HeyOpen

Manuale utente

Controllo accessi Smart WI-FI(COD. 68.6810.10)

Prodotto ad uso professionale, attenersi alle normative vigenti nel sito di installazione.

Introduzione e Dotazione

HeyOpen è un sistema di controllo accessi corazzato e resistente alle intemperie. E' in grado di aprire la serratura ad esso collegata tramite Codice Pin, Card RFID, App HeySmart e asistente vocale. *All'interno del pack ci sarà anche il set di VITI e la MASTER CARD utile per la configurazione locale senza WI-FI / APP HeySmart.*

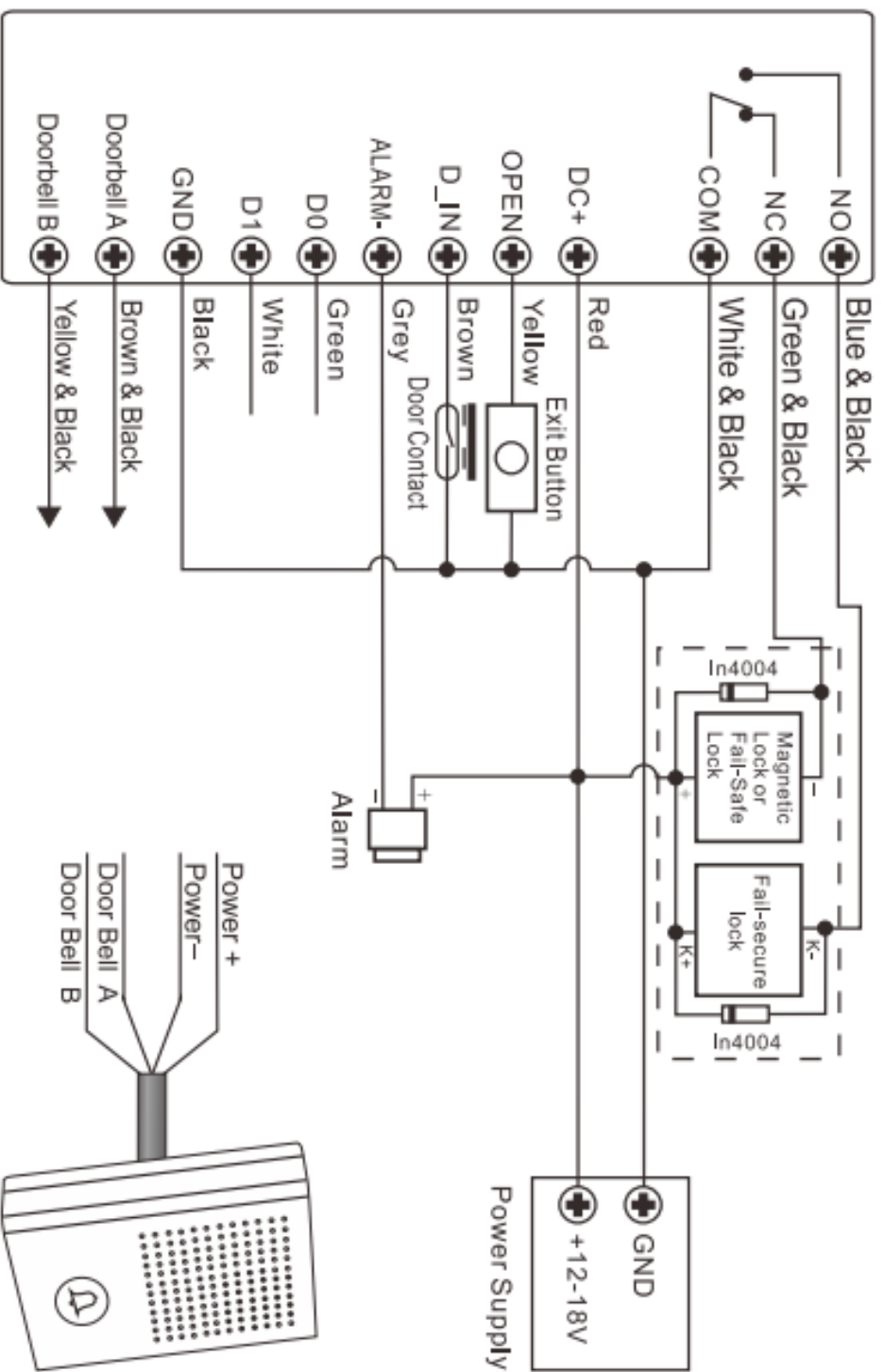**Installazione e schema di cablaggio**
HeyOpen è operativo con alimentazione 12-18Vdc (0,5 mA); se volete collegare un'elettro-serratura è necessario che questa sia già alimentata in quanto i contatti NO-COM sono "puliti" (privi di tensione).

Collegando HeyOpen ad un dispositivo che funziona a contatto pulito non sarà necessaria ulteriore fonte di alimentazione.

Se l'apparato collegato ad HeyOpen lavora in corrente alternata, proteggere il dispositivo HeyOpen con l'apposito diodo raddrizzatore/resistore collegandolo ai poli dell'elettro-serratura come da schema di cablaggio.

Nota: il pulsante campanello funziona se colleghiamo HeyOpen ad un campanello filare alimentato in modo indipendente. Ecco una breve spiegazione dei colori:
BLUE&NERO: N.O.   VERDE&NERO: N.C.   BIANCO&NERO: COM
ROSSO: + 12Vdc   GIALLO: PULSANTE DI USCITA   NERO: - 12Vdc / GND
marrone&nero: contatto campanello
giallo&nero: contatto campanello

Doorbell B — Yellow & Black ▼

Doorbell A — Brown & Black ▼

GND — Black

D1 — White

D0 — Green

ALARM- — Grey

D_IN — Brown — Door Contact

OPEN — Yellow — Exit Button

DC+ — Red

COM — White & Black

NC — Green & Black

NO — Blue & Black

Alarm
− +

In4004

Magnetic Lock or Fail-Safe Lock
−
+

Fail-secure lock
K+   K−

In4004

Power +
Power −

Door Bell A
Door Bell B

Power Supply
+12-18V
GND

Download App e registrazione account

Per iniziare, scaricare l'App HeySmart e registrare un account come da immagini.

SCAN QR CODE
DOWNLOAD HEYSMART App

Se non lo avete già, registrate un nuovo account!

Registra

Italia

1 Inserisci la tua email

Ottieni codice di verifica
2

☑ Registrazione d'accordo Accordo per gli utenti e Privacy Policy

Immetti codice di verifica

3
inserire il codice ricevuto via email

Il codice di verifica viene inviato al tuo indirizzo email:
myemail@email.com   Inviare di nuovo(45s)

Impostare la password

4
Imposta la tua password

6-20 caratteri, incluso lettere e numeri

5 Fine

Configurazione WI-FI con app HeySmart

Una volta completato il cablaggio, alla prima alimentazione HeyOpen è già predisposto per essere connesso in WI-FI 2,4GHz tramite app HEYSMART.

NOTA: Lo smartphone deve essere già collegato alla rete WI-FI (banda 2,4GHz); la password e il nome della rete non devono eccedere i 16 caratteri alfanumerici.

