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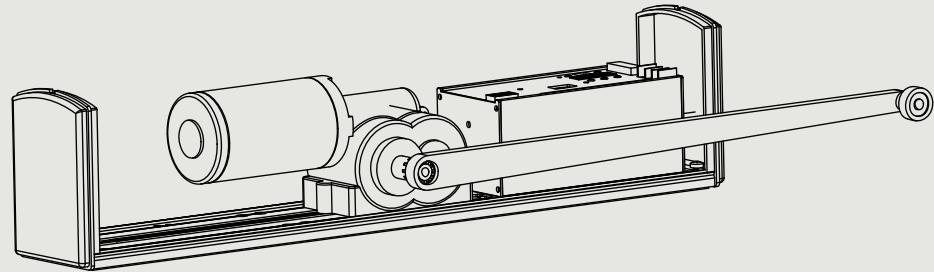
SW200-Slim

SWING DOOR INSTALLATION MANUAL



- Installation of automatic door should be entrusted to the appointed distributor 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.

V20220530



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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 : ≤ 1800mm

Door weight : ≤ 200kgs

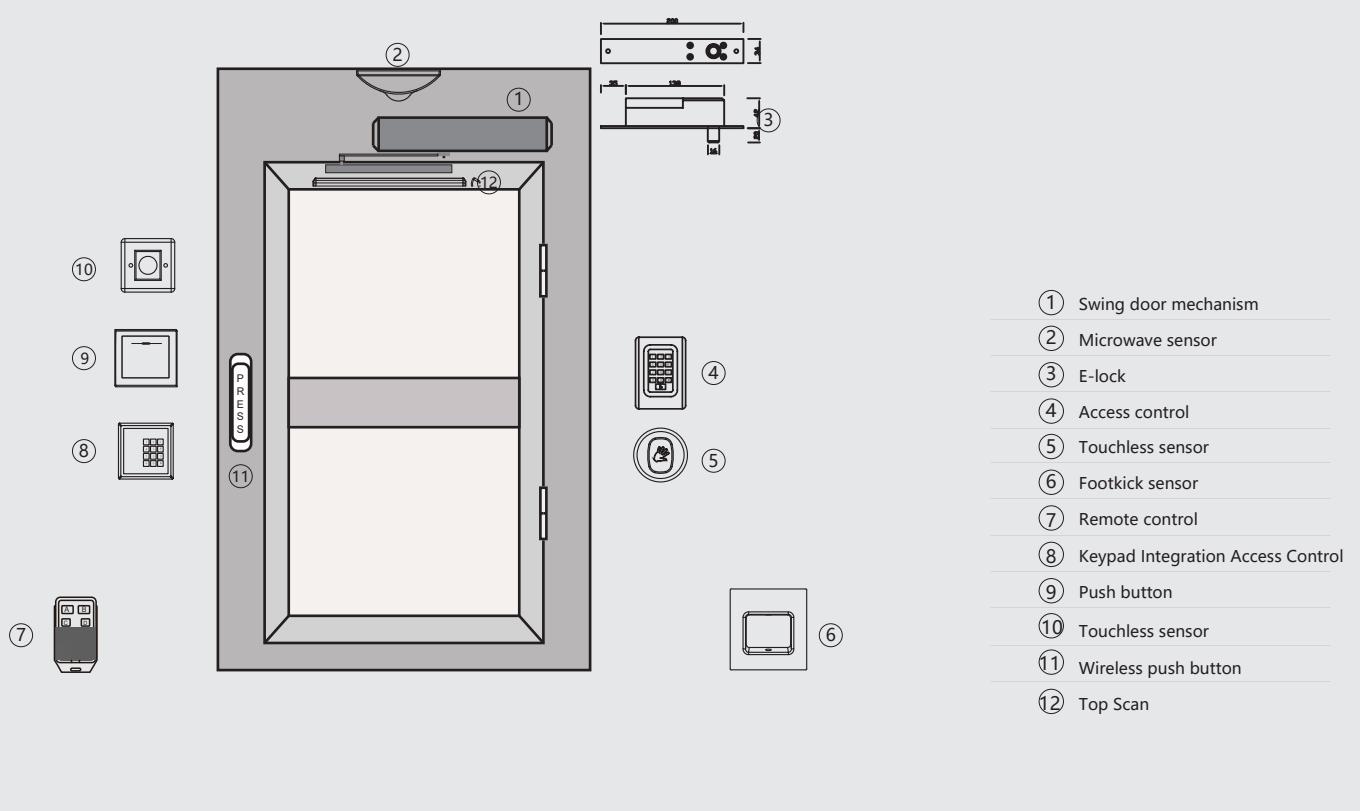
Open degree: 60-115 adjustable

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

Voltage: AC2100-240V, Input 220V AC Output 24 DC

Open device : wireless push button/remote control

Working times: About 2 million times.



1. 55w high speed dc brushless motor, long service life, low noise.

2. Imported control chip, reliable performance, digital display design, mechanism is easy to adjust and fine adjust is allowed.

