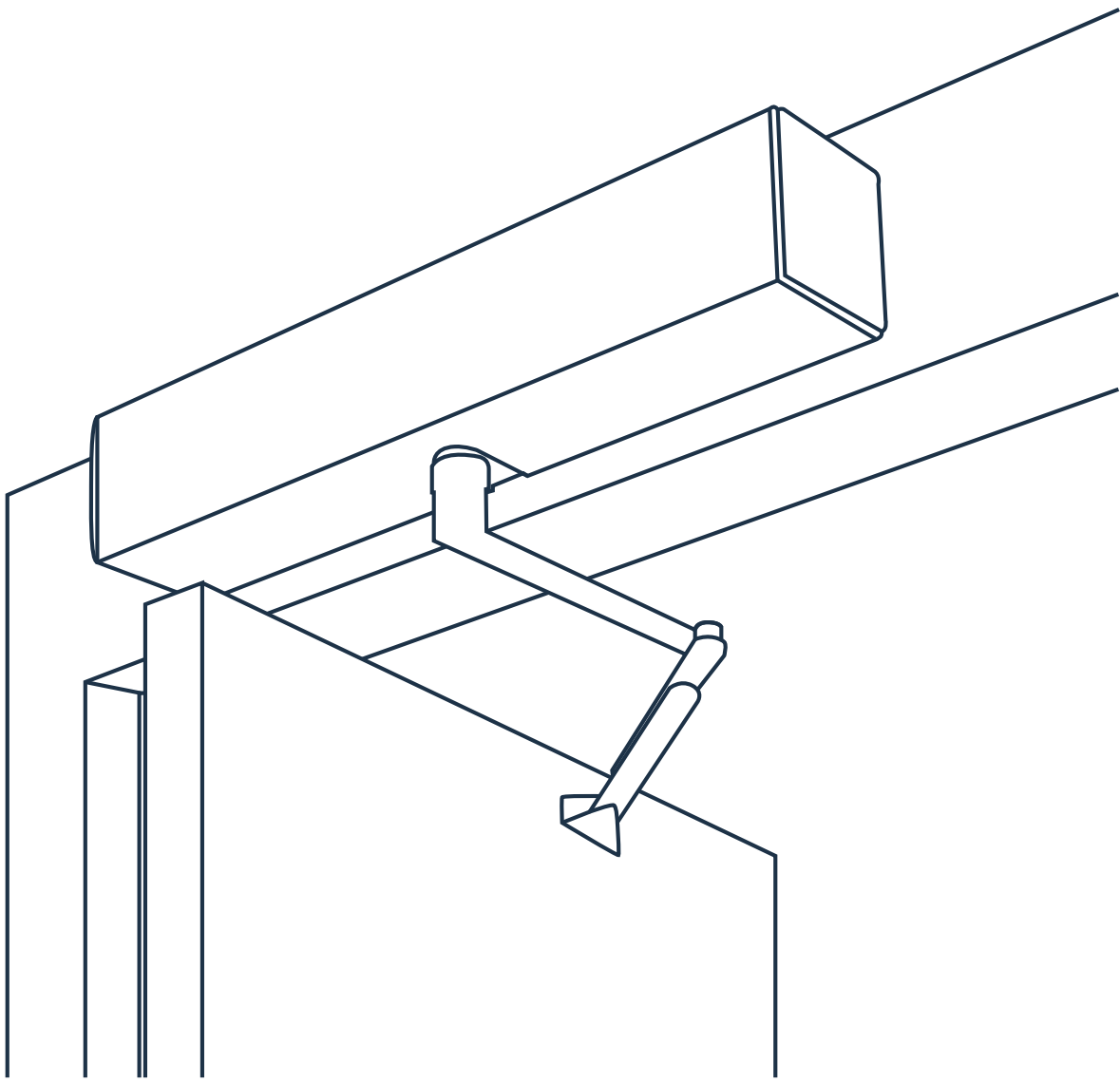
AUTOMATIC SWING DOOR OPERATOR



Please read the manual carefully before use this unit

- Installation of automatic door should be entrusted to the appointed distributer or professional installation personnel, or it may be dangerous.
- Installation must be performed by professional installation personnel according to local law.
- This manual must be kept well for maintenance.

Content

1.Introduction of product

Application: suitable for wooden door,metal door,frame door open to one direction(both single or double open,special Glass clamp is request for glass door installation)

Speed/opening time/open degree/ close force adjustable

Door width： ≤ 1200mm

Door weight： ≤ 150kgs

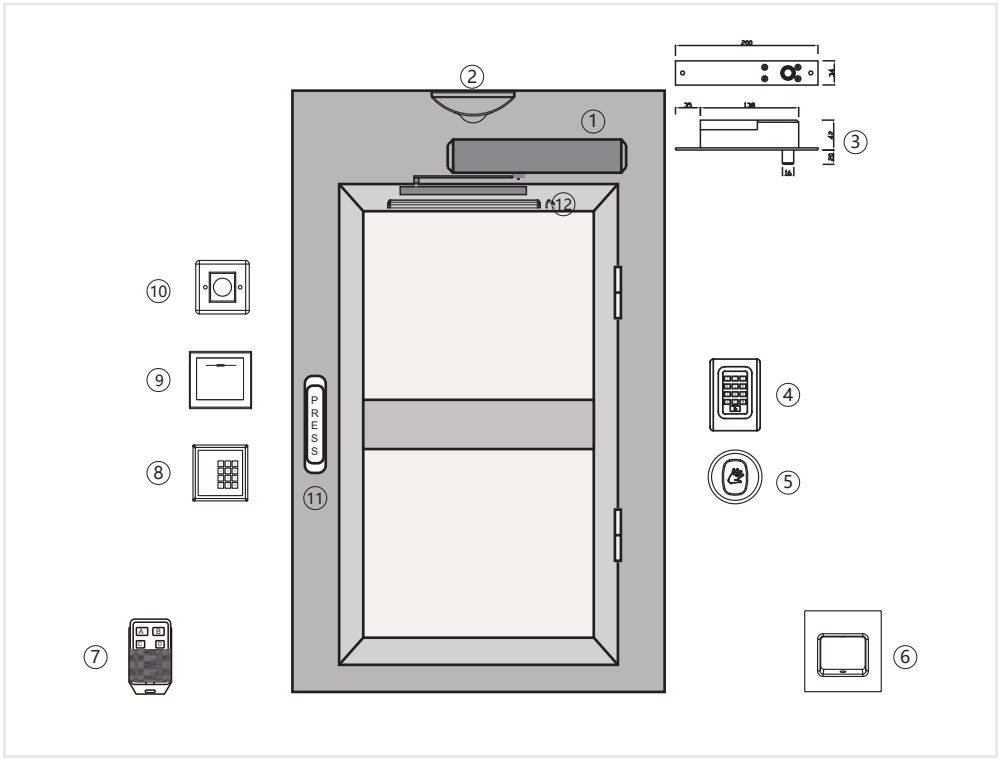
Open degree:60-110 adjustable

Installation: open to inside /open to outside (pull/push bar)

Voltage: AC100V-240V, Output 24 DC

Open device： wireless push button/remote control

2000000 service life test, super reliable



① Swing door mechanism
② Microwave sensor
③ E-lock
④ Access control
⑤ Touchless sensor
⑥ Footkick sensor
⑦ Remote control
⑧ Keypad Integration Access Control
⑨ Push button
⑩ Touchless sensor
⑪ Wireless push button
⑫ Top Scan

1.55w high speed dc brushless motor，long service life，low noise.

2. In main and slave mode. Sequence will not change because of encounter an obstacle.

3.Double gear box design，high speed ratio，high strength，can work with 150kgs door（work with E-lock will more safe）.

4.Push and go function.

5.The voltage of the controller is AC100V-240V, which is applicable worldwide.
The rated power of the motor is 55W

