VER : 1 3-1.0

User Manual

LS–8018

Model：

LS–8018–ZFM–FB	LS–8018–ZFM–FP	LS–8018–FM
LS–8018–ZFMW–FB	LS–8018–ZFMW–FP	LS–8018–FMW
LS–8018–ZM–FB	LS–8018–ZM–FP	
LS–8018–ZMW–FB	LS–8018–ZMW–FP	

- Z–Wave Certification No：ZC08–13100011
- Please read this manual carefully before installing
- Please safekeeping of this handbook to prepare for inspection

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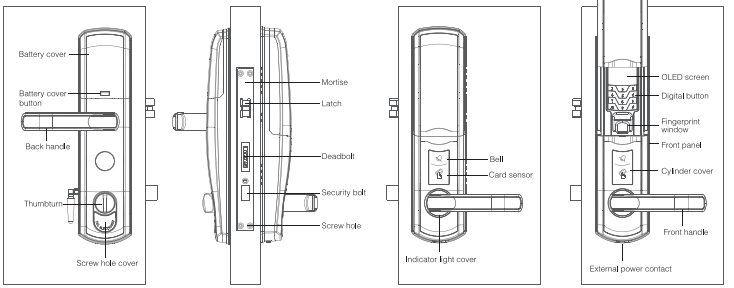
I、Product introduction

1.Introduction

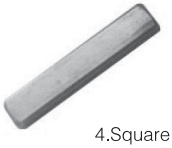
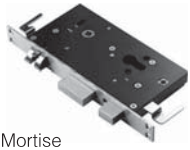
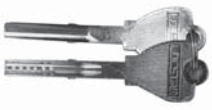
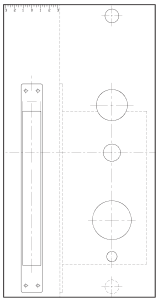
Model	LS–8018
Panel size	418X80X84mm
Material	Zinc alloy
Material	6.5KG



2、Specification & Parameters

Item	Parameter
LS-8018-ZFM-FB LS-8018-ZFMW-FB LS-8018-ZM-FB LS-8018-ZMW-FB	Optical
LS-8018-ZFM-FP LS-8018-ZFMW-FP LS-8018-ZM-FP LS-8018-ZMW-FP	Semi-conductor
Card type	Mifare One S50
Reading distance	1.5CM
Open model	Key\Code\Card\Fingerprint\ Remote control
Resolution	500DPI
Fingerprint read time	<1second
FRR	≤0.01%
FAR	≤0.0001%
Master code capacity	1group
Card capacity	100pcs
Fingerprint capacity	100pcs
User code capacity	10groups
Battery	4pcs AA alkaline battery(DC4.8 ~ 6.5V)
Screen	OLED
Low voltage alarm	5.0V(± 0.2V)
Static current	≤35uA
Dynamic current	≤200mA
Working temperature	-20℃ ~ 55℃
Storage temperature	-30℃ ~ 70℃
Working humidity	15%RH ~ 93%RH
The average working time of trouble-free	≥25,000h

3、Packing list

1.Front panel	2.Back panel	3.Waterproof pad
	 4.Square shaft	 5.Mortise
6.Battery	7.Screw holes cover	8.Stud extended guide sleeve
9.Strike plate	10.Strike box	11.Fix screw
12.Tapping screw	13.screw for anti–theft door	14.Longer column
15.cylinder	 16.Mechanical key	 19.drill template
17.fix screw for cylinder	18.User manual	

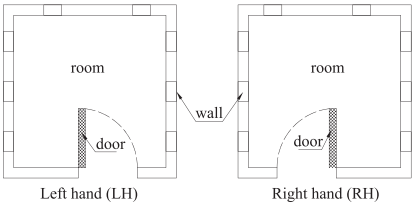
II、Installation guide

1、Installation requirement

1.1、Door thickness requires

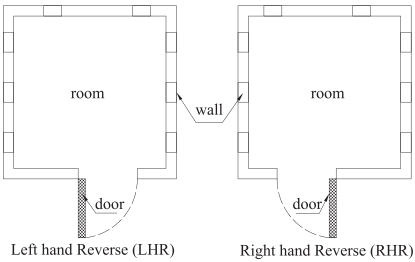
- Lock edging≥110mm (the door with different thickness)
- 40mm≤door thickness≤120mm (if door thickness<40mm or >120mm, it need customize parts)

1.2、Door Direction



Left hand(LH) door: people standing outside the door, facing the door, the door hinge on the left hand and push inward to open the door.

Right hand(RH) door: people standing outside the door, facing the door, the door hinge on the right hand and push inward to open the door.

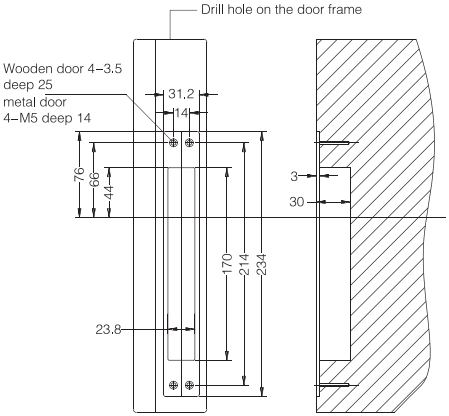


Left hand reverse(LHR) door: people standing outside the door, facing the door, the door hinge on the left hand and pull outward to open the door.

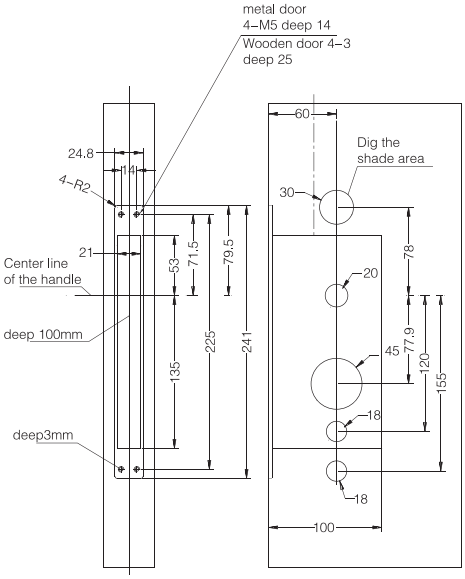
Right hand reverse(RHR) door: people standing outside the door, facing the door, the door hinge on the right hand and pull outward to open the door.

