Product Image

AUTOMATIC ENTRANCE SPECIALISTS

Contents

Technical Parameters

Voltage: 110 ~220V ±10%

Power consumption: 50W

Opening time: 3-7s/90°

Hold open time: 1~30s adjustable

Max. door frame depth: 450mm

Door width: Min. 660mm / Max. 1200mm

Max. opening angle:120°

Environment Temperature: -20℃-+50℃

Protection class: IP12D

Product weight: 6.5Kg

Dimension: L540xH95xW82mm

mm=Door width
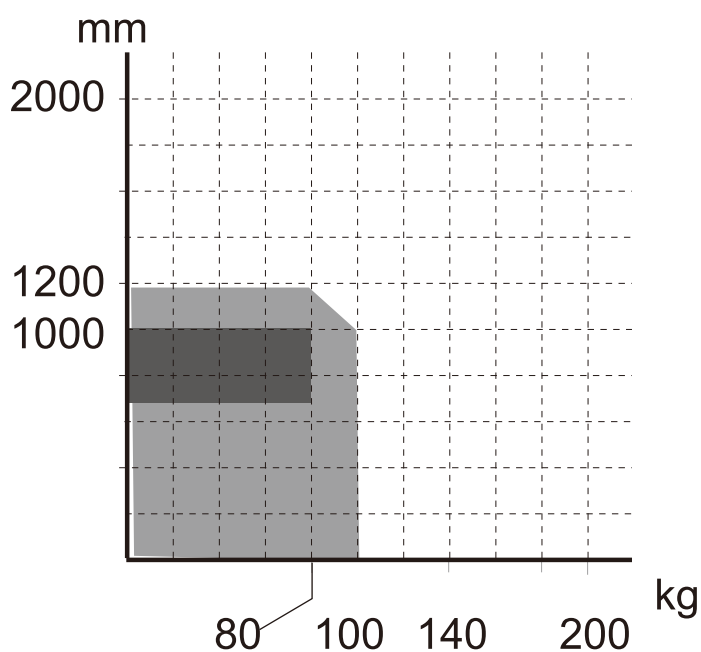
kg=Door weight

Suitable range

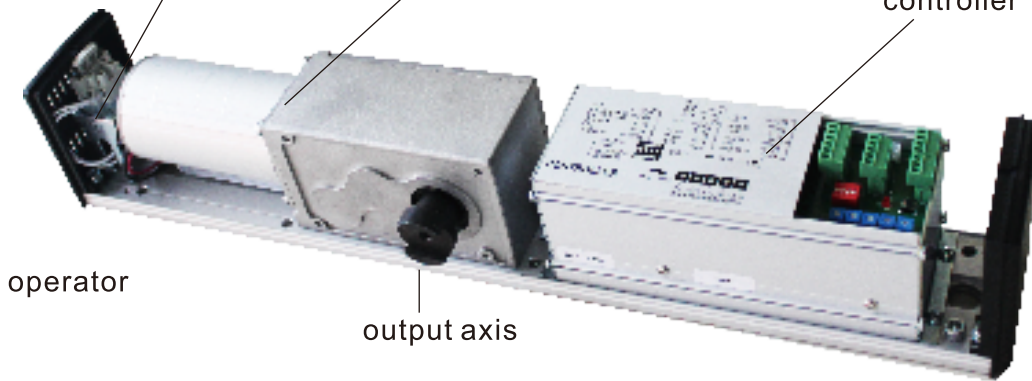Range limit

hole for power cable

hole for sensor cable

base plate

power connector

motor

controller

operator
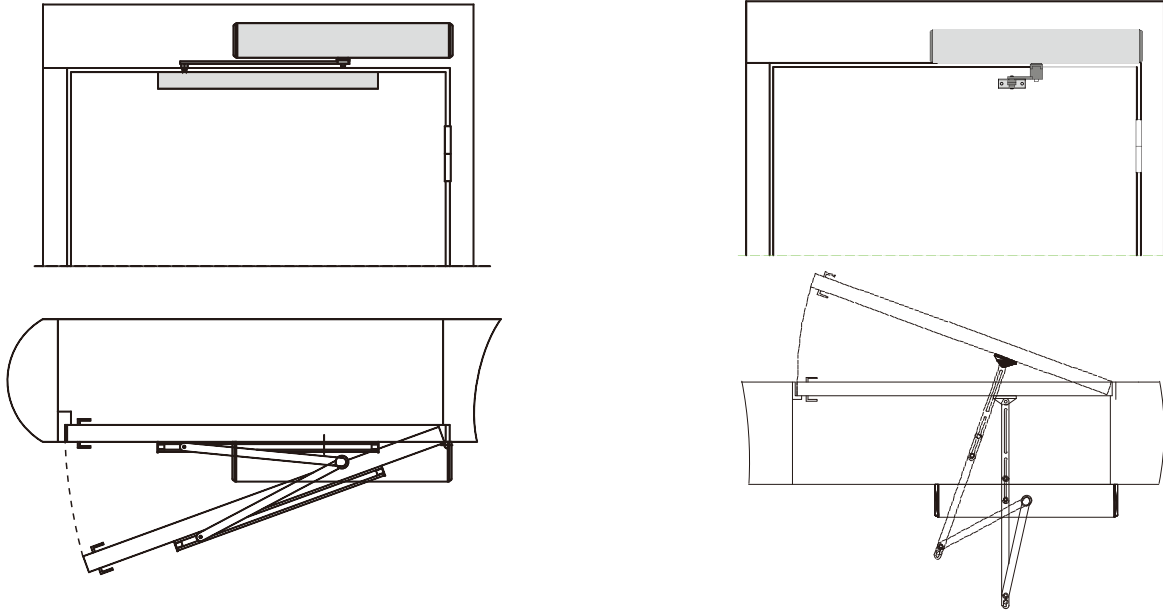
output axis

cover

pull arm(alternative)
Inward opening

push arm(alternative)
Outward opening

3.1 Installation example

Choose pull arm: door leaf open toward inside {operator is inside)

Choose push arm: door leaf open toward outside (operator is inside)

