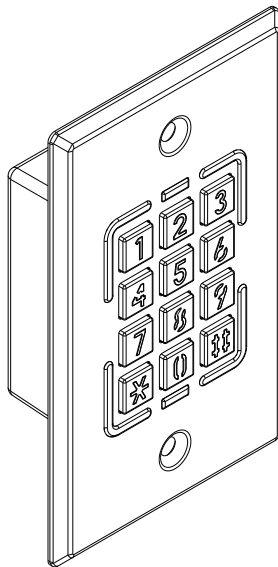
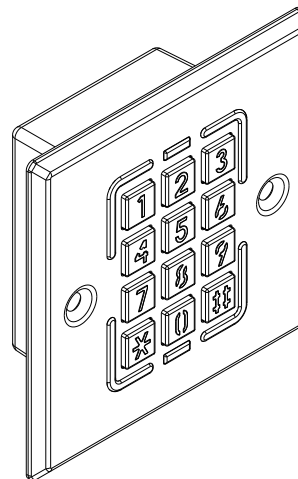


ST-200 Series
Stainless Steel Proximity
Access Control System
Installation Manual



ST-226



ST-228

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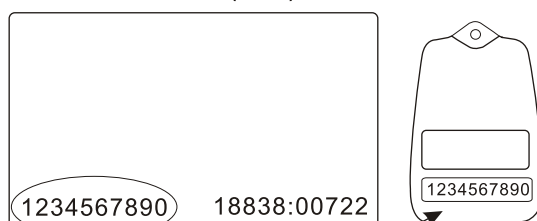
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Special Features

1. Waterproof proximity reader with #304 stainless steel panel and luminous buttons which glow .
2. Embedded type of installation to prevent rough surface of the wall which may cause damage to the unit.
3. ST-226 ANSI style box, ST-228 British style box.
4. Panel's red LED indicator, POWER light and luminous buttons are on with one beep sound when it is installed and power is on.
5. Standalone proximity, single card number entering or bath entering to enter.
Cards are distributed before use.
6. Anti-tamper design and alarm will activate when the unit is tampered or move with force.
7. Adding or deleting specific card.
8. Door opening time can be set between 01-99 seconds. Setting 99 seconds as normal output for anti-theft unit.
9. Four sets of door opening modes:
 - (1) Enter 4-digit password, mode number is 1.
 - (2) Proximity card door opening, mode number is 2.
 - (3) Proximity card and 4-digit password (total of 8 sets of door open password), mode number is 3.
 - (4) Proximity card or 4-digit password, mode number is 4.
10. System password (default system password is 4567) is required to enter system setting modes to set any system setting functions. Enter * # before system password and then # to enter system setting modes (for example , * #4567).
11. All proximity cards or key tags have to be registered before use.
12. All proximity cards or key tags have 8-digit card numbers.
(Use only the last six numbers)
13. 8 set of different door opening password to integrate with proximity card.
14. Maximum capacity of 1000 cards.
15. Use fo special memory, data will be kept for permanent even power cut occurred.
16. Power supply: DC 12V. Power consumption: 80mA (Standby), 110mA (Active).

*Card number in the back of the card.

125KHZ(EM)



Card number

Example of the card:

The last 6-digit number of 1234567890 is 567890.

Front Panel And Types Of Cards

FRONT PANEL

⊙Power Indicator Light:Standby (Red),Corret(Green).

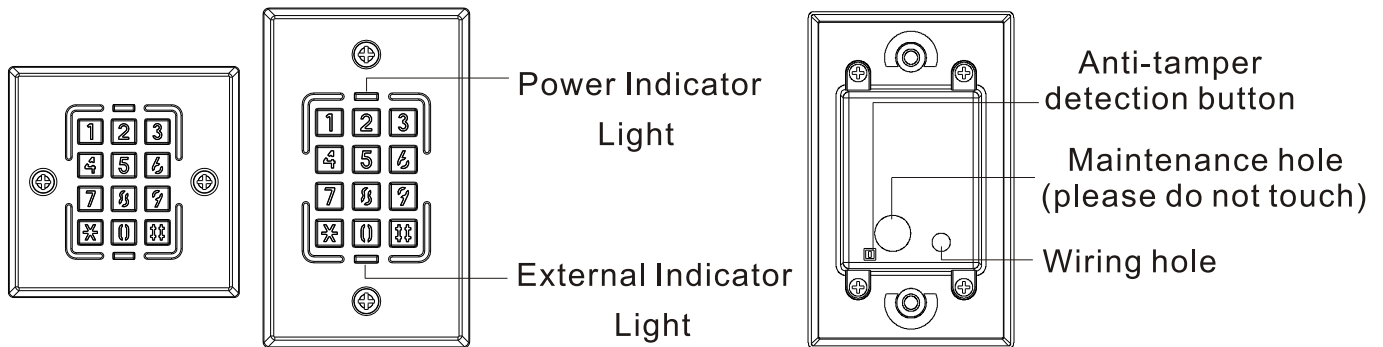
⊙External Indicator Light:Activate-low(Orange).

⊙Luminous keypas:Standby (Blue light is on)

10 entry (buttons),two function keys:"#&"*".

:Confirmation key (ENTER).

*: Clear or escape key (CLR/ESC).



Series model

ST-226:125KHz Em, ANSI style (115*70mm).

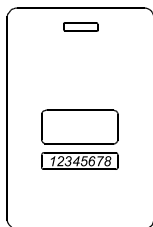
ST-228:125KHz Em, British style (86*86mm).

Types of proximity card



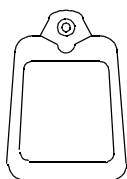
SC-10:

Thin card , thickness of 0.8 mm, ISO standard card dimensions. It can be printed directly from card printer. Read range : 2cm



SC-20:

Thick card , thickness of 1.78 mm, ISO standard card dimensions. Read range : 2cm