2.Technical Parameters

Power： AC 100V-240V

Active open time： 3-7s/90°

Hold open time： 0-20s

Temperature： -20℃- +55℃

Protection class：IP21

Product weight： 5.5kg

Product size： 475*81*98mm

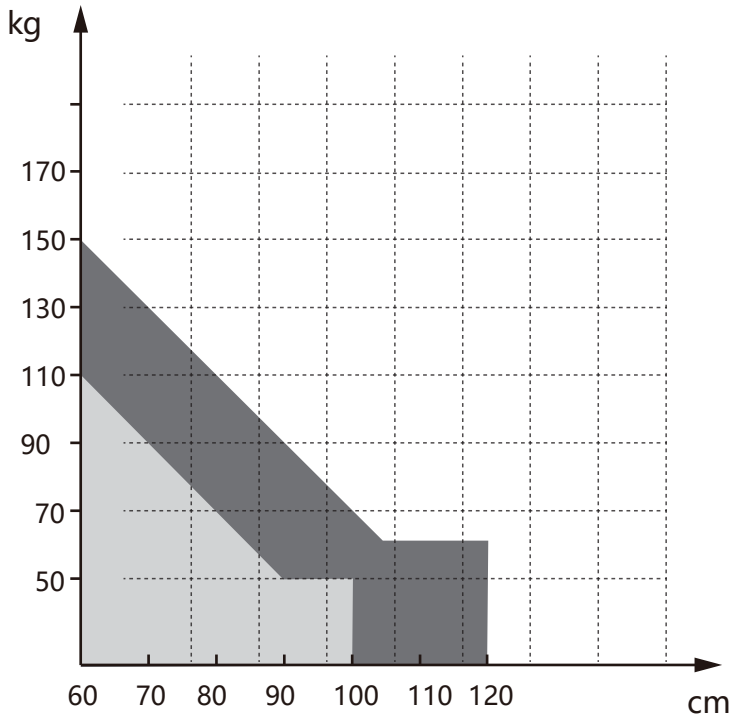
Max open angle： 110°

mm = Door width

kg = Door weight

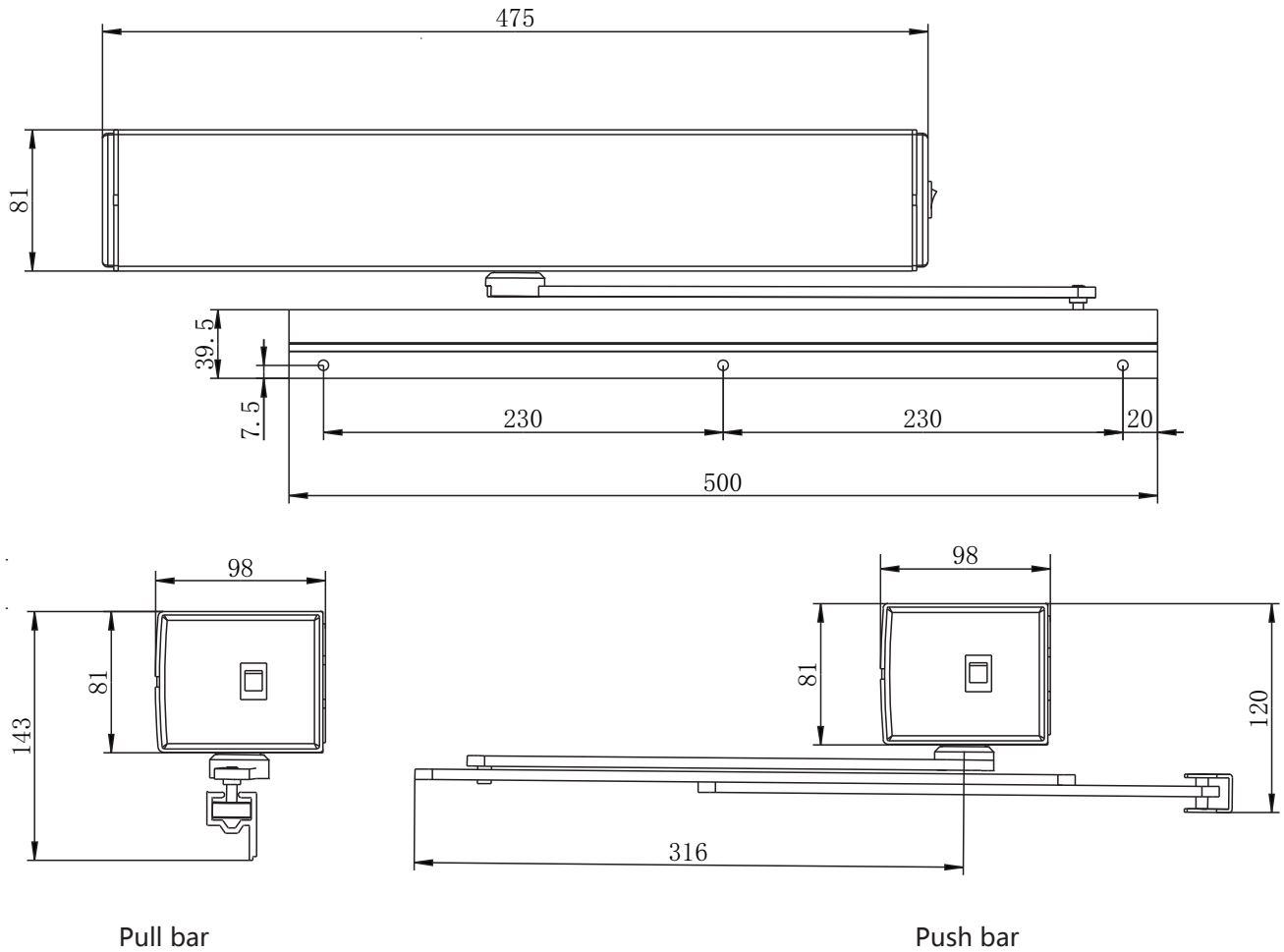
Limited range

Suitable range



3.Swing door operator

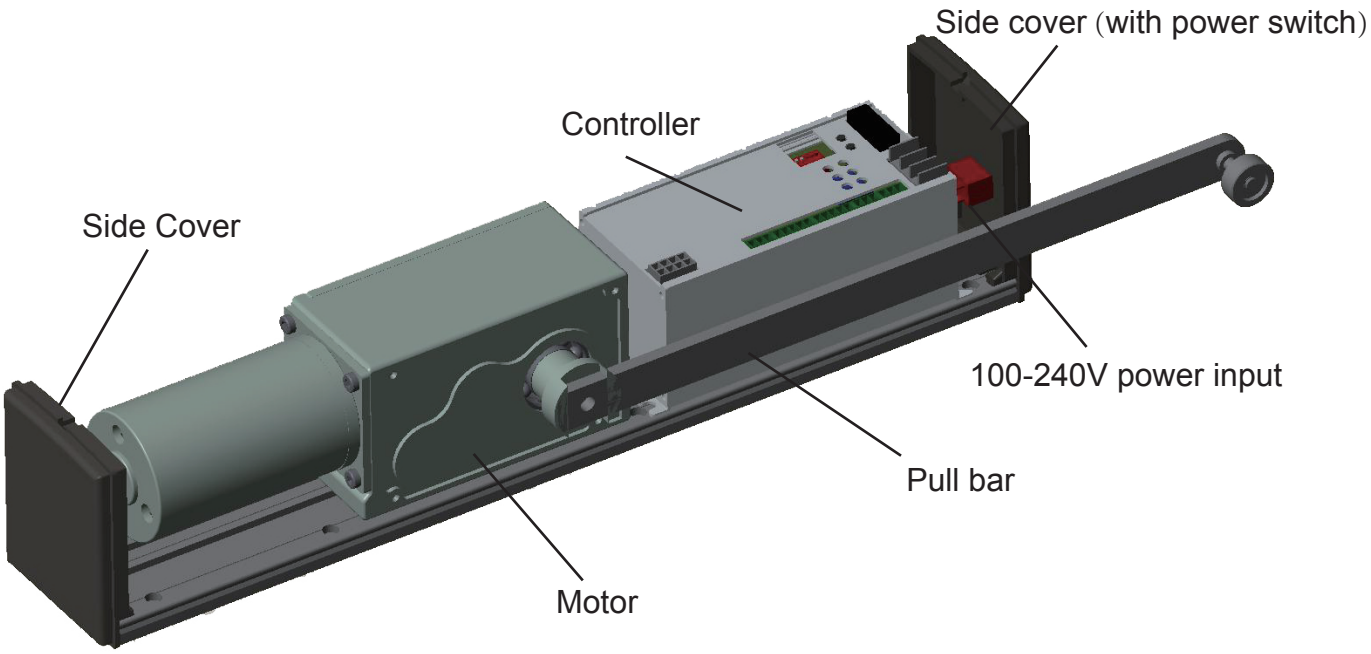
Design for Barrier-Free Accessibility,convenient for the disabled and children.

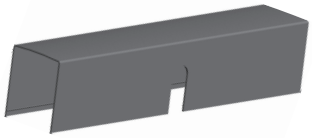
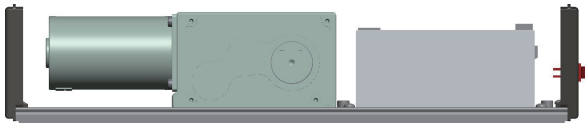


Pull bar

Push bar

4.Components



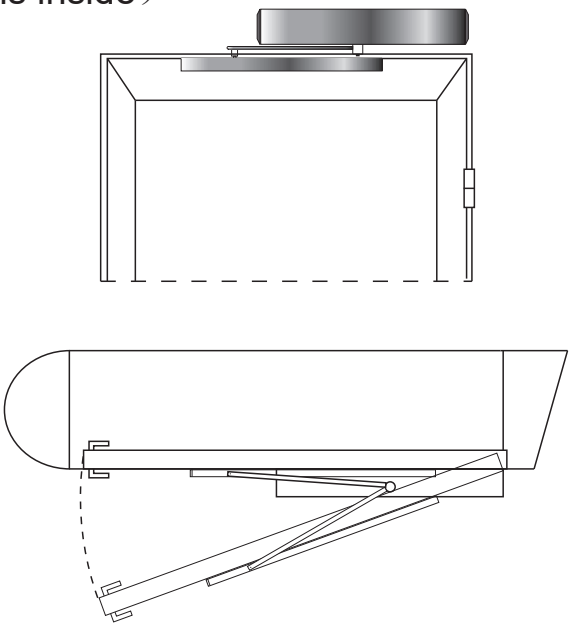
	Base
	Pull bar
	Cover
	Push bar
	Door operator

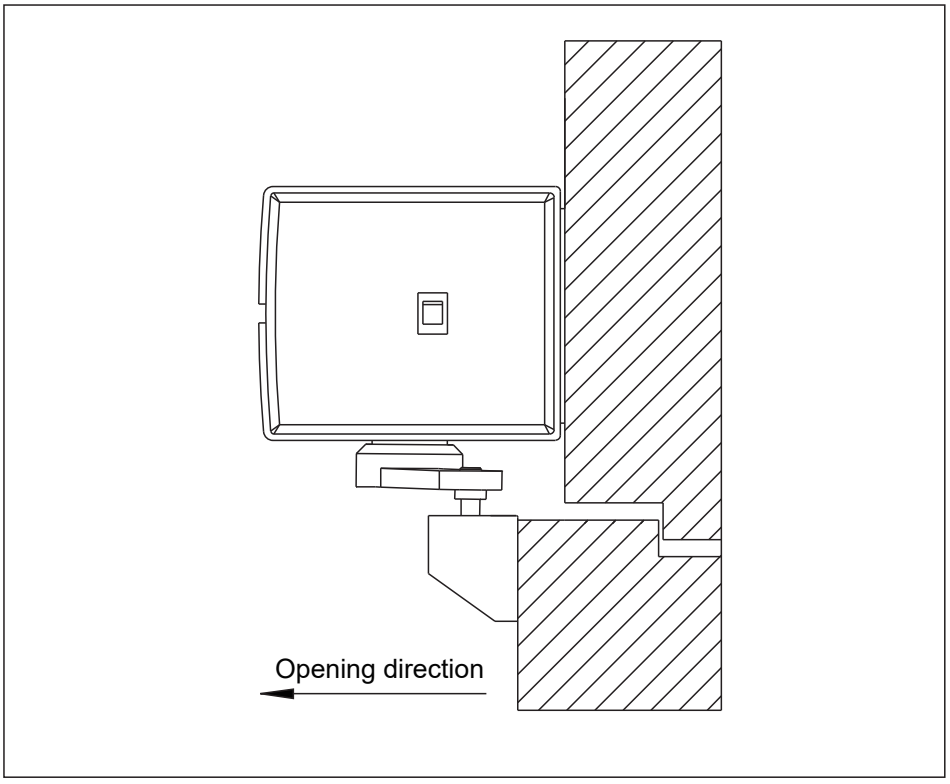
Note: Select one from the pull bar or push bar.

