

K6S access control



1.Product overview

1.1Product brief

This product uses high strength ABS plastic frame, Proximity card (EM card, also known as ID card) or password to open the door, built-in highly integrated microcontroller, simple circuit, safe and reliable, economical and durable, suitable for office, villa etc.

1.2 Features

- > 1000 user cards bound with 1000 user passwords, and the user can modify password by himself;
- > Opening door modes: card, card + PIN, card or PIN, PIN.
- > Opening time: 50mS, 1-98 seconds for normal mode, 99 seconds for switch mode;
- > Relay mode: release when normal or suction when normal; Built-in high-current MOS tube can directly drive the electric lock, and can resist strong magnetic unlocking;
- > Safe mode can be set: 10 times invalid card or password will automatically lock the machine for 10 minutes;
- > Can connect with an exit button, convenient to open the door from inside.
- > External doorbell: There is a doorbell button on the panel.

1.3 Functional component



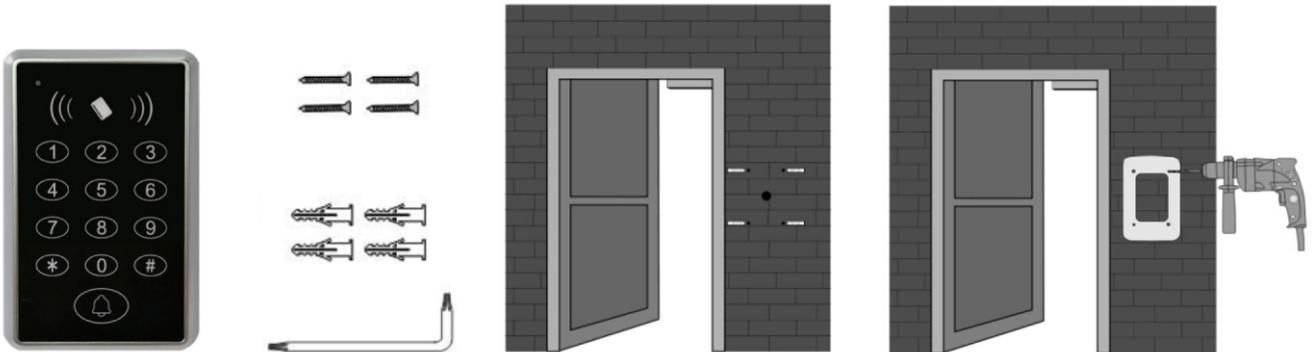
1.4 Technical parameters

- > Working voltage: DC12±2V
- > Static current: ≤20mA
- > Operating current: ≤100mA
- > Drive electric lock current: ≤3A
- > Working environment temperature: -20~50°C
- > Working environment humidity: 0~95% (no condensation)
- > Maximum card reading distance:5cm

2.Installation, wiring and Debugging

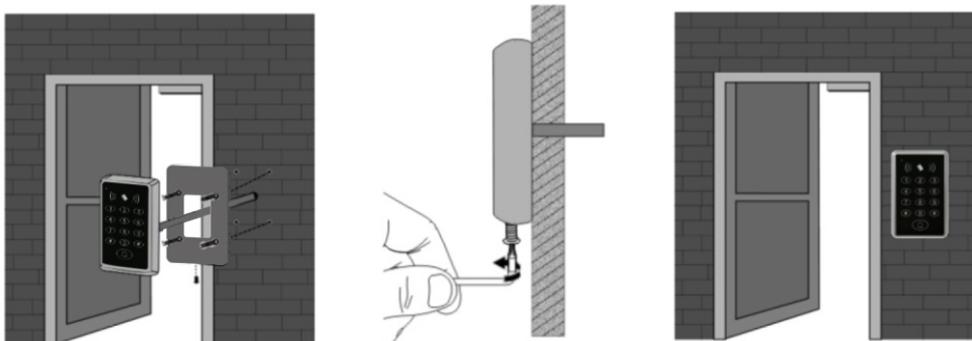
1.1 Installation

Unscrew the bottom of the product with a screwdriver, remove the back case of the product, then according to the opening position of the back case, use the impact drill to open the corresponding holes on the wall, including a wire outlet hole with diameter larger than 8mm, and four plastic expansion screw holes with diameter of 6mm, then insert four matching plastic expansion screws, and fix the back case to the wall with four matching self-tapping screws. As shown below:



