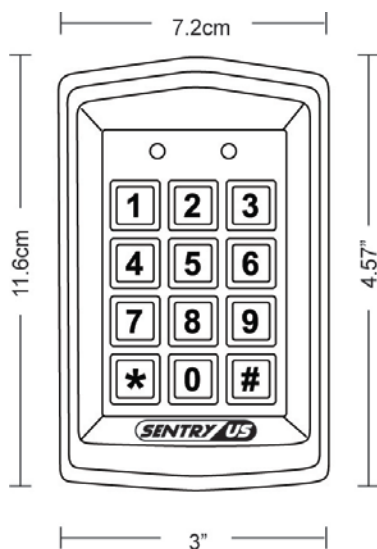


Stand-Alone Access Control Keypad with Built-in EM Reader

ACSK-EM

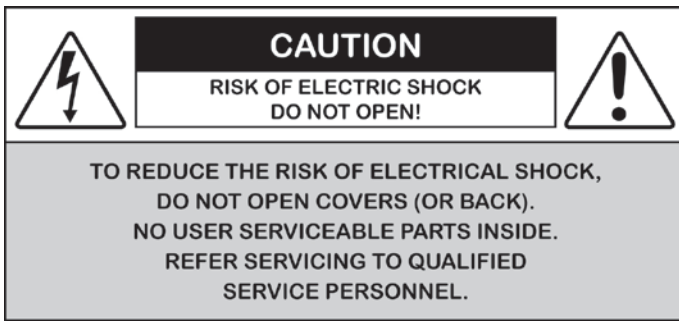


FEATURES

- Timer can be set from 1 second to 60 minutes
- Outdoor, water resistant
- Built-in EM Reader; Card / Code / Combined access
- IP65 Rating
- 125KHz Frequency
- 1.97 inch / 5 cm Effective distance
- Up to 1000 password & card holders for Zone 1
- Digital keypad operation
- Built-in pickproof function
- Watchdog timer, powerful reboot & self-recovery watchdog
- Dual relay outputs, 0~99 sec unlock output delay time
- 12V~15V DC, 150 mA
- 3" x 4.57" x 0.87"



Please read the Manual before attempting to use this product.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

1. Handle this product with care

Avoid any shock or bumping of the product. Improper handling could damage the product.

2. Requires a proper operating environment

This product should be mounted within an enclosure.

3. Check the power source voltage

The power source voltage should be within the specified range. (Product must meet the specifications).

4. Objects and liquid entry

Never push objects of any kind into this product as this may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

5. Servicing

Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

6. Damage requiring service

Unplug this product from the power source and refer service to qualified servicing personnel under the following conditions:

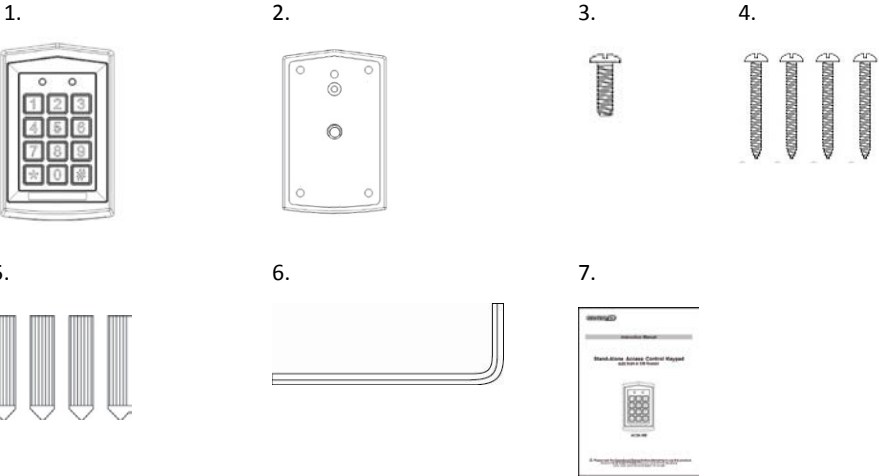
- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product has been dropped or the cabinet has been damaged.