5.Installation step

5.1 Installation demonstration

Installation of Pull bar type，suit for door open to inside
（mechanism is inside）

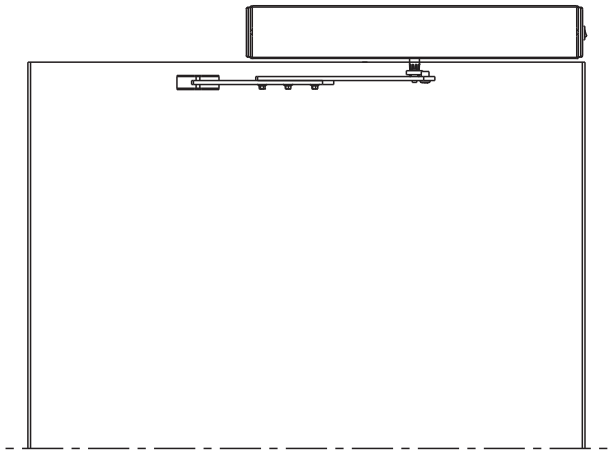


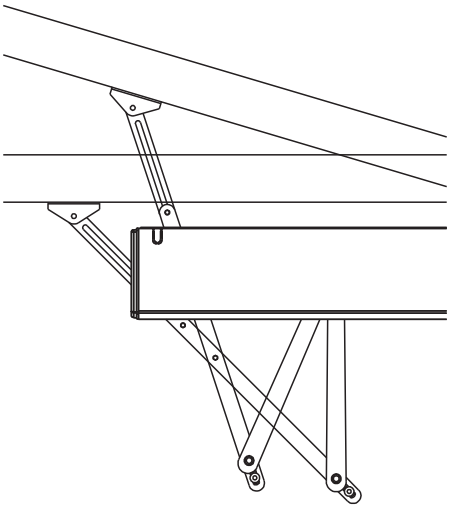


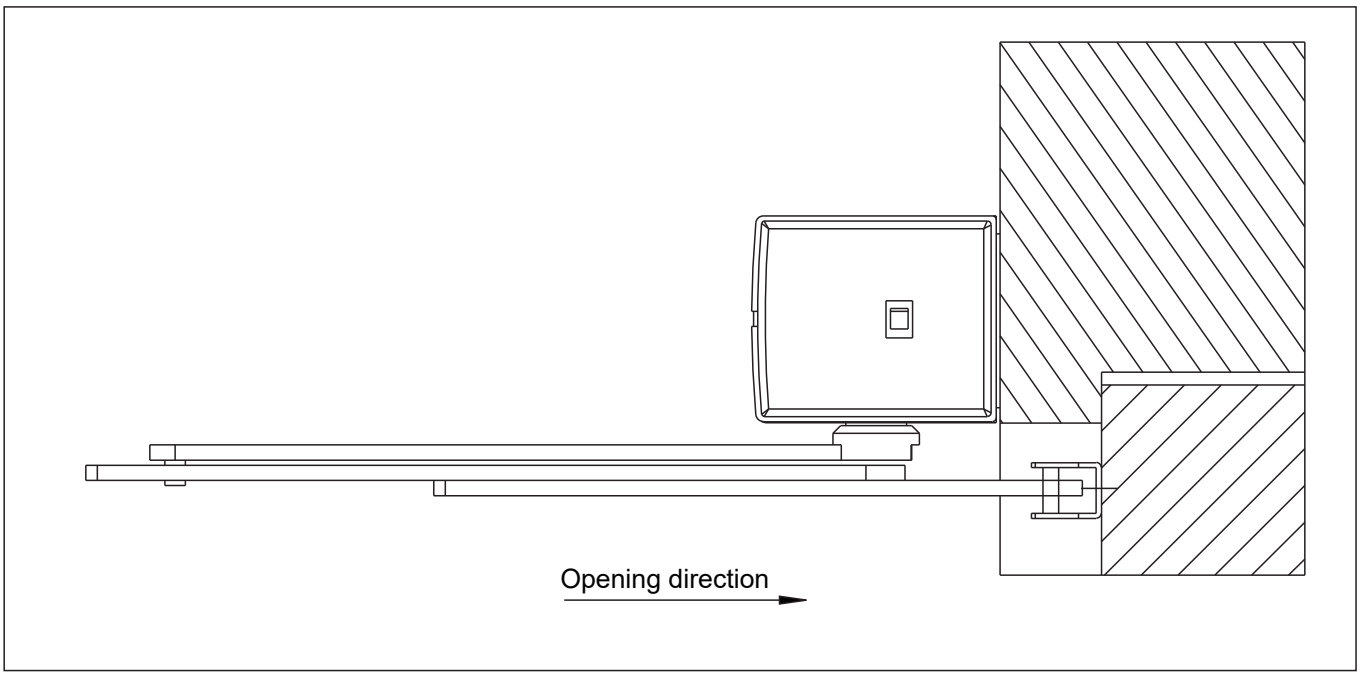
5.Installation step

5.1 Installation demonstration

Installation of Push bar type，suit for door open to inside
（mechanism is inside）



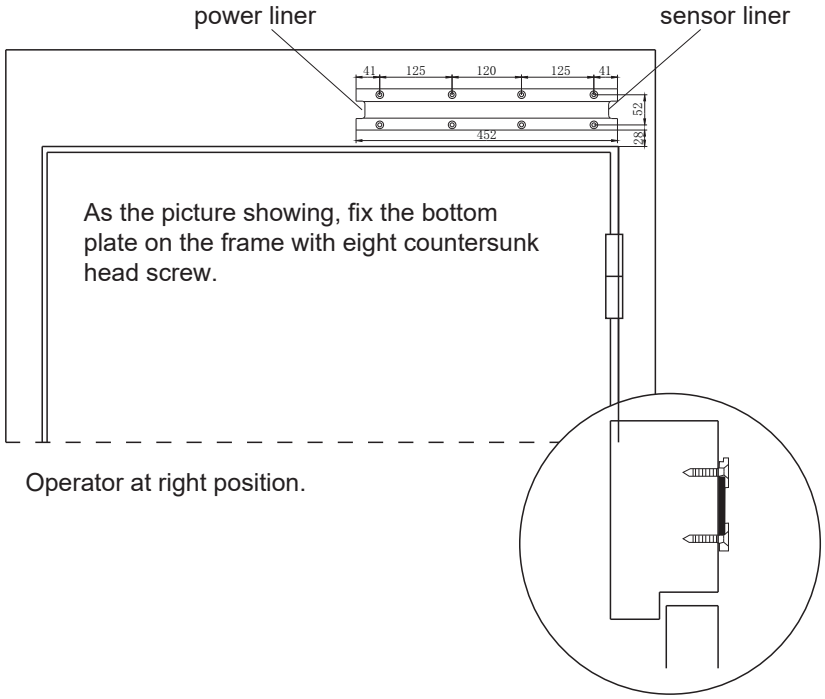


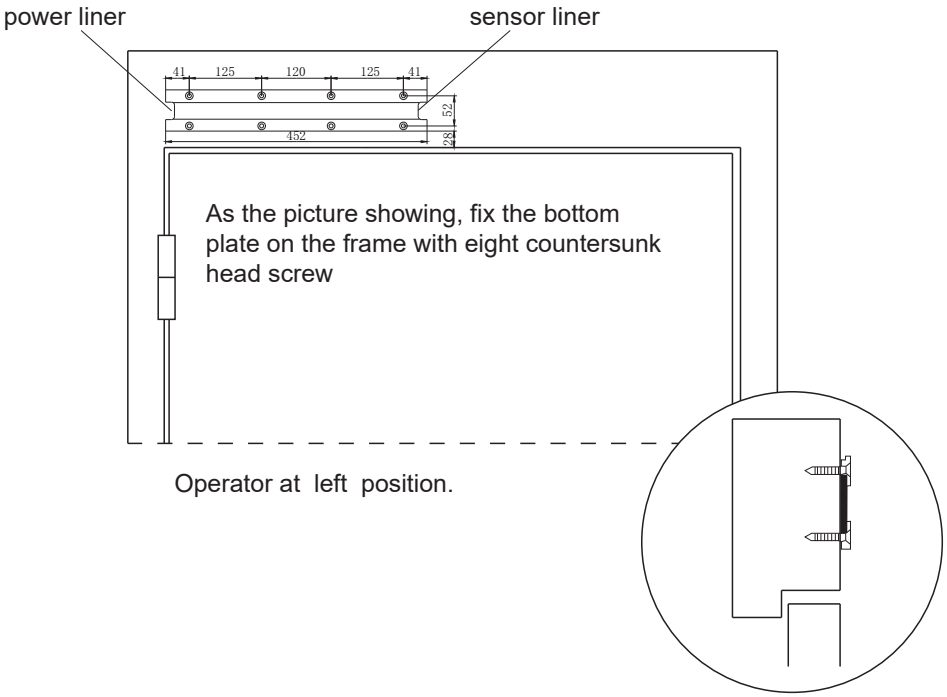


5.Installation step

5.2 Installation of bottom plate

Installation of pull bar type

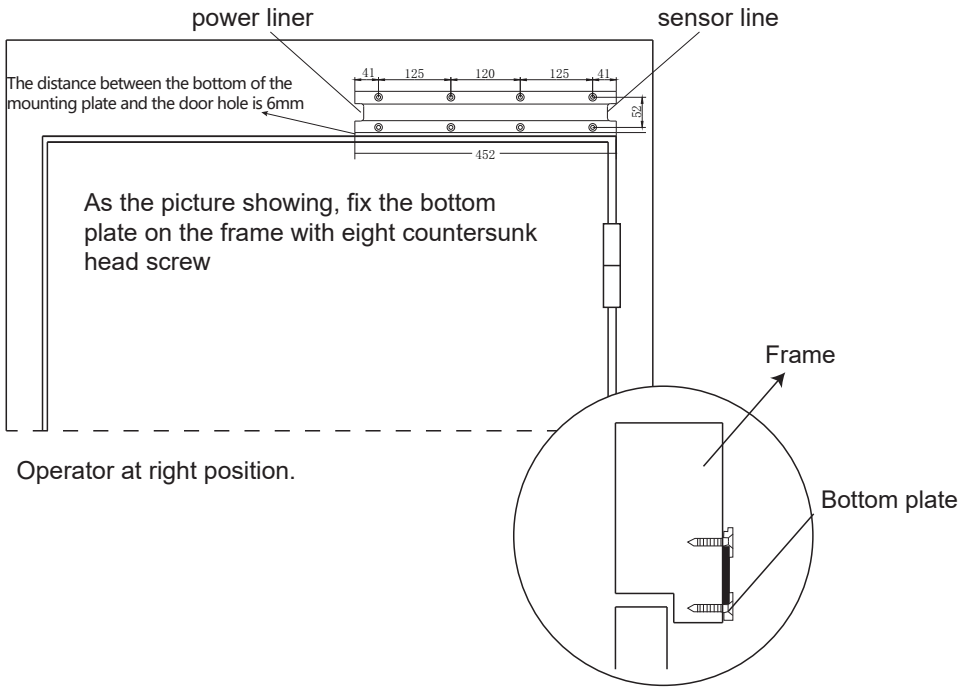


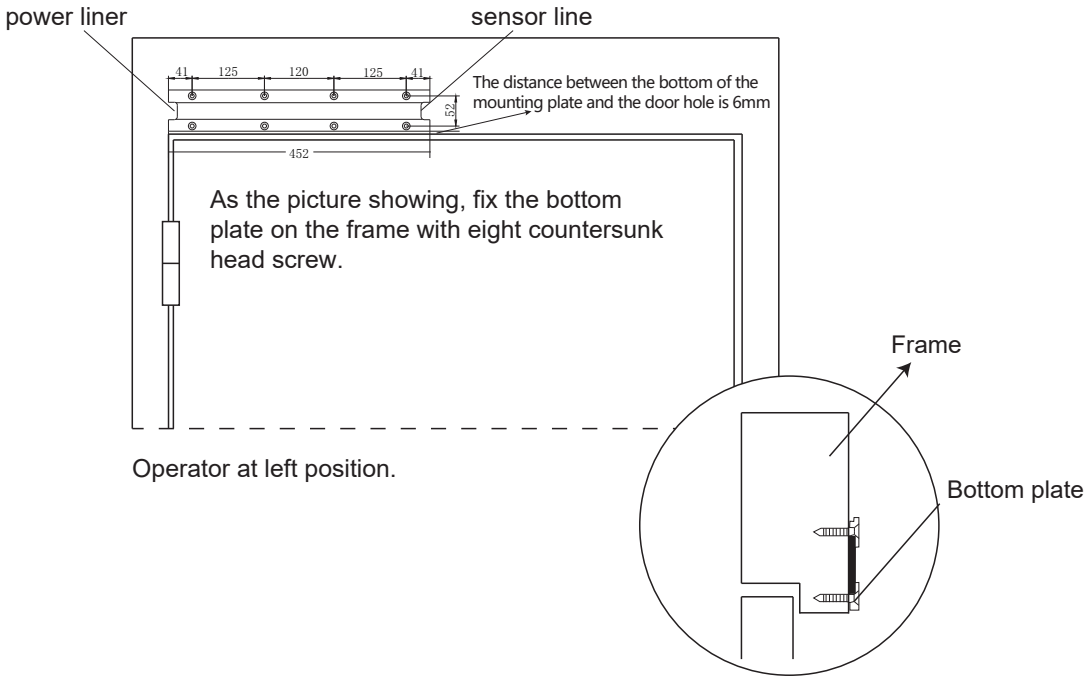


5.Installation step

5.2 Installation of bottom plate

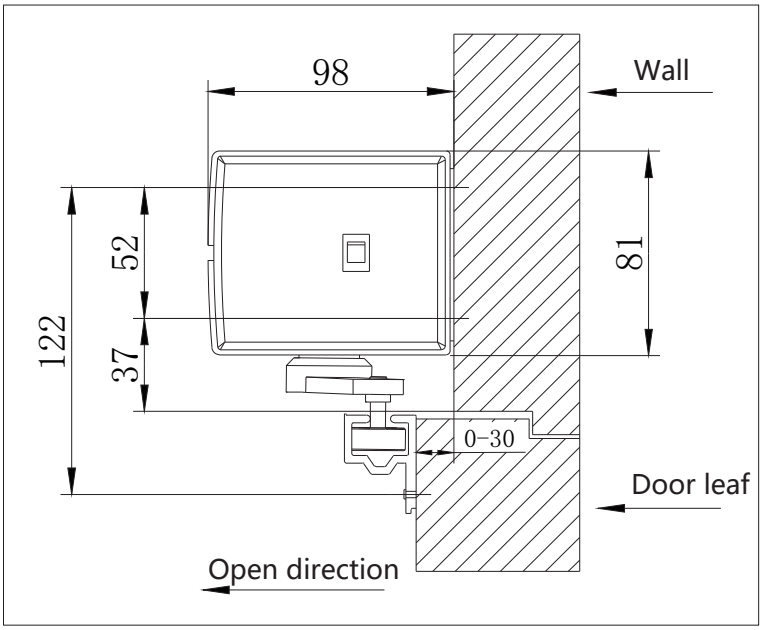
Installation of push bar type



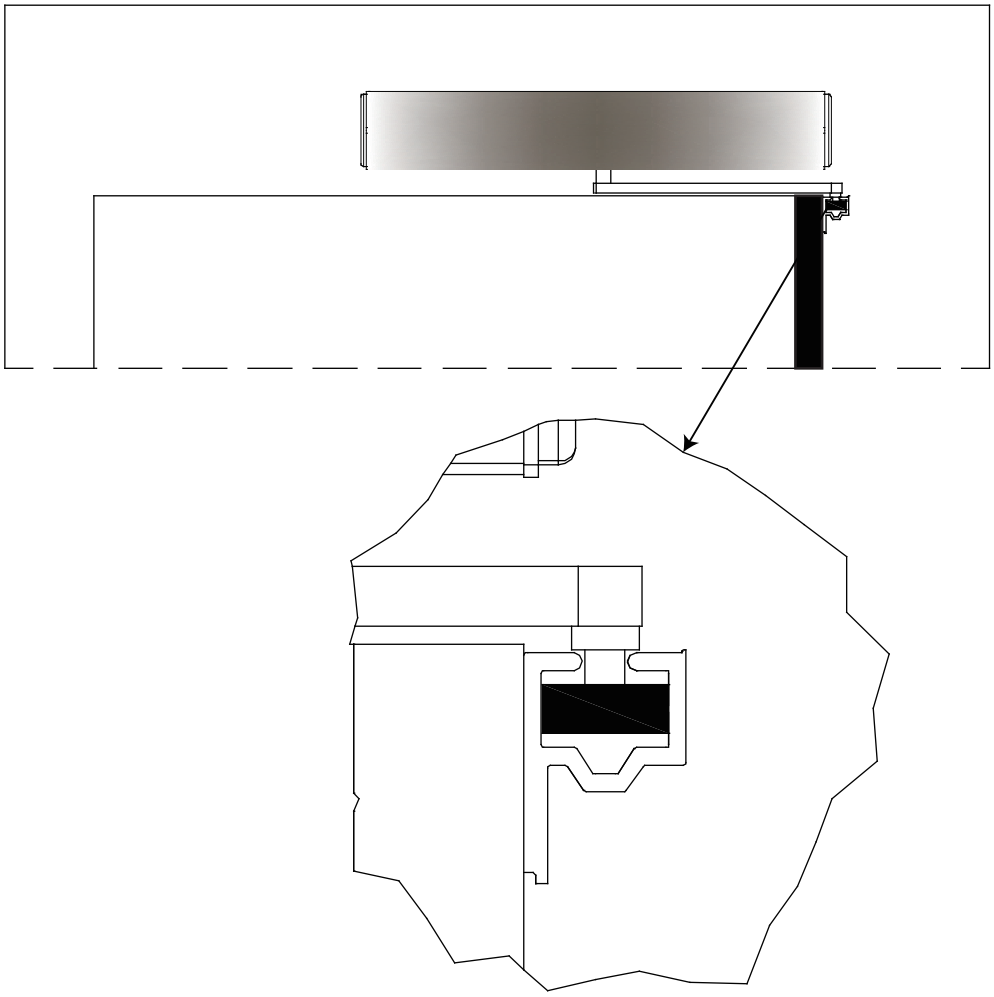


5.Installation step

