Access control Keypad with Waterproof







Key-W/S

Introduction

Touch/Key-W/S Standard alone access control realize the card reading and keypad operation functions, it supports 125kHz EM, HID cards, 13.56MHz IC and CPU cards(Touch-W, Key-W) and 125kHz EM, HID cards (Touch-S, Key-S)

It controls 1 door, supports up to 2000 users in total, each user have one card and one PIN. The access control unit supports 1 master code, one manager add card, one manager delete card, 1 anti-duress card and 1 anti-duress PIN, providing users with easy operation and safe guarantee.

Features

- Aluminium alloy case, waterproof, fully potted, confirms to IP65
- Metal keypad (Key-W, Key-S) and touch panel (Touch-W, Touch-S) optional.
- Built-in 125KHz (EM, HID card) and 13.56MHz(IC, CPU card, ISO14443A) reader.
 (Touch-W, Touch-S)
- 125KHz(EM,HID card) reader(Touch-W, Touch-S) Digital backlit key (Key-W, Key-S) and touch panel (Touch-W, Touch-S).
- The back light can be set to Normal ON, Normal OFF or Auto.
- With door bell function, build-in or external door bell optional.
- Multi-function, operating as slave reader, single door, anti-pass back function, etc, suitable for various occasions.

Specifications

- Dimensions: 158.6×43×21.7mm(A) 125×83×21.7mm(B)
- Operating voltage range: DC12-24V
- Idle input current: <35mA
- Max proximity card read range: EM&HID card: 3-6cm

IC&CPU card: 2-6cm

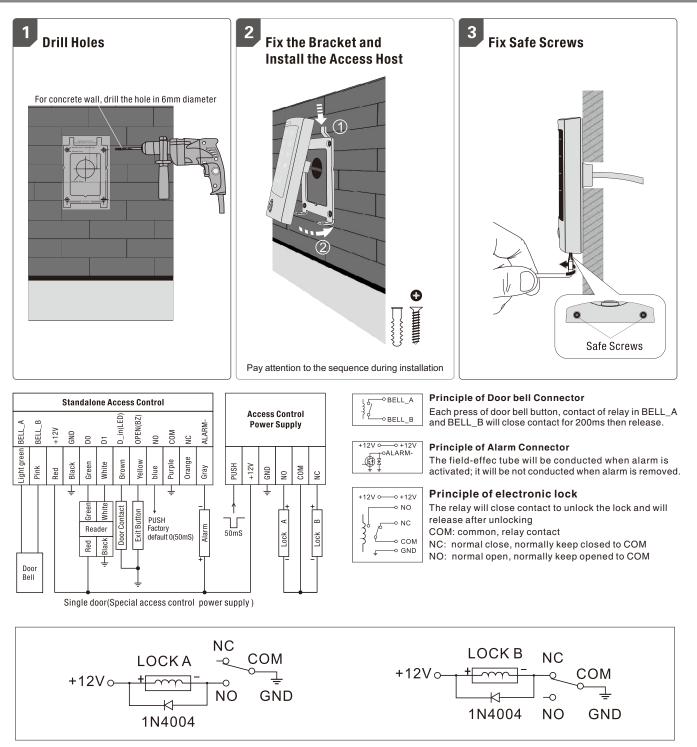
Excitation Frequency: 125KHz and 13.56MHz (Touch-W, Key-W),

125KHz (Touch-S, Key-S)

- Card transmit format: Wiegand 26-37
- Keypad transmit format: 4-6 digits key press to output card number format,

4 bits or 8 bits data.

- Operating temperature range: -40 \sim 60° C(EM&HID card), -20 \sim 60° C(IC or CPU card)
- Operating humidity: 0~95%(non-condensing)
- Weight: 0.5kg(A)/0.4kg(B)



Wiring of electronic lock Connect COM and GND, congnect two ends of electronic lock with +12V and NO (or NC), complete the circuit.

Type A electronic lock: Fail Secure lock(Unlock when power on), such as Electronic Controlling Lock, smart lock, etc.

Type B electronic lock: Fail Safe lock(Unlock when power off), such as Electronic Controlling Lock, Electronic Bolt lock, etc.

1N4004 Diode: prevent high voltage to two ends of the electronic lock while the contact of relay disconnect. Without diode, there will be high voltage pulse interference to circuits and the life time of the relay will be greatly reduced.

1 Add user card(s)(In dual door mode, users can be only added to zone 1) Read manager add card, Read Usercard.Read manager add card

Cards can be added continuously.