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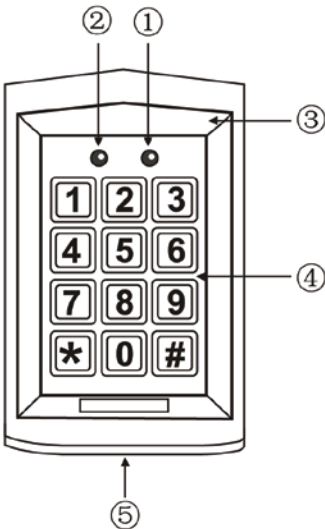
PACKAGE CONTENTS

1. One (1) Access Control Unit
2. One (1) Mounting Plate
3. One (1) Short Screw
4. Four (4) Long Screws
5. Four (4) Wall Anchors
6. One (1) Torque Wrench
7. One (1) Manual



*For any returns, please include all components listed above with original packaging in Resalable Condition. Absolutely No Returns will be accepted if any component is missing/damaged.

KEYPAD DESCRIPTION



No.	Description
①	Mode LED Indicators Yellow, Red, Green
②	Door LED Indicators
③	Antenna
④	Matrix Keypad
⑤	Vandal Proof Case Screw

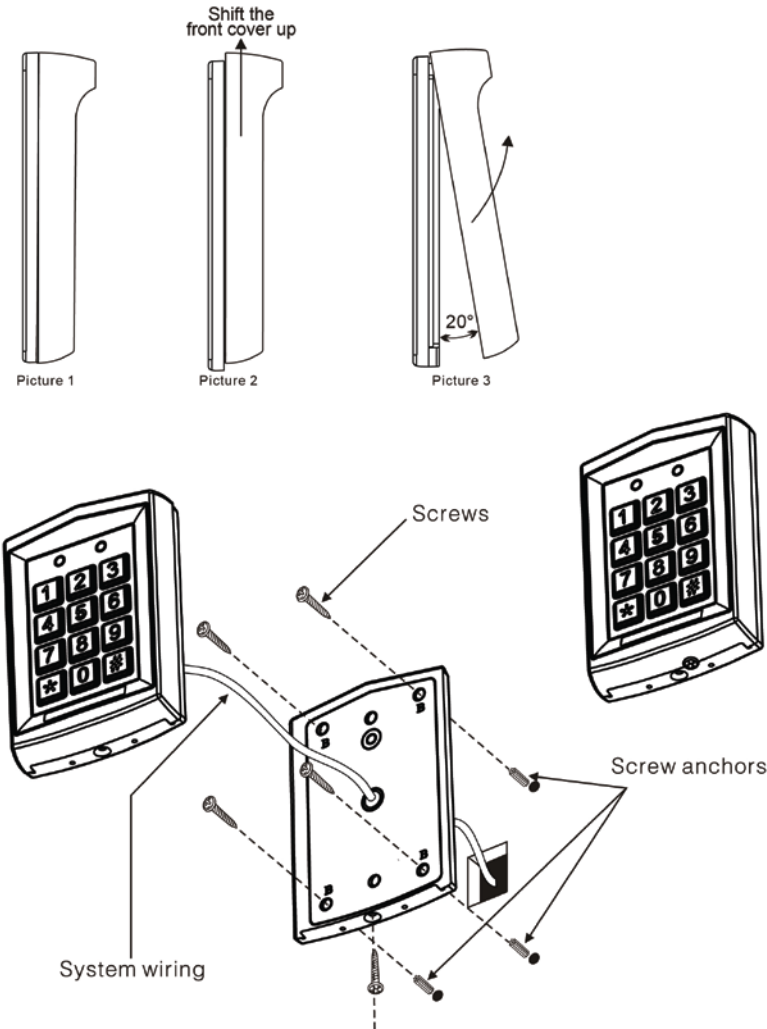
MOUNTING INSTALLATION

Note: Before mounting, decide first where to mount the keypad.

1. Open the control keypad by removing the screw at the bottom using the provided torque wrench.
2. Push the front cover up a few millimeters and then lift the lower edge (no more than 20 degrees) and remove the front cover gently.
2. Punch the necessary holes at the back template for the screws.
3. Using the back template as a guide, drill the holes for the screws and system wiring (make a bigger hole for the system wiring).

Note: Level the back template

4. Draw out the system wiring through the center hole of the back template.
5. Mount the back template using the screws provided.
6. Mount the front panel using the torque wrench.
7. Connect system wiring (see System Wiring Diagram and System Wiring Connections).