2、Tools

3、Drilling Template

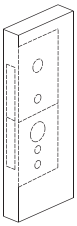


Drill hole for door frame

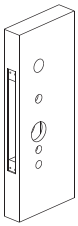


Drill hole for door

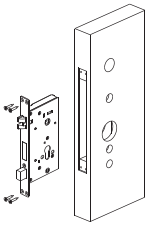
4、Installation step



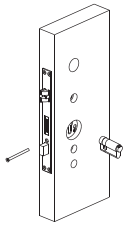
I. Draw lines
1.Draw a horizontal center line with distance of 1M from the inside and outside to the grounds.
2.Fold the template in two, align the center line of the handle with the horizontal line of the door, draw drilling lines of the front and sides of door according to the template requirements.



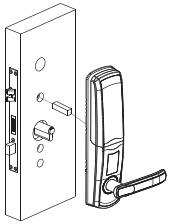
II. Drill hole
According to the template, drill holes for lock panel and mortise.



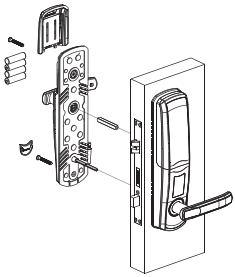
III. Mortise installation
Insert the mortise into the hole, fix with ST3.5*16 screws from the side of door.



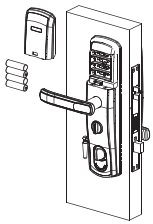
IV. Install cylinder
1.Insert cylinder into the cylinder hole.
2.Fix cylinder with M5*65 screw from the side of door.



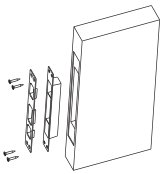
V.Install front panel
1.Fit a waterproof rubber mat over the front panel.
2.Make square shaft of front panel align with square shaft hole of mortise. If the door is too thick, please cover the stud extended guide sleeve on the longer column.
3.Install the front panel from the outside of door.



VI. Install back panel
1.Fit a waterproof rubber mat over the back panel and connect wire of front panel, 2p plug of mortise with the wire of back panel
2.Make square shaft of back panel align with square shaft hole of mortise.
3.Install the back panel from inside of door, fix the front and back panel with 2pcs M5 screws.



VII. Debugging after installation
1.Rotat handle, check handles flexibility of the front and back handles.
2.Remove cylinder cover, insert key, twist key clockwise to the right direction and push handle, check whether the key unlock the door normally or not.
3.Setup door locks according to operational guidelines, then test unlock function.
4.Install the battery.



VIII. Install door strike
1.Fit door with door frame tightly, drill hole of strike box and plate according to the template.
2.Insert the strike box and plate into the hole and fasten with 4pcs ST3.5*16 screws.
3.Check whether the mortise works properly or not.

III、Operation Guide

1、Keypad instructions

- Press "0–9"buttons for codes.
- Press "*" for returning or deleting.
- Press "#" for confirmation.
- Reset button is on the back panel to recover the default setting.

2、Quantity of users

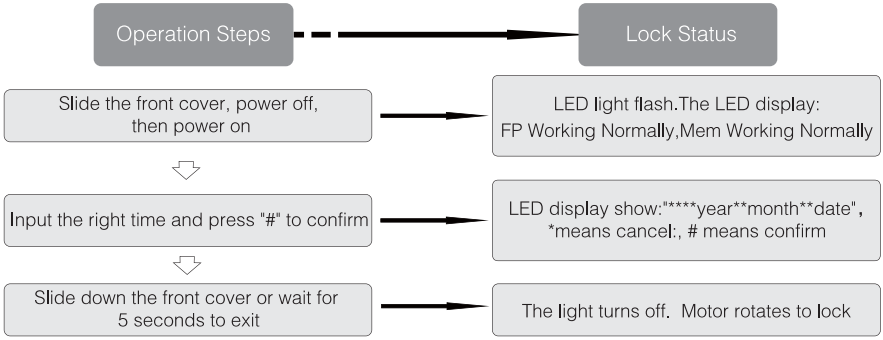
Master code:1 group(default master code: 123456).
Fingerprint: 100pcs with Index No. from 00 to 99.
Card:100pcs with Index No. from 00 to 99.
Code Users:10 group with with Index No. from 00 to 09.

3、Unlock method

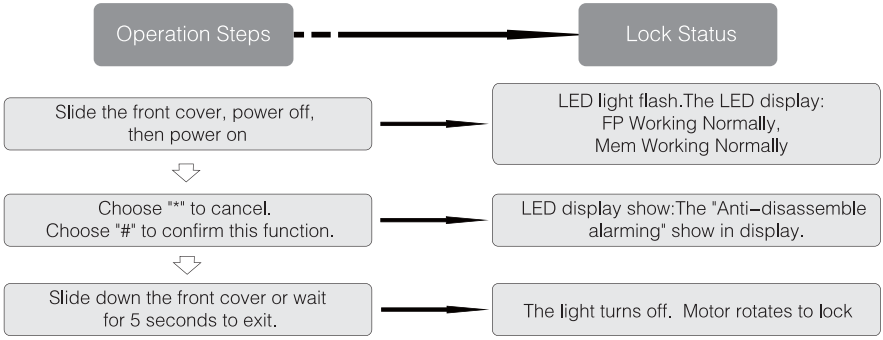
- Fingerprint, code, card, remote control ,mechanical key,mobile phone,Ipad and Pad

