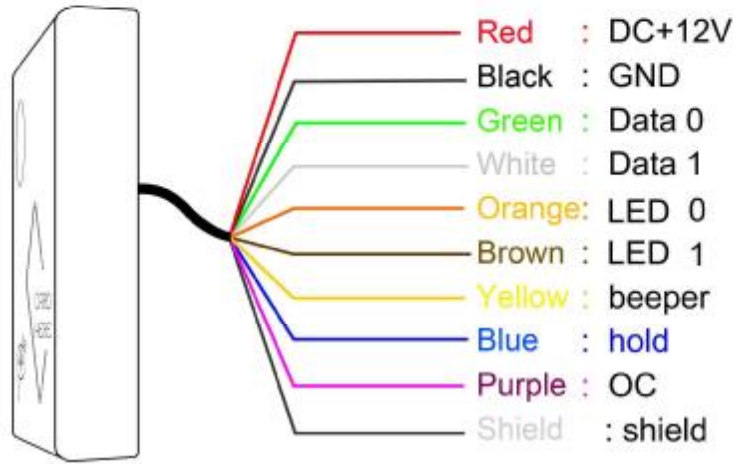


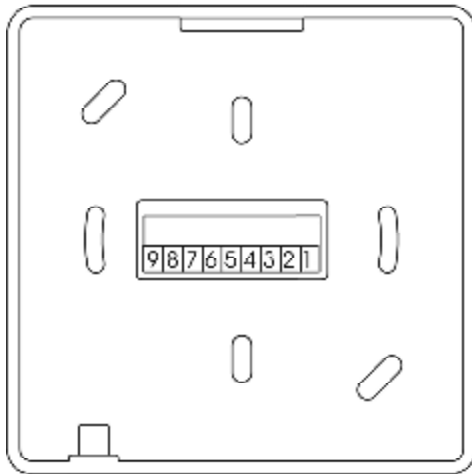
# Card Reader User Guide



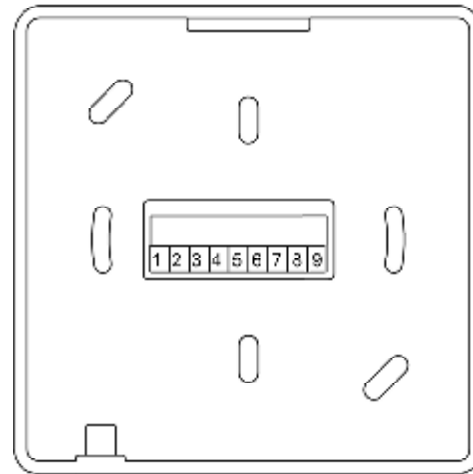
## Connection



Model No: DR912/DR913



Model No: R8 series



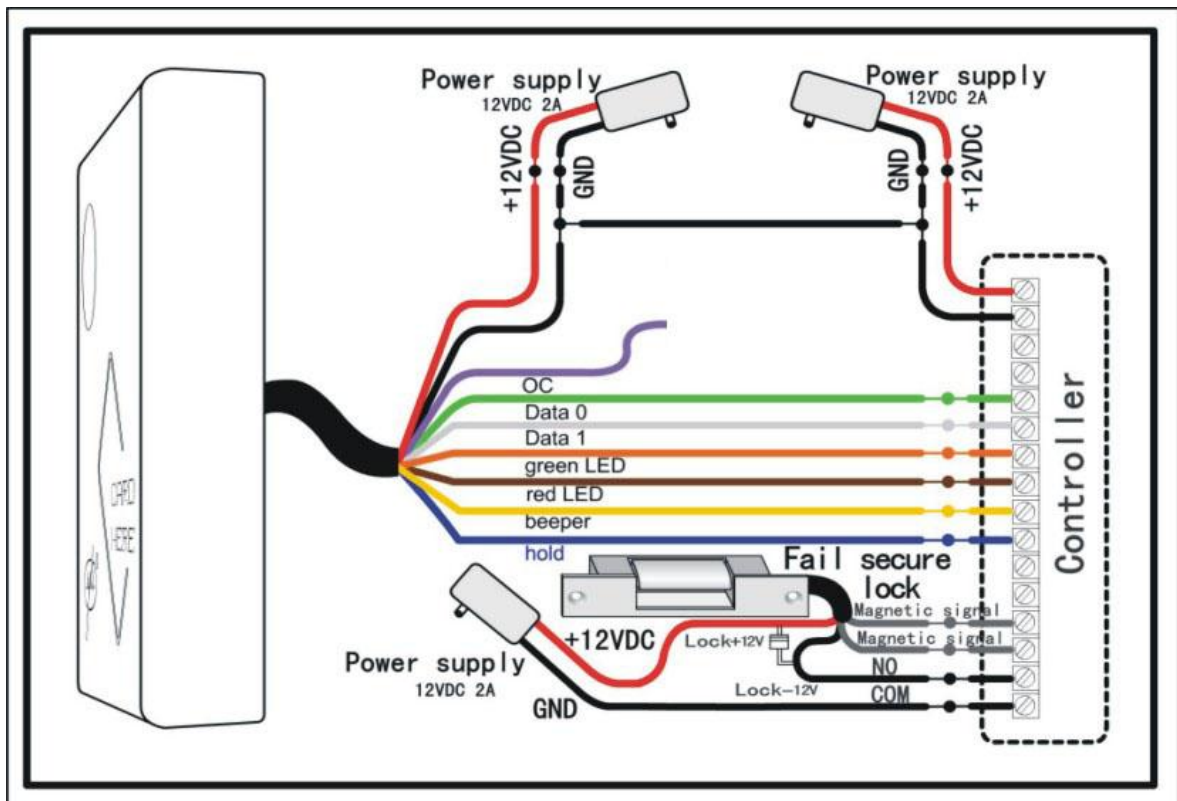
