BENZOVILLE
HARDWARE

USER MANUAL

（**KR-140**）

1. Product Instruction

1.1 Appearance and components:

1.1.1 Front panel

1.1.2 Lock body

KR-140-1 blade type locks body
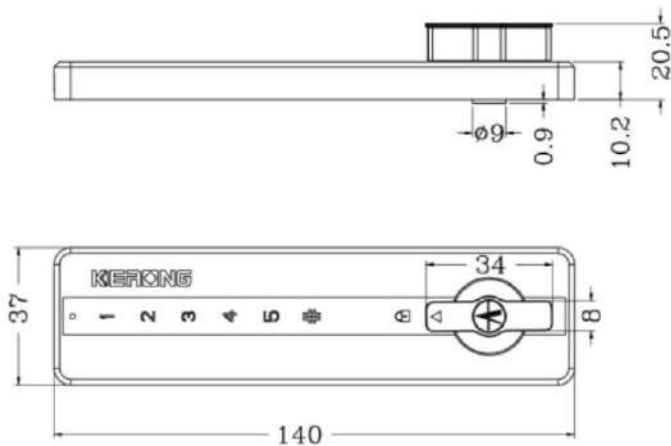

KR-140-2 retractable type locks body
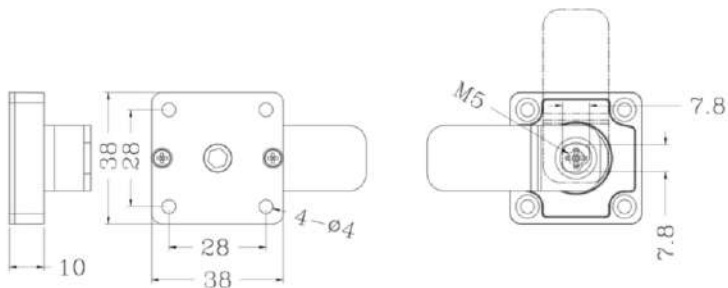

KR-140-3 rocker type locks body

1.2 Dimension:

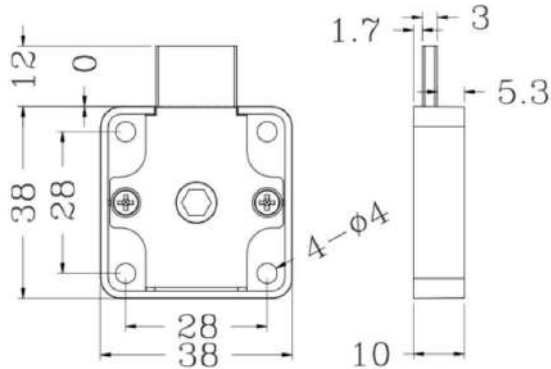### 1.2.1 Dimension of front panel:

1.2.2 Dimension of lock body

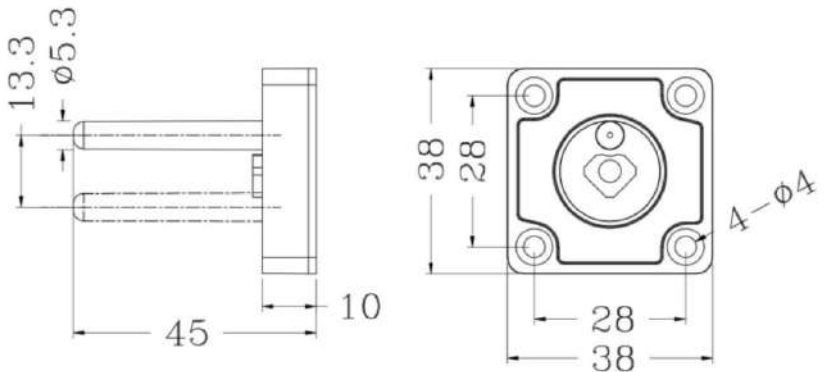#### 1.2.2.1 KR-140-1 blade type lock body

Type：KR-140-1 Material：Zinc alloy +Cold-rolled steel
Surface treatment: matted chrome plating