3.2 Installation of base plate

Pull arm
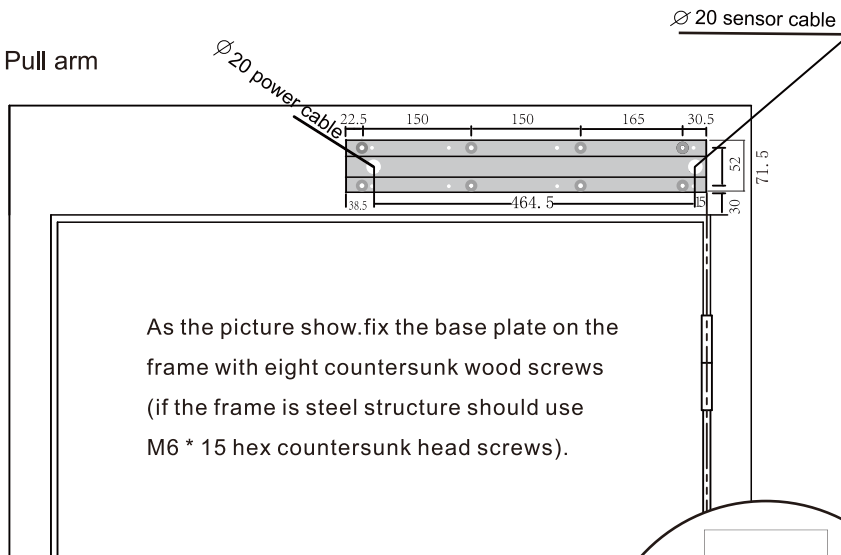
Ø 20 sensor cable

Ø 20 power cable

22.5 150 150 165 30.5

71.5

52

38.5 464.5 15 30

As the picture show.fix the base plate on the frame with eight countersunk wood screws (if the frame is steel structure should use M6 * 15 hex countersunk head screws).

At door right

Ø 20sensor cable

Ø 20power cable

22.5 150 150 165 30.5

71.5

52

38.5 464.5 15 30

As the picture show,fix the base plate on the frame with eight countersunk wood screws (if the frame is steel structure should use M6 * 15 hex countersunk head screws).

At door left

3.3 Pull arm

29

240   240   20   160

Fix the slide rail of pull arm on the
door panel as shown using
three round head wood
Screws
(if the door panel is steel,
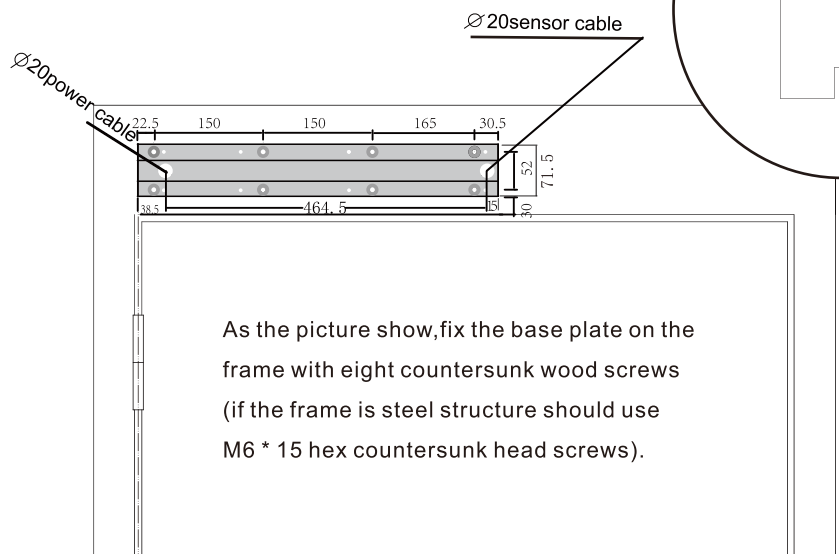please use M6*15 cross
recessed head screws.)