2 Delete user card(s)

Read manager delete card, Read User card .Read manager delete card Cards can be deleted continuously.

User Operation

1.To unlock the lock by one card: Read valid card once, the lock will be unlocked. 2. To unlock the lock for card and PIN users

Read valid card once Input 4-6 digits PIN #, the lock will be unlocked.

3. To unlock the lock for card or PIN users

Read valid card Or Input 4-6 digits PIN #, the lock will be unlocked

4. To unlock the lock for multi cards: Read 2-10pcs valid cards (time interval can not exceed 5s), the lock will be unlocked

Precondition: Set the door entry by card only, and set "2-10" for opening the door by multi cards

5. Toggle Mode

In normal mode, Every time a valid card/tag read or PIN input, the replay will operate, for the pre-set replay pulse time.

Every time a valid card/tag read or PIN input in Toggle mode, the relay changes state, which will not turn back until read card/tag or input PIN again.

6. To change the PIN of a PIN user

Read card Input old PIN # Input new PIN # Input new PIN #
Or

* User ID number Input old PIN # Input new PIN # Input new PIN #

Remark:

For users without card, must get ID number and initial PIN from the master. For Zone 1, the first digit of PIN must be "1", for Zone 2, the first digit of PIN must be "2" For the card users with PIN "1234", must use Reading card to change the PIN for the first time.

7. Door Bell

Press the door bell button on the access control unit, the buzzer will sound ring back tone, at the same time, the I box's built-in door bell or the outer door bell will ring. Remark: When the work mode is set in Auto Mode (Factory Default Mode), there will be no ring back tone without the I Box.

Alarm

1. Anti Tamper Alarm

When the access control unit is disassembled illegally, the access control unit's buzzer and the external alarm will operate.

2. Door Status Switch

When connect with door status switch, if the door is opened illegal, the access control unit's buzzer and the external alarm will operate.

3. Anti-duress alarm

When read zone 1 duress card / input 8 digits duress PIN OR zone 2 duress card / input 8 digits duress PIN, then press #, the corresponding lock will open, at the same time,

the external alarm will operate, but the access control unit's buzzer will not operate. 4. **To remove the alarm**

Read valid card or input master code can remove the alarm. If there is no operation, the alarm will remove automatically after 1 minute.

To Reset to Factory Default

Keypad access control (Key-W, Key-S), power off, keep pressing 💌 and power on, the logo will turn in orange after 1 second, release it until hearing two shot beep, then hearing a long beep, enter normal mode, reset to factory default setting is successfully.

Touch panel access control (Touch-W, Touch-S), power off, power on, the logo will turn in orange after 1 second, press within 1 second, release it until hearing two shot beep, then hearing a long beep, enter normal mode, reset to factory default setting is successfully.

Remark: Reset to factory default, the users' information is still retained.

Sound and Light Indication

Operation Status	Logo Color	Buzzer
Standby	White	
Press Key		Short Ring
Read Card	Green	Long Ring
Unlock the lock	Green	Long Ring
Operation Successful	Green	Long Ring
Operation Failed		3 Short Ring
PIN Inputting	Slow Flash Red	
Card & PIN Reading	Slow Flash Red	
Multi Card Reading	Slow Flash Red	
1 st Menu	Slow Flash Red	
2 nd Menu	Slow Flash Orange	
Under Setting	Orange	
Manager Card Reading	Orange	2 Short Ring
Manager Card Exit	White	Long Ring
Alarm	Quick Shine in Red	Alarm
Ring-back Tone		Ding-Dong

Master Setting

Logo LED Light indication		Remarks	Functions
White logo	Red logo LED flash	Factory default :	To enter the
*	6-8 digits Master code #	888888	programming mode

Enter Master Operation Mode. it will return to normal mode if there is no right Master PIN input in 5 seconds. After input of right master PIN, it will also return to normal mode if there is no valid operation in 30 seconds. press"#" to confirm the input number, return to previous menu by press"*", the logo light will indicate the operation mode.