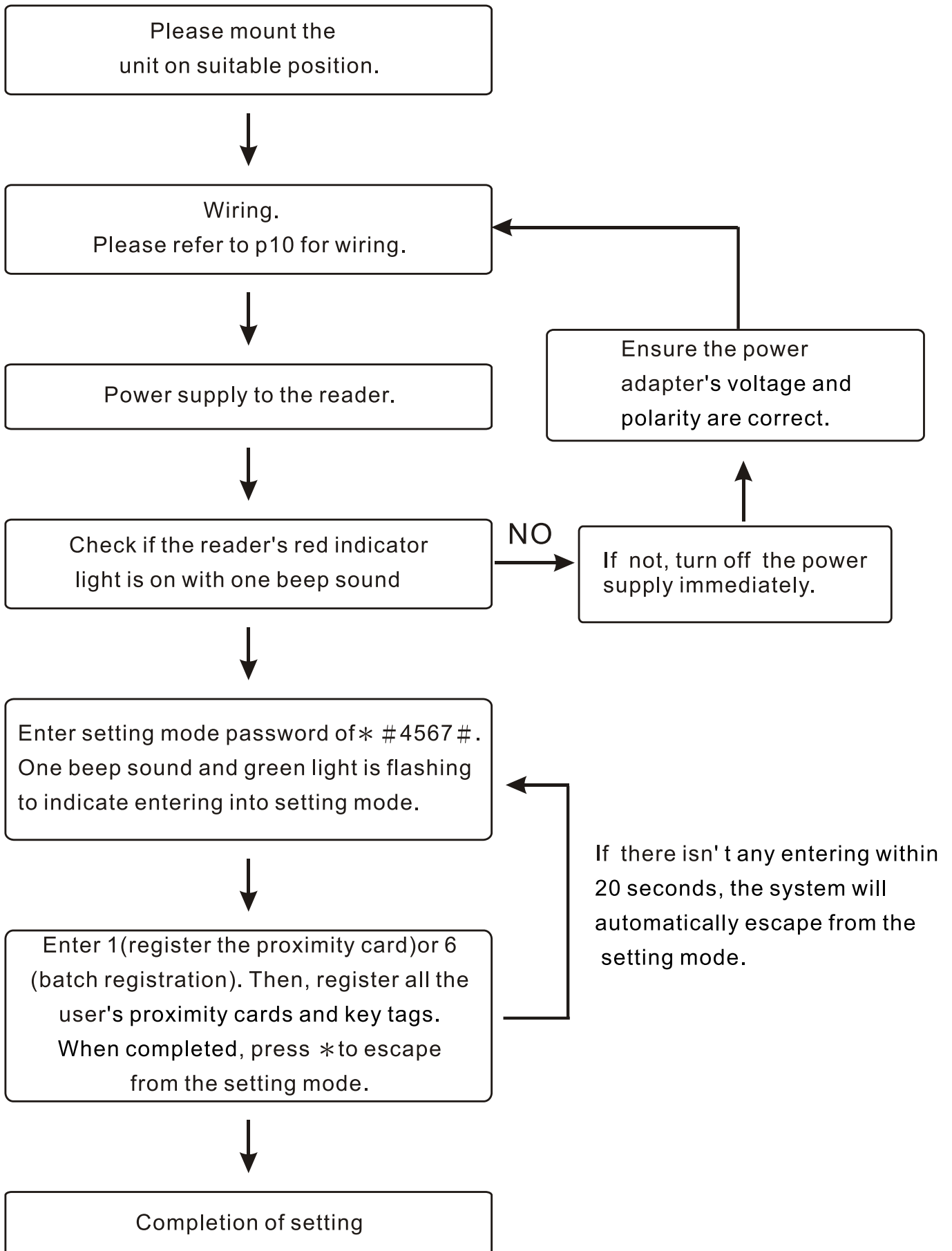


SC-30:

Key tag, dimensions: 5.1L X 7.8H X 3.2W (mm). Ultrasonic connection, waterproof, shockproof. Read range : 1cm

The above read range stated is for reference and it varied according to different environment it is used .

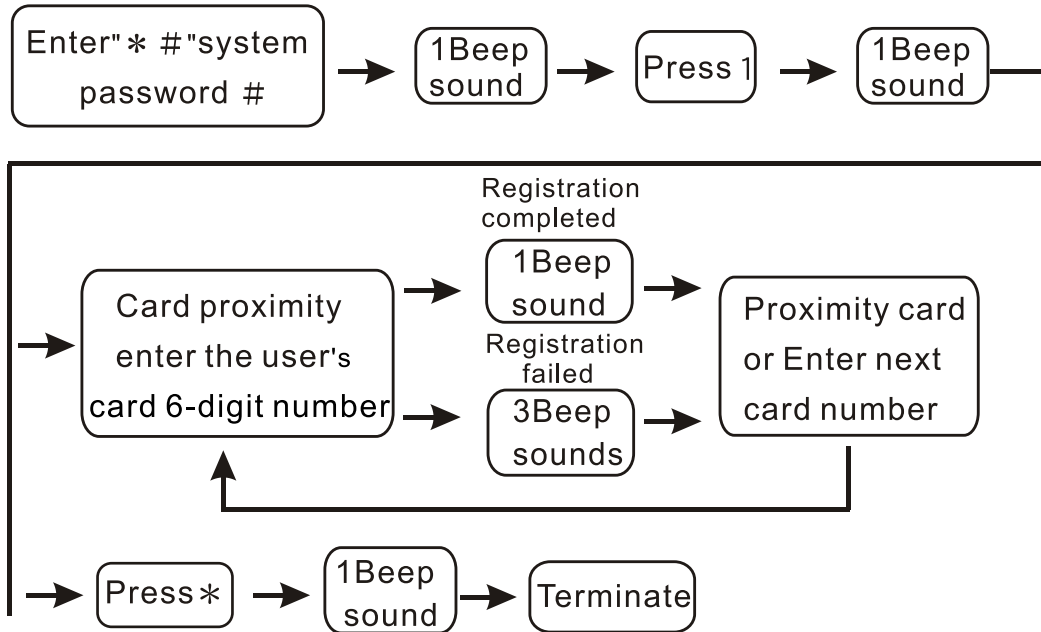
Installation Procedures



Setting Modes And Functions

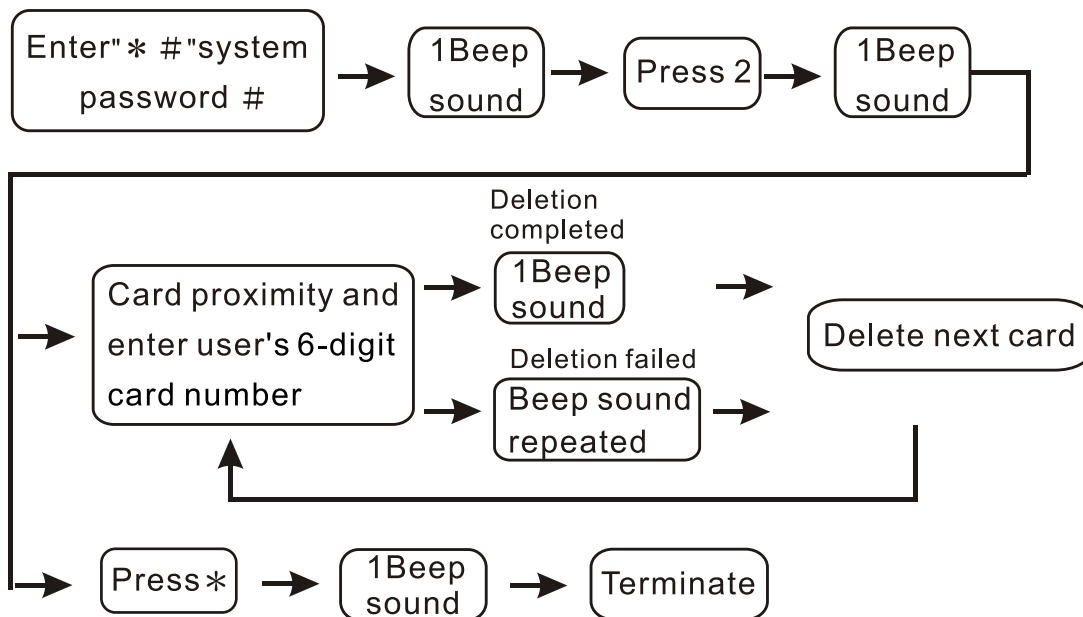
System password (default system password is 4567)is required to enter system setting modes. The reader will send a beep sound to indicate entering system setting modes. If there isn't any action or entering within 20 seconds, the system will automatically escape from the setting mode.

1.Add one card: To register users card and utilize proximity to register.



If * is being pressed, during the procedures, the card registration will be terminated.