Adjust the opening angle by
moving the stopper
(The stopper is at the left side
when left installation).

At door right

3.4 Pull arm

35

50   290

Fix the support holder of push arm on the door panel as shown
using two round head wood screws
(if the door panel is steel, please use M6*15 cross
recessed head screws.)

315

L

90°

Loosen this three bolts and adjust the push arm length

according to the door depth(L) until the angle between

the push arm and door panel is 90°.

At door right
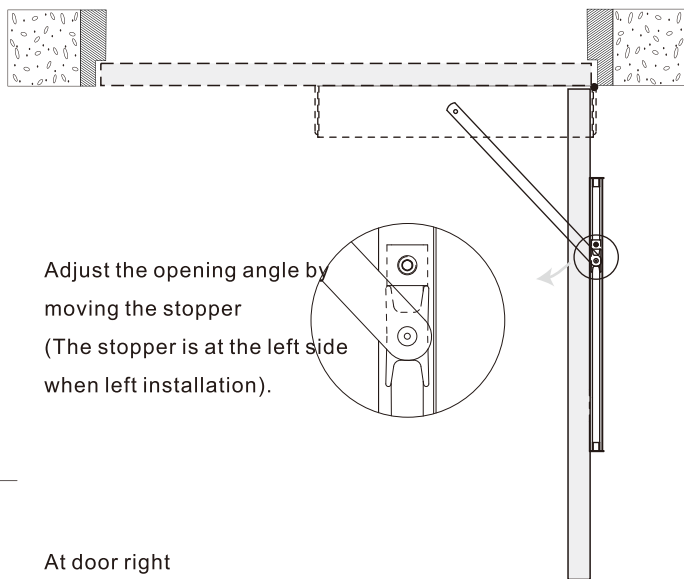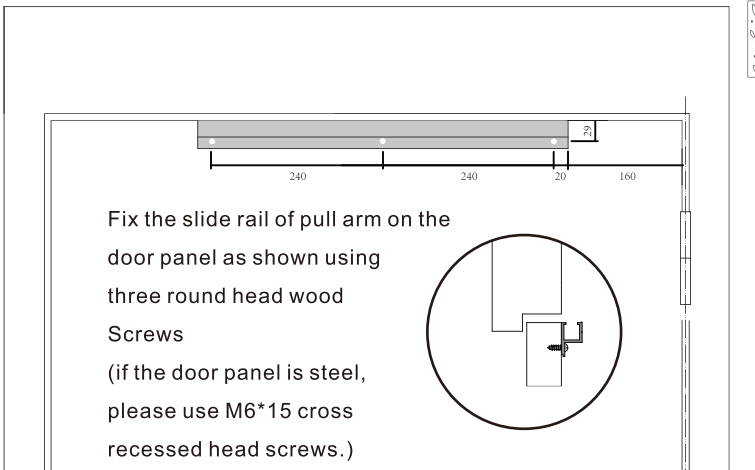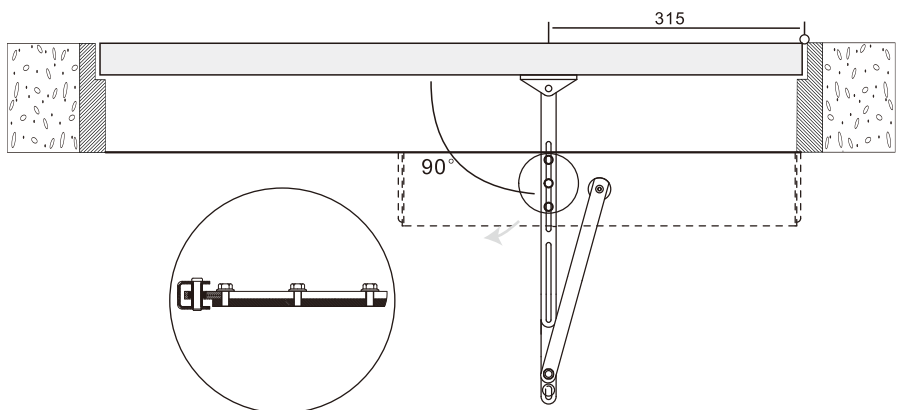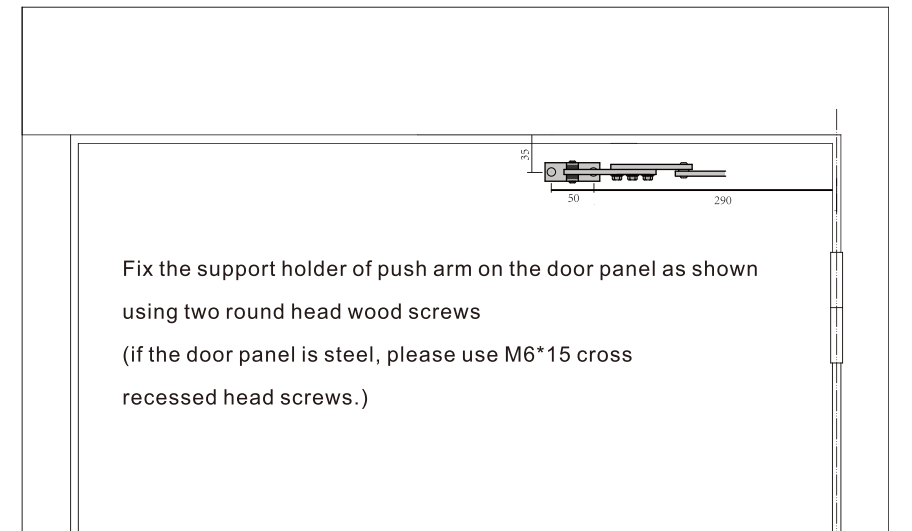
3.4 Pull arm