5.3 Installation of pull bar

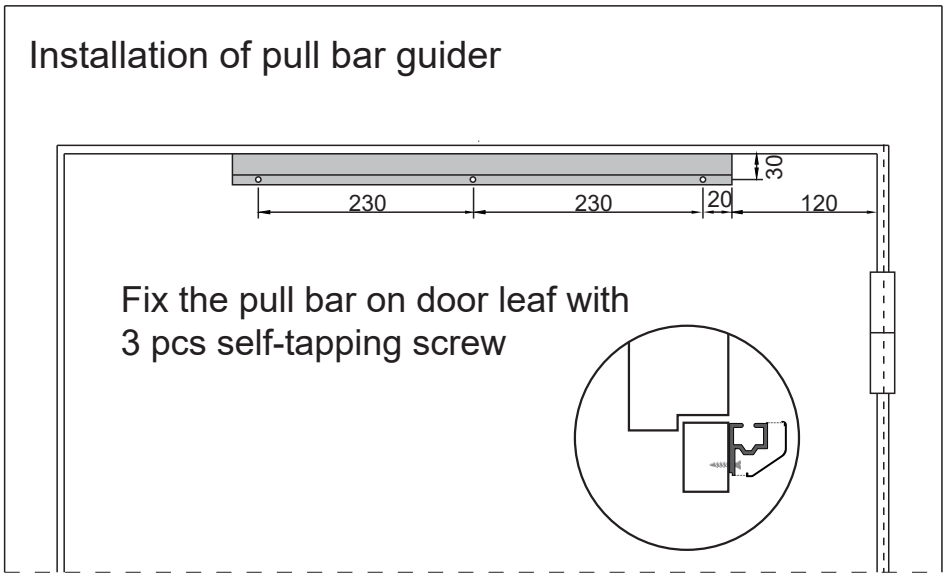


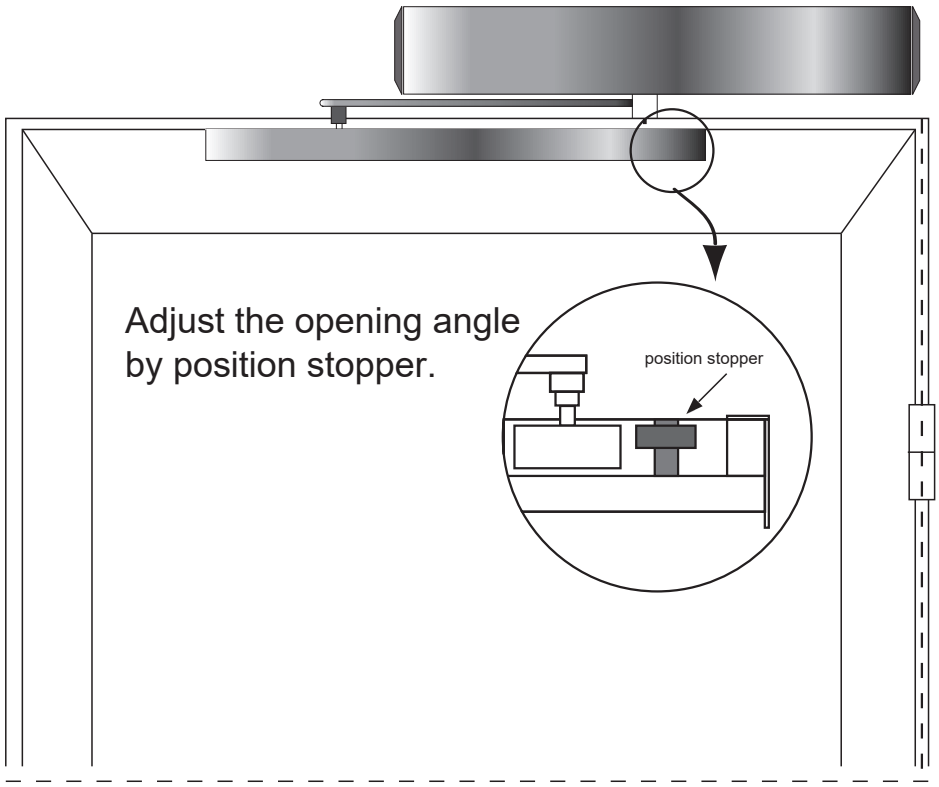
1.Open the door to 90°，slide the pull guide roller into track.
2.Fix the Pull bar plate as shown.
3.Move the plate ensure the wheel at the middle position of track as shwon.
4.Hold the plate postion,fix the first screw near Center of the shaft.
5.Close the door ,repeat step 3，fix another screw at another side.
6.Manually move the door to ensure pull bar work smoothly， adjustment is requested if any resistance during the operating.
7.Fix the last screw.



5.Installation step

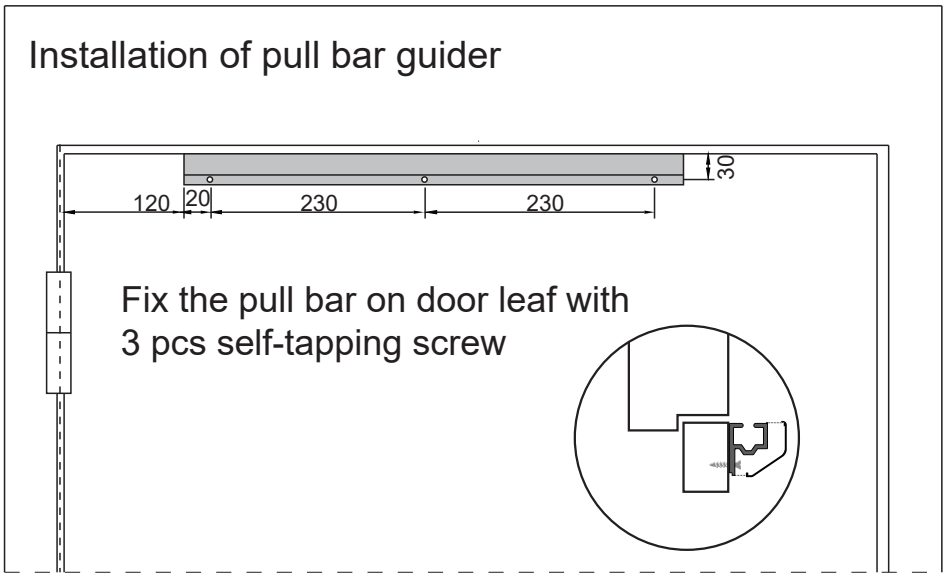
5.3 Installation of pull bar guider(Right position)

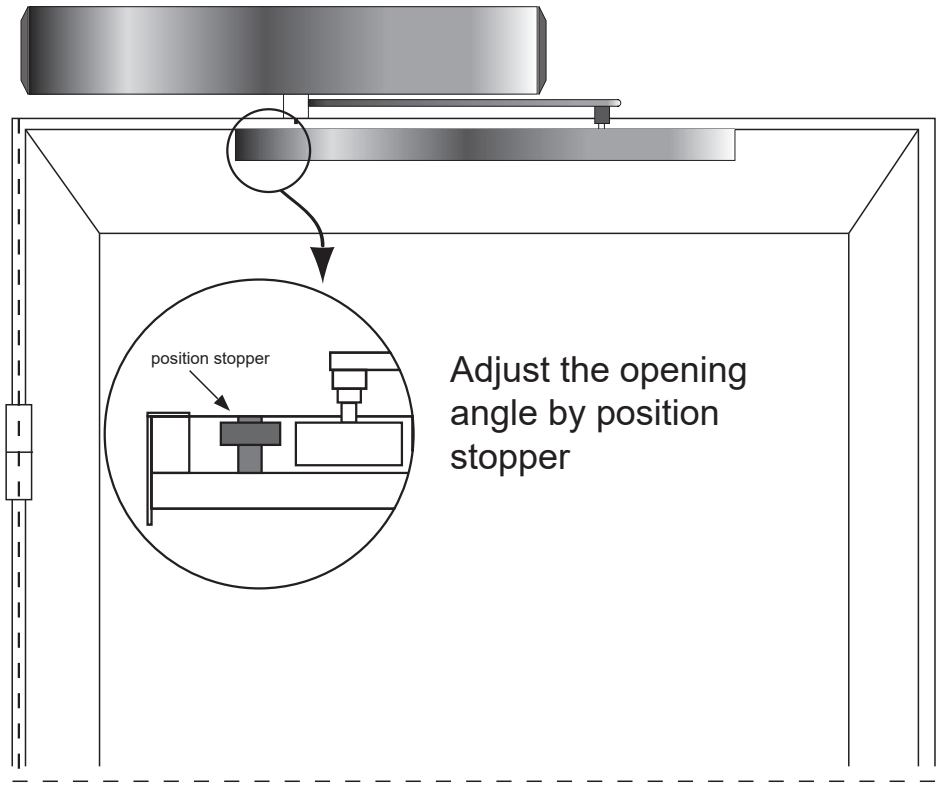




5.Installation step

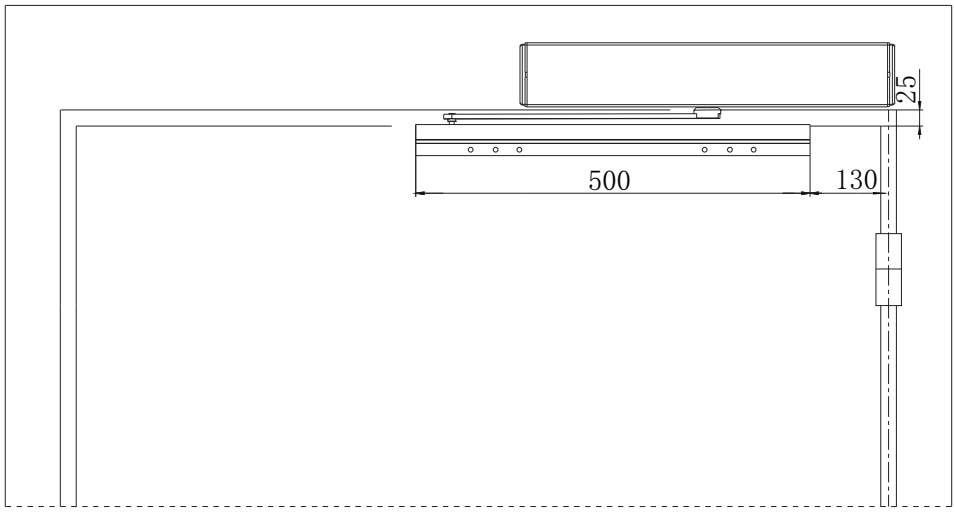
5.3 Installation of pull bar guider(Left position)