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

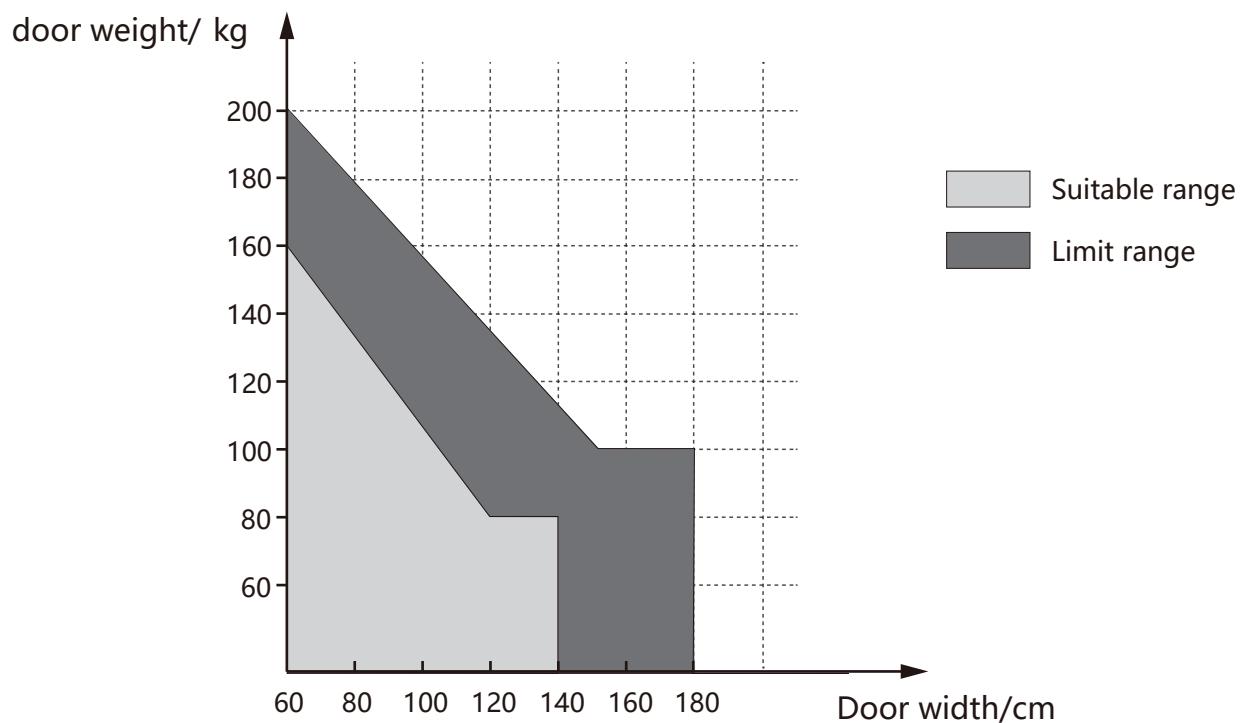
4. Double gear box design, high speed ratio, high strength, can work with 180kgs door (work with E-lock will more safe).

5. Push and go function.

6. CCC certificated transformer, 220v/110v optional, power 50w.

2. Technical data

Szie :	518*81*115mm(L*W*H)
Weight :	6kgs
Working temperature:	-20°C ~ +50°C
Input voltage:	AC 100V -240V
Output voltage:	24V DC ($\pm 10\%$), 3A
Open degree:	Max 115°
Open speed:	45°/S
Close speed:	45°/S
Opening time:	0-60S (adjustable)
Protection Class:	IP21