3.5 operation ststem

Stopper

Adjust the stopper position in the "U hole" according to the diagram.
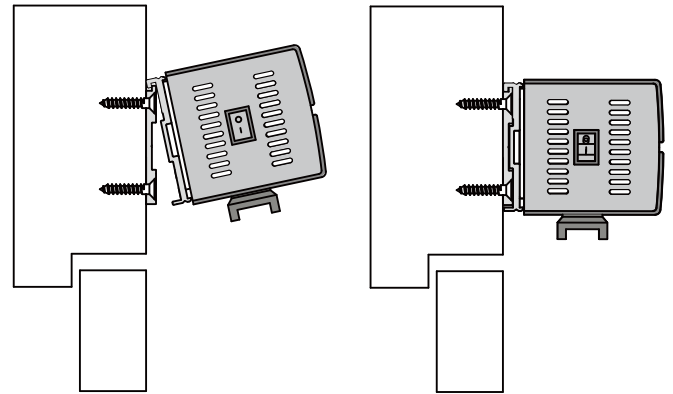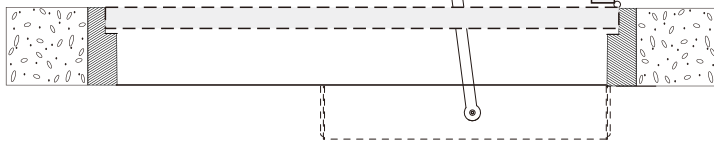
Hook the operation system on the finished base piate as shown,

fix it with eight hexagon socket head screws.

3.6Cover

Opening the cover

3.7Connect the operation system and the pull arm

3.8 Connect the operation system and the push arm

motor axis extend

Electrical connection

power cable

fuse 3A

supply power 110～220V

J5
1 2 3 4

J1

COM
safety sensor/close
safety sensor/open
interlock(input)
COM
interlock(output)