Attivare Bluetooth e Posizione(GPS/GEOLOC.). Fornire tutti i permessi di accesso che l'app richiede sullo smartphone.

Nella schermata principale premere "Aggiungi dispositivo" oppure il simbolo "+".

Subito dopo, grazie alla tecnologia BLE, l'app rileverà il dispositivo nelle vicinanze.
Quindi premere " agggiungi ".

<   **Aggiungi dispositivo**   ⌞⌝

Ricerca dei dispositivi disponibili nelle vicinanze.
Assicurarsi che il dispositivo sia in modalità di
abbinamento.

Ricerca dispositivi in co...

                                    Aggiungi

                       2

Aggiungi manualmente

| Telecamera di sicurezza (Wi-Fi) | Fonte di luce (Wi-Fi) | Regolatore della valvola dell'acqua (Wi-Fi) |

Nella schermata successiva premere "+"

Aggiungi dispositivo   **Fine**

Aggiunta di 1 dispositivo/i in corso

                                   3

WIFI Access Control
Toccare per aggiungere qu...   ⊕

A questo punto troviamo il nome della rete WI-FI già compilato, inseriamo la password e andiamo AVANTI.

Scegliere la rete Wi-Fi e immettere la password
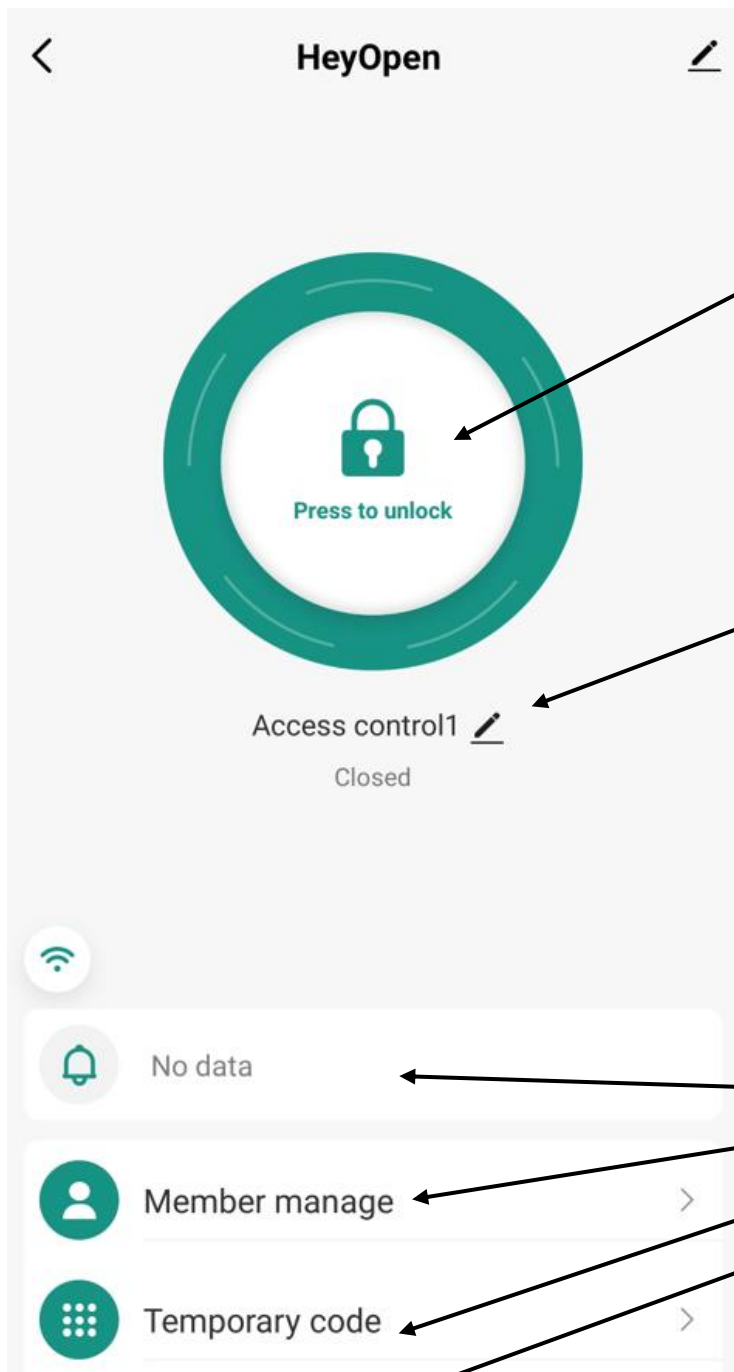
📶 HOME WI-FI 2,4GHz ⇌

🔒 WI-FI PASSWORD 👁

Avanti **4**

A questo punto aspettiamo la fine dell'aggiunta dispositivo.

Aggiungi dispositivo **Fine**

Aggiunta di 1 dispositivo/i in corso **Attendi… Wait…**

🚪 WIFI Access Control
Aggiunta in corso

Aggiungi dispositivo **Fine**

5

1 dispositivo/i aggiunto/i correttamente

🚪 HeyOpen ✏
Aggiunto correttamente

-Rinomina
-Edit name

UTILIZZO E FUNZIONI APP

HeyOpen

PREMI PER APRIRE

Abilita l'apertura da remoto in SETTINGS.

Modifica nome

(utile in caso di più ingressi ad esempio Porta SUD – Ingresso Nord)

Press to unlock

Access control1

Closed

No data — **Registro sistema**
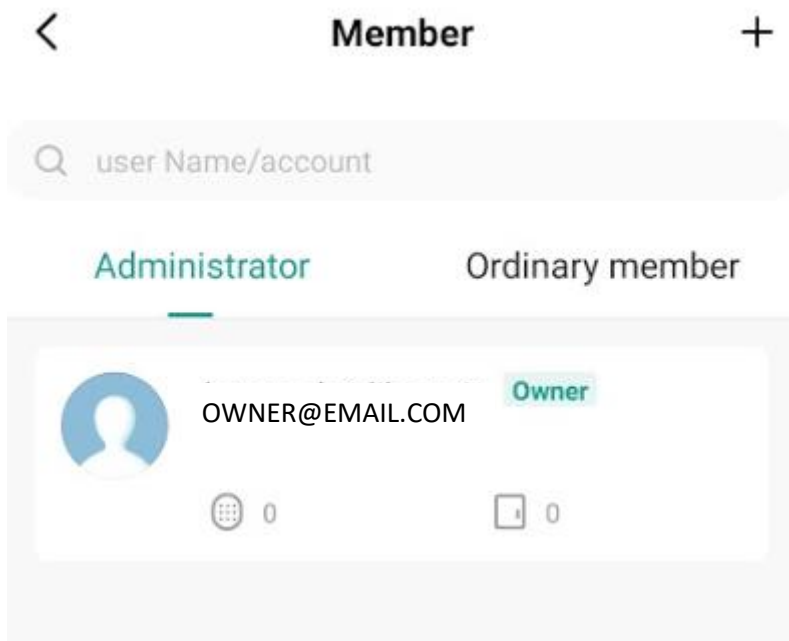
Member manage — **Gestione utenti**

Codice temporaneo

Temporary code — **Settings**

Gestione Utenti

In questa schermata abbiamo gli utenti creati suddivisi tra ADMIN e ORDINARI.