Note that to undertake the following programming, the master user must be logged in 1.Basic Operation

	Basic Operation		
Red Flash	Orange	Functions	Remarks
0	6~8 digits new master code # Repeat 6~8 digits new master code #	Factory default : 888888	Change the master code

	Read card 1-2000(ID), #, read card	1. The user ID number is any number among 1-2000. 2. Card number must be 8 or 10 digits, if the		
1	8 or 10 digits card number [®] # 1~2000(User ID number), #, 8 or 10 digits card number #	 2. Card number must be 8 of 10 digits, if the card number is less than 8 or 10 digits, input 0 before the card number 3. User can be added continuously without exiting programming mode 	Rotate Operation [®] To add card users [®]	
	1~2000(User ID number), # ,4~6 digits PIN ,#	To add PIN users		
	Read card	Delete energy		
2	8 or 10 digits card number , #	Delete one card	Rotate Operation	
	1~2000(User ID number), #	Delete one user		
2	0000, # (Note: This is a dangerous option, so use with care)	Delete All users		
	0,#	Entry is by Card only		
3	1,#	Entry is by Card and PIN together	To set	
	2,#	Entry is by either card or PIN (Factory default setting)	open way	
4	0, #	To set door relay time 50mS	Factory default	
4	1-99, #	To set door relay time 1-99S	setting: 50mS	

Note:

- ① 8 digits card number, such as: 118, 32319, some cards has no mark of the first 3 digits 118, remains 32319, it requires to add card by read card, adding cards by input card number is not acceptable; 10 digits card number, such as 0007765567, some cards has no mark of the first 3 digits 000, remains 7765567, requires to input 10 digits 0007765567 by add 000 before 7765567.
- ② A PIN 1234 is added for a card, it can not be used to unlock the lock, can be used to change PIN.
- ③ After one card is added, you can continue to add other cards or PIN without exiting the mode 1.

2 Advanced operation:

	Advanced Application			
Red Flash	Orange Flash	Orange	Functions	Remarks
	1	Read card	Set add card	To add card user
	2	Read card	Set delete card	To delete card user
	3	Read card	To set duress users	To set duress user
	4	8 digits duress PIN,#	To set duress PIN	To set duress PIN
	_	0, #	Automatic mode (Factory default)	Relay setting
6	5	1,#	Set Zone 1as Auto-lock switch ①	nelay setting
	6	1-10, #	Factory default setting :1	To set open door by multi cards②
	7	User ID number # card number # card quantity #	The card number must be consecutive Card quantity is between 1-2000	To add a series cards users. ③
	9	1	Administrator open door 1	Exit automatic ④
			System Setting	
	0	1-15, #	Factory default setting: 0	To set facility code
		0, #	Wiegand reader mode	
	1	1,#	Standalone for single door (Factory default)	To set working mode
		5,#	Anti-passback for single door	
	2	26-37,#	(Factory default setting: 26)	To set Wiegand format
7		0,#	4-6 digis key press sends card number	
	3	1,#	Each key press sends 4 bit output data (Factory default)	To set keypad transmission format
		2,#	Each key press sends 8 bit output data	

		0,#	Close Alarm (5)		
	4	4 1-3, #	1-3, #	Alarm time is 0-3 minutes for option (Factory default 1 minute)	To set Alarm
	1	•	Opeional Setting		
1	-	0,#	Indicator light OFF 6	To opt logo LED light	
	I	1,#	Indicator light ON (Factory default)	To set logo LED light	
	0	0,#	Disable buzzer ⑦		
2	2	1,#	Enable buzzer (Factory default)		
		0,#	Disable keypad backlight		
	3	1,#	Enable keypad backlight (Factory default)		
		2,#	Auto mode ®		
8		0,#	Disable anti tamper alarm (Factory default)		
	4	1,#	Enable anti tamper alarm		
		0,#	No keypad lockout or alarm (Factory default)		
	5	1,#	In 10 minutes, if there's 10 times invalid card or wrong password, the device will lock on for 10 minutes.		
		2,#	In 10 minutes, if there's 10 times invalid card or wrong password, the device will alarm.		

Remark:

① Every time a valid card/tag read or PIN input in in Toggle mode, the relay changes state, which will not turn back until read card/tag or input PIN again.

② The door will open only when read the valid card quantity up to the quantity set. It is only for Card Only mode.

③ The card number must be consecutive, Card quantity is between 1-2000.

④ After unlocking, enter the normal working state.

⑤ After closed the alarm, anti tamper, anti-duress and door magnetic alarm are invalid.

⑥ Refers to static state, normal indication according to operation.

⑦ Enter the administrator password correctly, the buzzer alarm in the normal phonation.

- ⑧ Each key press or read card, keypad backlight will light 30S delay after the close, in close state, the first key is just to start the keyboard light, no any function.
- ③ 10 times consecutive errors including: enter an invalid master code, user password, or anti-duress or invalid card.

INSTALLATION