Tip: Data is record under Zero wind pressure

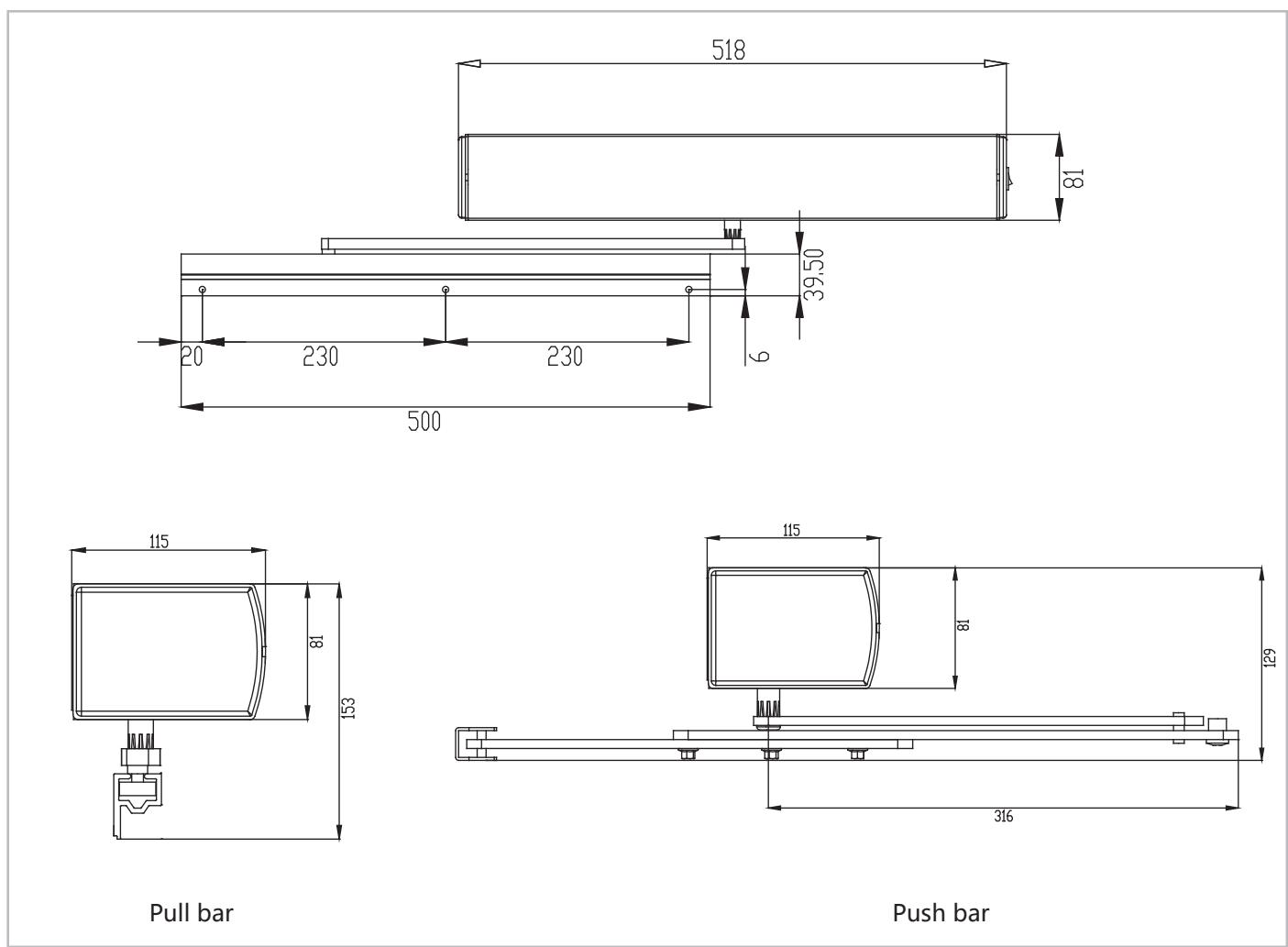
Door leaf over weight is not allowed, Service life will getting short because of it

3.Swing door mechanism

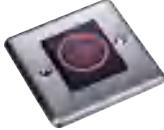
Design for Barrier-Free Accessibility, Convenient for disabled and children.