+12V
0 V
e-lock +12V
battery -
battery+24V

J2

1.COM
2.Oneway
3.Lock
4.Hold-open
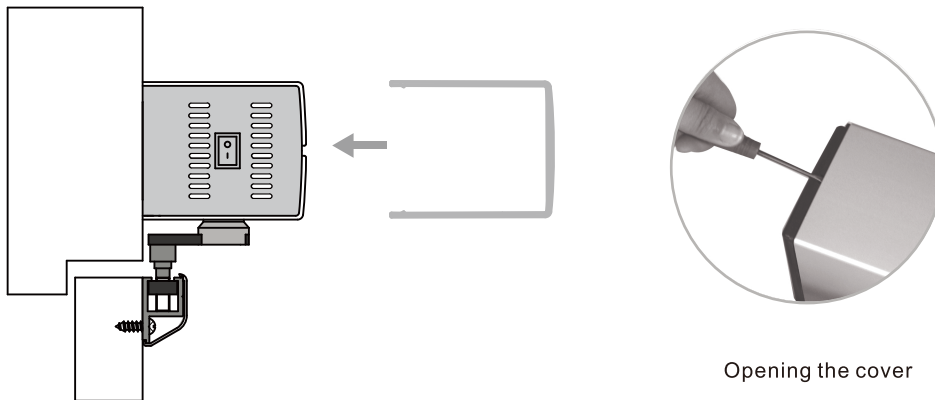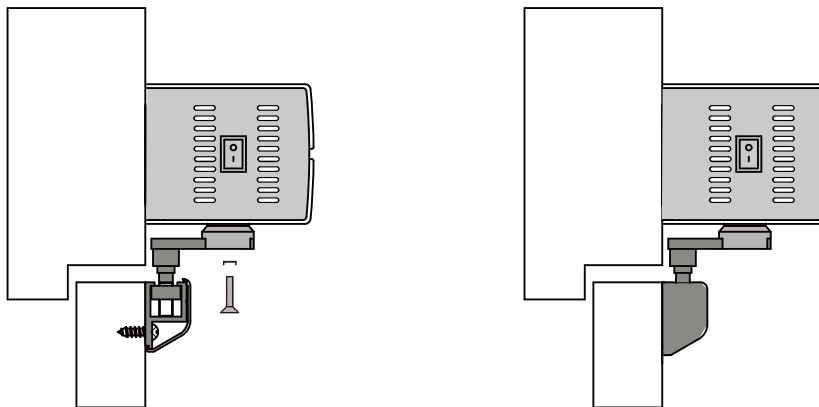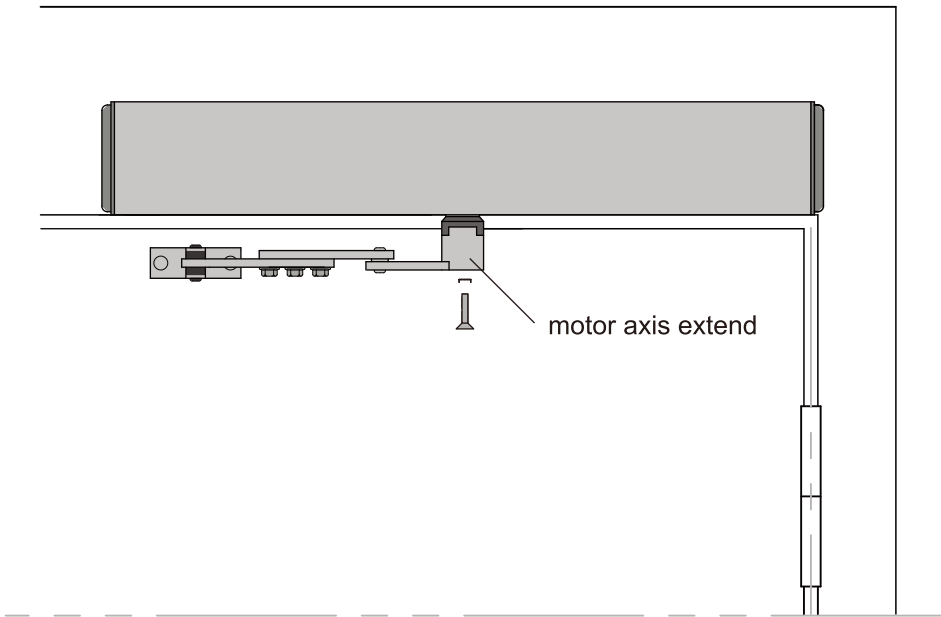
+24V
0V
sensor
access control
sync (input)
COM
sync(output)

J3

J4

K1.open direction
K2.master/slave
K3.close force
K4.pull / push

ON   DIP
1 2 3 4

power light ◯

Encode button

MIN ◯ MAX

opening speed | slow opening angle | closing speed | slow closing angle | hold open time

Safety sensor

J1

COM
safety sensor/close
safety sensor/open
interlock(input)
COM
interlock(output)

safety sensor/close

RVS
GND
TRS SAFETY BEAM
GND MODEL:DL33

NO
Powers: COM
AC/DC 12-36V NC
AC/DC
12-36V

OPEN SINGLE (NORMAL USED)

COM

12~36V AC/DC

J3

+24V
0V
sensor
access control

safety sensor/open

RVS
GND
TRS SAFETY BEAM
GND MODEL:DL33

NO
Powers: COM
AC/DC 12-36V NC
AC/DC
12-36V

OPEN SINGLE (NORMAL USED)

COM

12~36V AC/DC

For safety,please connect the connection in J3 with 24V or J2 with 12V.When the door is closing,the safety beam/close work, the door will oper again.When the door open the safety beam/open work the door will stopped.