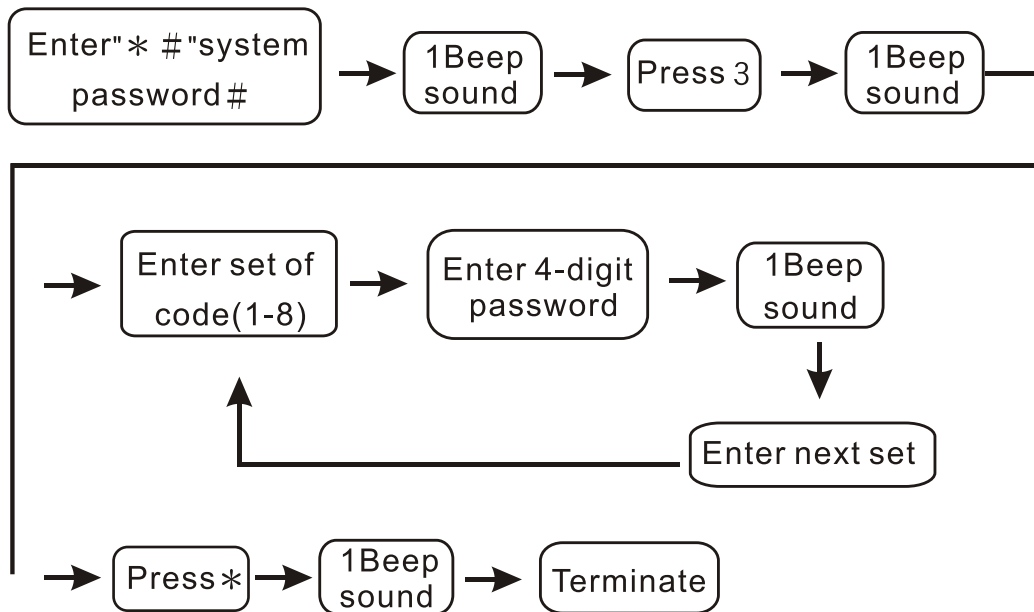
2.Delete card: Deletion of user's card (such as loss of card). Card number is the 6-digit number indicated on the proximity card.



If *key is pressed during the above procedures:

- (1) Deletion of card function will terminate when no card number is entered.
- (2) Re-enter card number when card number is already entered.

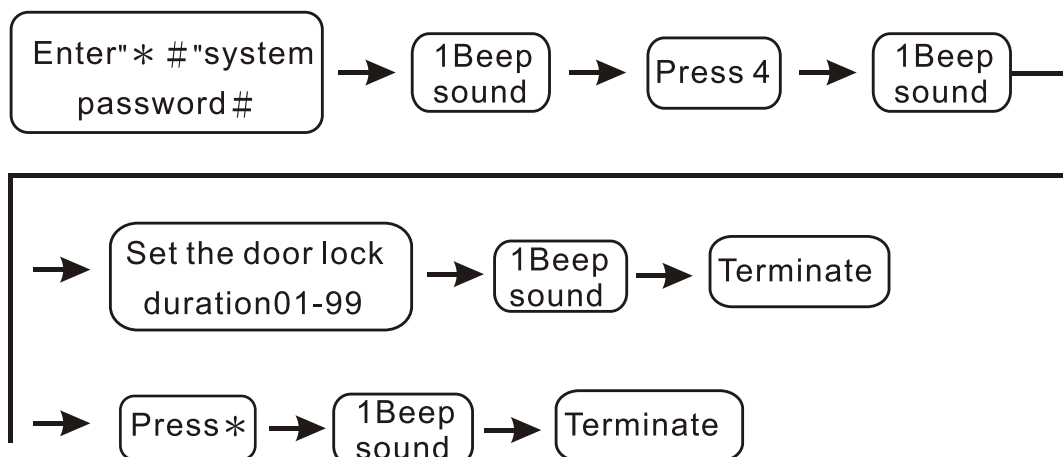
3. Change of 8 sets of user's password



If * key is pressed during the above procedures:

- (1) Re-enter the set of password when number of set of password is not entered.
- (2) Re-enter 4-digit password when number of set of password is entered.

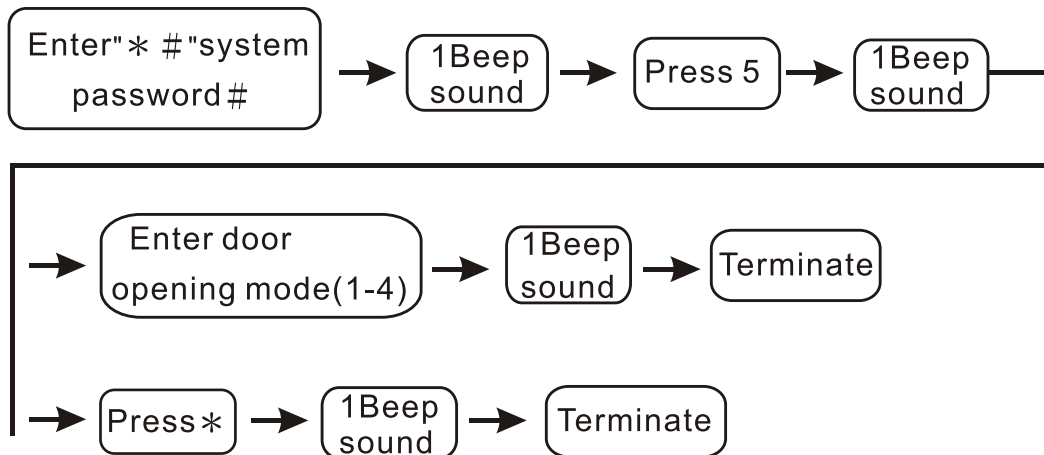
4. Door lock time setting : Setting door lock time from 01-99 seconds. All time setting is in 2-digit manner such as enter 01 for 01 second. Setting 99 seconds as normal state (suitable for security system) and 00 second as single punch (suitable for automatic door).



5 · Setting identification modes:

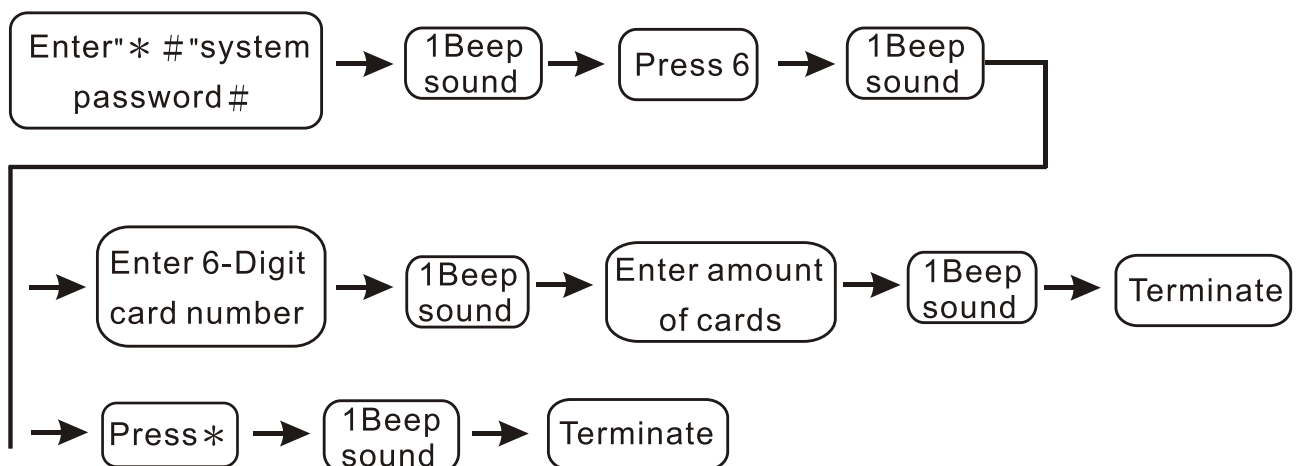
There are 4 sets of door-opening modes. Users could only set one of the door-opening modes for access control. Default door opening mode is proximity card door-opening.