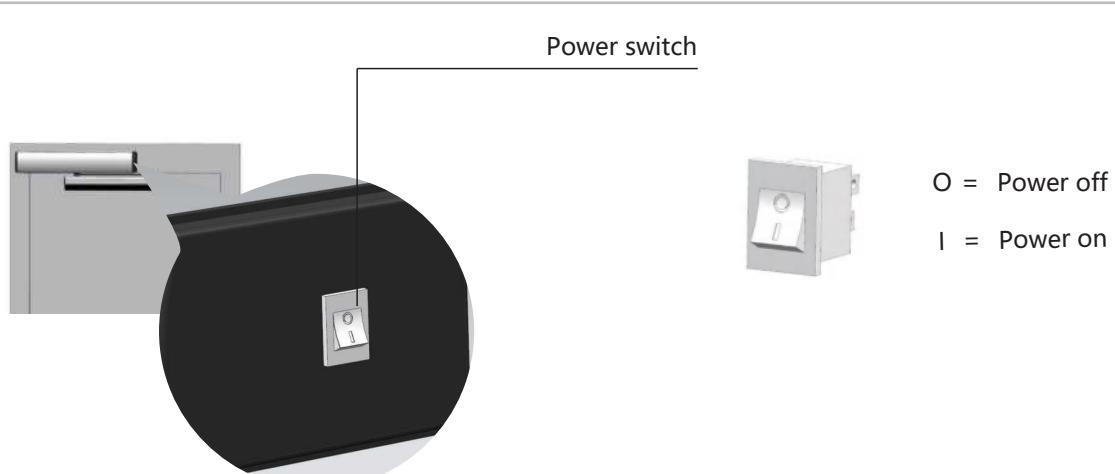
Swing door mechanism



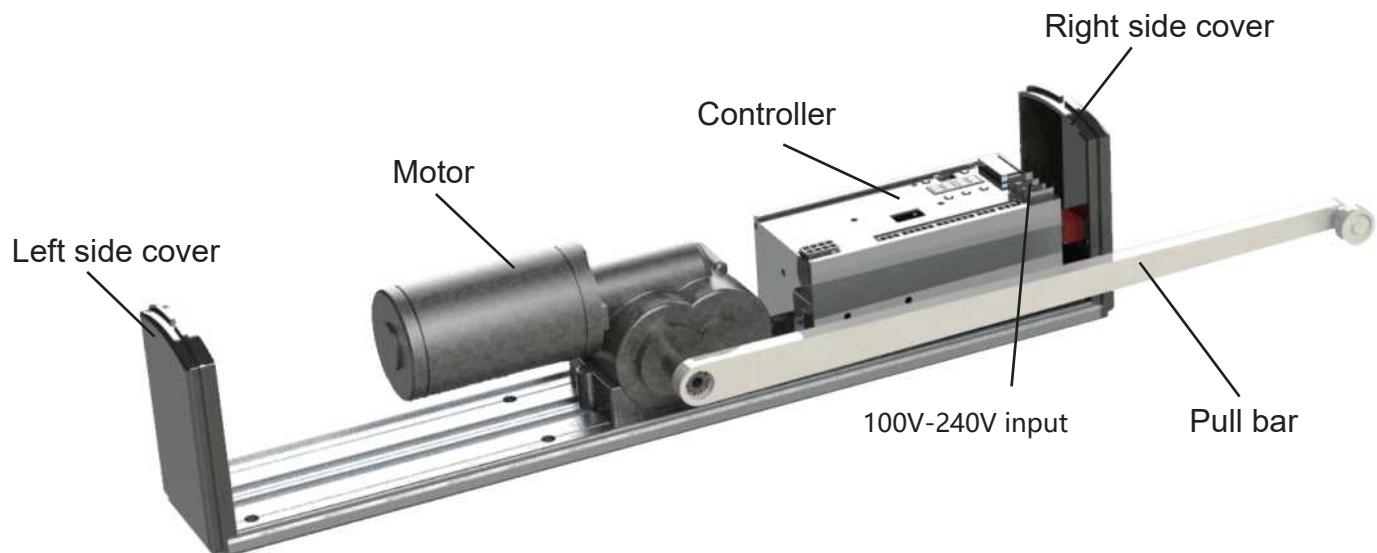
4. Standard and Optional accessories

Standard package (Pull/Push bar)				
	Mechanism	Pull bar /Push bar	Remote control	
Optional accessories				
	Microwave sensor	Top scan	wireless push button	Push button
				
	Touchless sensor	Touchless sensor	Waterproof access control	Disabled push button
				
				
	UPS	Glass door slider	Glass clamp (Pull bar)	