4、Door lock setting instruction

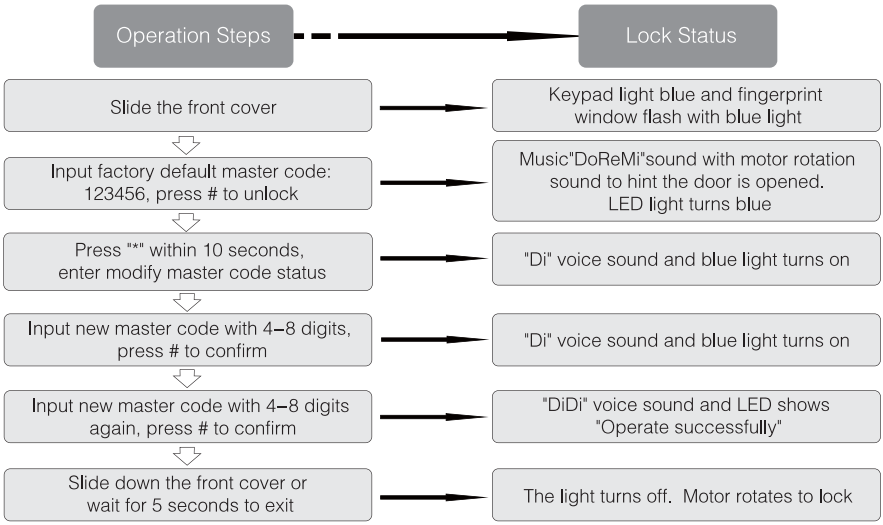
4.1、Time setting



4.2、Set/Cancel Tamper Alarm Function



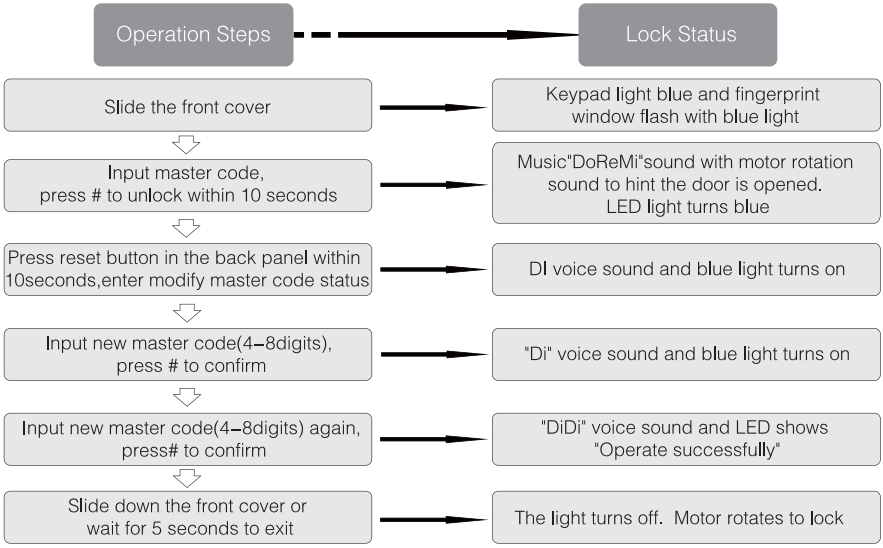
4.3、Modify default master code



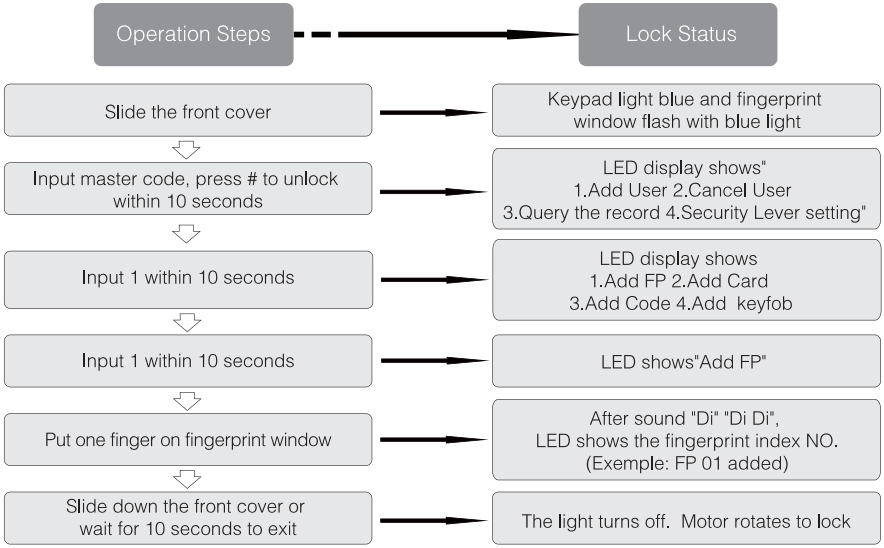
❖ Note:

- User code and user fingerprint can only set up successfully after the default master code modified.
- New master code can not be the same with the default master code.
- When modify the default master code, the first input master code should be the same with the second input one.