- (1) Enter 4-digit password (There are 8 sets of door opening password), mode number is 1.
- (2) Proximity card. Door opens when the card is sensed, mode number is 2.
- (3) Proximity card and enter 4-digit password, mode number is 3.
- (4) Proximity card or enter 4-digit password, mode number is 4.



6. Batch registration: Registering multiple cards and cards in series.

Enter 6-digit card number, then enter amount of cards in 4-digit manner (must be in full 4 digits, such as 100pcs, enter 0100).



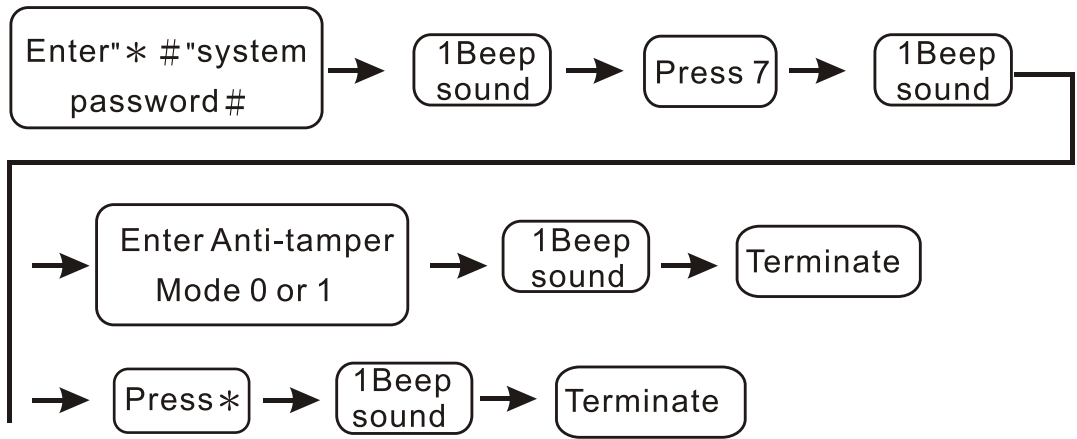
If * key is pressed during entering card number:

- (1) Terminate Batch Registration function when nothing is entered.
- (2) Re-enter card number again when card is entered.

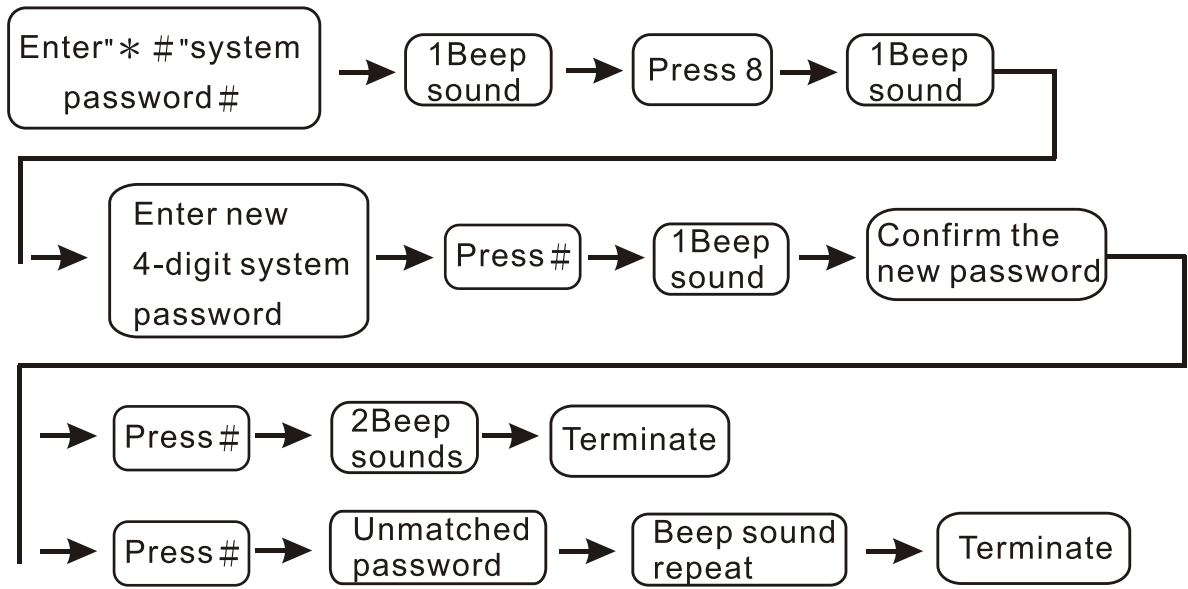
If * key is pressed during entering amount of cards:

- (1) Re-enter card number again when amount of cards is not entered.
- (2) Re-enter 4-digit amount of cards again when amount of cards is entered

7. Anti-tamper output setting: 0:ON 1:OFF



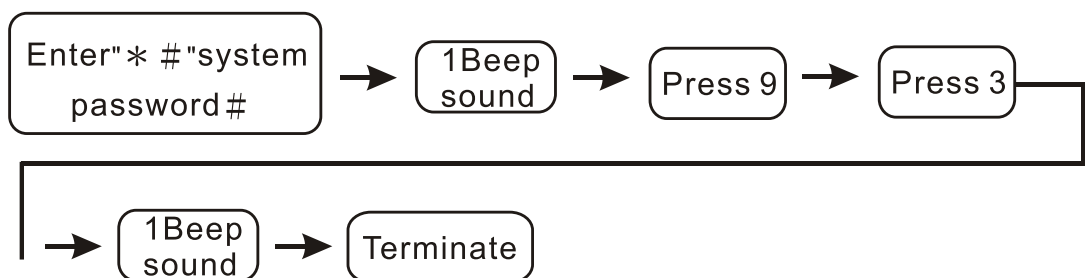
8. Change system password: Default system password is 4567. Please remember the default system password or else user is unable to enter system setting mode.



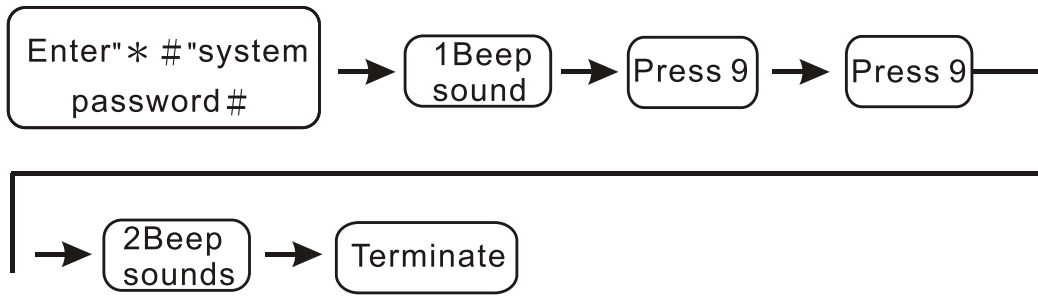
Press * key when no number is entered during the procedures will terminate Change System Password function.