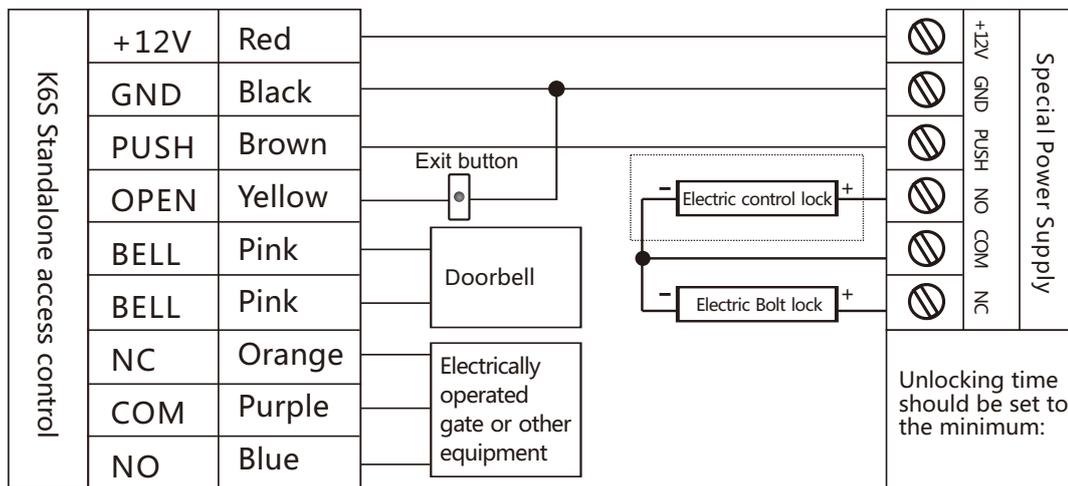
1.2 Wiring

According to the selected wiring diagram, connect the four lead wires to the system cable one by one, and then insert one end of the plug into the 4P socket of the access control, taking care not to short circuit, otherwise the power may be burned out. After the check is correct, briefly power on to test if the indicator light is normal, and if the buzzer will beep once, if not please cut off the power immediately, and check the wiring again. After checking, install the front case of the product to the bracket on the wall, fasten with anti-temper screw. As shown below:



The correspondence between the color of wire and their function:

Order	Mark	Colour	Function
1	+12V	Red	Positive of power supply
2	GND	Black	Negative of power supply
3	PUSH	Brown	Low level unlock signal output
4	OPEN	Yellow	One end of the exit button
5	BELL	Pink	One end of doorbell button
6	BELL	Pink	The other end of doorbell button
7	NC	Orange	Door strike relay NC
8	COM	Purple	Door strike relay COM
9	NO	Blue	Door strike relay NO



Electric control lock:K6S door opening time should be set 50mS

Electric Bolt lock: K6S door opening time shoule be set 5S

2.3 Debug

Turn on the power supply and test according to the instructions. The debugging will be completed until the lock can be opened correctly by reading card, password and exit button.

3.Basic functions

Operating conventions:

- > A long sound "Di-" indicates correct operation. Three short sounds "Di Di Di" indicate wrong operation. The indicator light flash in green indicates correct operation.
- > # indicates confirmation, normally used after pass word, ID number, or parameter, indicating that the input is complete.
- > * indicates cancel the current operation or return to the previous menu.
- > The management menu is fixed to 1 digit from 0-6, cannot press key # after it. After entering setting menu, the indicator light turns orange.

- > In administrator mode, it will automatically exit to standby state if there is no operation within 30 seconds.
- > In non-administrator mode, it will automatically exit to standby state if there is no operation within 5 seconds.

Light and buzzer indication:

Operation status	Light color	Buzzer
Standby	Red	
PIN inputting	Red flash	
Card & PIN reading	Red flash	
Enter into programming mode	Red flash	
Enter menu setting status	Orange	
Successful operation	Green	A long sound
Unlock the lock	Green	
Press number key		A short sound
Press *		A short sound
Failed operation		Three short sound

3.1 Enter into programming mode

* administrator code #

888888 is the default factory administrator code. It is fixed to 6 digits.

For example, press *888888* to enter into programming mode.

Must enter into the programming mode first before undertake the following programming.

3.2 Change the administrator code

Press 0 new code # new code #

For example, change administrator code to 999999, press 0 999999 # 999999#

3.3 Add card user

Below 3 methods to add a card user, the ID number range is 0-999, the user password is fixed to 6 digits, and it can be operated continuously. Press * to exit the add user menu.

3.3.1 Fast way to add card user

press 1 read card ... *

For example, continuous add 3 cards. Press 1, read card, read card, read card *

3.3.2 Specify ID number to add a card

Press 1 ID number # read card ... *

For example, continuously add 3 cards with ID number as 1,2,3

Press 1 1#read card 2# read card 3#read card *

3.3.3 Specify ID number to add a user password

1 (ID number) # (user password) # ... *

For example, consecutively set 3 passwords with ID numbers 4, 5, and 6: 14#444444#5#555555#6#666666#*.

3.4 Deleting users

There are three ways to delete a user, where the ID number ranges from 0 to 999, every ID number corresponds to a card or password, and the deletion ID number indicates that a card or a password is deleted, and the operation can be continued. Press the * key to exit the delete user menu

3.4.1 Quickly delete the card

2 swipe card ... *

For example, delete 3 cards in succession: 2, swipe card, swipe card, swipe card, *

3.4.2 Specify ID Number to Delete Card or Password

2 (ID number) # ... *

For example, consecutively delete three users with ID numbers 1, 2, and 3: 2,1#2#3#*.