Model No: others

\*WG26/WG34 output format can setup by signal converter

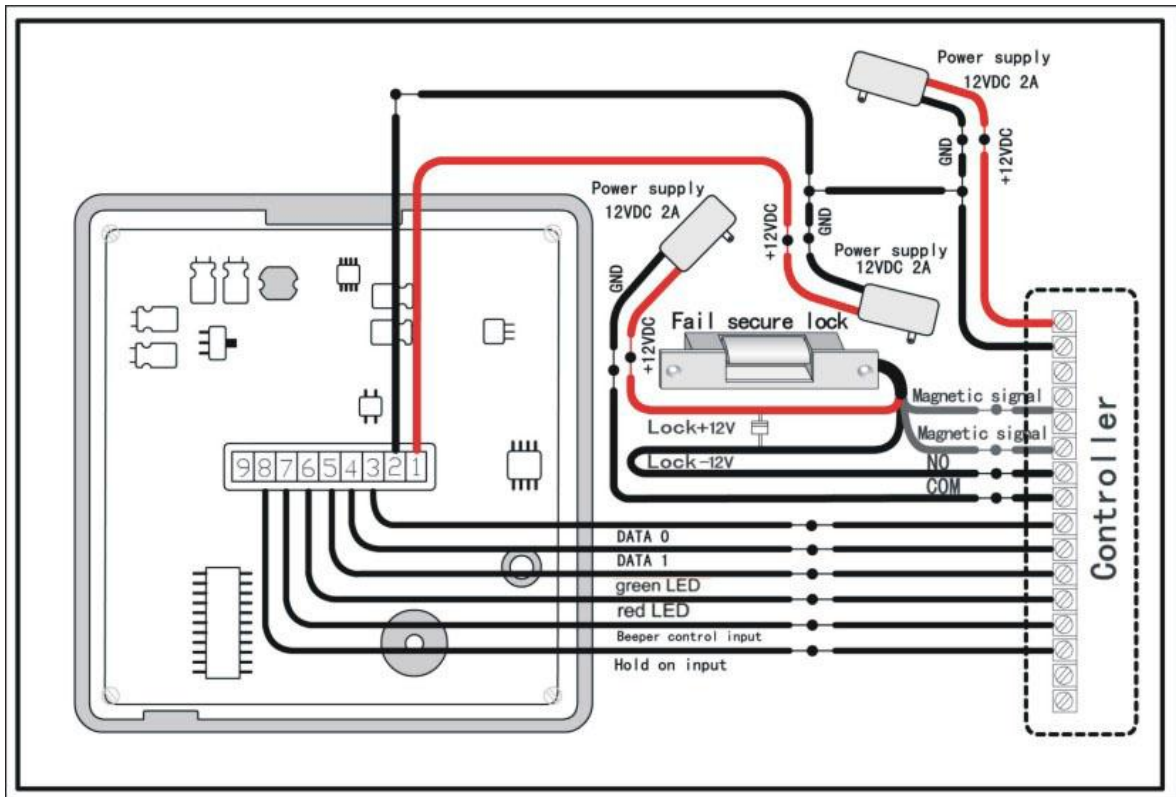
\*\*Prompting is different depending on different models, only the readers with OLED can display the message. R4 series don't have red light.