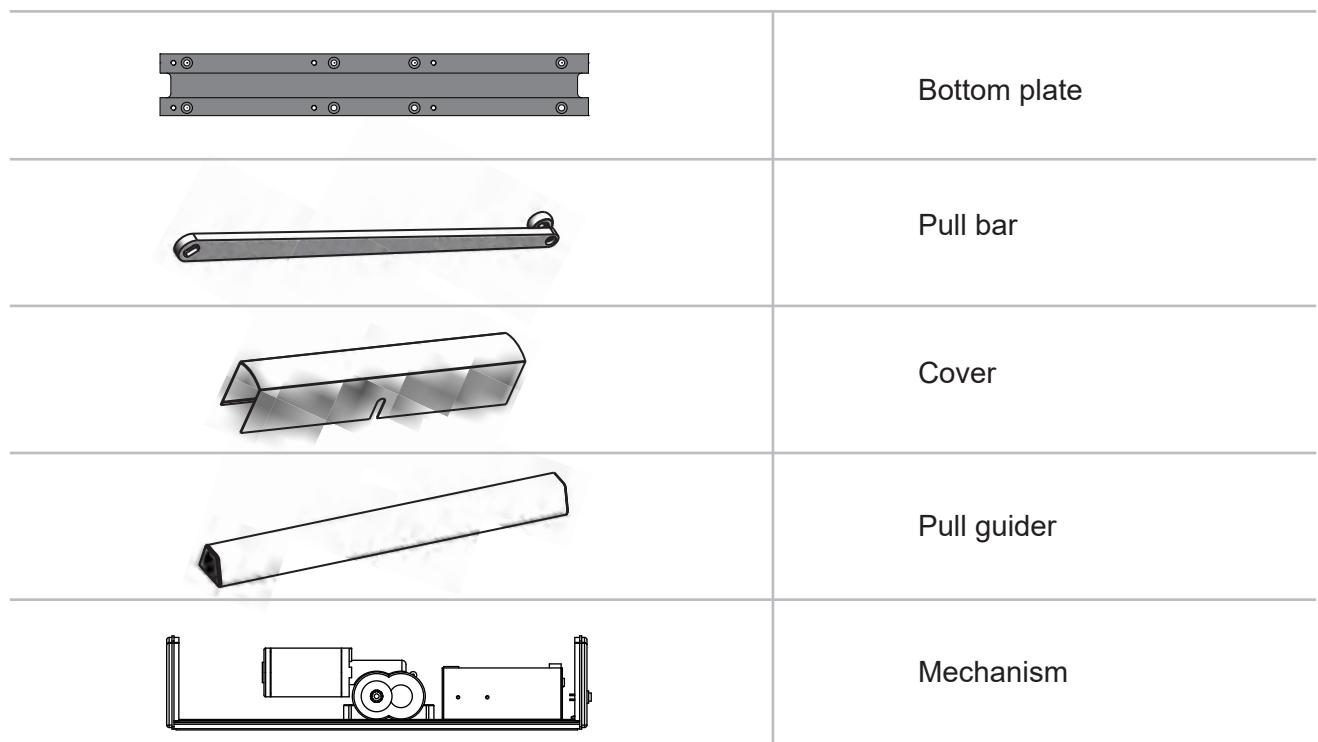
Operation



5.Components



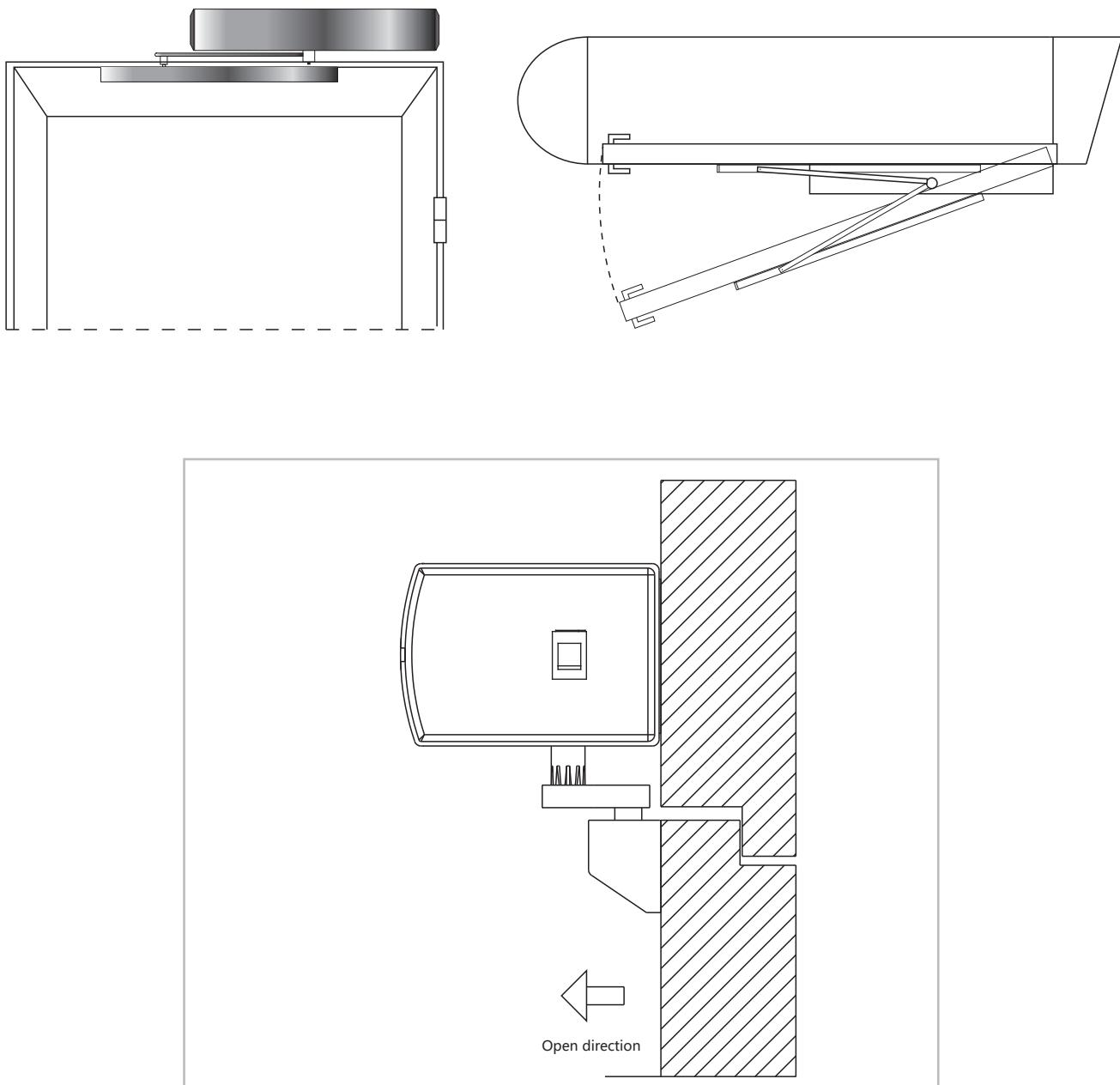
SW200slim



6.Mechanical installation

6.1 Installation