4.4、Modify master code



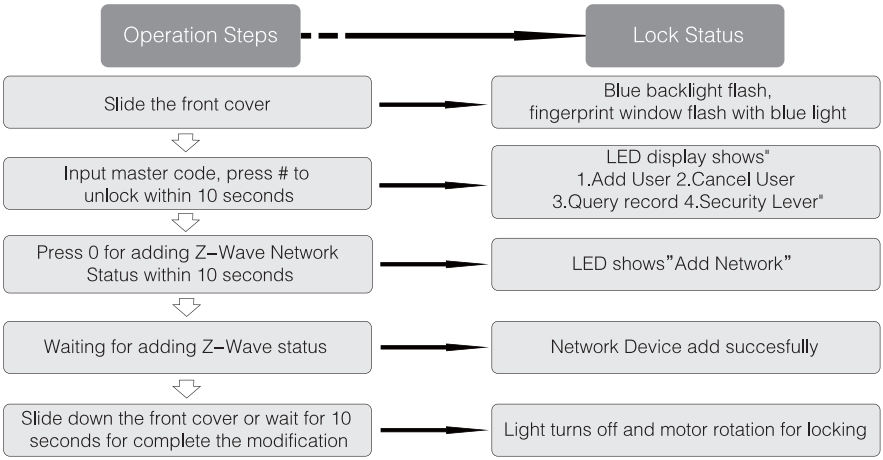
4.5、Add user fingerprint



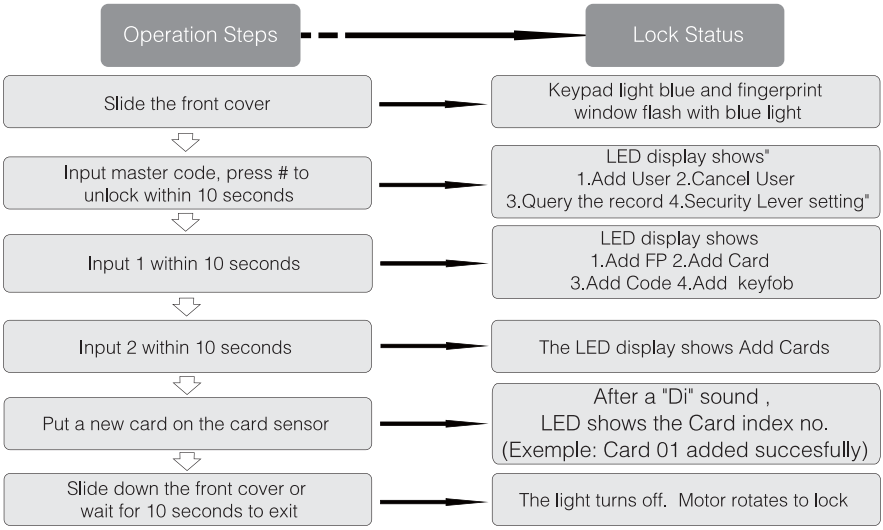
❖Note:

- Consecutive fingerprints can be added in the fingerprint setting up status.
- For fingerprint modification, you need to cancel the former fingerprint firstly and reset the new one according to the above steps.
- LS–8018–FM & LS–8018–FMW have no this function.

4.6、Z–Wave Network Enroll



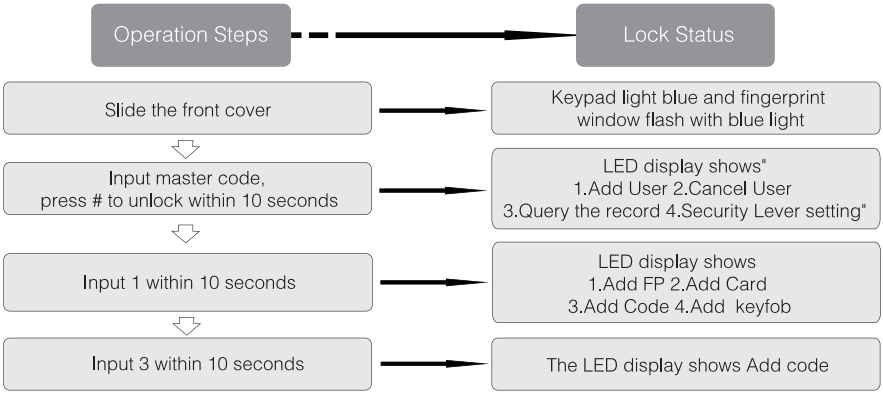
4.7、Add user Card

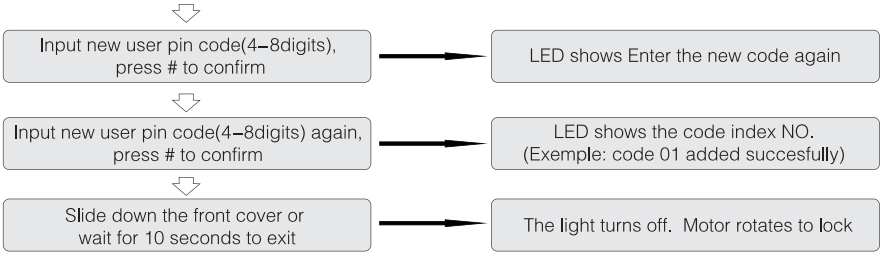


❖ Note:

- The consecutive cards can be added in the card adding status.
- For cards modification, you need to cancel the former one firstly and reset the new card according to the above steps.
- LS-8018-ZM-FB/FP & LS-8018-ZMW-FB/FP have no this function.

4.8. Add user code

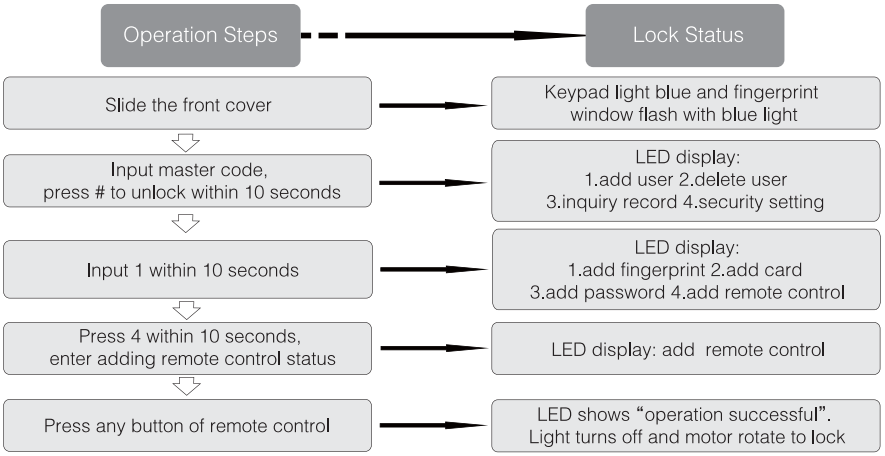




❖ Note:

- The consecutive user code can be addde in the user code setting up status.
- For user code modification, you need to cancel the former one firstly and reset the new order according to the above steps.