SYSTEM WIRING DIAGRAM

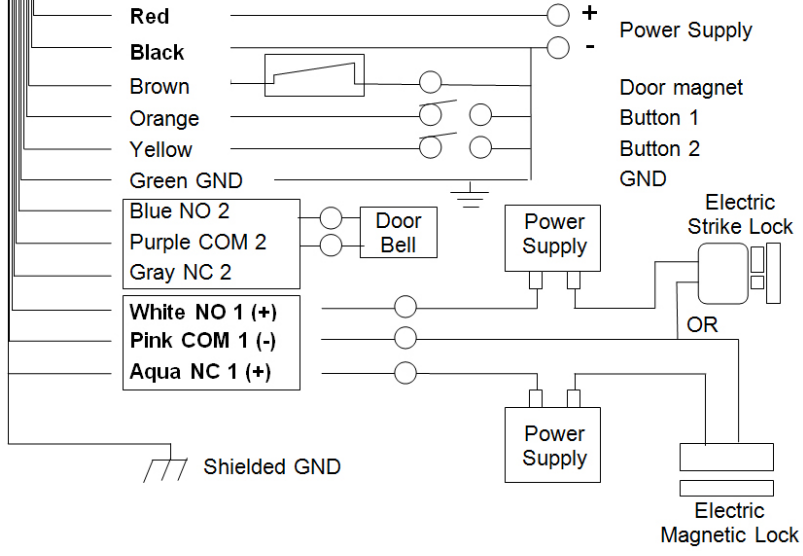
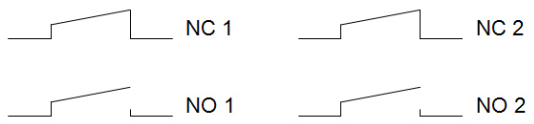
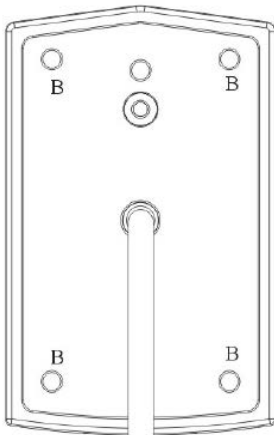
Note: **White NO 1:** For Electric Strike Lock

Aqua NC 1: For Electric Magnetic Lock

- Red** = DC Input: +12V ~ +24V
- Black** = AC Input: ~9V ~ 18V
- White** = Normally Open: N/O
Electric Door Strike Lock
- Pink** = Common - Relay
- Aqua** = Normally Close N/C
Magnetic Lock
- Brown** = Door Status Detection
(See * on page 5 for DSD)
- Orange** = Unlocking Button 1
- Yellow** = Unlocking Button 2
- Green** = GND
- Blue** = NO 2
- Purple** = COM 2
- Gray** = NC 2

Shielded Ground

Note: *The first 5 wires (bolded) are most important.*



*Make sure you are using one of the two locks.

SYSTEM WIRING CONNECTIONS

Connecting to Power:

Connect the **Red** to power positive (+).
Connect the **Black** to power negative (-).

Connecting to Locks (two options):

Option1: Using a Strike Lock

Connect the White to power positive (+).
Connect the Pink to the Strike lock power positive (+) or the normally open (NO).
Connect the Strike lock power negative (-) to the power negative (-).

Option 2:Using a Magnetic Lock

Connect the Aqua to power positive (+).
Connect the Pink to the Magnetic lock power positive (+) or the normally close (NC).
Connect the Magnetic lock power negative (-) to the power negative (-).

Connecting an Unlocking Button to Open the Door from the Inside:

Connect the Orange to the button NO for Strike lock or NC for Magnetic lock.
Connect the button negative (-) or common to power negative (-).

Connecting to Button 2:

Connect the Yellow to the button NO for Strike lock or NC for Magnetic lock.
Connect the button negative (-) to power (-).

Connecting the Door Status Detection:

Connect the Brown to the sensor positive (+).
Connect the sensor negative (-) to power negative (-).

The **Door Status Detection (DSD) will automatically lock the door once a connection is detected. When a person comes in, it will not wait for the delay time to lock the door but locks it automatically when connection is detected. This is a good way to prevent someone coming in from behind a person who has access.*

PROGRAMMING & OPERATION

All programming need to go to **Setup Mode first.*

Two-zone relays can be programmed for opening the lock. Up to 1000 user cards and correlative codes can be stored into ZONE 1 and up to 10 user cards or codes can be stored into ZONE 2. In addition the ZONE 1 can be programmed for 3 modes to open the lock: only the card access, both the code and card access, or combined access. The ZONE 2 could be programmed for door bell.