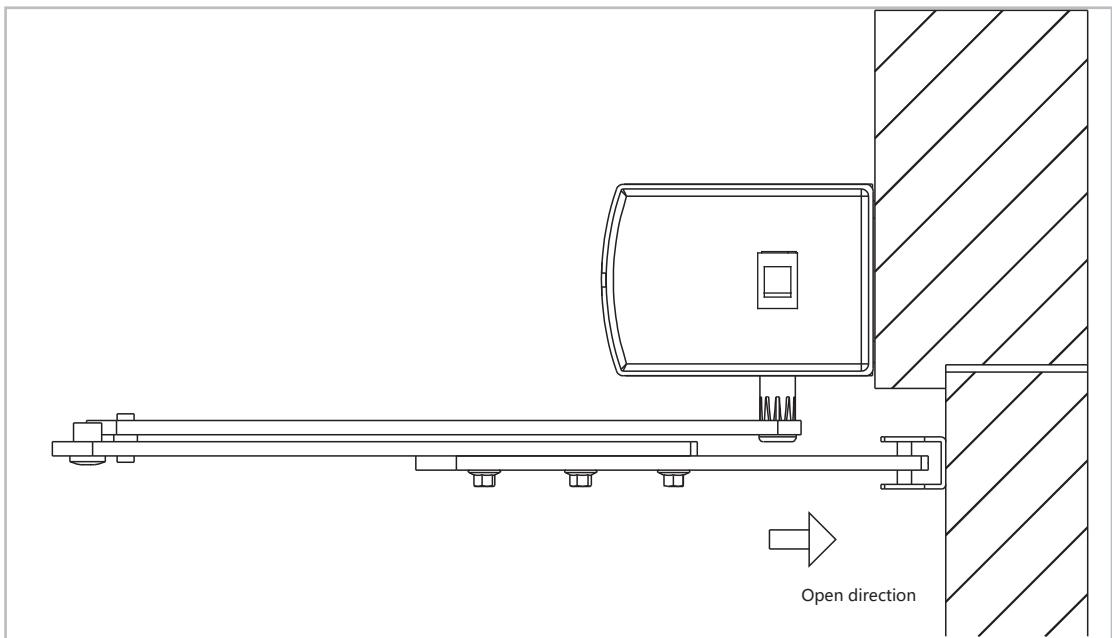
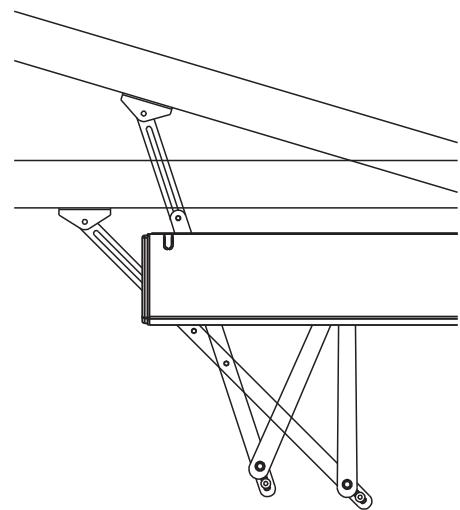
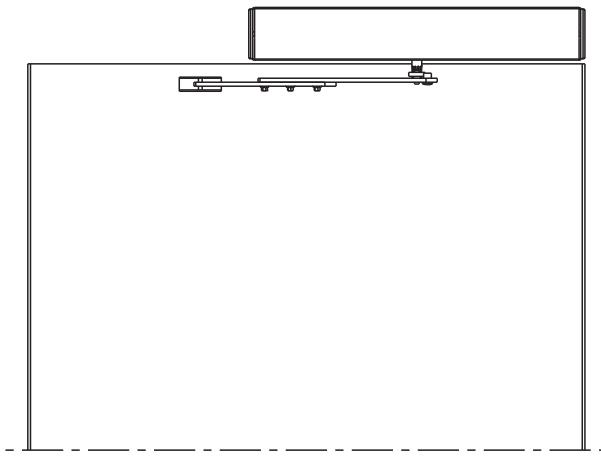
Pull bar type-Open to inside (Mechanism inside)