Remake:The output power of 12V should less than 10W.

Sensor & access control

access control

J3

+24V
0V
sensor
access control

ALARM
GND
OPEN
DOOR-1
PUSH/N. O
N. C
GND
12+
BEELSW

J2

+12V
0 V
e-lock +12V
battery -
battery+24V

Sensor

+24V 0V COM NO

Remake: The output power of 12V should less than 10W.

Electric lock (Automatic lock)

J2

Electric lock

0V
+12V

+12V
0 V
e-lock +12V
battery -
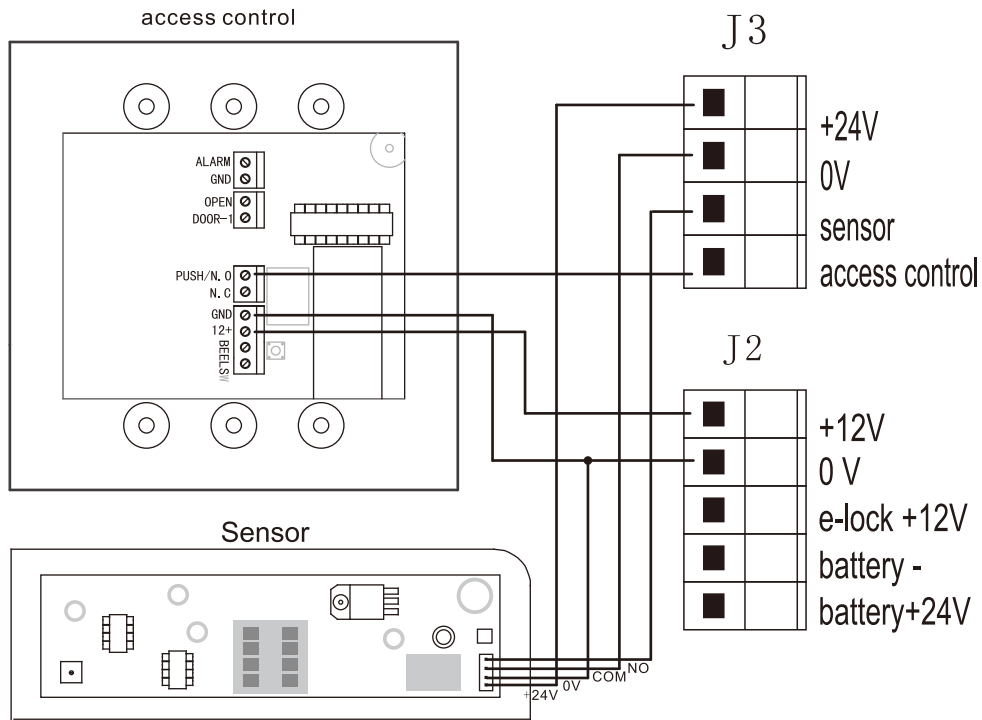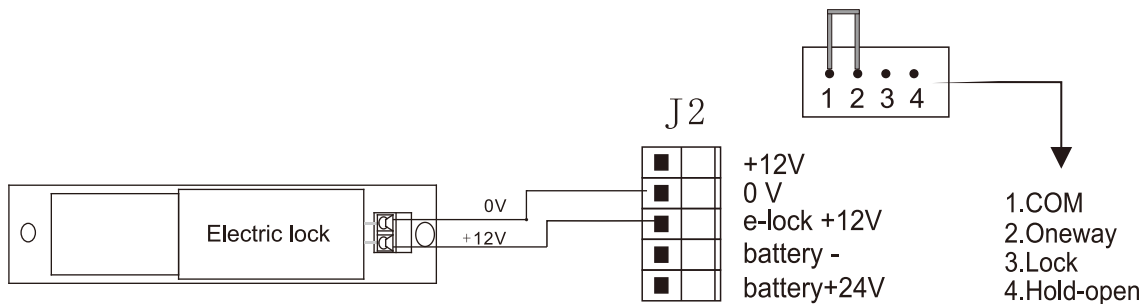battery+24V

1 2 3 4

1.COM
2.Oneway
3.Lock
4.Hold-open

Note: The power supply voltage is 12V, the working current of the electric lock is less than 200MA, and the starting power is less than 800mA.