1.2.2.2 KR-140-2 retractable type lock body

Type：KR-140-2   Material：Zinc alloy +Cold-rolled steel

Surface treatment: matted chrome plating
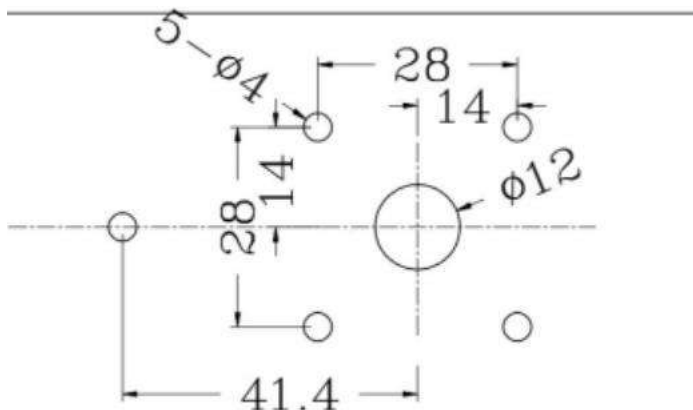
1.2.2.3 KR-140-03 rocker type lock body

Type： KR-140-3 Material： Zinc alloy +Cold-rolled steel

Surface treatment: matted chrome plating

1.2.3 Drawing of Installation holes in door:

1.2.4 Instruction of installation:

2 Product functions

	Functions	Factory settings	usage	Note
Code management	User code	1111	User can change code of 4~8 digits	If forget user code, manage code can unlock as well. If forget manage code, User can apply for OTP to unlock.
	Management code	5555		
	OTP (one time password)	Standard	Software generate OTP	After using management code or OTP, lock will

	function		automatically	return to factory default setting.
	Messy code protection	1、 User can input any random numbers (before and after) of the full correct code to unlock, as long as the correct code is sequential. 2、 The total code should be less than 20 digits.		
	Lock function after wrong code	It will be locked for 5 minutes if input wrong code for 5 times, During this period, any operation is useless only along with red light blink .		
Sound remind	Keyboard sound	Any input of the keyboard will make a "di" sound.		
	Correct code	Every time after input correct code, it will make a long "di--"sound.		
	Wrong code warning	Every time after input the wrong code, it will make warning"di, di, di" sound.		
	Change code	After change code successfully, it will make a long "di---"sound		
	Stand-by mode	3 seconds without operation, it will make a "du" sound and enter into stand-by mode automatically		
	Initializat	After initializing, it will make"di, di"sound		

	ion sound		
	Low voltage warning	After operation/before enter into stand-by mode, it will make "di, di, di di"sound	
Light remind functio n	Code correct	Green light will be on for 1 second	
	Code wrong	Red light blink 3 times/s	
	Change code	successfu lly	Green light will be on for 1s
		failed	Red light blink 3 times
	Low voltage	Every time after operation/before enter into stand-by mode, both lights blink twice；	
Syste m mana geme nt	Initializatio n	Standard configur ation	1.Press initialization　button to reset 2、All codes and settings will be back to factory setting after initialization.
	OTP system	Standard equipme nt	1、Customer can use the OTP system by themselves. 2、Customer need to have the uniform Background Server or Terminal system.
Powe	Battery	International standard CR2032 /3V button	

r supply		battery, stand-by time is more than 1 year	
	Extension Battery box	Optional	Can extend power supply as customer required, extend lifetime of battery; Need to add an extra battery box for power supply.
Working Mode	Private mode	Change to Private mode: "##4#"-management password- "#"	Factory default setting is Private mode.
	Public mode	Change to Public mode: "##5#"-management password- "#"	
structure	Clutch	Servo clutch with lower power consumption , support servo "reversing"	With utility model patent
	Emergency open (mechanical key)	Optional	1.Mechanical lock can be placed in the knob position for emergency use. 2.The key can be one master key or independent key.