Re-enter the new password again when * key is pressed during confirmation of the password.

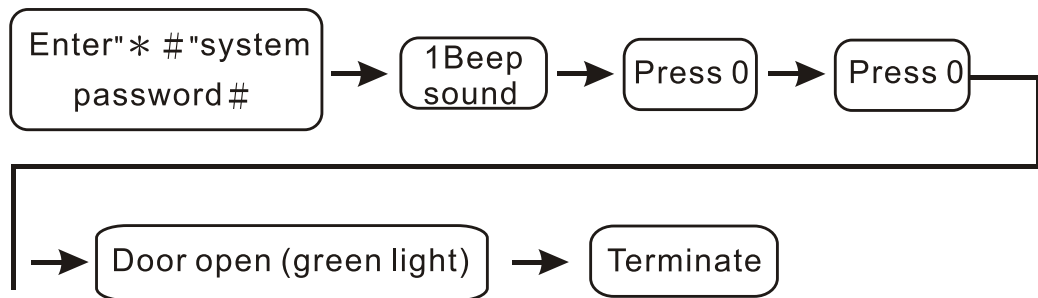
9. Deletion of 8 sets of user's password: Please note that this function will delete all the 8 set of user's passwords and cannot be retrieved.



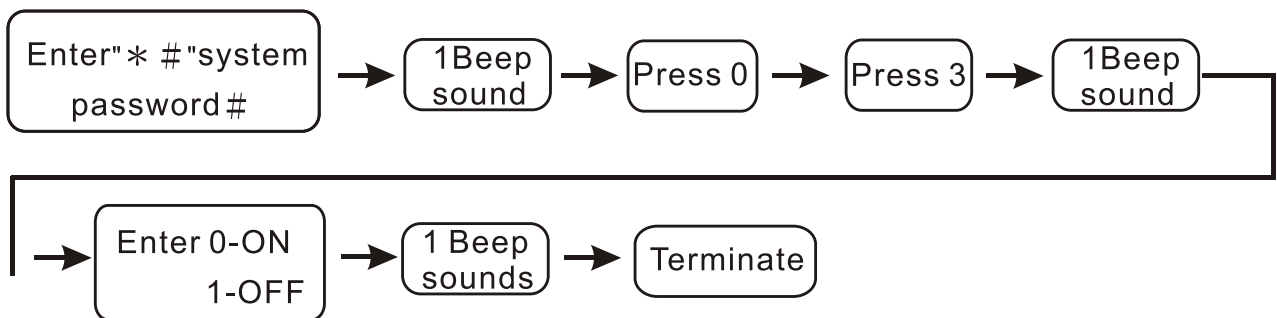
10.Delete all cards



11.Use of system password to open door

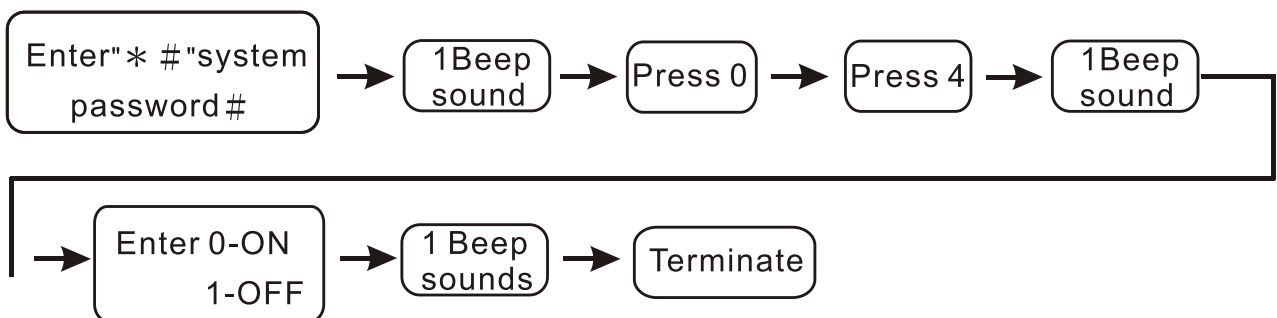


12.Reader alarm setting: 0 as ON(Enable), 1 as OFF(Disable).



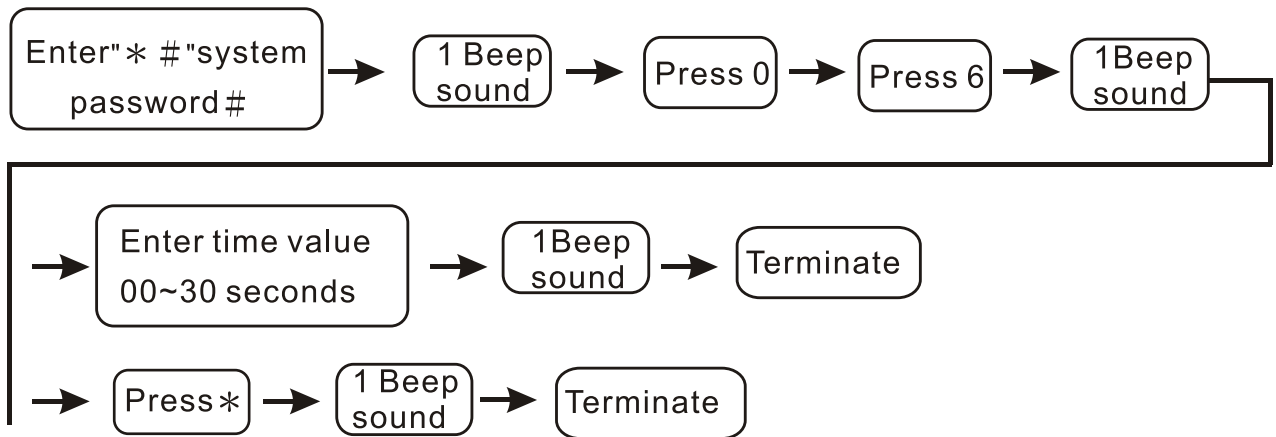
Note: Reader alarm as Toggle mode.

13.Incorrect password alarm setting:0 as ON(Enable),1 as OFF(Disable), default value as 1.

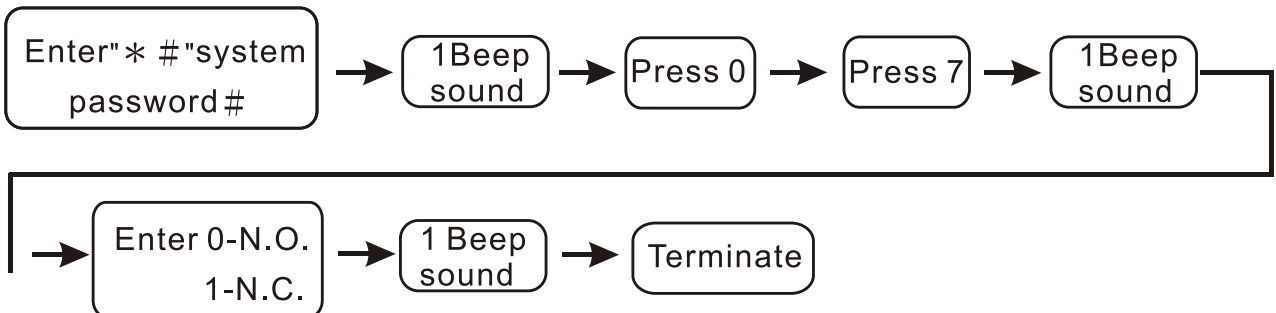


3 consecutive of incorrect password or system password enterings will activate alarm and temporarily disable for 20 seconds.