Nei loghi sotto l'account si può notare la qtà di CODICI e CARD assegnate al singolo utente. Inoltre sull'account del proprietario c'è l'apposito simbolo OWNER.

Premendo sull'utente desiderato abbiamo la possibilità di

Aggiungere o rimuovere un codice CODE o la carta CARD.

E' presente anche l'opzione EFFECTIVE TIME che consente l'accesso solo in determinati orari, giorni e fino alla data indicata.

‹

OWNER@EMAIL.COM

Owner

⊞ Code

➕ Add

▢ Card

➕ Add

Effective time   Forever

Forever ○

Customize ✓

Effective date 2023/06/09 12:39 >

Expiry date 2024/12/30 08:00 >

Repeat ⬤

Start time 08:00 >

End time 18:00 >

Sun | Mon | Tus | Wed | Thu | Fri | Sat

Save

Aggiungere un nuovo utente

Cancel	**Add user**	Next step

User name	Please input

Country/area	Italy +39 >

User account	Input phone No. or e-mail

Administrator	⬤

Administrators can manage devices and members, but members can only read unlock & alarm records

Consigliamo sempre di far registrare all'utente o ospite un nuovo account HeySmart prima di aggiungerlo come utente HeyOpen.

Ricordatevi di spuntare il selettore

ADMIN/USER

TEMPORARY CODE In caso di richiesta di accesso temporaneo si può comodamente creare un codice usa e getta valido per il singolo utilizzo.

‹	**Add temporary code**	Log record

Code type

Cyclicity	Once

Code name	168168168

Setting Impostazioni lettore

Setting

Remote unlock setting	🟢
Permission settings	Permission all >
Automatic lock	⚪
Alarm time	0 Min 1 s >
Key volume	Key volume mute >

Remote unlock   Abilita l'apertura da remoto tramite App

Permission settings Abilita l'apertura tramite App solo agli ADMIN o a TUTTI

Automatic lock   <mark>(LASCIARE ATTIVO SE NON SI CONOSCE LA FUNZIONE)</mark>

Se disattivato, il contatto non si richiude automaticamente.

Significa inserire nuovamente il codice o passare la CARD per richiudere.

Alarm time Tempo di suono del buzzer in caso di tentata manomissione

Key Volume Volume dei toni tastiera

UTILIZZO IN LOCALE

HeyOpen può certamente funzionare anche se per motivi tecnici si interrompe la connessione WI-FI. Può anche funzionare in modo permanente senza averlo mai configurato con WI-FI e APP.

Per fare ciò bisognerà impostare il lettore e aggiungere codici/utenti sfruttando le istruzioni dedicate all'INSTALLATORE PROFESSIONALE.

L'uso OFFLINE può risultare complicato se non ci si rivolge ad un professionista.

Il manuale PRO lo trovate alla fine di questo manuale utente.

NOTE E APPUNTI PERSONALI:

RESET (IT/EN)

RESET N1 (ripristina impostazioni ma non gli utenti/wi-fi/account)

1. togli alimentazione e tieni premuto il pulsante di uscita

2. ridare alimentazione mantenendo premuto il pulsante

3. Sentirai 2 "BiiP" quindi rilasciare il pulsante

4. Ripristino impostazioni di fabbrica eseguito

RESET N2 (reset tutti gli UTENTI ma non impostazioni/WI-FI)

1. Digitare sul tastierino:

* (codice master) # 2 (codice master) #

RESET N3 (reset WI-FI ma non impostazioni/utenti)

1. Digitare sul tastierino(se ancora operativo nell'app è sufficiente rimuoverlo dall'app per resettare il WI-FI):

* (codice master) # 9 codice master) #

1) Reset the device to factory default (users still retained): power off, press the exit button, hold it and power on, there will be two beeps, keep pressing the exit button for at least 5 seconds, then release it. Then reset to factory default successfully.

2) How to delete all users (card, fingerprint): * (Master code) # 2 (Master code) #

3) How to unbind device from APP (or say delete device from APP): * (Master code) # 9 (Master code) #

🇮🇹 Per ulteriori istruzioni visita

🇬🇧 For more instructions please visit

WWW.GBCONLINE.IT

WWW.LACASASMART.COM

IT - Dichiarazione di conformità

Il Fabbricante, KON.EL.CO. SpA - Piazza Don Mapelli, 75 - 20099 Sesto San Giovanni (Mi) - Italia dichiara che dichiara che il tipo di apparecchiatura radio modello **HeyOpen**, codice **68.6810.10**, marca **ISNATCH** , è conforme alla Direttiva 2014/53/UE. Il testo completo della Dichiarazione di conformità UE è disponibile al seguente indirizzo internet : www.gbconline.it

EN - Declaration of conformity

The Manufacturer KON.EL.CO. S.p.A. - Piazza Don Mapelli, 75 - 20099 Sesto San Giovanni (MI) – Italy declares under its sole responsibility that the radio equipment**,** code **68.6810.10,** model **HeyOpen** brand **ISNATCH**, complies with the Directive 2014/53/UE. The complete text of the EU Declaration of Conformity is available on the following internet site: www.gbconline.it

IT – Il simbolo del cassonetto barrato riportato sull'apparecchiatura indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti. L'utente dovrà, pertanto, conferire l'apparecchiatura integra dei componenti essenziali giunta a fine vita agli idonei centri di raccolta differenziata dei rifiuti elettrici ed elettronici, oppure riconsegnarla al rivenditoreal momento dell'acquisto di nuova apparecchiatura di tipo equivalente (senza ulteriore acquisto, se di dimensioni inferiori a 25 cm.). Lo smaltimento abusivo del prodotto da parte dell'utente comporta l'applicazione delle sanzioni amministrative di cui al DecretoLegislativo N. 49 del 14 Marzo 2014.

EN - At the end of its life, the device has to be separated from the other waste. Consign the device and all its components together to a center of electronical and electrotechnical waste recycling center, designated by your local authorities.

ATTENZIONE: Per l'utilizzo dell'articolo **68.6810.10**, è necessario rispettare le normative vigenti del sito di installazione. A causa del continuo sviluppo tecnologico, la descrizione ed il disegno del prodotto potrebbero variare senza alcun preavviso. Non

aprire, modificare o riparare in autonomia il prodotto in quanto decadrebbe automaticamente la garanzia. Il prodotto è destinato ad uso professionale.

WARNING: For use of **68.6810.10** item**,** must follow local regulations of installation site. Due to the continuous technological development, the description and the drawing of the product may change without notice. Do not open, modify or repair the product independently as the guarantee will automatically expire. For professional use only.

| HeyOpen 68.6810.10	
Case	Metal vandal-proof
User management	PIN, Card, access permission time
Card reader	RFID 125KHz / MIFARE 13,56MHz
PIN	6 digits
Wired contacts	Relay, exit button, door bell, Wiegand
Wi-Fi	2,4 GHz
User management in APP	Up to 200 users (up to 1000 in local mode)
Compatible Card	Cod. **68.6810.11** or **68.0010.11**
E.I.R.P. max. potency	<20 dBm
Software	1.0.0 (or above)
Power supply	12 ~ 18 Vdc - 0,5A
IP Rating	IP66
Operative temperature	-10 °C ~ +50 °C
Dimensions	165 x 44 x 22 mm
Weight	450g

CE

KON.EL.CO S.p.A.