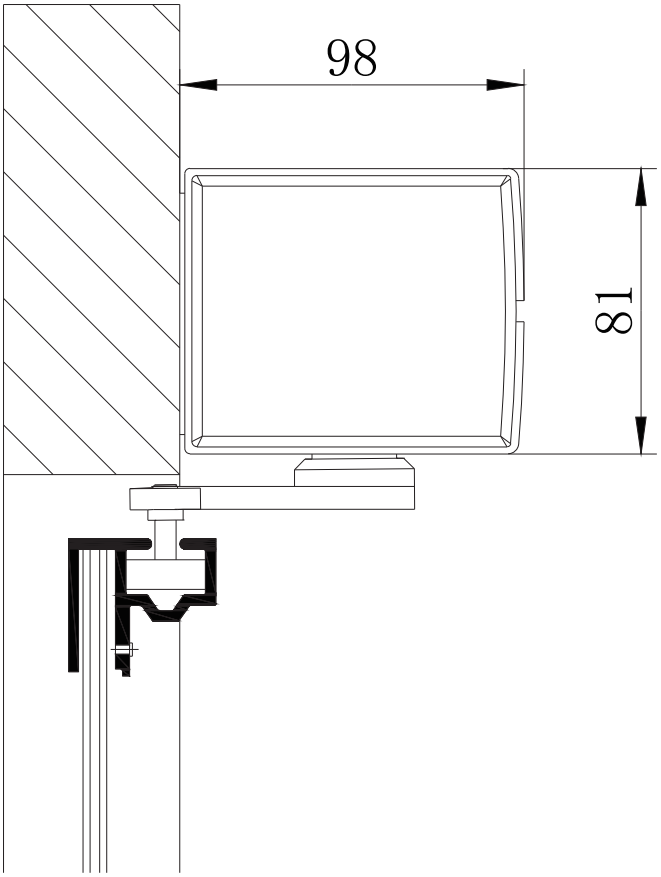


5.Installation step

5.4 Installation of pull bar for glass door

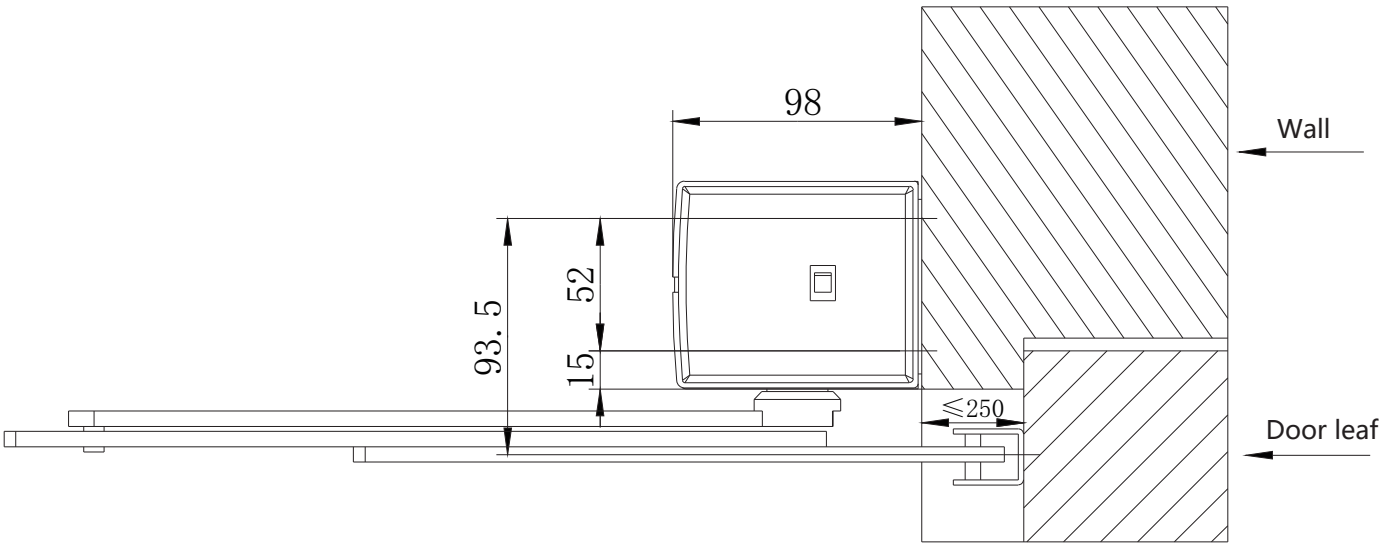


Tip：Ensure 25mm space for glass top to door frame bottom(Glass door installation)

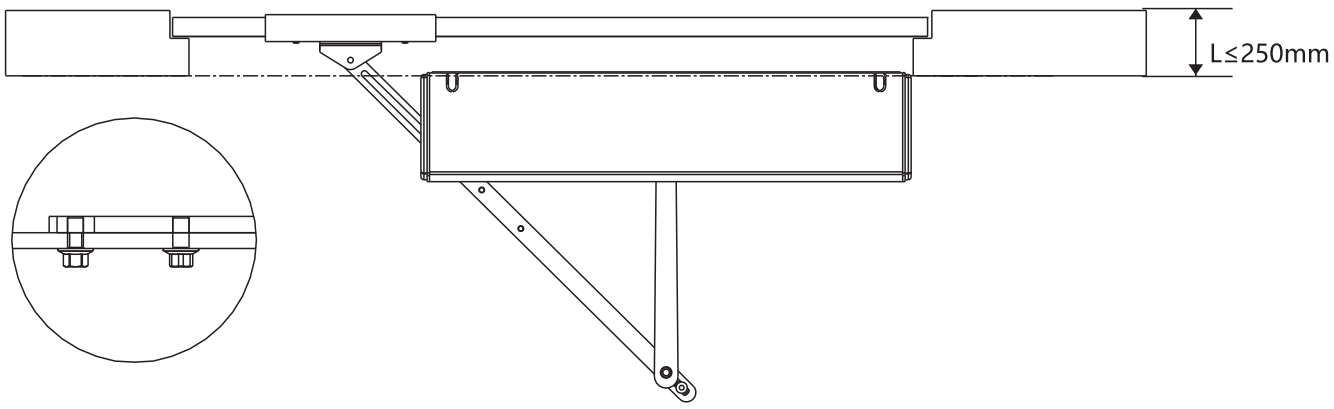


5.Installation step

5.5 Installation of push bar



5.5.1Installation of push bar for glass door

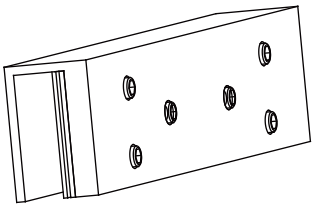


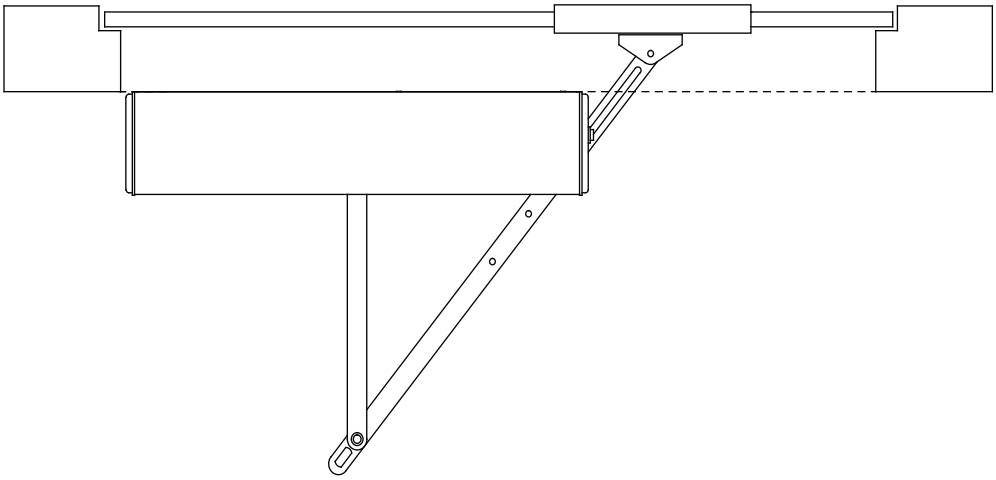
Adjust the push bar lenght by two screw according to the door frame’ s depth(L).