14. Door detection time setting: Time entering within 30 seconds. Default value as 5 seconds.

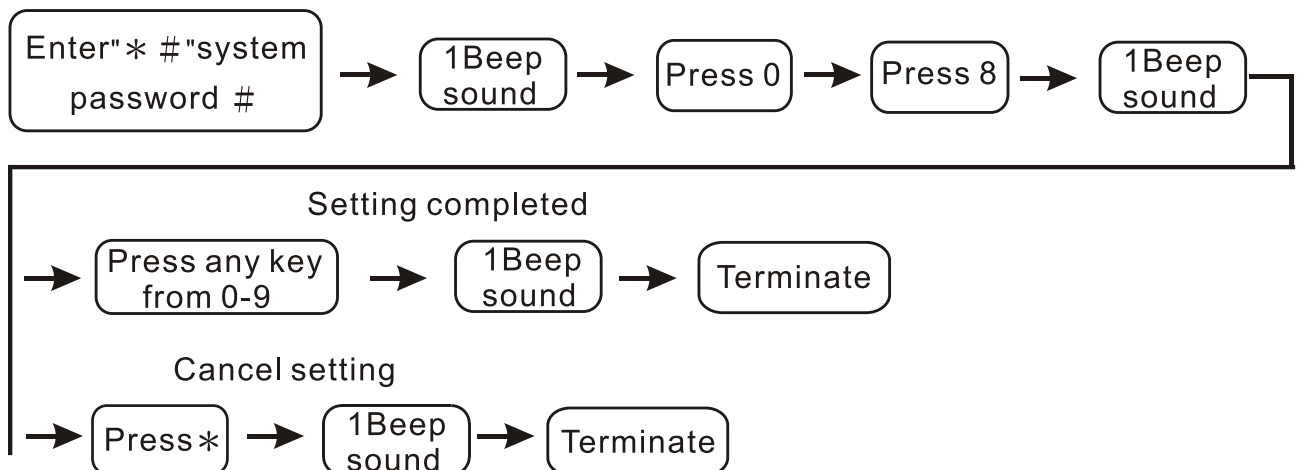


15. Types of door detection: 0 as N.O. Type, 1 as N.C. Type, default value as N.O. Type.



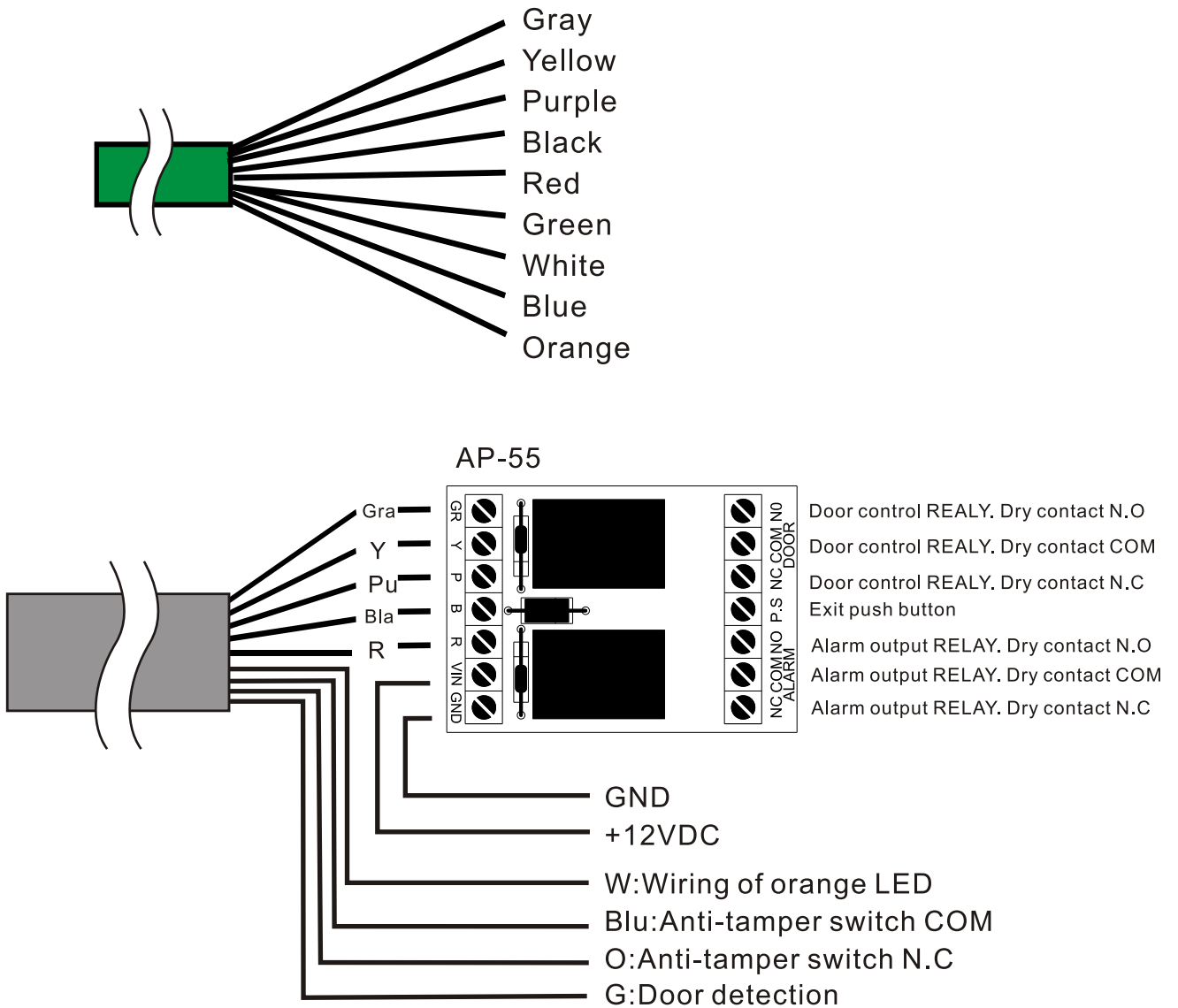
P.S Door detection must be installed if it is set as N.C.