Piazza Don E. Mapelli, 75 - 20099 - Sesto S. Giovanni – MI – Italy

Made in China

Access Controller / Reader (With Doorbell)
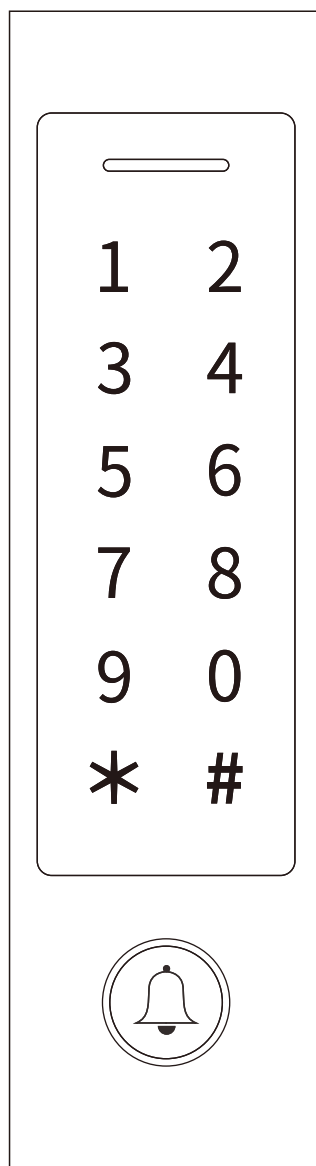
User Manual

CONTENTS

INTRODUCTION

The device is a single door multifunction standalone access controller or a Wiegand output reader. It uses Atmel MCU assuring stable performance. The operation is very user-friendly, and low-power circuit makes it long service life.

The device supports 1,000 users (988 common users + 2 panic users + 10 visitor users), all user data can be transferred from one to another. It supports multi access modes in card access, PIN access, card + PIN access, or multi cards/PINs access. It has extra features including block enrollment, interlock, Wiegand input & output interface...etc.

Two Versions Optional:
The device with Bluetooth function is optional
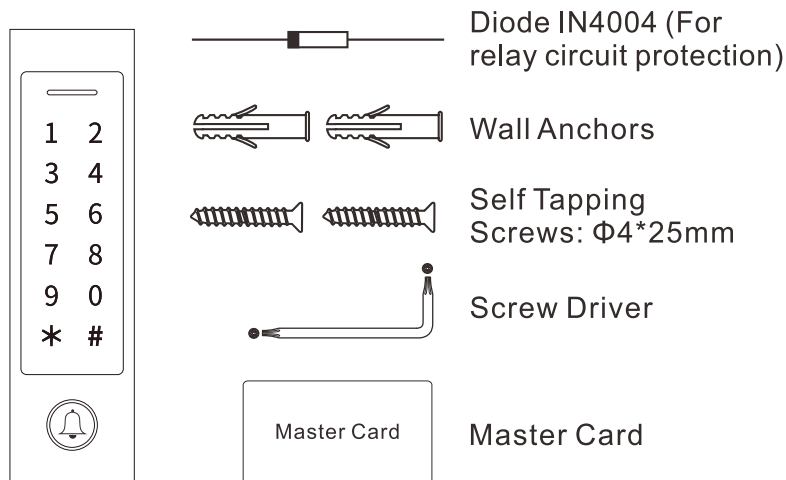The device with big user capacity is optional

Features

> Touch key
> Metal case, anti-vandal
> Waterproof, conforms to IP66
> One relay, 1,000 users (988 common + 2 panic + 10 visitor)
> PIN length: 4~6 digits
> EM card, EM+ Mifare cards optional
> EM card: Wiegand 26~44 bits input & output
   Mifare card: Wiegand 26~44bits, 56bits, 58bits input & output
> Can be used as Wiegand reader with LED & buzzer output
> Card block enrollment
> Tri-color LED status display
> Integrated alarm & buzzer output
> Pulse mode, Toggle mode
> User data can be transferred
> 2 devices can be interlocked for 2 doors
> Built-in light dependent resistor (LDR) for anti tamper
> Backlit keypad, can set automatic OFF after 20 seconds

Specifications

User Capacity	1000
Common User	988
Panic User	2
Visitor User	10
Operating Voltage	12~18V DC
Working Current	≤150mA
Idle Current	≤60mA

Proximity Card Reader
   Radio Technology
   Read Range
	EM / EM + Mifare
	125KHz / 125KHz + 13.56MHz
	2~6 cm

PIN Length	**4~6 digits**
Wiring Connections	**Relay Output, Exit Button, Alarm, Door Contact, Wiegand Input, Wiegand Output**

Relay
   Adjustable Relay Output Time
   Lock Output Load
	One (NO, NC, Common)
	0~99 Seconds (5 seconds default)
	2 Amp Maximum

Wiegand Interface PIN Output	**EM card: Wiegand 26~44 bits input & output.** **Mifare card: Wiegand 26~44bits** **56bits, 58bits input & output.** (Factory default: Wiegand 26bits for EM card, Wiegand 34bits for Mifare card) **4 bits, 8 bits(ASCII), 10 digits Virtual Number** (Factory Default: 4 bits)

Environment
   Operating Temperature
   Operating Humidity
	Meets IP66
	-40°C ~ 60°C（-40°F ~ 140°F)
	0%RH~98%RH

Physical
   Colour
   Dimensions
   Unit Weight
   Shipping Weight
	Zinc-Alloy
	Silver & Black
	L148 x W43.5 x D22 (mm)
	330g
	405g

Carton Inventory

Diode IN4004 (For relay circuit protection)

Wall Anchors

Self Tapping Screws: Φ4*25mm

Screw Driver

Master Card

INSTALLATION ━━━━━━

> Remove the back cover from the unit
> Drill 2 holes(A,C) on the wall for the screws and one hole for the cable
> Knock the supplied rubber bungs to the screw holes(A,C)
> Fix the back cover firmly on the wall with 4 flat head screws
> Thread the cable through the cable hole(B)
> Attach the unit to the back cover
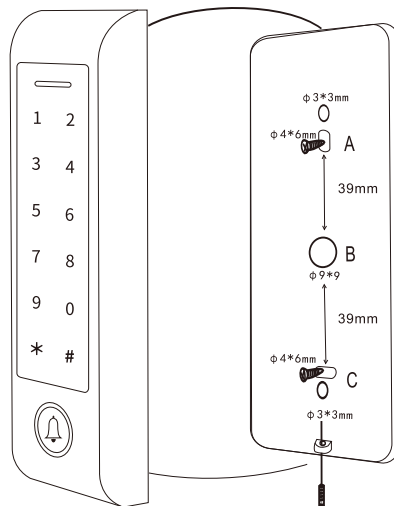
Wiring