3.4.3 Deleting all users

2 0000 # *

3.5 Setting the door opening method

3 0 # Open the door by card.

3 1 # Open the door by card plus password.

3 2 # Default value, open the door by card or password.

3 3 # Open the door by password.

For example, set the card plus password to open the door: 3,1#.

3.6 Setting the door opening time

4 0 # Default value, the door opening time is 50 milliseconds.

4 (1-98) # the door opening time is 1-98 seconds.

4 99 # Set the machine to switch mode, that is, change the lock status every time the door is opened.

For example, set the door opening time to 5 seconds: 4,5#.

Note: The 50-millisecond door opening time is suitable for the electric control lock or the access control special power supply. The switch mode is suitable for the normally open normally closed door.

3.7 Set relay mode

Relay mode: release when normal or suction when normal;

External doorbell: There is a doorbell button on the panel.

5 0 # Default value, when normal the relay is in release state, and the output of the PUSH terminal is high level. When the lock is unlocked the relay is in suction state, and the output of PUSH terminal is low level.

5 1 # when normal, the relay is in suction state, and the output of the PUSH terminal is low level. When the lock is unlocked the relay is in release state, and the output of the PUSH terminal outputs is high level.

For example, set when normal the relay is in suction state: 51#

3.8 Setting the security mode

6	0	#
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 Default value, set to normal mode

6	1	#
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 Set to lock mode. When the invalid card, user password or administrator password is continuously tried 10 times, the machine will be automatically locked for 10 minutes.

For example, set the security mode to lock mode: 6,1

3.9 Exit from the programming mode

In the programming mode, press * key several times, until the indicator light turns red (constantly).

3.10 Change user's password

3.10.1 Change password by card

*	Swipe user card	(Old user password)	#	(New password)	#	(New password)	#
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For example, Change user password by card: *,Swipe user card1234#123456#123456#

Note: When changing password by ID number, the old user's password can be initial password 1234, but the new password can only be 6 digits.

3.10.2 Change password by ID number

*	(ID number)	#	(old code)	#	(new code)	#	(new code)	#
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For example, change user's password by ID number, *1#123456#111111#111111#

Note: when changing password by ID number, the old user password cannot be initial password 1234.

3.11 User to open the door

Swipe the card, or enter 6 digits user's passwords, or press the Exit button

Note: No pressing # key after entering the password reduces frequency of using # key and greatly improves the service life of # key. When opening the door, there will be a long sound of "beep" and the indicator light will turn green during unlock. When the opening mode is card + password, the interval between swiping card and enter the password cannot exceed more than 5 seconds.

3.12 Reset To Factory Default Setting

When administrator code is forgotten, or after user randomly adjust various parameters, you can return to the normal situation by resetting to factory default setting. The operation is as follows: Power off, press * and hold it, then power on, release it until hear two beeps, the administrator code will revert to 888888.

And the machine parameters are reset to factory default settings, details are in the "Programming mode operation summary table", the user's card and password won't be deleted.

4. Programming mode operation summary table

Enter programming Mode: *(6 digits administrator code)#			
Menu	Parameters or operation steps	Function	Default
0	(new administrator code) #,(new administrator code again)#	Modify administrator code	888888
1	*read card,...,*	Quickly add user card	
	(ID number)#, read card,...,*	Add user card with ID number.	
	(ID number)#(user pin)#,...,*	Add user pin with ID number.	
2	read card,...,*	Quick delete card	
	(ID number)#,...,*	Delete card or PIN with ID number	
	0000#, *	Delete all the users	
3	0#	Entry by card	2
	1#	Entry by card with PIN together	
	2#	Entry by card or PIN	
	3#	Entry by only PIN	
4	0# to set door relay time 50ms	To set door relay time 50ms	0
	(1-98) #	To set door relay time 1-98s	
	99#	To set the switch mode	
5	0#	Set to normal release state of relay	0
	1#	Set to normal suction state of relay	
6	0#	To set normal mode	0
	1#	To set lock mode	

5.Simple Troubleshooting

Fault phenomenon	Fault Cause	Reason & Solution
Unusual Indicator light	Power voltage too low or too much interference	Change to high quality power supply, cable or restoring power
No response	Continuous swipe in lock mode or input the pin code more than 10 times	Restoring power or wait for 10 min.
Abnormal unlocking	Relay mode setting is incorrect	Set mode according to different requirement
	Wrong wiring	Follow the right way of wiring
Can't enter administrator mode	Make sure the red indicator light normally on before press *	Follow the right operation way
	Forget the administrator code	Factory reset
Can't enter by card	Have set the opening mode as by PIN	Set the right open mode
	Too much interference of power or power voltage too low	Change to high quality power supply or cable
Can't enter by PIN	1. Need to set the PIN first, master setting or users change the 1234 to new 6 digits PIN by themselves	Set or change the user PIN code
	2. Input the wrong PIN code	Input the right PIN code
Number key invalid	Have set the opening mode as by card only or card & PIN	Set the right opening mode