3 Technical parameters

	Name	Material/Finish	Parameter	Configuration
	Front panel	Zinc alloy& pearl chrome plated	Salt spray test for 96	Weight:126g
	Rotary knob			

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Structure parameters	Lock body		hours	Weight:56g
	Torsion of knob		>120 kgs	
	Door thickness	Suit for steel door, wooden door, and ABS door etc. Door thickness: 1.0～30.0mm		
Electronic parameter	Battery	CR2032(cell battery)	3V	1 PCS
	Static current		<10UA	Working life under stand-by mode:2 years
	Dynamic current		<30MA	Unlock times: >5000 times
	Working temperature		-15～ +65℃	
	Working humidity		5～95%	
	Low voltage alarm		<2.45V	Can work 200 times after alarm.
Electrostatic interference	Touch discharge		>6KV	

	Anti-air discharge		＞8KV	

4 Installation & Test

4.1 Installation

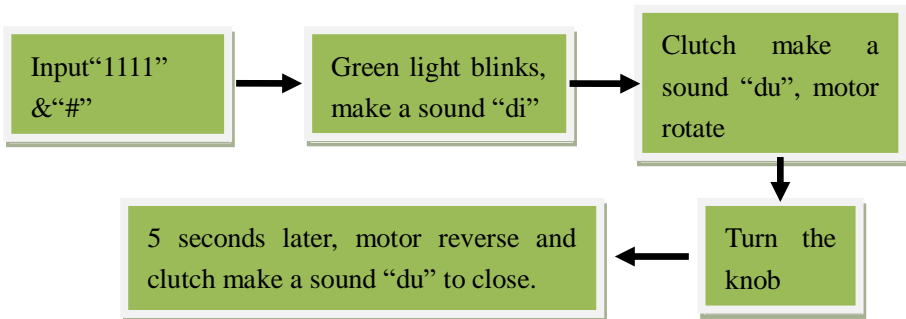4.1.1 Install according to the "Installation Instruction";

4.1.2 After installing, please test the lock.

4.1.3 Warm tips: Please test the whole lock and confirm it can work well

Before close the door.

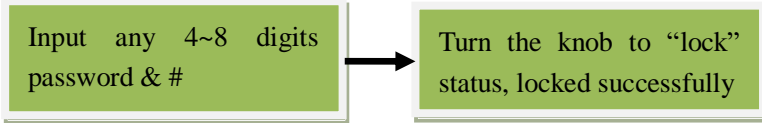**4.2 Test procedure:**

4.2.1 "Private mode" unlocking test:

Input"1111" &"#"	→	Green light blinks, make a sound "di"	→	Clutch make a sound "du", motor rotate

5 seconds later, motor reverse and clutch make a sound "du" to close.	←	Turn the knob

4.2.2 "Private mode" locking test:

Turn the knob, latch stuck in lock position----locked

4.2.3 "Private mode" locking test:

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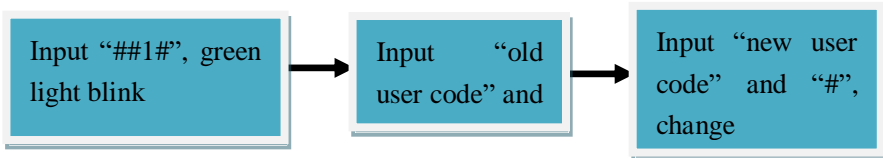HARDWARE

| Input any 4~8 digits password & # | → | Turn the knob to "lock" status, locked successfully |

4.2.2 "Private mode" unlocking test:

| Input the same password which locked the lock | → | Turn the knob unlock |
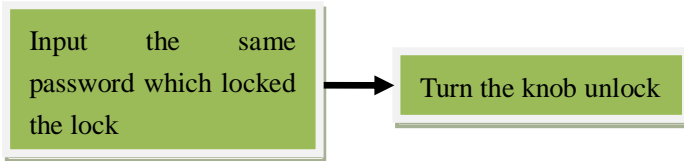
5. Operation process

5.1 Change code：

5.1.1 Change user code：

| Input "##1#", green light blink | → | Input "old user code" and | → | Input "new user code" and "#", change |