Wire Color	Function	Notes
Basic Standalone Wiring		
Red	DC +	12-18V DC Power Input
Black	GND	Negative Pole of DC Power Input
Blue & Black	Relay NO	Normally Open Relay Output (install diode provided)
White & Black	Relay Common	Common Connection for Relay Output
Green & Black	Relay NC	Normally Closed Relay Output (Install diode provided)
Yellow	OPEN	Request to Exit(REX) Input
Pass-Through Wiring (Wiegand Reader or Controller)		
Green	Data 0	Wiegand Output (Pass-through) Data 0
White	Data 1	Wiegand Output (Pass-through) Data 1
Advanced Input and Output Features		
Grey	Alarm Output	Negative contact for Alarm
Brown	Contact Input	Door/Gate Contact Input (Normally Closed)
Brown & Black	Doorbell A	Contact for Doorbell
Yellow & Black	Doorbell B	Contact for Doorbell

Sound and Light Indication

Operation Status	LED	Buzzer
Stand by	Red light bright	—
Enter into programming mode	Red light shines	One beep
In the programming mode	Orange light bright	One beep
Operation error	—	Three beeps
Exit from the Programming mode	Red light bright	One beep
Open lock	Green light bright	One beep
Alarm	Red light Shines quickly	Beeps

Basic Configure -

Enter and Exit Program Mode

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) # (Factory default is 123456)
Exit Program Mode	*

Set Master Code

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Update Master Code	0 (New Master Code) # (Repeat New Master Code) # (Master code is any 6 digits)
3. Exit Program Mode	*

Set the Working Mode

Notes: The device has 3 working modes: Standalone Mode, Controller Mode, Wiegand Reader Mode, choose the mode you use. (Factory default is Standalone Mode / Controller Mode)
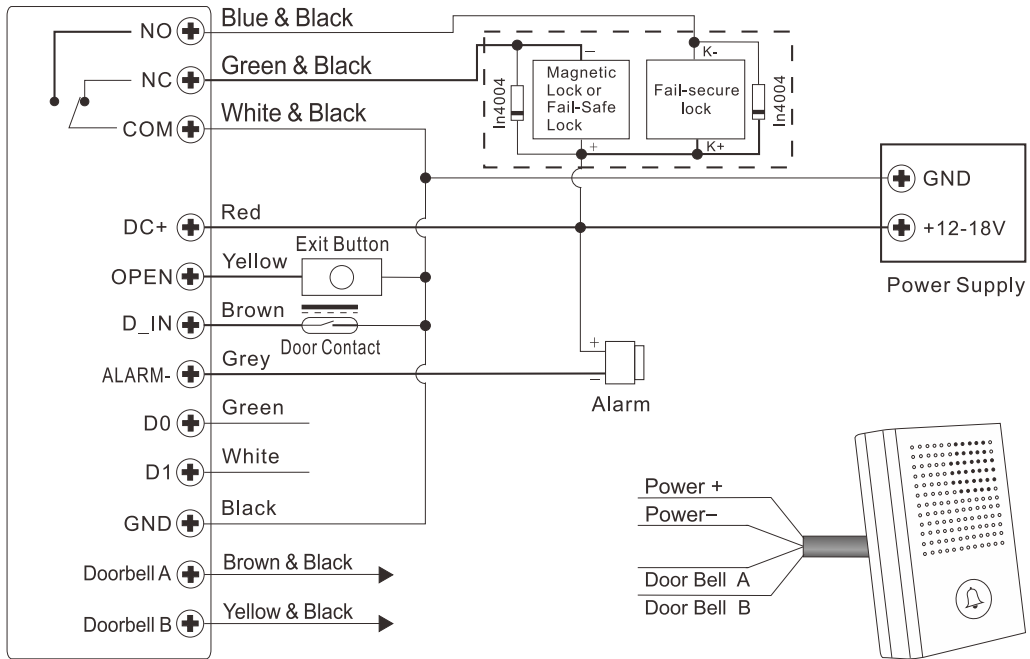
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Standalone/Controller Mode **OR** 2. Wiegand Reader Mode	7 7 # (Factory default) 7 8 #
3. Exit	*

STANDALONE MODE

The device can work as Standalone Access Control for single door.
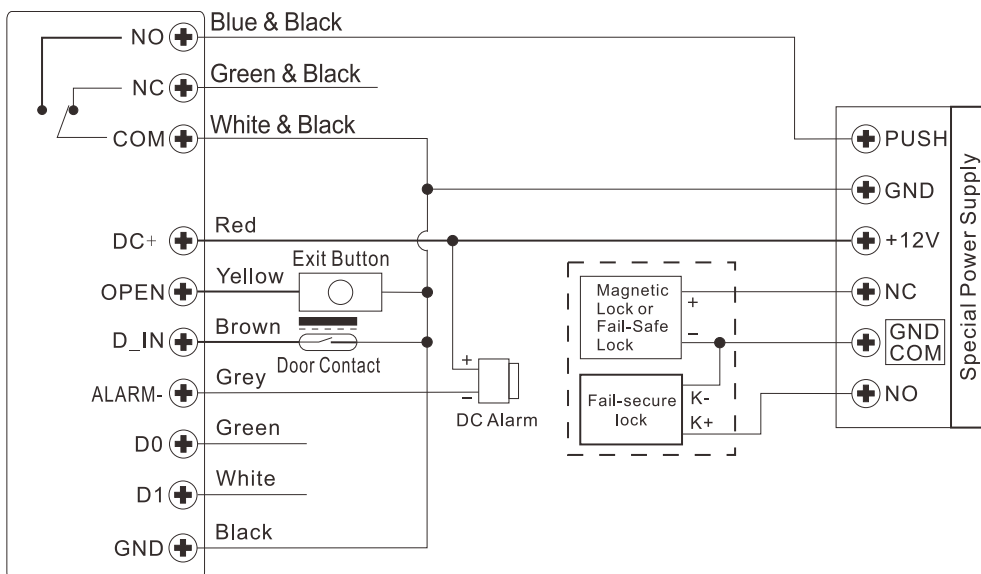(Factory default mode) --- 7 7 #

Connection Diagram

Common Power Supply

Attention:

Install a 1N4004 or equivalent diode is needed when use a common power supply, or the keypad might be damaged. (1N4004 is included in the packing)

Access Control Power Supply

Programming

Programming will be varied depending on access configuration. Follow the instructions according to your access configuration.

Notes:

> User ID number: Assign a user ID to the access card/ PIN in order to track it.

The Common User ID: 0~987
Panic User ID: 988 ~ 989
Visitor User ID: 990 ~ 999

IMPORTANT: User IDs do not have to be proceeded with any leading zeros. Recording of User ID is critical. Modifications to the user require the User ID be available.

> Proximity Card:
Proximity Card: EM card/ EM+ Mifare cards

> PIN: Can be any 4~6 digits except 8888 which is reserved.