6.Mechanical installation

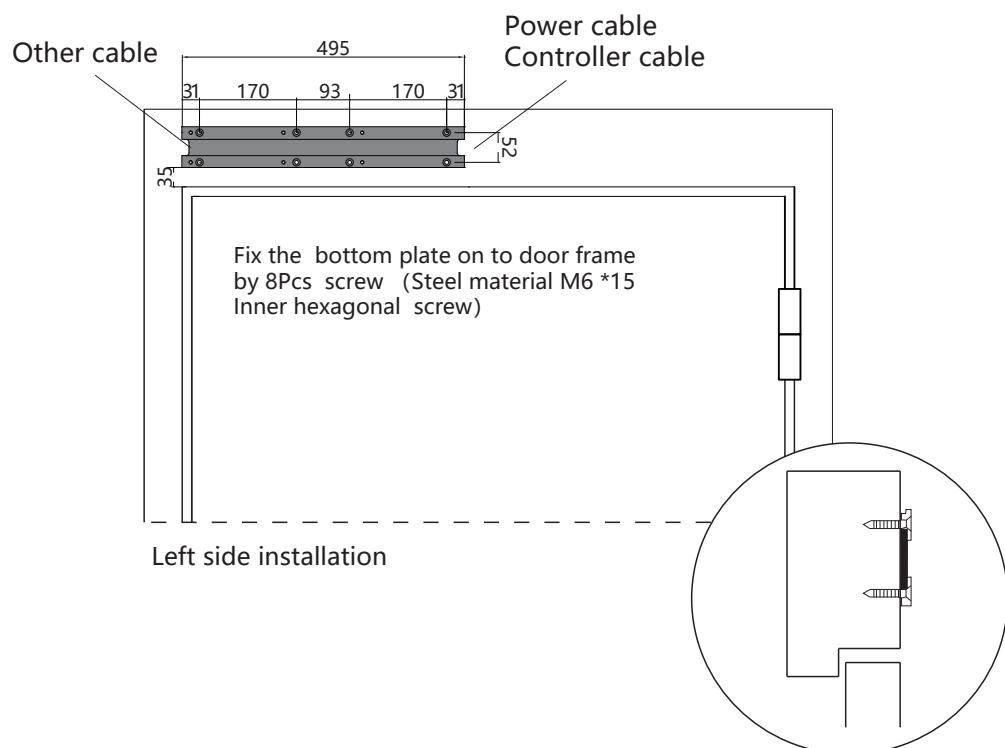
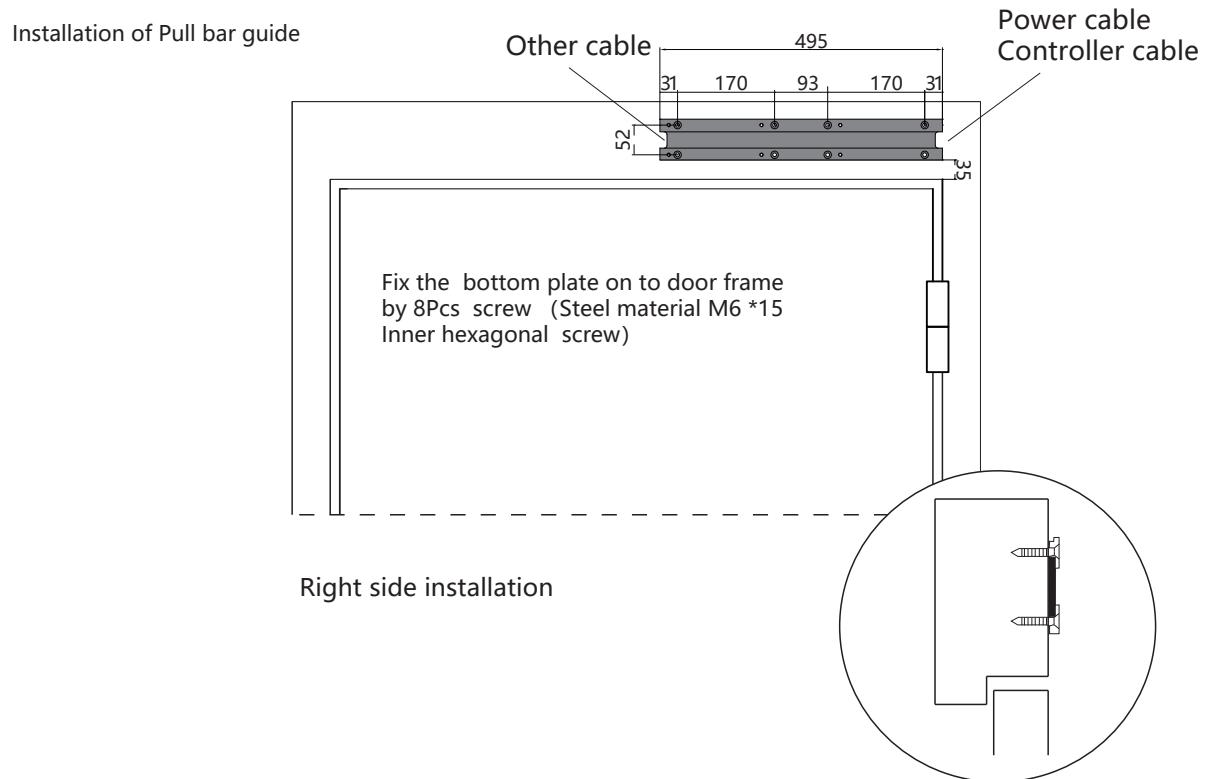
6.1 Installation

Push bar type-Open to outside (Mechanism inside)