Two-zone relays can be programmed for opening the lock. Up to 1000 user cards and correlative codes can be stored into ZONE 1 and up to 10 user cards or codes can be stored into ZONE 2. In addition the ZONE 1 can be programmed for 3 modes to open the lock: only the card access, both the code and card access, or combined access. The ZONE 2 could be programmed for door bell.

The Factory Default Programming/Admin Code is 1 2 3 4.

To enter **Setup Mode** press Programming Code twice.

(ex: 1 2 3 4 1 2 3 4) The mode LED indicator will turn yellow.

To exit or quit from the **Setup Mode**, press # key.

CHANGING PROGRAMMING/ADMIN CODE

1. In Setup Mode, press * key and 3. The mode indicator will flash yellow.
2. Enter new Programming Code twice (ex: 5 6 7 8 5 6 7 8). A long beep means Programming Code was changed. The length of the Programming/Admin Code must be the same as the old one.
3. Exit Setup Mode.

RESTORING THE PROGRAMMING/ADMIN CODE TO FACTORY DEFAULT

**Only if you cannot remember your new Programming Code.*

1. Turn off control keypad power.
2. While pressing # key, turn on the power of the control keypad. A long beeps means the default Programming Code was restored. (Programming/Admin Code is 1 2 3 4)
3. Exit **Setup Mode**.

ACCESS MODE SETTING

Card Access Only:

1. In Setup Mode, press * key and 0. The mode LED indicator will flash yellow.
2. Press 0 twice. The mode LED indicator will turn yellow and a long beep will sound.

Card & Code Access:

1. In **Setup Mode**, press * key and 0. The mode LED indicator will flash yellow.
2. Press 0 and 1. The mode LED indicator will turn yellow and a long beep will sound.

Combined Access:

1. In **Setup Mode**, press * key and 0. The mode LED indicator will flash yellow.
2. Press 0 and 2. The mode LED indicator will turn yellow and a long beep will sound.

To exit or quit from Setup Mode, press # key.

LENGTH OF PASSWORD SETTING

1. In Setup Mode, press * key and 9. The mode LED indicator will flash yellow.
2. Press 0 and 4. When a "BI" sound beeps, enter X (X = 2 / 3 / 4 / 5 / 6).

Note: 2 = length of 2 digits (00-99)

3 = length of 3 digits (000-999)

4 = length of 4 digits (0000-9999)

5 = length of 5 digits (00000-99999)

6 = length of 6 digits (000000-999999)

A "BI" sound means digit length setting is successful. A "BI BI BI" sounds means digit length is the same as the existing, so setting is not permitted.

To exit or quit from **Setup Mode**, press # key.

IMPORTANT NOTE: *In case the digit length changed, all added cards and passwords will be cleared.*

ADDING A MASTER CARD (ONLY FOR ZONE 1)

Note: It is advisable to install the Master Card first before installing any User Cards

To Add a Master Card:

1. In **Setup Mode**, press * key and 7. The mode LED indicator will flash green indicating there is no master card. If the mode LED indicator turns red, a Master Card is already stored. To clean up and remove, press * key twice.
2. Swipe Master Card. A long beep means master card was stored.
3. Press # key to exit **Setup Mode**.

Using Master Card to Enter and Exit Setup Mode:

1. Swipe Master Card. A long beep will sound and the mode LED indicator will flash yellow. This means that you are in **Setup Mode**.
2. Exit **Setup Mode** by swiping Master Card again. Three rapid beeps and the mode LED indicator will turn green means that you have exited the **Setup Mode**.

The access control will be locked for 60 seconds if one of the following occurs:

- A wrong code is entered continuously
- An invalid card is swiped 5 times

When a door is opened and then closed, the system will automatically detect the door status and lock the door even though it is still in delay period (for ZONE 1 only).

IMPORTANT NOTE: *The user code must be different from the Programming/Admin Code. The code of ZONE 1 must be different from that of ZONE 2.*

ADDING A USER CARD & CODE

ZONE 1:

1. In **Setup Mode**, press one number from 000-999 data storage units. Yellow LED indicator will flash.
2. At the same time, if red LED indicator is flashing, this means the number data storage unit existed. Press * key twice to clean up. If green LED indicator is flashing, this means the number data storage unit can add card(s) and password(s).