Add Common Users

PIN/ Card user ID: 0~987; PIN length: 4~6 digits except 8888

Programming Step	Keystroke Combination
1. Enter Program Mode	* **(Master Code) #**
Add Card User	
2. Using Auto ID (Allows the device to assign Card to next available User ID number) **OR** 2. Select Specific ID (Allows Master to define a specific User ID to associate the card to) **OR** 2. Add Card: Block Enrollment (Allows Master to add up to 988 cards to the Reader in a single step) Takes 2 minutes to program.	**1 (Read Card) / (Input 8/10/17 Digits Card Number) #** The cards can be added continuously. **1 (User ID) # (Read Card) / (Input 8/10/17 Digits Card Number) #** **1 (User ID) # (Card Quantity) # (The First Card 8/10/17 Digits Number) #** Cards' number must be consecutive; Card quantity= numbers of cards to be enrolled

Add PIN User	

2. Using Auto ID
   (Allows the device to assign PIN to
   next available User ID number)
OR
2. Select Specific ID
   (Allows manager to define a specific
   User ID to associate the PIN to)
	1 (PIN) #
	The PINs can be added continuously
	
	1 (User ID) # (PIN) #

3. Exit	**∗**

Tips for PIN Security (Only valid for 6 digits PIN):

For higher security we allow you to hide your correct PIN with other numbers up to a max of 10 digits.

Example PIN: 123434
You could use **(123434) ** or ** (123434)
("*" can be any numbers from 0~9)

Add Panic Users
(User ID number is 988, 989; PIN length: 4~6 digits except 8888)

Programming Step	Keystroke Combination
1. Enter Program Mode	**∗ (Master Code) #**
2. Add Card **OR** 2. Add PIN	**1 (User ID) # (Read Card / Input 8/10 /17 Digits Card number) #** **1 (User ID) # (PIN) #**
3. Exit	**∗**

Add Visitor Users
(User ID number is 990~999; PIN length: 4~6 digits except 8888)
There are 10 groups Visitor PIN/card available, the users can be specified up to 10 times of usage, after a certain number of times, i.e. 5 times, the PIN/card become invalid automatically.

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Add Card OR 2. Add PIN	1 (User ID) # (0~9) # (Read Card) / (Input 8/10/17 Digits Card Number) # 1 (User ID) # (0~9) # (PIN) # (0~9 means times of usage, 0=10 times)
3. Exit	*

Change PIN Users(PIN length: 4~6 digits except 8888)

Programming Step	Keystroke Combination
Note: Below is done outside programming mode, users can undertake this themselves	
Change PIN	* (User ID) # (Old PIN) # (New PIN) # (Repeat New PIN) #
Change PIN of Card + PIN access mode (There will auto allocate PIN (8888) to cards when adding)	*(Read Card) (Old PIN) # (New PIN) # (Repeat New PIN) #

Delete Users

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User- By Card/ PIN	2 (Read Card)/(Input PIN) # The users can be deleted continuously.
OR 2. Delete User - By ID number **OR** 2. Delete User - By Card number **OR** 2. Delete ALL Users	2 (User ID) # 2 (input 8/10/17 Digits Card Number) # 2 (Master Code) #
3. Exit	*

Set Relay Configuration

The relay configuration sets the behaviour of the output relay on activation.

Programming Step	Keystroke Combination
1. Enter Program Mode	**∗(Master Code) #**
2. Pulse Mode **OR** 2. Toggle Mode	**3 (1~99) #** (factory default) The relay time is 1-99 seconds. (Default is 5 seconds) **3 0 #** Sets the relay to ON/OFF Toggle mode
3. Exit	∗

Set Access Mode

For Multi user access mode, the interval time of reading can not exceed 5 seconds, or else, the device will exit to standby automatically.

Programming Step	Keystroke Combination
1. Enter Program Mode	**∗(Master Code) #**
2 Card Access **OR** 2 PIN Access **OR** 2 Card + PIN Access **OR** 2 Card or PIN Access **OR** 2 Multi User Access	**4 0 #** **4 1 #** **4 2 #** **4 3 #** (factory default) **4 3 (2~9) #** (Only after 2~9 valid users, the door can be opened)
3. Exit	∗

Set Strike-out Alarm

The strike-out alarm will engage after 10 failed entry attempts (Factory is OFF). It can be set to deny access for 10 minutes after engaging or disengage only after entering a valid card/PIN or Master code / card.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #

2. Strike-Out OFF
OR
2. Strike-Out ON
 	
OR
2. Strike-Out ON (Alarm)
   Set Alarm Time
	6 0 # (factory default)
	
	6 1 # Access will be denied for 10 minutes
	    (Exit button is still workable)
	
	6 2 #
	5 (0 ~ 3) # (factory default is 1 minute)
	Enter Master Code # or Master Card or
	valid user card/ PIN to silence

3. Exit	*

Set Door Open Detection

Door Open Too Long (DOTL) Detection

When use with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened normally, but not closed after 1 minute, the inside buzzer will beep automatically to remind people to close the door. The beep can be stopped by closing the door, master users or valid users, or else, it will continue to beep the same time with the alarm time set.

Door Forced Open Detection

When use with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened by force, the inside buzzer and external alarm (if there is) will both operate, they can be stopped by master users or valid users, or else, it will continue to sound the same time with the alarm time set.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Disable Door Open Detection **OR** 2. Enable Door Open Detection **Set Alarm Time**	**6 3 #** (factory default) **6 4 #** **5 (0 ~ 3) #** (factory default is 1 minute)
3. Exit	*

The function of **Set Alarm Time** also apply for anti-tamper alarm

Set Audible and Visual Response

Programming Step	Keystroke Combination
1. Enter Program Mode	*** (Master Code) #**

2. Disable Sound
   Enable Sound
OR
2. LED Always OFF
   LED Always ON
OR
2. Keypad Backlit Always OFF
   Keypad Backlit Always ON
   Keypad Backlit Automatic OFF
	7 0 #
	7 1 # (factory default)
	
	7 2 #
	7 3 # (factory default)
	
	7 4 #
	7 5 #
	7 6 # (factory default)
	Automatic OFF after 20 seconds, it will go ON by pressing any key (this key isn't taken into consideration)

3. Exit	*****

Master Card Usage

Using Master Card to add and delete users	
Add Card/ PIN Users	1. Input **(Master Card)** 2. Input **(Card)** or **(PIN #)** Repeat step 2 for additional users 3. Input **(Master Card)** again
Delete Card/ PIN Users	1. Input **(Master Card Twice within 5s)** 2. Input **(Card)** or **(PIN #)** Repeat step 2 for additional users 3. Input **(Master Card)** again