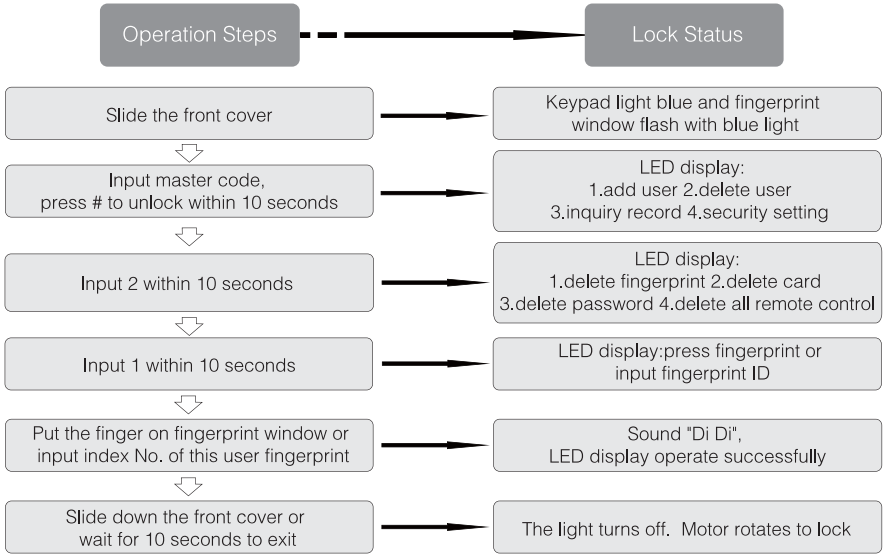
4.9、Add remote control



❖ Attention:

- LS–8018–ZMW、LS–8018–ZFMW、LS–8018–FMW all have this function.

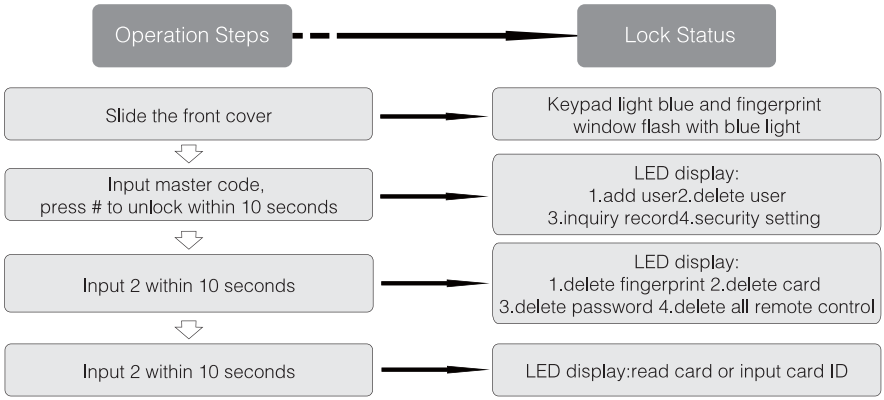
4.10、Delete user fingerprint

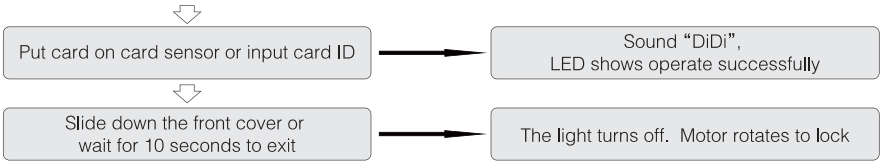


❖ Attention:

- Deleting one more user fingerprint continuously is available.

4.11、Delete user card

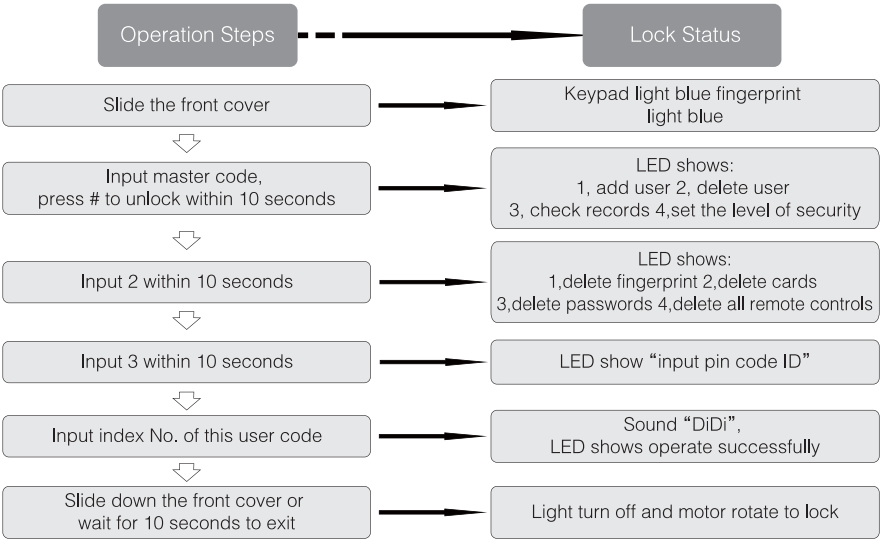




❖ Attention:

- Deleting one more user card continuously is available.