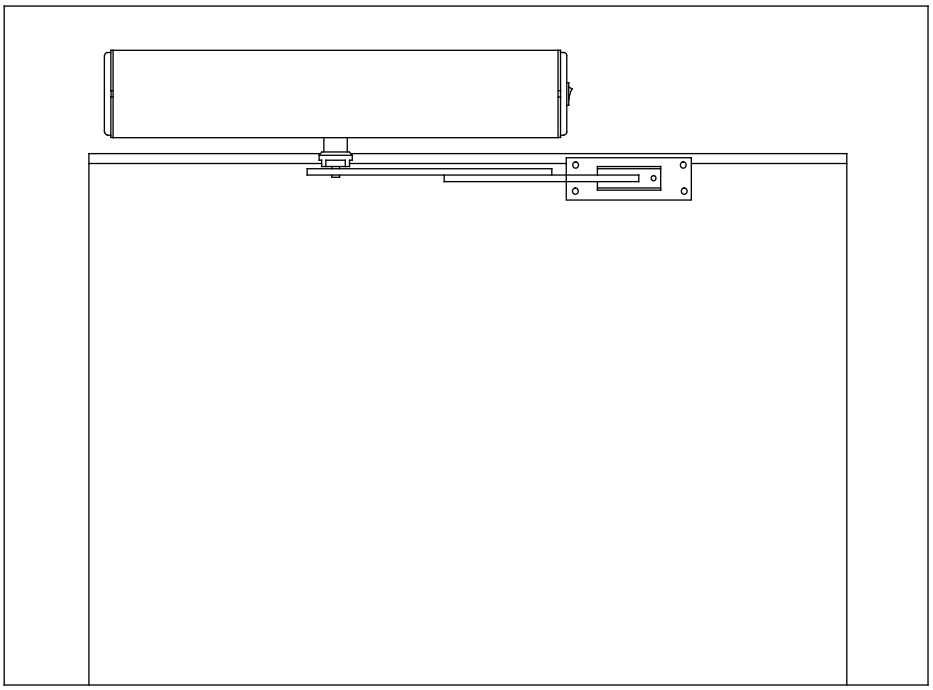
Automatic door right installation

5.Installation step

5.6 Installation of Glass clamp for push bar



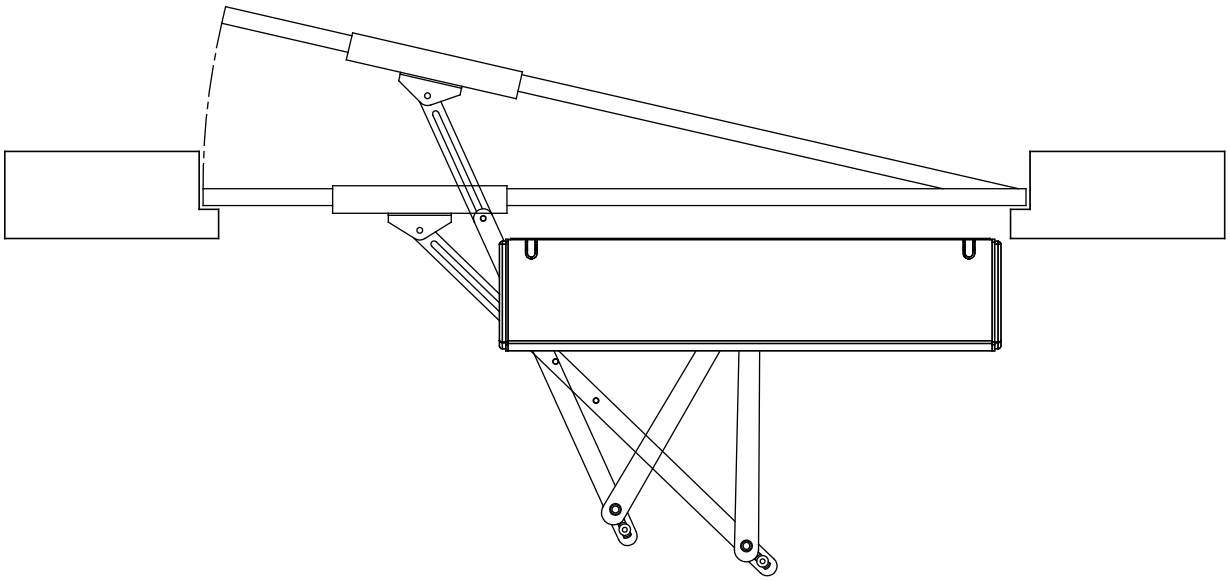


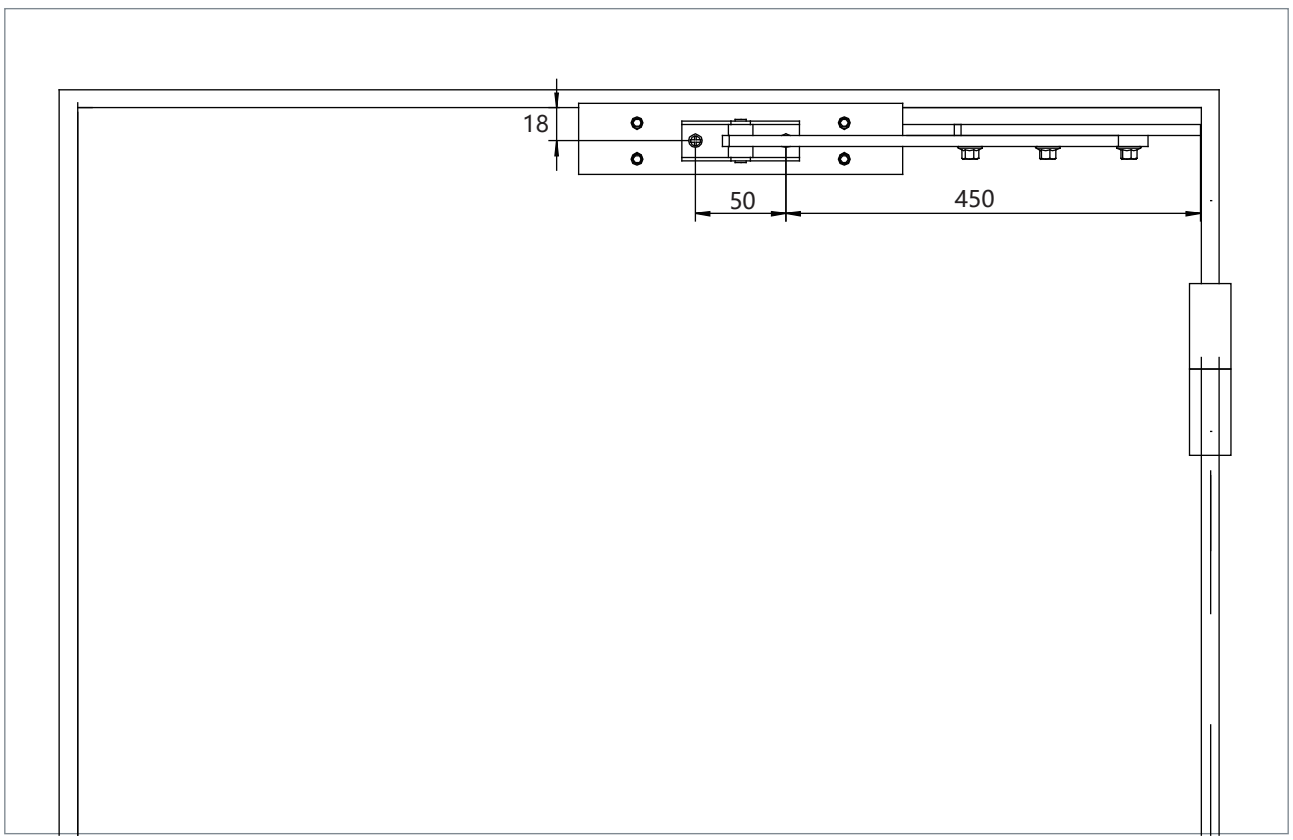


Note: make sure there is a 10mm gap between the top of the glass and the bottom of the door when using the push arm of the glass door

5.Installation step

5.6 Installation of Glass clamp for push bar

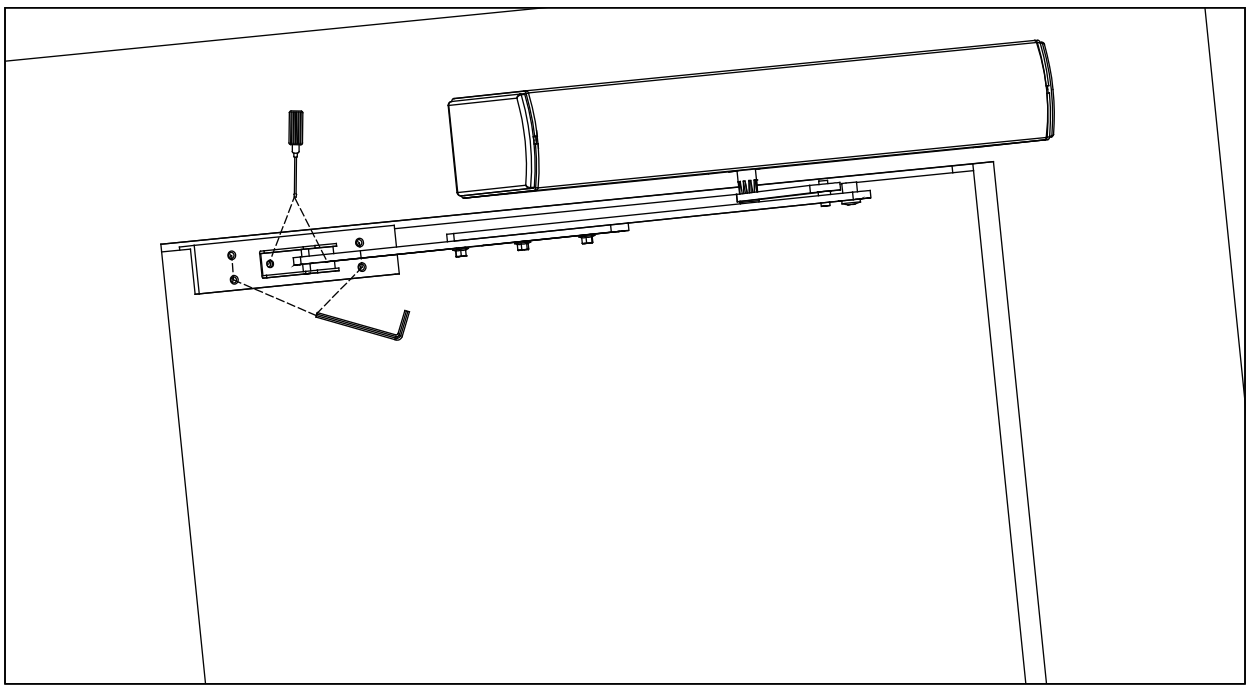




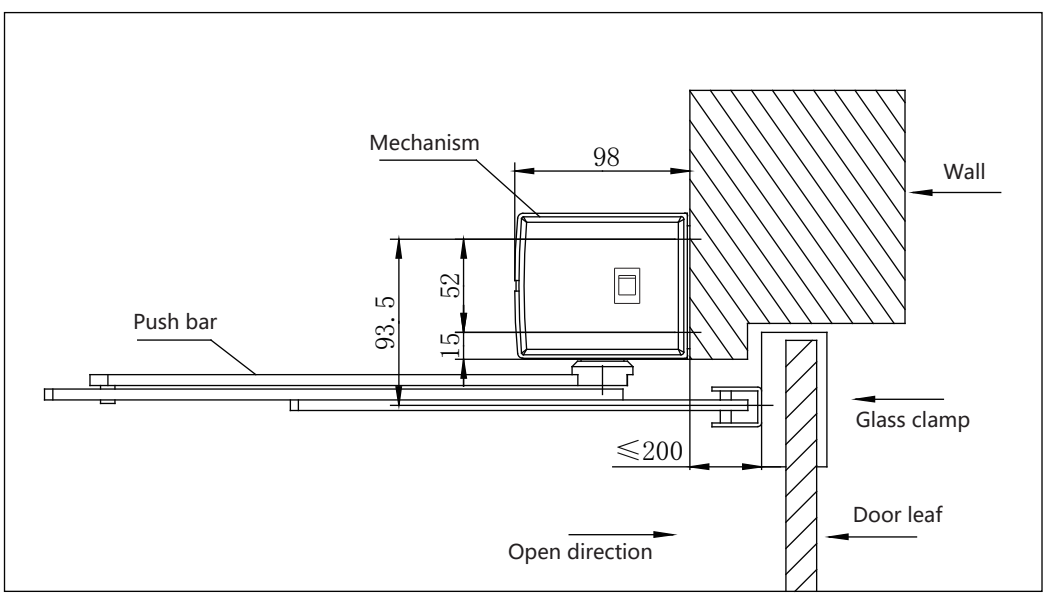
Tip: The glass clamp of the push arm shall be fastened on the door wing with 4 plug screws (M6*12) as shown in the figure

5.Installation step

5.6 Installation of Glass clamp for push bar

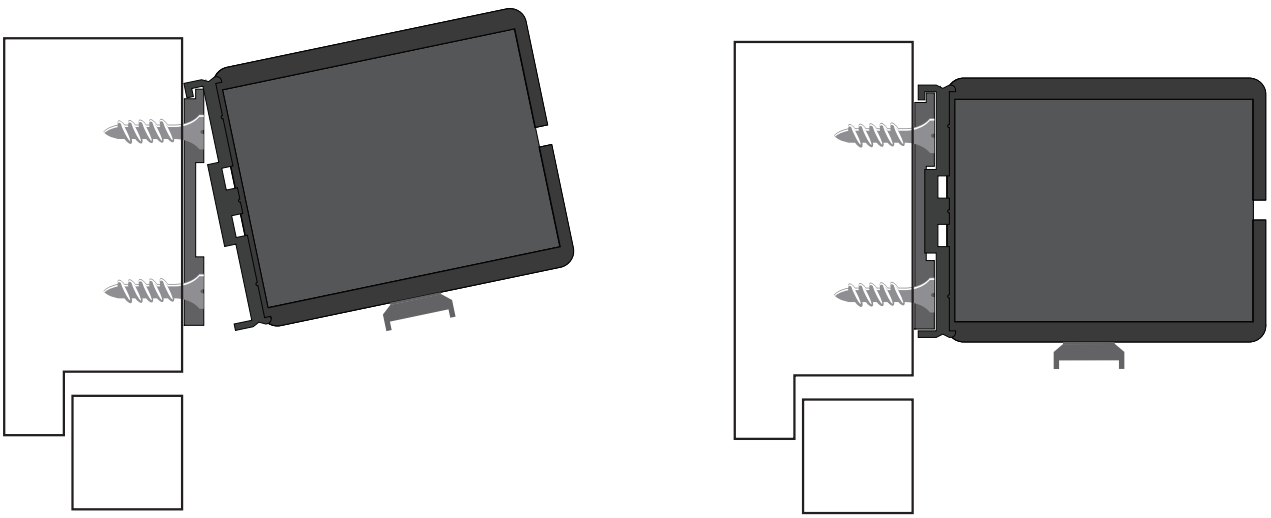


Fix the glass clamp and spacer with 4 screw（M6*12） tightly on glass door. Install the fix plate of push bar with 2 screw (M5*8) on glass clamp.