Users Operation & Reset to Factory Default

> Open the door: Read valid user card or input valid user PIN #

> Remove Alarm: Enter Master Code # or Master Card or valid user card / PIN

> To reset to factory default & Add Master Card: Power off, press the Exit Button, hold it and power on, there will be two beeps, then release the exit button, the LED light turns into yellow, then read any 125KHz EM card / 13.56MHz Mifare card, the LED will turn into red, means reset to factory default successfully. Of the card reading, it is the Master Card.
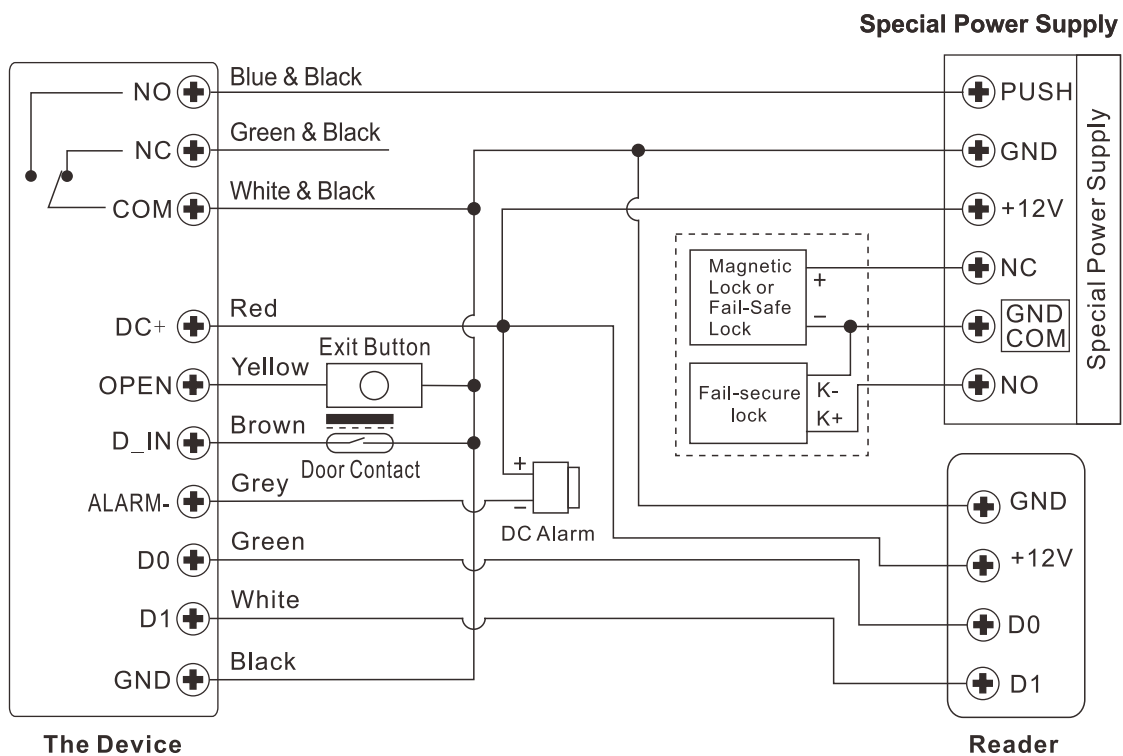
Remarks:

① If no Master Card added, must press the Exit Button for at least 5 seconds before release.(this will make the previous registered Master Card invalid)

② Reset to factory default, the user's information is still retained.

CONTROLLER MODE

The device can work as Controller, connected with the external Wiegand reader. (Factory default mode) --- 7 7 #

Connection Diagram

Attention: Install a 1N4004 or equivalent diode is needed when use a common power supply, or the reader might be damaged. (1N4004 is included in the packing)

Set Wiegand Input Formats

Please set the Wiegand input formats according to the Wiegand output format of the external Reader.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Wiegand Input Bit	For EM Card: 8 (26~ 44) # (factory default is 26bits) For Mifare Card: 8 0 (26~44, 56, 58) # (factory default is 34bits)
3. Disable Parity Bit Enable Parity Bit	8 0 # 8 1 # (factory default)
4. Exit	*

Note: For connecting Wiegand readers with 32, 40, 56 bits output, need disable parity bits.

Programming

> Basic Programming is the same as Standalone Mode
> There are some exceptions for your attention:

The device Connected with External Card Reader

- If EM/Mifare card reader: users can be added/deleted on either the device or external reader.

- If HID card reader : users can only be added/deleted on external reader.

The device Connected with Fingerprint Reader
For example:
Connect SF1 as the fingerprint reader to the device.
Step 1: Add the Fingerprint (A) on SF1 (Please refer to SF1 manual)
Step 2: Add the same Fingerprint(A) on the device:

1	Enter Program Mode: * (Master Code) #
2 OR	**1 (Press Fingerprint A once on SF1) #** (ID auto allocated)
2	**1 (User ID) # (Press Fingerprint A on SF1) #** (Select specific ID)
3	Exit: *

The device Connected with Keypad Reader

The keypad reader can be 4 Bits, 8 Bits (ASCII), or 10 Bits output format.
Choose the below operation according to the PIN output format of your reader.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. PIN input bits	8 (4 or 8 or 10) # (factory default is 4 bits)
3. Exit	*

Remarks: 4 means 4 bits, 8 means 8 bits, 10 means 10 digits virtual number.

> Add PIN Users:
   To add PIN users, after enter into programming mode on the device,
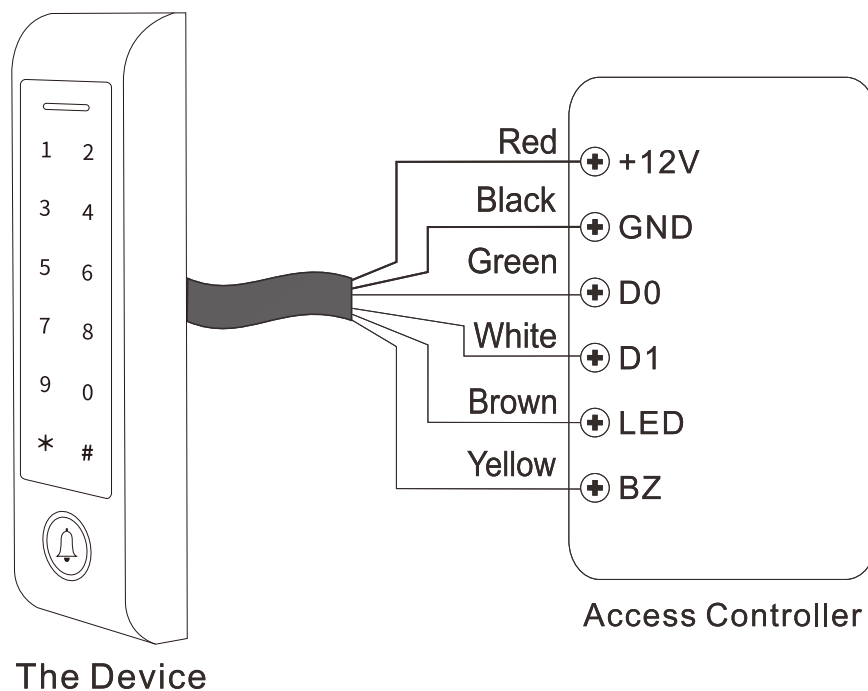   PIN(s) can be input / added on either thedevice   or the external
   Keypad Reader.

> Delete PIN Users: the same way as add users.

WIEGAND READER MODE

The device can work as Standard Wiegand Reader, connected to the third party
 Controller --- 7 8 #

Connection Diagram

Red	+12V
Black	GND
Green	D0
White	D1
Brown	LED
Yellow	BZ

Access Controller

The Device

Notes:

> When set into Wiegand Reader mode, nearly all settings in Controller Mode will become invalid, and Brown & Yellow wires will be redefined as below:
  - Brown wire: Green LED light control
  - Yellow wire: Buzzer control

> If you need to connect Brown/Yellow wires:
   When the input voltage for LED is low, the LED will turn into Green; and when the input voltage for Buzzer is low, it will sound.