16. Add anti-duress function



Installation of proximity reader

1.Reader connections



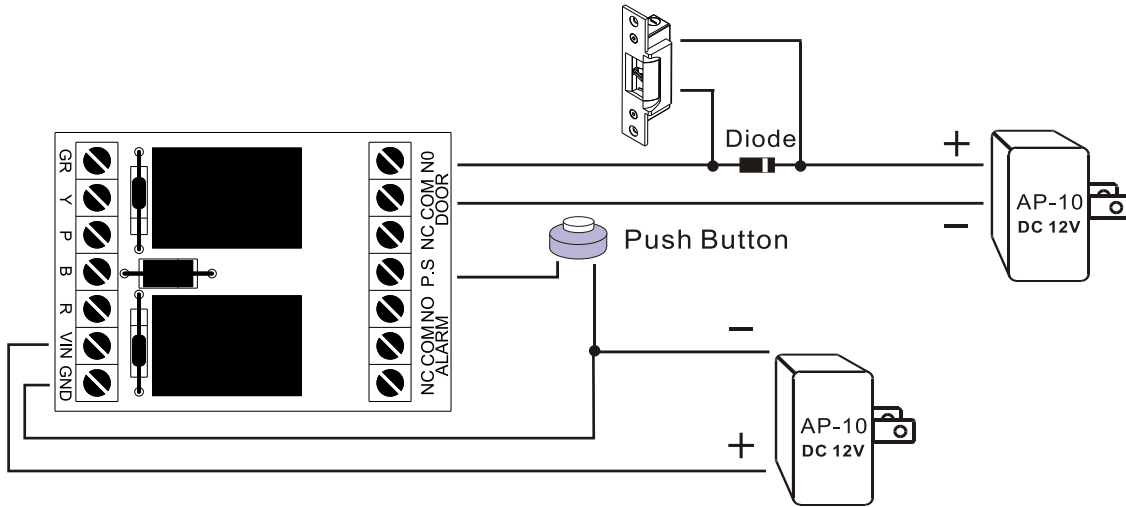
P.S. Door open and Alarm relay contact 1A/30VDC or 3A/24VDC.

2. Reader's external RELAY and Electric lock's wirings:

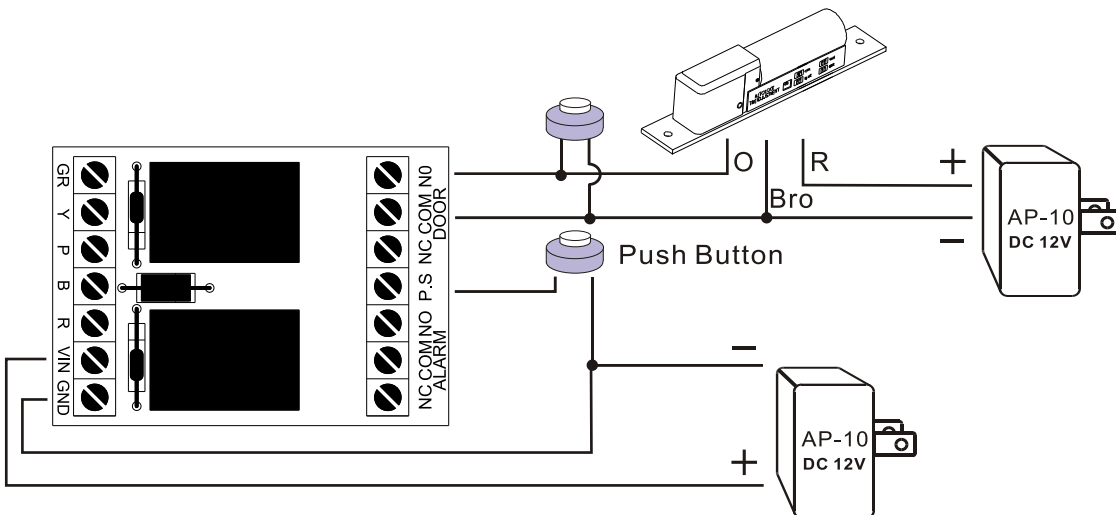
Different wiring for different electric lock. There are two types of wiring as below:

A. "N.O" connector (please use JUMPER to adjust)

Suitable for: Fail-secure electric lock or any electric lock that requires N.O Connector.
 Example: Fail-secure strike lock (use of N.O point to trigger).

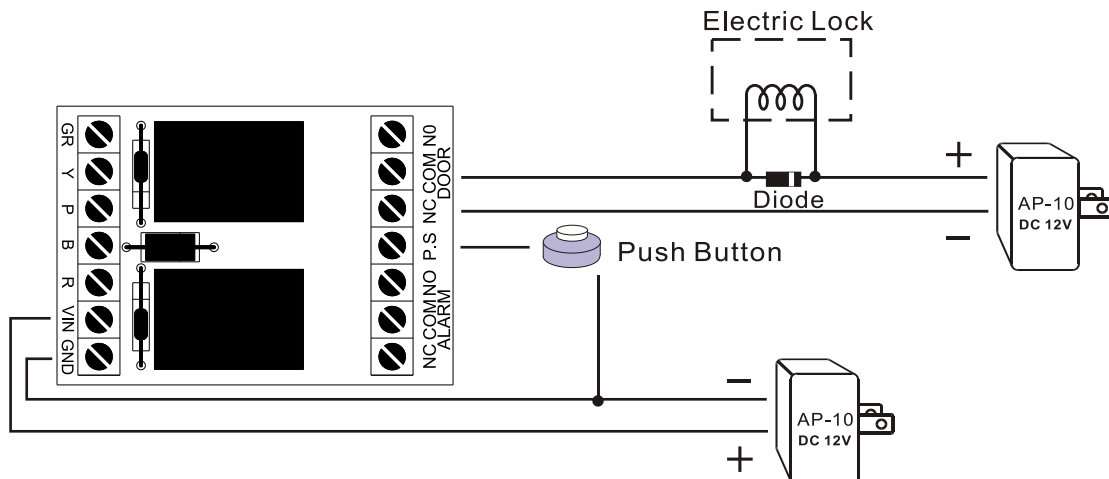


Connect electric lock with N.O. points. Connect its power to 12V.

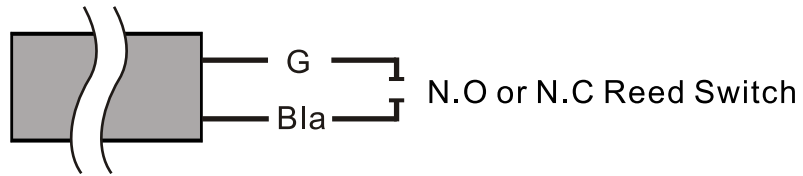


B. "N.C" Connector (please use JUMPER to adjust)

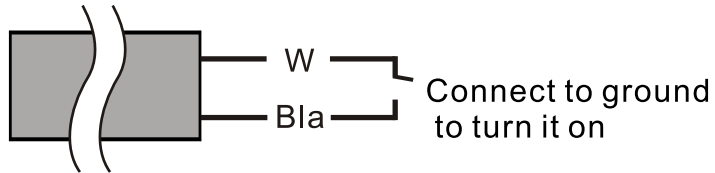
Suitable for: Fail-safe electric lock such as electromagnetic lock.