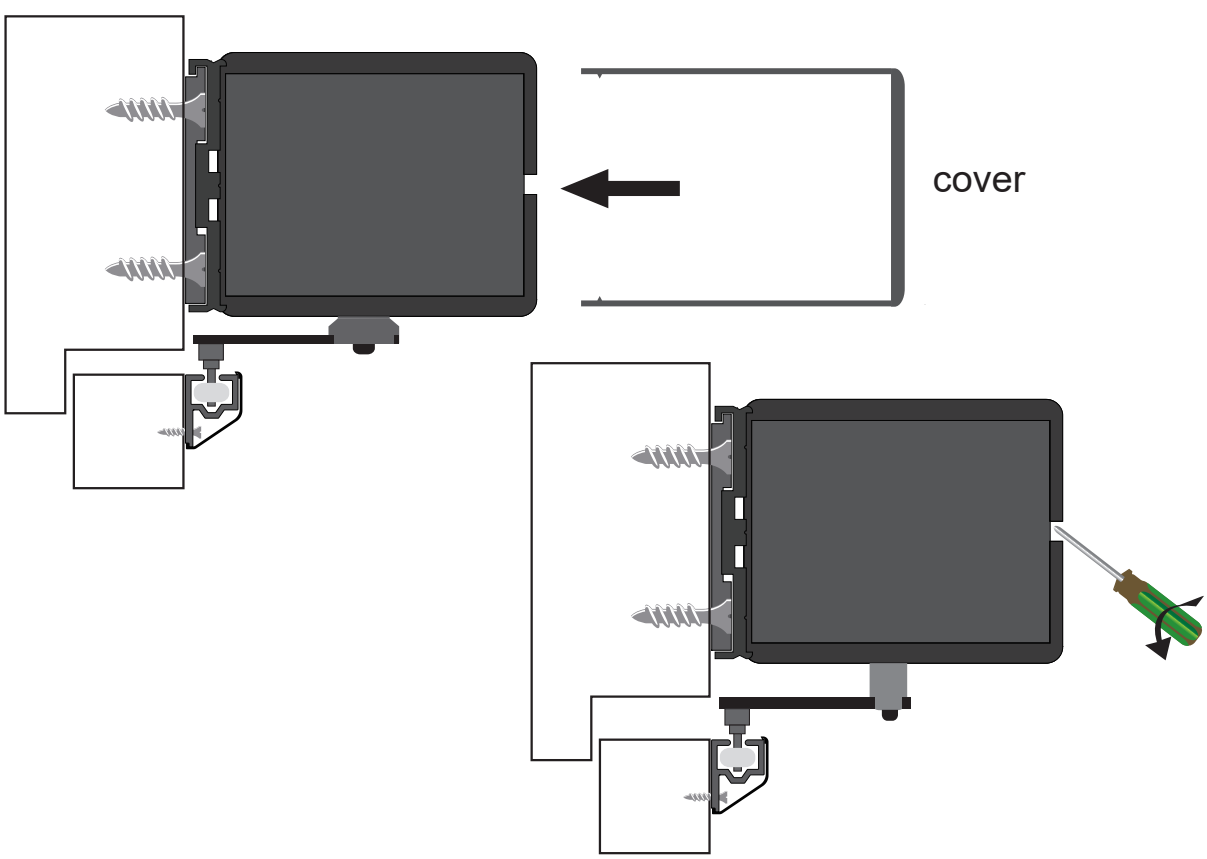
5.Installation step

5.7 Mechanism installation

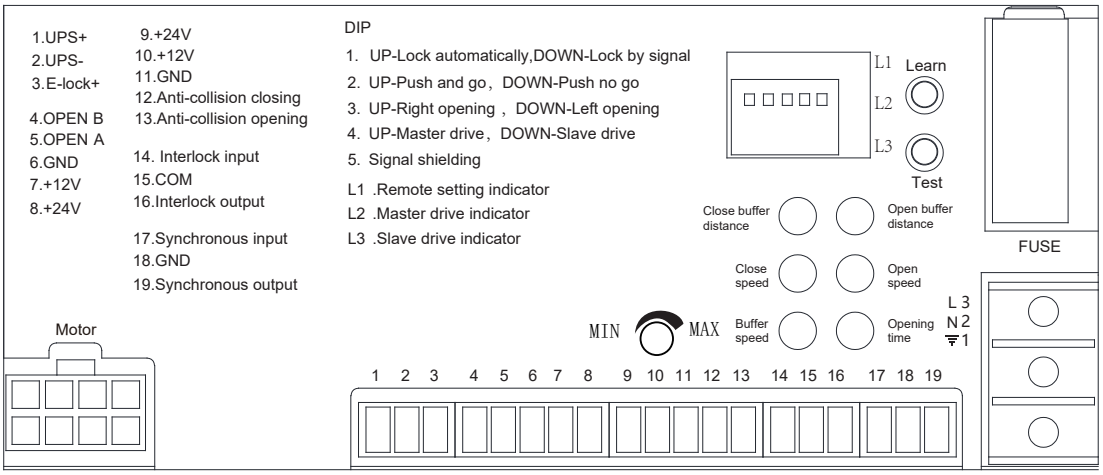


Hang the mechanism on the fixed base cover with screws.

Assemble and disassemble of the mechanism up cover



6.Wire diagram

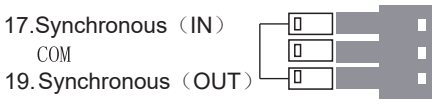


Inter lock

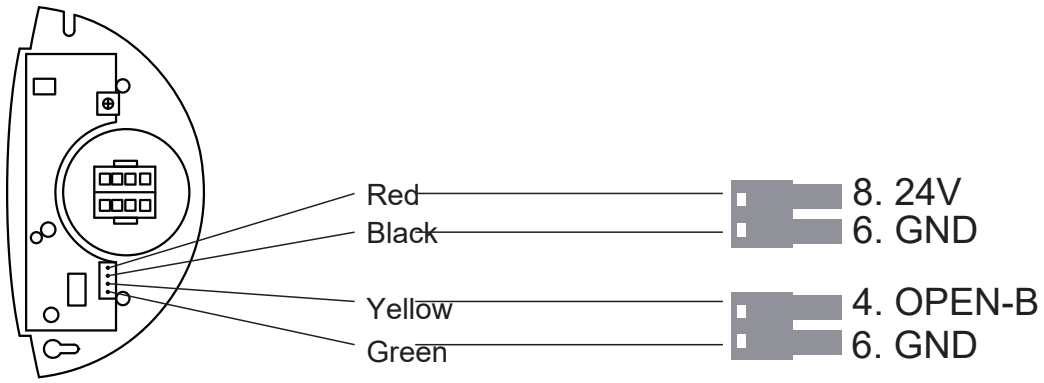
Synchronous

Attention：Controller will alarm while synchronous line not connect or wrong connect buzzer will not bip，red and green led will flash 3 times within 4 second

In single mode：bridge connect terminal 17 and 19

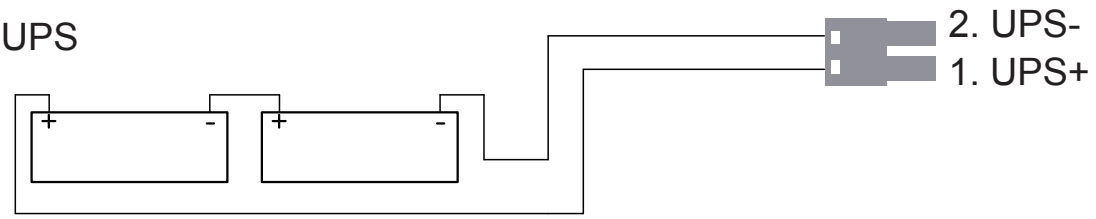


24G Microwave sensor

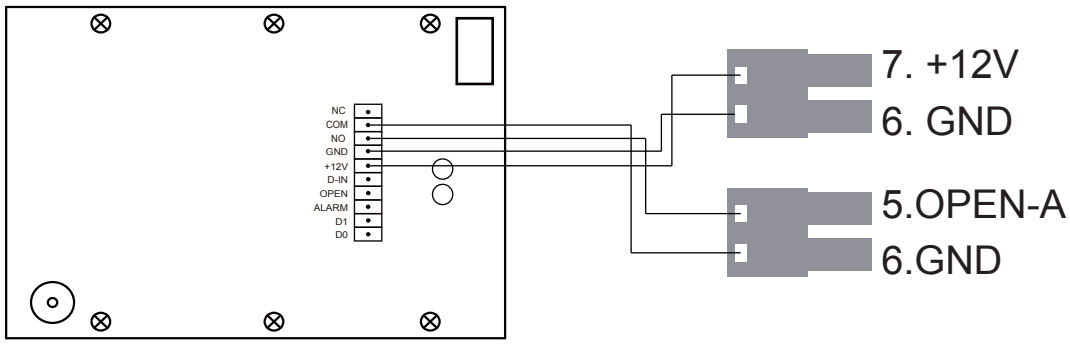


6.Wire diagram

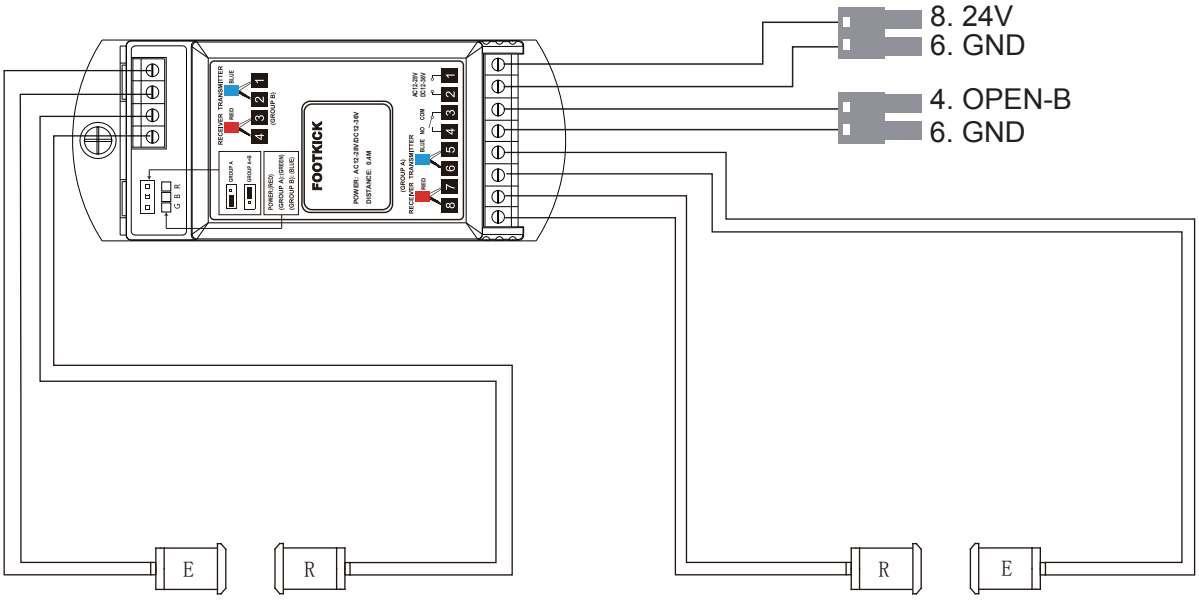
UPS



AK04

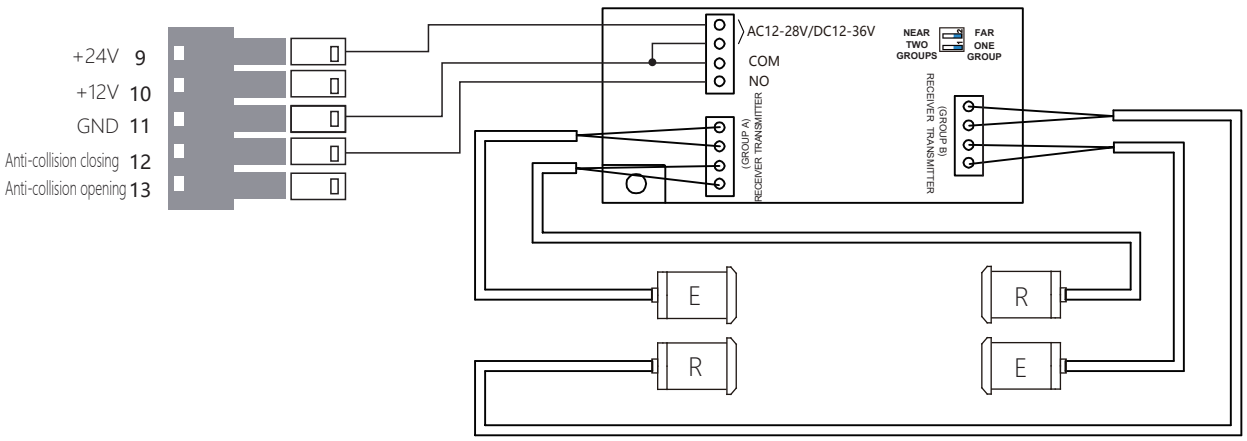


Footkick sensor



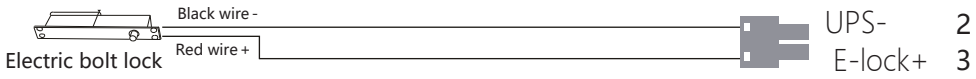
6.Wire diagram

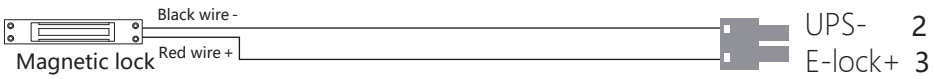
Photocell



(Note: Photocell have to use the "NC" signal)