Electric lock (Remote control lock)
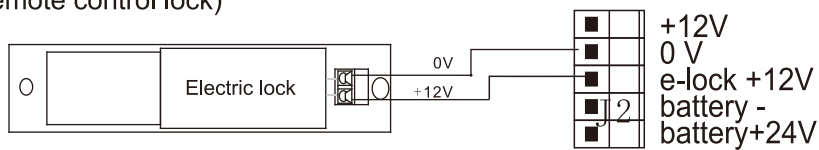
Electric lock

0V
+12V

+12V
0 V
e-lock +12V
battery -
battery+24V

J2

Note: The power supply voltage is 12V, the working current of the electric lock is less than 200MA, and the starting power is less than 800mA.

Backup battery

J2

+12V
0 V
electric lock+12V
battery -
battery+24V

24V Backup battery

0V
+24V

When the backup battery is directly connected to the controller for charging, the charging current must not be greater than 500mA.
Port voltage"battery+" is 27V

Double-door synchronous

synchronous(in)
COM   3-pin
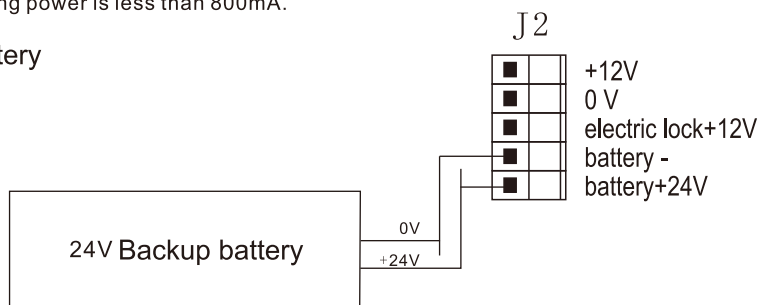synchronous(out)   connector

synchronous(in)
3-pin   COM
connector synchronous(out)

Controller A

Controller B

*When double openingfopen first and close second is master door,close first and open second is slave door; Master door turn K2 down, slave door turn K2 up.
*Sensors and access control system are connected with the master door controller.
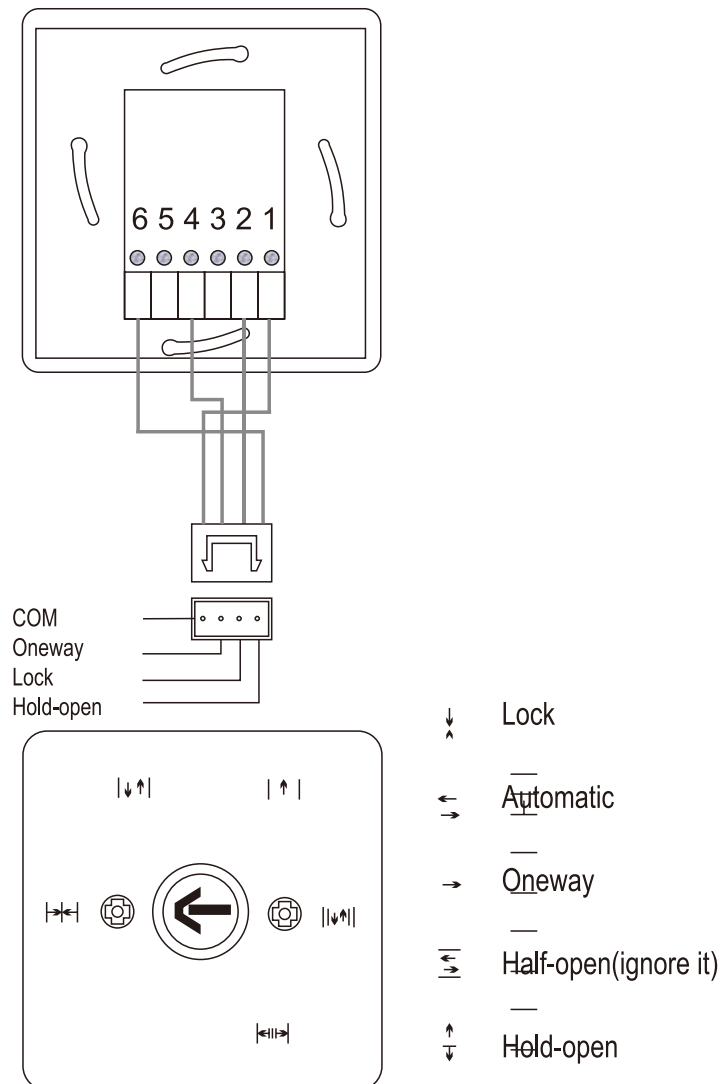
Interlock

6-pin
connector

COM
safety sensor/close
safety sensor/open
interlock(input)
COM
interlock(output)