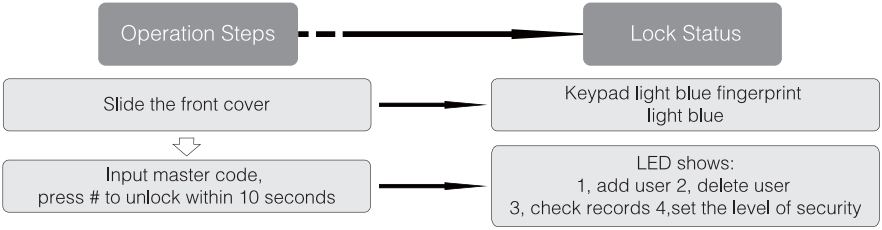
4.12、Delete user code

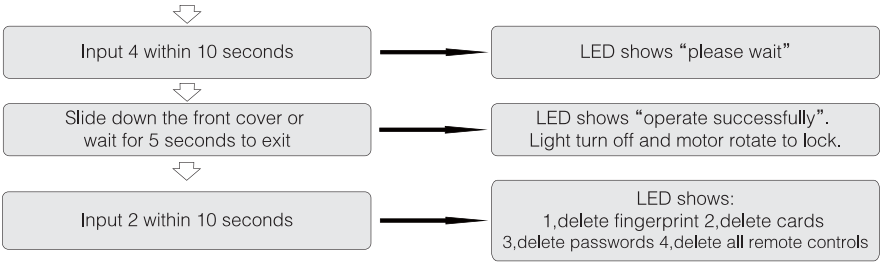


❖ Attention:

- Deleting one more user code continuously is available.

4.13、Delete all remote control

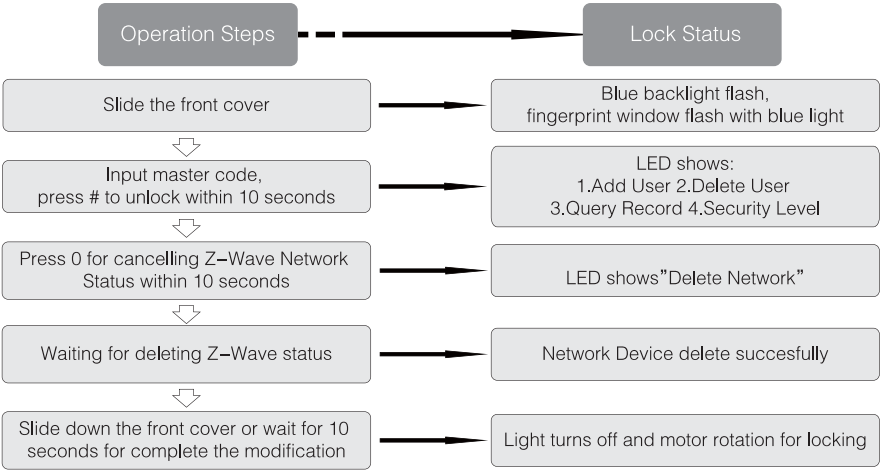




❖ Attention:

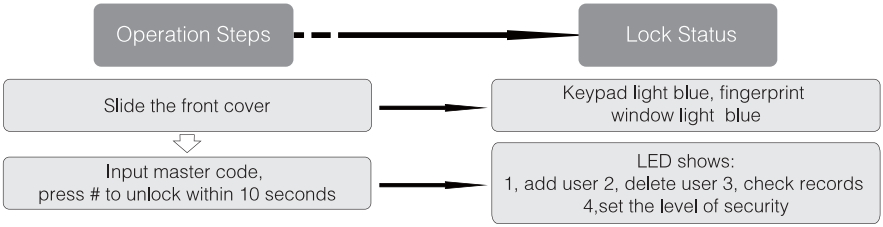
- In the remote control deleting status, it delete all remote control.

4.14、Z–Wave Network Unenroll



5、Door unlocking instruction

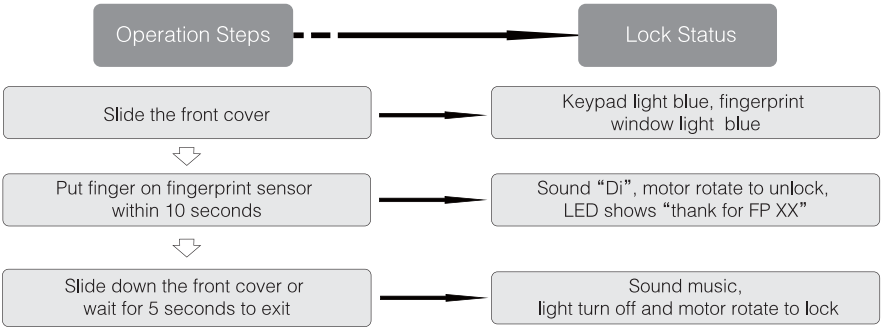
5.1、Unlocking with master code



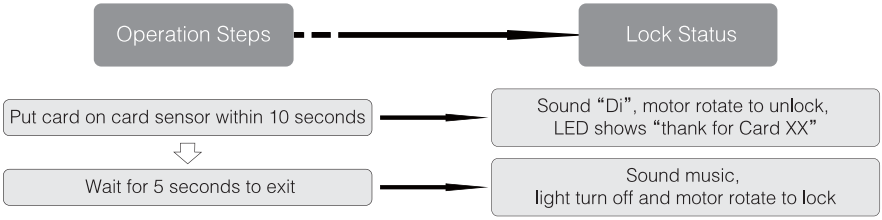
❖ Attention:

- If lock doesn't have any reponse or front cover open for a long time, please press any key to wake up the lock and enter master code to unlock.
- Code protective function: for code protective, you can enter code with 20 digits, only if the last 4–8 digits is right, you can unlock the door.