Connection		
No	Function	Description
1	12V+	DC Power 12V
2	12V-	DC Power 0V
3	*DATA:0	Wiegand DATA:0 Output
4	*DATA:1	Wiegand DATA:1 Output
5	**TTL1	Grounding to lights up 1 <sup>st</sup> LED or 1 <sup>st</sup> message (expect R4 series)
6	**TTL2	Grounding to lights up 2 <sup>nd</sup> LED or display 2 <sup>nd</sup> message (expect R4 series)
7	SPEAKER	Beeper Controller, grounding to work.
8	HOLD	Card reading controller, grounding to stop RF reading
9	OC	Anti-tamper signal

DR-912/DR-913 card reader and controller connections as follow:



Others card reader and controller connections as follow:





### Keypad Output Format.

This table is default keypad output format we can change new format if you need.

Key	Output 4bit code	Output 8bit code
0	0000	11110000
1	0001	11100001
2	0010	11010010
3	0011	11000011
4	0100	10110100
5	0101	10100101
6	0110	10010110
7	0111	10000111
8	1000	01111000
9	1001	01101001
C (*)	1010	01011010
E (#)	1011	01001011

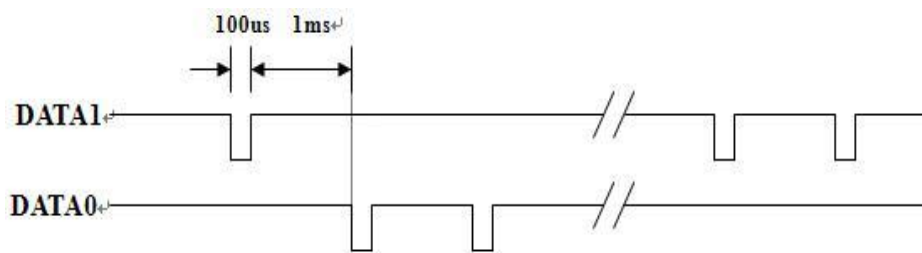
## Time Setup

\*\*\*Keep pressing  for 5s, then input month, day, year, hour, minute, second. press  again for save.

\*\*\*This function is only for DR-703DK which with an OLED display.