To add cards and passwords:

1. Enter **Setup Mode**. The yellow LED indicator will flash.
2. Input a 3-digit number from 000-999 data storage units and the green LED indicator will also flash.
3. Swipe card and a sound "BI" means the card was successfully added. Then input the correlative passwords. The length of the password should be the same as the Programming/Admin Code. After the "BI" sound, this means the card is added and the passwords are set successfully.
4. Press # key to exit **Setup Mode** and standby.

To delete cards and passwords:

1. Enter **Setup Mode**.
2. Input a 3-digit number form 000-999 data storage units. If red LED indicator is on, it means there is data stored in this set of unit.
3. Press * key twice to delete the card and password/code.
4. Press # key to exit **Setup Mode** and standby.

ZONE 2:

1. In **Setup Mode**, press * key and 4.
2. Input a 2-digit number from 00-99 data storage unit. Yellow LED indicator will flash.
3. At the same time, if red LED indicator is flashing, this means the number data storage unit existed. Press * key twice to clean up. If green LED indicator is flashing, this means the number data storage unit can add card(s) and password(s).

To add cards and passwords:

1. Enter **Setup Mode**. The yellow LED indicator will flash.
2. Input a 3-digit number from 000-999 data storage units and the green LED indicator will also flash.
3. Swipe card and a sound “BI” means the card has successfully been added. Then input the correlative passwords. The length of passwords should be the same as the Programming/Admin Code. After the “BI” sound, this means the card is added and the passwords are set successfully.
4. Press # key to exit **Setup Mode** and standby.

To delete cards and passwords:

1. Enter **Setup Mode**. Press * key and 4.
2. Input a 2-digit number form 00-99 data storage units. If red LED indicator is on, it means there is data stored in this set of unit.
3. Press * key twice to delete the card and password/code.
4. Press # key to exit **Setup Mode** and standby.

MODIFYING THE USER CODE (ZONE 1)

1. In **Setup Mode**, press * key and 9. The mode LED indicator will flash yellow.
2. Press 0 and 2. A beep will sound.
3. Input 3-digit number form 000-999 data storage units and input the correlative passwords. (The length of relative passwords should be the same as the Programming/Admin Code).
4. Press # key to exit **Setup Mode**.

GROUP CARDS ADDED IN ZONE 1

1. In **Setup Mode**, press * key and 9. The mode LED indicator will flash yellow.
2. Press 0 and 1.
3. Input the 3-digit numbers from 000-999 for data storage unit starting number and then another 3-digit number for the whole cards account you want to add. (ex: Input “005 060” – means the cards added in storage units start at 005 and the number of cards added are 60 cards).
4. Press # key to exit **Setup Mode**.

Swipe the first added card or input the first added card serial number (8 digits). A beep will sound indicating the addition is successful.

REMOVING ALL USER & CODES

1. In **Setup Mode**, press * key and 8. The mode LED indicator will flash yellow.
2. Press 8 twice. A long beep means all users and their codes were removed (except for Programming/Admin Code).
3. Press # key to exit **Setup Mode**.

CHANGING THE UNLOCK DELAY TIME

ZONE 1:

1. In **Setup Mode**, press * key and 1. The mode LED indicator will flash yellow.
2. Enter unlocking delay time from 00-99 (ex: 10 means ten seconds delay time before it locks). A long beep means unlock delay time was adjusted. If setting lock-time is 00: swipe card or input password once and open the door, then swipe card for input password again and close the door.
3. Press # key to exit **Setup Mode**.

ZONE 2:

1. In **Setup Mode**, press * key and 5. The mode LED indicator will flash yellow.
2. Enter unlocking delay time from 00-99 (ex: 10 means ten seconds delay time before it locks). A long beep means unlock delay time was adjusted. If setting lock-time is 00: swipe card or input password once and open the door, then swipe card for input password again and close the door.
3. Press # key to exit **Setup Mode**.

PICKPROOF ALARM

The built-in buzzer will send a continuous beeping if the photoresistor sensor is directly exposed into the light. The buzzer will turn off automatically in 60 seconds. The light is no longer detected by entering the programming/admin code.

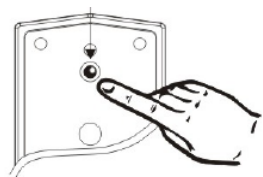
To turn on:

1. In **Setup Mode**, press * key and 6. The mode LED indicator will flash yellow.
2. Press 0 and 2. A long beep will sound and the mode LED indicator will turn yellow to indicate that pickproof alarm was turned on.
3. Press # key to exit **Setup Mode**.