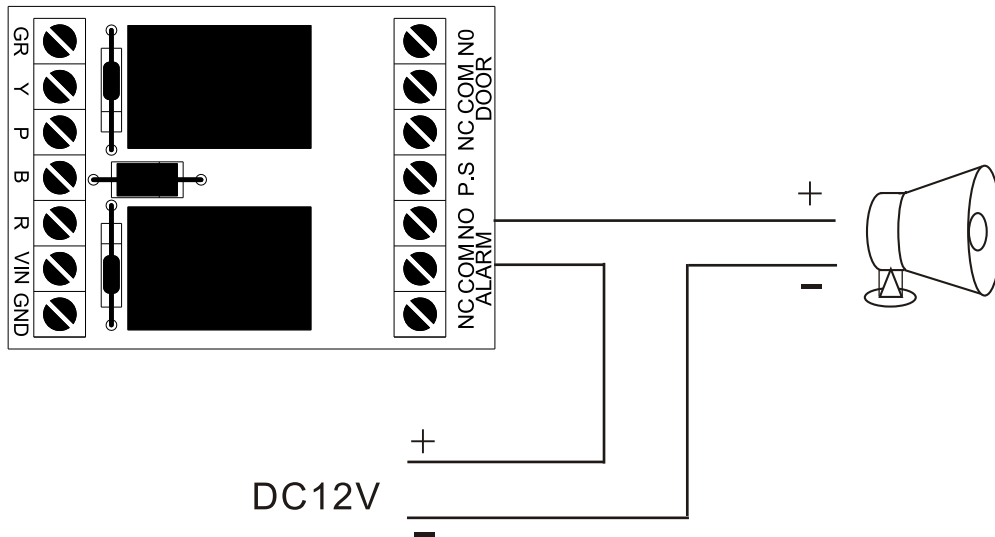
3. Door detection wiring



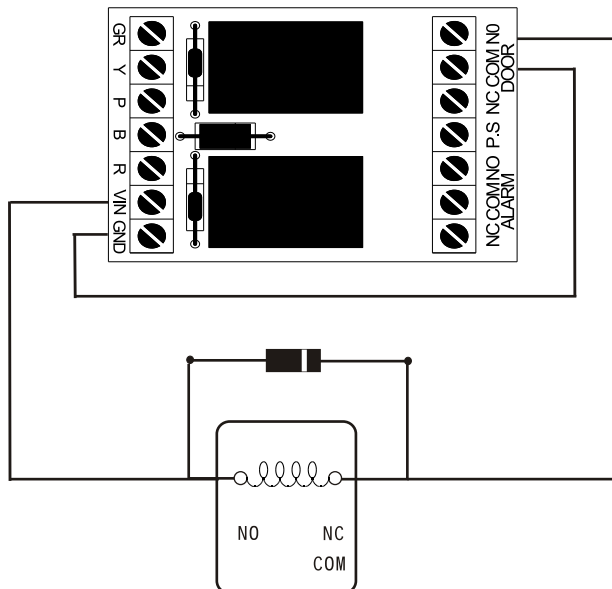
4. Wiring of orange LED indicator



5. Alarm wiring



6. Door Open point with external RELAY



Precautions

1. Please make sure the voltage and the polarity of the current to avoid causing damage to the unit.
2. Do not share electric current with electric lock and reader to avoid interference.
3. Do not simply conduct any fixing or modification of the unit without our personnel.
4. Warranty period for the reader is 1 year.

Troubleshooting

1. Card sensed but the door lock doesn't work.

Solution: (1) Please check if the power supply of the reader and the electric lock is on.

Please check if the panel's POWER light (Red indicator light) is on.

- (2) Please check if the panel's OK light (Green indicator light) is on. If it is on, please check if the electric lock's power supply and connecting points are correct.

- (3) Continuous proximity. Please remove the card from the reader and try again.

- (4) Please check whether the door opening mode is correct.

2. Unable to enter into various functions of setting mode when system password is entered.

Solution: (1) Incomplete system password is entered.

* # XXXX # represents complete system password or press "*" button and then enter valid system password (* # XXXX #).

- (2) Wiring problem that caused key buttons unable to enter correct data when they are pressed. Please check if all wires are placed behind the space of the display panel to avoid all wires pressing against the PC board which may cause short circuit or interference.

3. Setting Anti-duress.

Solution: Door opening mode has to be changed as one of the following modes in order to set anti-duress:

(A). Enter 4-digit password (mode 1); or

(B). Proximity card and enter 4-digit password (mode 3); or

(C). Proximity card or enter 4 digit password (mode 4)

Enter "* # Anti-duress 4-digit password #" to activate the function when door opening mode is set (please refer to item 5 of setting modes for door opening mode.)

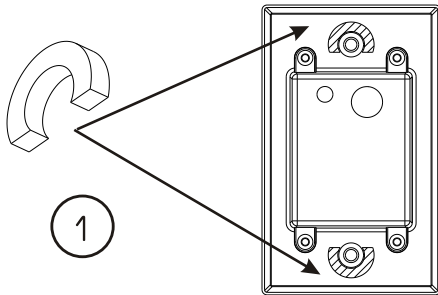
4. Terminate anti-tamper or anti-duress output

Solution: Enter into system setting mode or open the door.

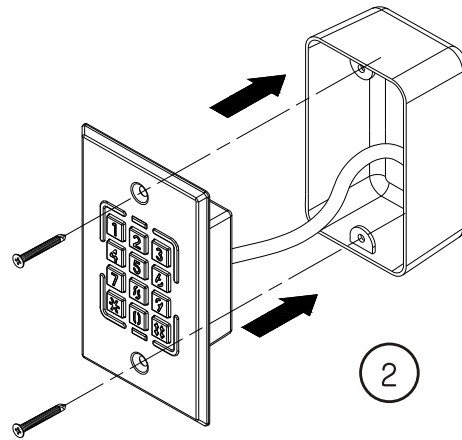
Installation of the unit

ST-226 ANSI style

Please take out the template from the screws package and affix it on the correction position according to the diagram shown

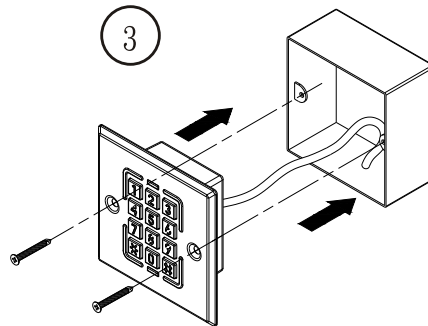
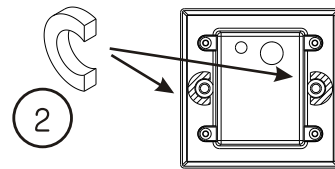
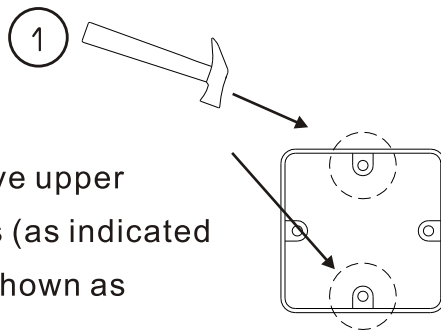


Install in the embedded box.



ST-228 British style

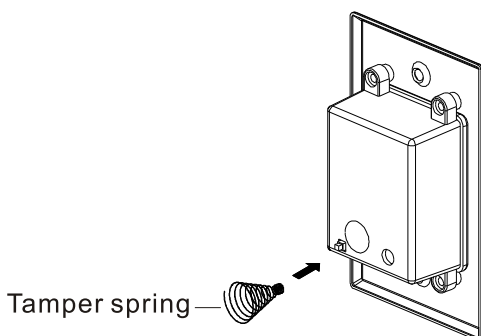
Knock or remove upper and lower parts (as indicated in the circles) shown as A and B with a hammer before installing it.



Install in the embedded box.

Installation of tamper spring

Please install the tamper spring on the switch before mounting



Please make sure the tamper spring touches the inner surface of case. Please add something to make sure the tamper spring touches the inner surface of the case.