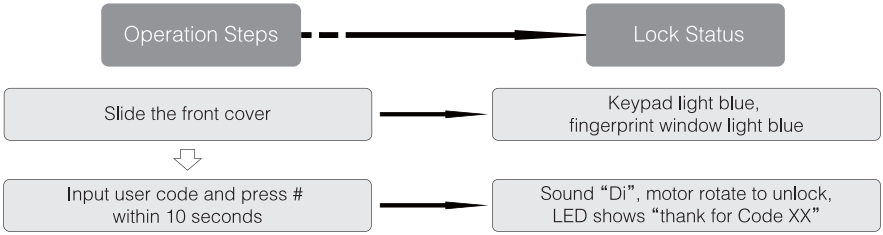
5.2、Unlocking with user fingerprint



5.3、Unlocking with user card



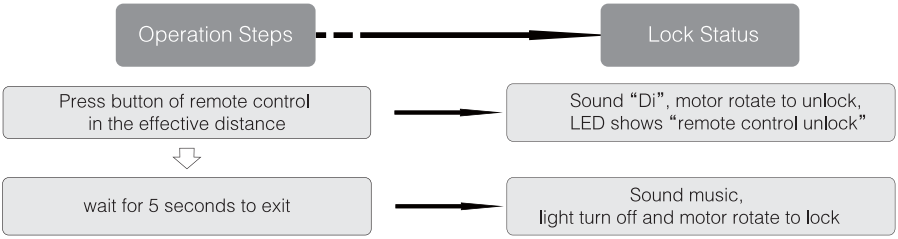
5.4、Unlock With User Code



❖ Attention:

- If lock doesn’t have any reponse or front cover open for a long time, please press any key to wake up the lock and enter master code to unlock.
- Code protective function: for code protective, you can enter code with 20 digits, only if the last 4–8 digits is right, you can unlock the door.

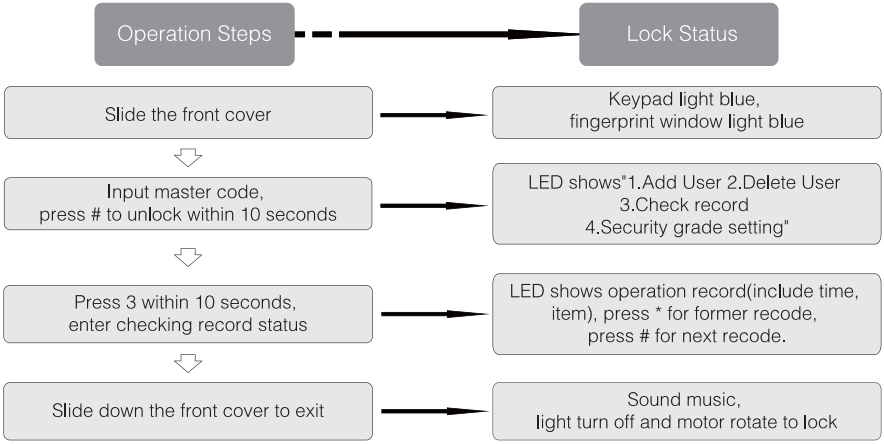
5.5、Unlock With Remote Control



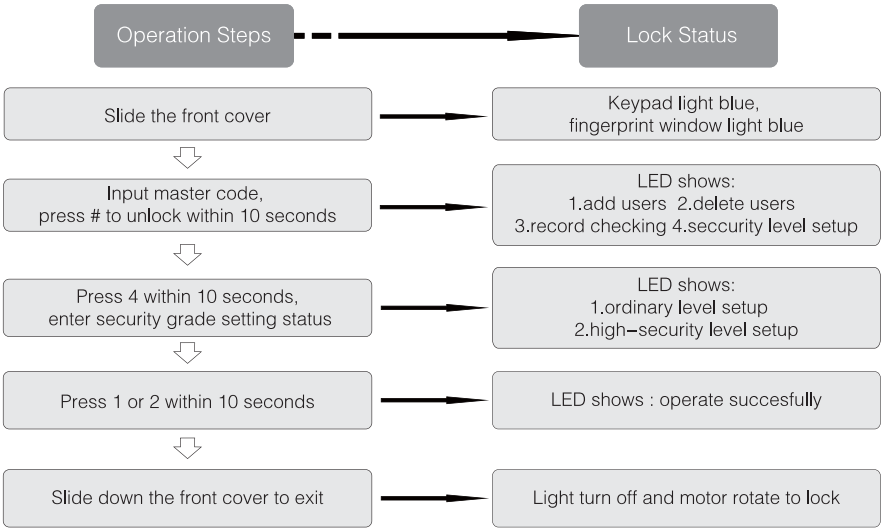
❖ Attention:

- the effective distance of remote control is 25m in open area.

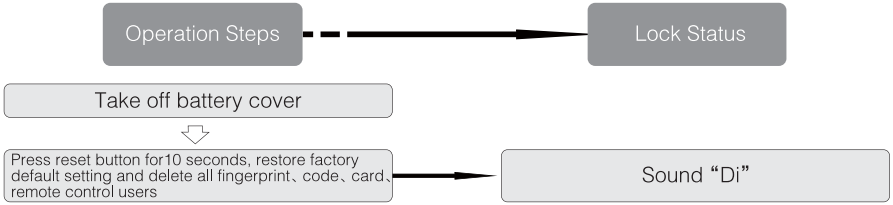
6、Check record



7、Security Grade Setting



8、Restore The Factory Default Setting



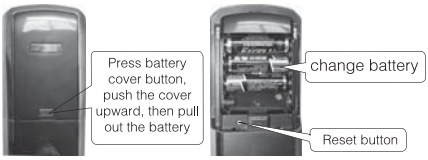
❖ Attention:

- Please modify defanlt master code before adding fingerprint、code、cade、remote control user
- After restore default setting,all users are deleted.

9、Malfunction prevention function

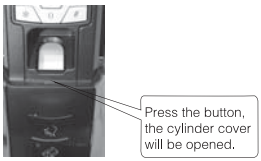
When 5 failed authentication attempt with unregistered code/fingerprint occur, the lock stops operating for 3 minutes.