To turn off:

1. In **Setup Mode**, press * key and 6. The mode LED indicator will flash yellow.
2. Press 0 and 1. A long beep will sound and the mode LED indicator will turn yellow to indicate that pickproof alarm was turned off.
3. Press # key to exit **Setup Mode**.

Note: If the photoresistor is directly exposed into the light, a buzzing sound will be heard. It will only stop upon removing the light exposed directly to the photoresistor, the Programming/Admin Code was pressed or after 60 seconds.



DOOR BELL

To turn on:

1. In **Setup Mode**, press * key and 2. The mode LED indicator will flash yellow.
2. Press 0 and 2. A long beep will sound and the mode LED indicator will turn yellow to indicate that door bell was turned on.
3. Press # key to exit **Setup Mode**.

To turn off:

1. In **Setup Mode**, press * key and 2. The mode LED indicator will flash yellow.
2. Press 0 and 1. A long beep will sound and the mode LED indicator will turn yellow to indicate that door bell was turned off.
3. Press # key to exit **Setup Mode**.

*Note: The relay in ZONE 2 for door bell is unavailable if the function of door bell is turned on but the function or door lock is inactive. Press the * key in standby mode, the relay contacts one time, the door bell ringing is triggered.*

RESTORING FACTORY DEFAULT

1. In **Setup Mode**, press * key and 8. The mode LED indicator will flash yellow.
2. Press 8 twice. A continuous long beep means all user cards and codes have been cleared out.
3. Press * key and 8. The mode LED indicator will flash yellow.
4. Press 9 twice. A continuous long beep means factory default is restored.
5. Press # key to exit **Setup Mode** and standby.

If done improperly, the device will beep and revert back without any actions in 30 seconds. During the access mode setting, there is a 5-second window to either input password or swipe card. If no action is taken within 5 seconds, it will revert back.

When ZONE 1 relay is activated, the door LED indicator light will turn green. When ZONE 2 relay is activated, the door LED indicator light will turn red.

If you forget the Programming/Admin Code, press and hold # key, then power on the device. A beep will sound indicating the default Programming/Admin Code setting is successful.

2-digit Length – default code is 12

3-digit Length – default code is 123

4-digit Length – default code is 1234

5-digit Length – default code is 12345

6-digit Length – default code is 123456 (max.)

SPECIFICATIONS

Model	ACSK-EM
Capacity	1000 passwords & card holders (Zone 1) 10 passwords or card holders (Zone 2)
EM Reader Frequency	125 KHz
Card Effective Distance	1.97 inch / 5 cm
Power Consumption	12V~15V DC, 150mA
DC Input	--- +12V ~ +24V
AC input	~9V ~ 18V
Current	< 80 mA Standby / < 110 mA Working
Unlock Delay Time	0~99 sec
IP Rating	IP65
Operating Temperature	-20°C ~ 50°C
Humidity	RH < 95%
Dimension	3 (W) x 4.57 (H) x 0.87 (D) inches 7.2 (W) x 11.6 (H) x 2 (D) cm

*Specifications are subject to change without notice

LIMITED WARRANTY

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. **This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose,** but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness of or a particular purpose, is limited to one (1) year. **Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation.** The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

OTHER RELATED PRODUCT OPTIONS

A. Buzzer



- Can be programmed 1~10 sec, recommend 5 sec.
- 5V~14V DC

Buzzer Connection:

1. Connect the buzzer positive (+) to lock (magnetic or strike) positive (+)
2. Connect the buzzer negative (-) to power negative (-)

B-1. 2-CH Wireless RF Receiver & Remote



RF Receiver

+



Single Button Remote

OR



2-button Remote

B-2. 2-CH Wireless RF Receiver & Desktop RF Transmitter



RF Receiver

+



RF Transmitter

C. Hands-free Video Intercom System



Outdoor Station w/ Camera
NC-CS2

+



Monitor Inside Station
NC-MON4

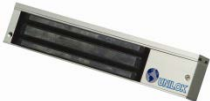
+



Power Supply
AC-POWERDC

RECOMMENDED LOCK SYSTEMS

A. Magnetic Lock with LED



- Available in 600 lbs and 1200 lbs

B. Electric Door Strikes for Metal Doors



- Jaw strength: 2000 lbs
- 12V DC

C. Electric Door Strikes for Wood Doors



- Jaw strength: 2000 lbs
- 12V DC