Set Wiegand Output Formats

Please set the Wiegand output formats of Reader according to the Wiegand input formats of the Controller.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Wiegand output bits	**For EM Card: 8 (26~ 44) #** (factory default is 26bits) **For Mifare Card: 8 0 (26~44, 56, 58) #** (factory default is 34bits)
PIN output bits	**8 (4 or 8 or 10) #** (factory default is 4 bits)
3. Disable Parity Bit Enable Parity Bit	**8 0 #** **8 1 #** (factory default)
4. Exit	

Note: For connecting Wiegand controller with 32, 40, 56 bits input, need disable parity bits.

ADVANCED APPLICATION

User Information Transfer

The device supports the User Information Transfer function, and the enrolled user (cards, PINs) can be transferred from one (let's name it Master Unit) to another (let's name it Accept Unit).

Connection Diagram:

The Device   The Device
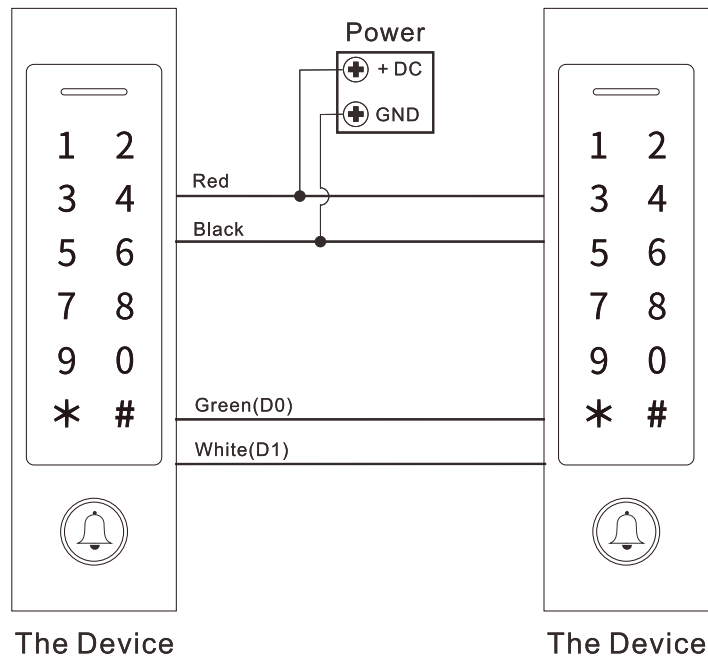
Remarks:
> The Master units and Accept units must be same series devices.
> The Master Code of the Master Unit and the Accept Unit must be set to the same.
> Program the transfer operation on Master Unit only.
> If the Accept Unit is already with the users enrolled, it will be covered after
   transferring.
> For full 1000 users enrolled, the transfer takes about 30 seconds.

Set Transferring on Master Unit:

Programming Step	Keystroke Combination
1. Enter the programming mode	∗ (Master Code) #
2. Set transferring	9 8 #
Within 30 seconds, Green LED shines, after one beep, the LED will turn into Red, which means the users' information has been transferred successfully.	
3. Exit	∗

Interlock

The device supports the Interlock Function. It is of two Devices for two doors, and mainly used for banks, prisons, and other places where a higher level security is required.

Connection Diagram:
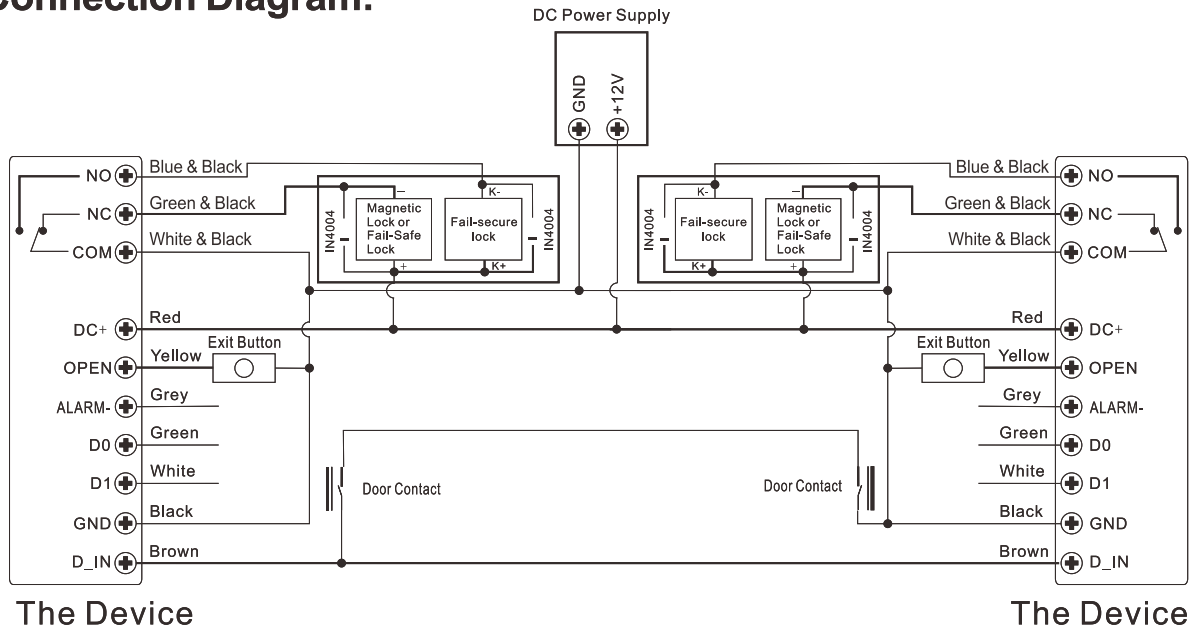
Remarks: The Door Contact must be installed and connected as the diagram.
**Let's name the two Devices as "A "and "B" for two doors "1"
and "2"**

Step 1:
Enroll the users on Device A, then transfer the users' information to Device B by "User Information Transfer" function.

Step 2:
Set both of the two Devices (A and B) to Interlock function

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Disable Interlock **OR** 2. Enable Interlock	9 0 # (factory default) 9 1 #
3. Exit	*

If enable interlock, when and only door 2 is closed, the user can read the valid fingerprint/card or input PIN on Reader A, door 1 will open; then when and only door 1 closed, read valid fingerprint/card or input PIN on Reader B, door 2 will open.

Simplified Instruction	
Function Description	**Operation**
Enter the Programming Mode	**✴ - Master Code - #** then you can do the programming (123456 is the factory default master code)
Change the Master Code	**0 - New Code - # - Repeat the New Code - #** (code: 6 digits)
Add Card User	**1 - Read Card - #** (can add cards continuously)
Add PIN User	**1 - PIN - #** (The PIN is any 4~6 digits except 8888 which is reserved)
Delete User	**2 - Read Card - #** **2 - PIN - #**
Exit from the Programming Mode	✴
How to release the door	
Card User	Read Card
PIN User	Input PIN #