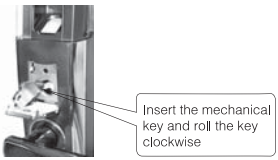
10、Battery box and reset button



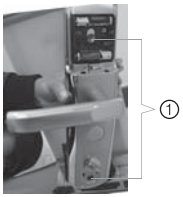
11、External power contact

12、Emergency mechanical key

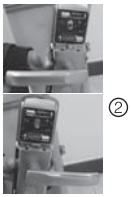




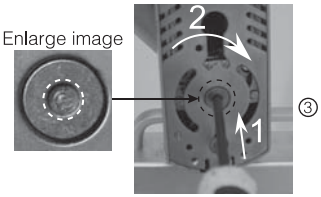
13、Exchangeability of the door lock handle



1.Remove the screws of back panel



2.The back handle can be changed to left or right directly



3.Press the button, rotate the front handle of front panel to left or right at the same time

14、Z–Wave Technical Instruction

Generic Device Class = GENERIC_TYPE_ENTRY_CONTROL;

Specific Device Class = SPECIFIC_TYPE_SECURE_KEYPAD_DOOR_LOCK;

FLIRS setting = APPLICATION_FREQ_LISTENING_MODE_1000ms;

The device is the process of safely enabling Z–Wave, realizing the Z–Wave security layer according to the Z–Wave agreement. The function and supporting instructions are different when they are listed into safe or unsafe nodes.
According to the Z–Wave anti–theft instruction V2 grade, the device can supports the anti–theft protection function. When the anti–theft protection enables the Z–Wave agreement, the order of supporting is only anti–theft CC.

Orders supported by the device	Including no safe nodes, NF response	Including no safe nodes, NF response, anti–theft protection ,NF response	Including safe node, NF response.	Including safe node, safe support response	Including safe node, anti–theft protection ,NF response	Including safe node, anti–theft protection, safe response support
Anti–theft	√	√		√		√
Especially for Manufacturer	√	√	√	√	√	
versions	√	√	√	√	√	
safety	√		√		√	
Application _ status	√		√	√		
Alarm	√			√		
Association	√			√		
Basic	√		√	√		
Battery	√			√		
Configuration	√			√		
Door_ lock				√		
Door_ lock_ login	√			√		
Node_ name	√			√		
Schedule_ entering _lock	√			√		
Date_ parameter	√			√		
User_ codes				√		

COMMAND_CLASS_APPLICATION_STATUS
The device responds request order which refused the application program, receiving the invalid orders when the original nodes are identical.

COMMAND_CLASS_ASSOCIATION
This device supports 2 kinds of contract groups, and in each group supporting 2 node maximum values. ID I is used for sending anti–social operation and alarm report. Group ID II is used for sending the order ON and Off of basic device, and the vacation mood means starting and forbidden.

COMMAND_CLASS_CONFIGURATION
The device reserves memory storage space of 225 bytes for upper layer application. The upper layer application program may visit the memory through the categories of configuration order. The default settings all always 0(0×00), the parameter is always 1(0×01), the probable value from 0×00 to 0×FF of parameter is decided by upper application.

COMMAND_CLASS_DOOR_LOCK
There are 2 various relock modes in the device: automatic relocking mode (fixed cycle operation) and constant unlocking mode (constant operation). The device may configurate orders through manual or door lock. The timeout restore will start within 8s. The device set the door lock operation unchangeable and unsafe as unsafe and timeout and the device will automatically relock mode functions.

COMMAND_CLASS_NODE_NAMING
The device report nodes names will be announced after the ASC II brand name and products version are reset to factory default value.

COMMAND_CLASS_SCHEDULE_ENTRY_LOCK
The device doesn't support the function of daylight saving and ignores DST offset of offset setting order of appendix table input time. Device supports the continuous time of appendix table entering lock.
Reset order from 0 to 168(=7×24) maximum lasting time.

COMMAND_CLASS_USER_CODE
The device user code restores 6 digits. If user code is not 6 digits, it will ignore user code setting order.

IV、After sales service

1、Routine maintenance

- Please keep your fingers clean when use the product.
- Avoiding contact with corrosive substances or liquids so as to affect the appearance of the body.
- Strictly prohibit hard objects to knock fingerprint reading head surface to prevent damage and affect the normal use.
- If the fingerprint capture window surface is dirty that may affect the normal use of locks. Please keep window clean everyday.
- Safekeeping of the keys, when the fingerprint or password can not open door, please use the keys.
- Please change battery when Low-voltage alarming, so as not to affect the normal use of locks.
- Lock surface can be used furniture polish wax to keep glossy.
- Do not use water or alcohol to clean fingerprint capture window. Only permit to use soft cloth to sweat stains of the collector window.

2、After-sale services

- Product warranty for free in 1 year. The product turns to quality problems, it shall acquire free warranty after installed and inspected by the two sides. But the man-made factors (such as the improper use, man-made damage, etc.), force majeure cause accidental damage, it does not belong to the scope, and maintenance required charges for the cost of fees. User-demolition-off or without the company agree to non-designated repair sites for door locks will not gain warranty.
- Life maintenance. Collect cost price after 1 year.

Appendix one

Warranty card

counterfoil for customer

Product Type : _____

Product Model : _____

Date of Production : _____

Purchasing Date : _____

Purchasing Address : _____

Installation Date : _____

Purchasing Uint : _____

Name : _____

Address : _____

Zip code : _____

Phone number : _____

Thank you for your purchasing finger-print door lock.To ensure that product plays excellent performance and makes you feel at ease and confortable,the ompany offers the following services.:

Product warranty for free in 1 year.The product turns to quality problems,it shall aquire free warranty after installed and inspected by the two sides.But the man-made factors(such as the improper use,man-made damage,etc.)force majeure cause accidental damage,it does not belong to the scope ,and maintenance required charges for the cost of fees.User-demdi or without the company agree to non-designated repair sites for door locks will not gain warranty.

Life maintenance,Collect cost price after 1year.

Appendix two

NO.(filled in by Manufacturer): _____

Warranty card

counterfoil for the factory

Product Type : _____

Product Model : _____

Date of Production : _____

Purchasing Date : _____

Purchasing Address : _____

Installation Date : _____

Purchasing Uint : _____

Name : _____

Address : _____

Zip code : _____

Phone number : _____