COM
safety sensor/close
safety sensor/open
interlock(input)
COM
interlock(output)

6-pin
connector

Controller A

Controller B

Note: Two doors share same sensor or same signal source, both doors may hold open, in this case, exchange two signal wires of the sensor which is connected with the same controller, it doesn't matter controller A or B.

optional: Functional key switch

6 5 4 3 2 1

COM
Oneway
Lock
Hold-open

|↓↑| |↑|

|←|←| ⊕   ⊕ ||↓↑||

|←||→|

Lock

Automatic

Oneway

Half-open(ignore it)

Hold-open
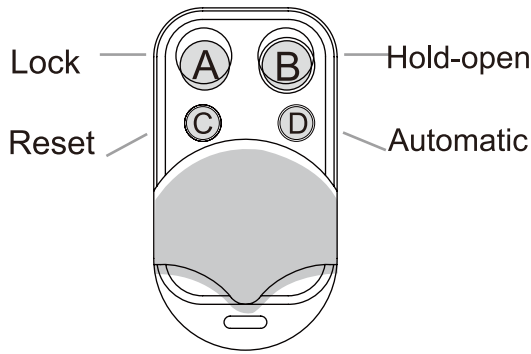
When the key switch is set in Oneway status,the sensor signal is shieslded, But the access control system works normally.

Optional: remote control

Lock —— Ⓐ Ⓑ —— Hold-open

Reset —— Ⓒ Ⓓ —— Automatic

Encode remote control with the door controller:
1. Delete all: long press the button "Encode" until the sound of buzzer disappears, loosen the button.
2. Encoding: long press the button "Encode", the buzzer sounds.
Then press any button of the remote control, the buzzer stops sounding which means encoding successfully.
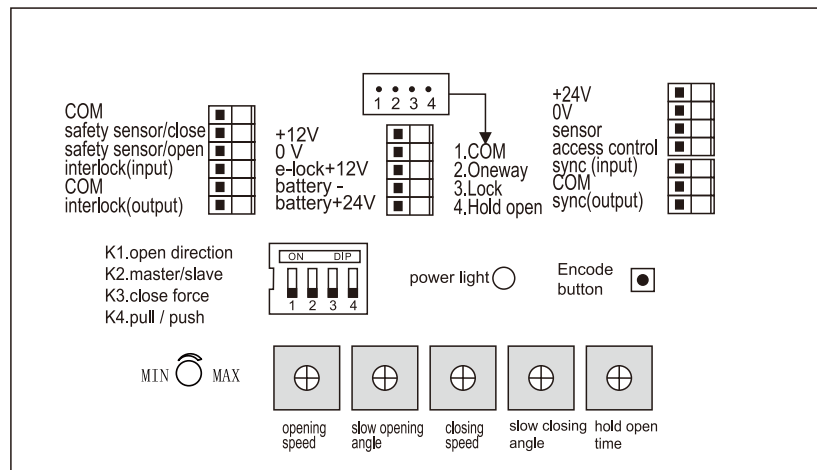When use the remote control, the buzzer sounds for 2 seconds.
3. Note: when use the remote control, if the buzzer udeep" twice, it means encoding failed, so please repeat above step 2.
4. Press button ''automatic" one time, the door wil open and dose one time.
One controller can be connected with remote control not more than 10pcs .

COM
safety sensor/close
safety sensor/open
interlock(input)
COM
interlock(output)

+12V
0 V
e-lock+12V
battery -
battery+24V

1 2 3 4

1.COM
2.Oneway
3.Lock
4.Hold open

+24V
0V
sensor
access control
sync (input)
COM
sync(output)

K1.open direction
K2.master/slave
K3.close force
K4.pull / push

ON   DIP

1 2 3 4

power light ◯

Encode button ▣

MIN ◯ MAX

opening speed | slow opening angle | closing speed | slow closing angle | hold open time

1. Set the DIP switch(K1-K4): after setting, power off and restart.

K1: Set opening direction: power on, the door goes to closing direction, if not,change the switch position.
K2: Set master/slave door: when double-door synchronous,master door turn K2 down (OFF), slave door turn K2 up(ON).
K3: Set closing force: no closing force, turn K3 down(OFF), want closing force, turn K3 up (ON).
K4: Choose pull arm or push arm: pull arm, turn K4 down(OFF), push arm, turn K4 up (ON),

2. User adjustment:
1.Opening speed
2.Slow opening angle
3.Closing speed
4.Slow closing angle
5.Hold-open time

turn clockwise, speed increase
turn clockwise, angle bigger
turn clockwise, speed increase
turn clockwise, angle bigger
turn clockwise, time longer

Turn anticlockwise, it is drcrease.