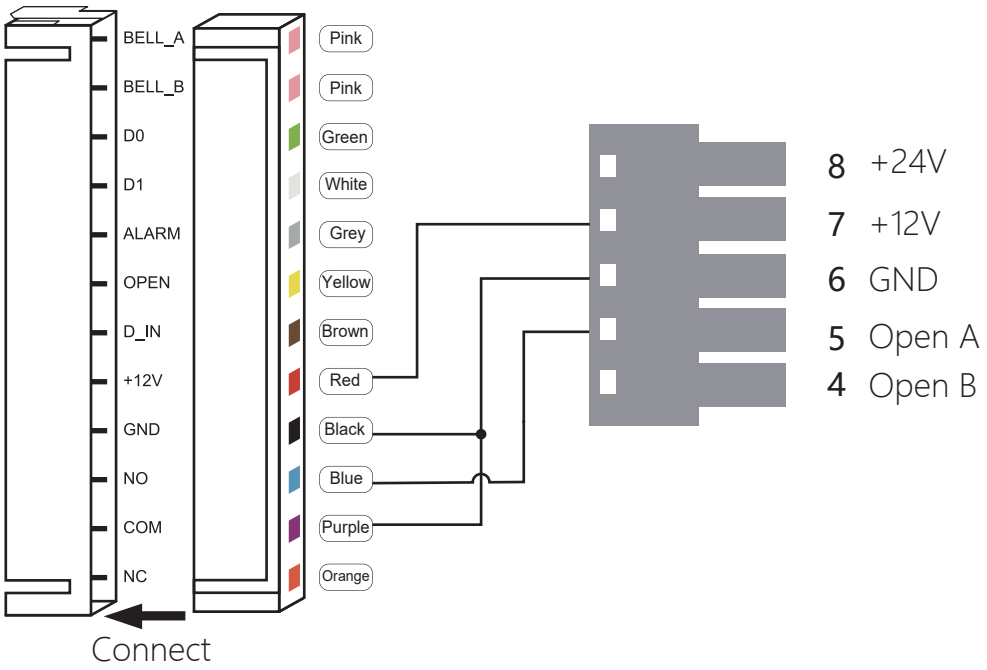
Connection of E-lock





6.Wire diagram

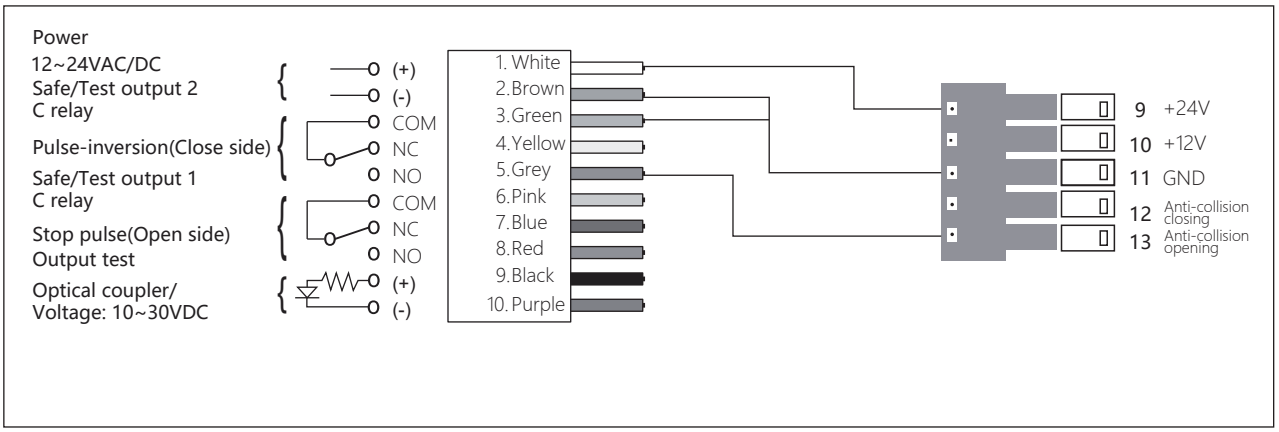
Access keypad



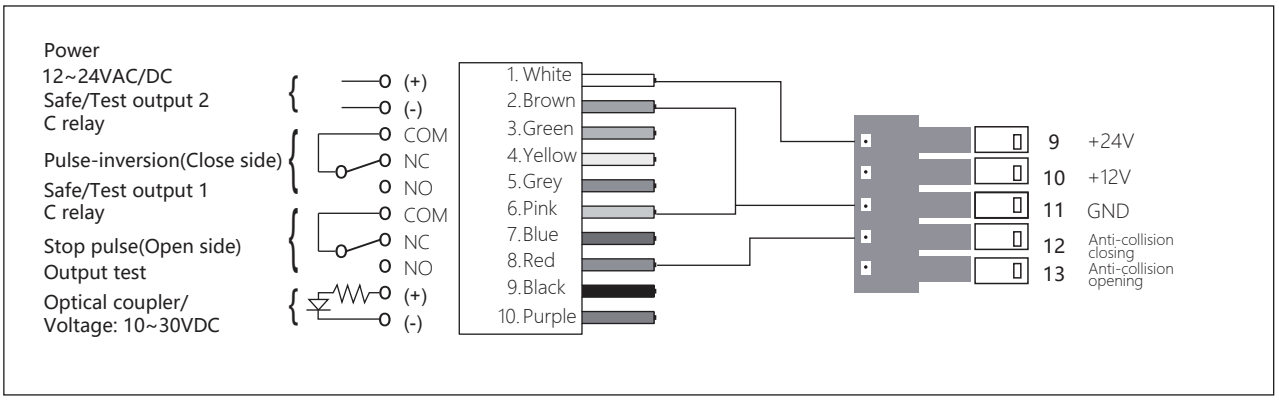
6.Wire diagram

TOP Scan（Open and Close）

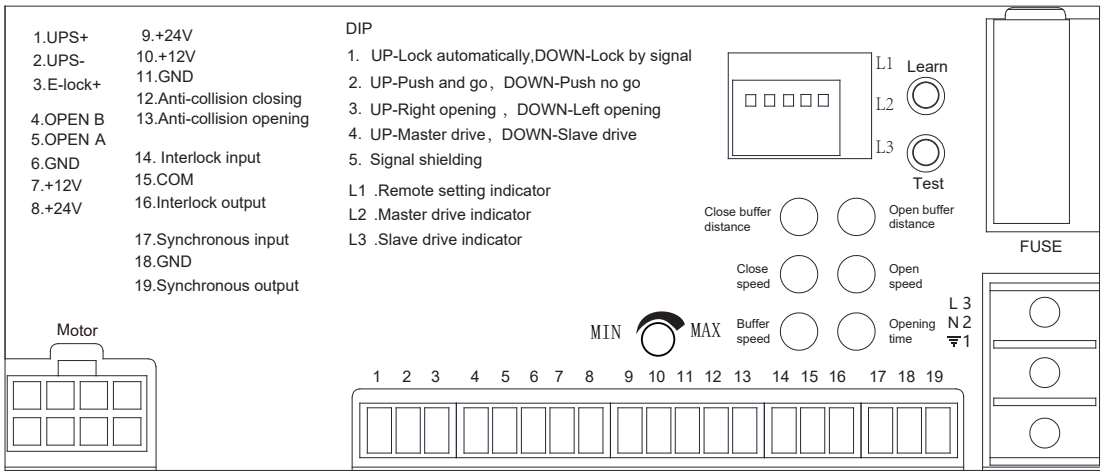
Connection of Top scan （Open） （optex：OA-EDGE T ）



Connection of Top scan（Close）



7. Data setting



Close buffer distance: Distance increase clockwise
Open buffer distance：Distance increase clockwise
Open speed：Open speed increase clockwise
Close speed：Close speed increase clockwise
Buffer speed ： Buffer speed increase clockwise
Open hold time：Hold time increase clockwise（0-20s adjustable）

DIP switch：The selection of dip only make sense after restart system

1.E-LOCK:UP-Lock automatically Down-Lock by signal
2.Push and go ： UP: Active Down: Disable
3.L/R switch：UP-right open Down-left open（Power on，in the default mode door move to the close direction is correct，Please change the position of Dip switch if door in open direction）
4.Master and slave ： UP-Master drive ， Down-Slave drive
5,Signal shielding

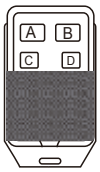
Button on the controller

Test: Test button， Press to active one open-close round
Learn：Remote setting button

LED Indicator

L1: Indicator of remote setting（Blue）
L2:Master drive indicator，Led flash 1 time in 4second（Red）
L3:Slave drive indicator，Led flash 1time in 4 second（Green）

8.Function of remote



FC04: A Always open B Automatic C:Open one time D Full lock

Add the remote： Keep press the learning button on controller，L1 Blue Led is on ，relese learn button and press A on remote ， Blue led flash 3 times ， remote is added

Delet remote： Keep press the learning button 9 second，L1 turn from blue to flash，all the remote is delet（attention： while the process of delet，learning button should keep press ）

Wireless push button ： Added and deleted wireless push button is same as remote. Please check the DIP switch if it‘s same as the image shown（during setting process）

Notes

1. Receiver has been built-in only need remote to approve the always open ，automatic，open one time ，full lock function， and also fit with wireless push button PB04 to open the door ，When controller is full lock ，PB04 still can active the door

2. Exit only function:Connect outside sensor or button to terminal"Open-B", connect inside sensor or button to terminal "Open-A".Then press "full lock" button on remote

3.In double open mode：connect Synchronous line refer to the manual .power on ,make sure the setting is same If open and close speed is not same,please adjust open /close speed, open/close buffer speed,open hold time.

4.When double open, the transmitter should learn both operators together.

5.In double open mode，accessories should connect to both controller （ parallel connection）

9.LED instructions

Double open		
	Master drive	Slave drive
Normal working	Red Led flash every 4seconds，Meanwhile Green led off	Green Led flash every 4seconds，Meanwhile Red led off
Learning mode	Red Led on 2seconds，Off 2seconds within 4 seconds，Meanwhile Green Led off	Green Led on 2seconds，Off 2 seconds within 4 seconds，Meanwhile Red led off
Set both operator as main drive or slave drive	Buzzer not bip ，Red and green led flash 2times within 4seconds	
Not connect synchronous line or wrong connect	Buzzer not bip，Red and green led flash 3times within 4seconds	

Single open	
Normal working	Red and green LED alternately brighten,Red led light up while green off 1second，then Green led light up while red off 1seconds
Leanring mode:	Red and green LED alternately brighten,Red led light up while green off 2second，then Green led light up while red off 2seconds

Overcurrent protection Buzzer bip each 1 second，Red led and green led flash 5 times together within 4seconds

Motor problem Buzzer bip each 2 seconds，Red led and green led flash 4 times together within 4seconds