## Wiegand output attention.


Wiegand output waveform:



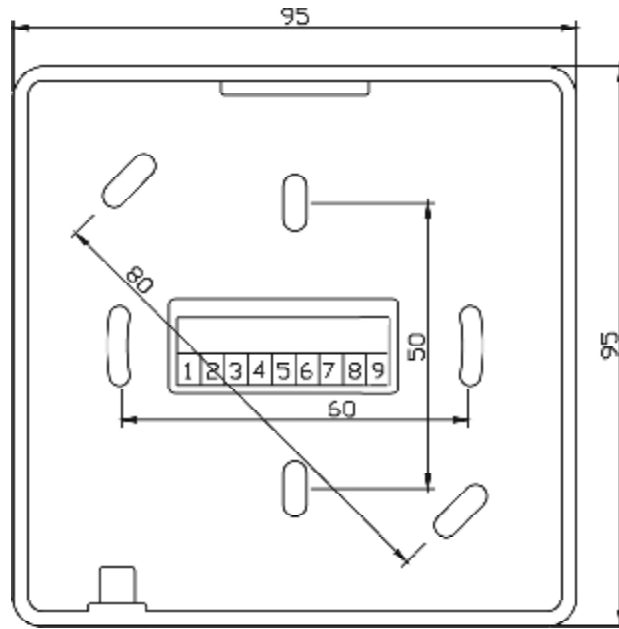
1. Must be only one grounding in the system
2. Shield must run through the whole line, and two equipments grounding connect through the shielding connection.
3. Please don't use twisted-pair as the wiegand output
4. Please pay attention to the length of data cable as following table:

Table of Wiegand data line type and maximum length

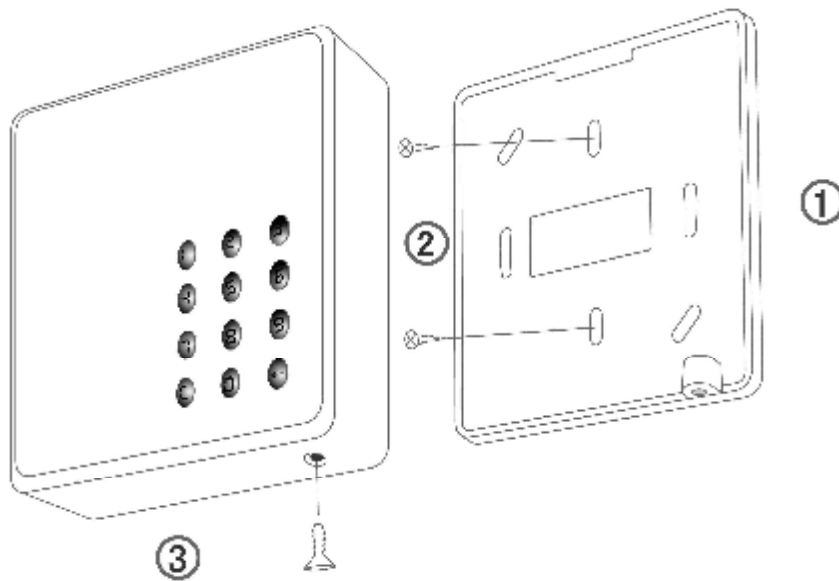
Type	Dia. (mm)	Length (m)
24 AWG	0.511	40
22 AWG	0.643	60
18 AWG	1.020	100

 Note: The information above is the test result of testing form manufactory, for reference purposes only, Wiegand communications distance will be reduced as external interference.

## Installation



Installation



### Back-plate dimension

- 1) Route all the cable through the hole in the middle of back-plate
- 2) Mounting back-plate on the wall

- 3) Install the reader to back-plate and fix a screw in the bottom
- 4) Power-on, card reader turns into normal state after two beeps shown.

### **Troubleshooting.**

- 1) If the reader doesn't work properly after power-on, please disconnect the power immediately and check the wiring and whether the power supply complied with 9-15V.
- 2) After 1<sup>st</sup> step, check the wiring and whether the power of card reader complied with 9-15V.
- 3) If the reading range performs not well, please check if the wall behind is a large area of metal, if it is, please remove the metal or block up the unit.