5.1.2 Change management code：

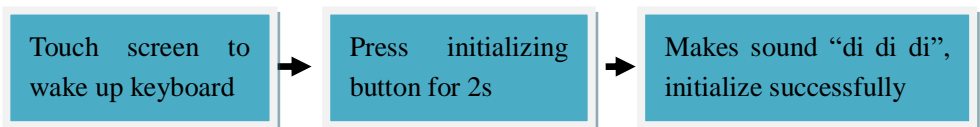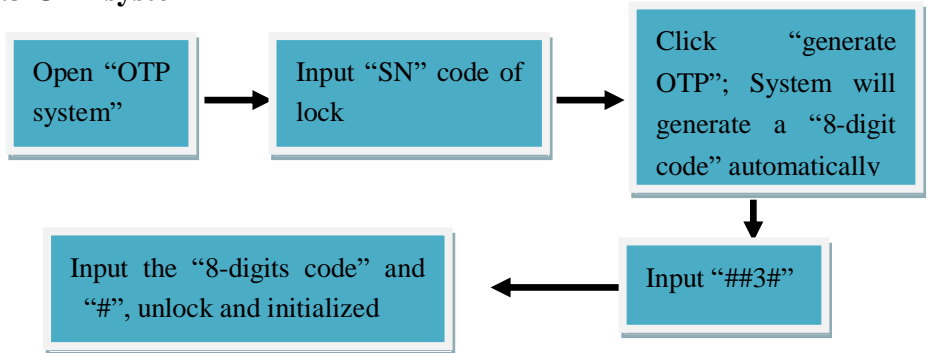| Input "##2#", green light blink | → | Input "old management code" and "#" | → | Input "new management code" and "#", change successfully. |
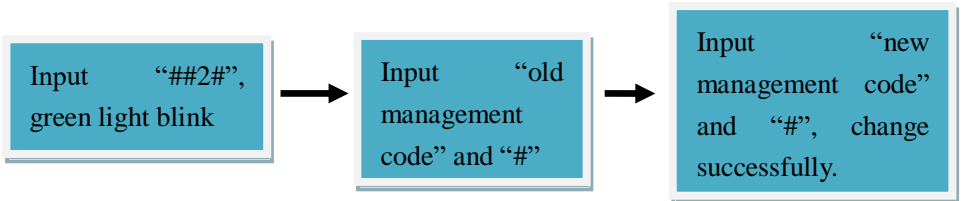
5.1.3 Public mode is without certain user password, password is only valid for one operation: input any code for locking, then input the same code for unlocking.
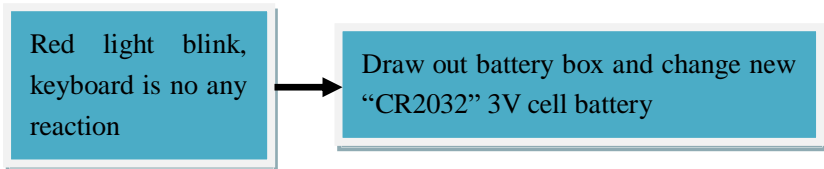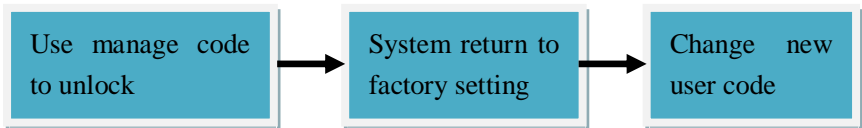
5.2 Initialize:

| Touch screen to wake up keyboard | → | Press initializing button for 2s | → | Makes sound "di di di", initialize successfully |

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5.3 OTP system

```
Open "OTP system"  →  Input "SN" code of lock  →  Click "generate OTP"; System will generate a "8-digit code" automatically
```

```
Input the "8-digits code" and "#", unlock and initialized  ←  Input "##3#"
```

5.4 Solutions for common Fault

5.4.1 Out of power：

```
Red light blink, keyboard is no any reaction  →  Draw out battery box and change new "CR2032" 3V cell battery
```

5.4.2 Forget user code：

```
Use manage code to unlock  →  System return to factory setting  →  Change new user code
```

5.4.3 Forget manage code：

```
Use OTP to unlock  →  System return to factory setting  →  Change new manage code
```

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