6.Mechanical installation

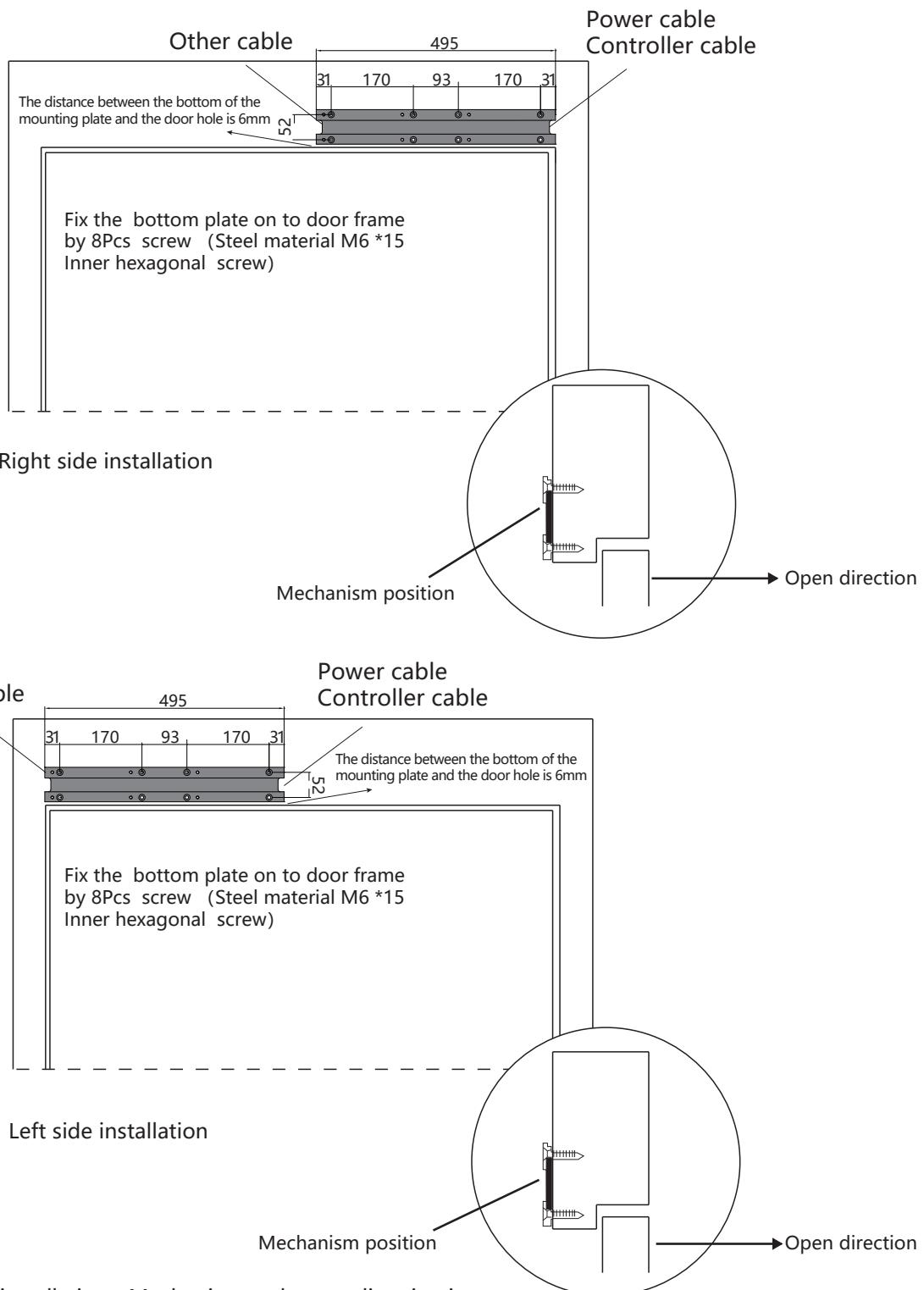
6.2 Installation of bar guider



6.Mechanical installation

6.3 Installation of bottom Plate

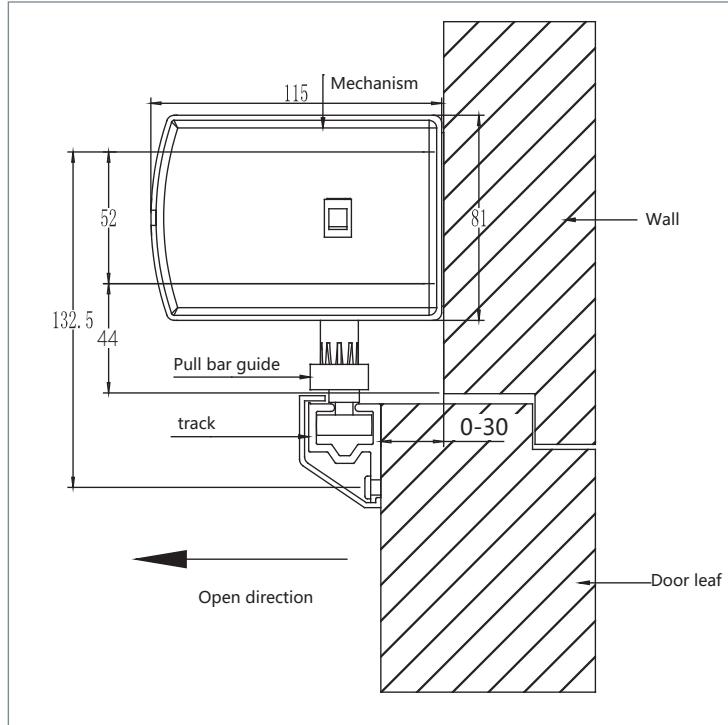
Installation of Push bar guide



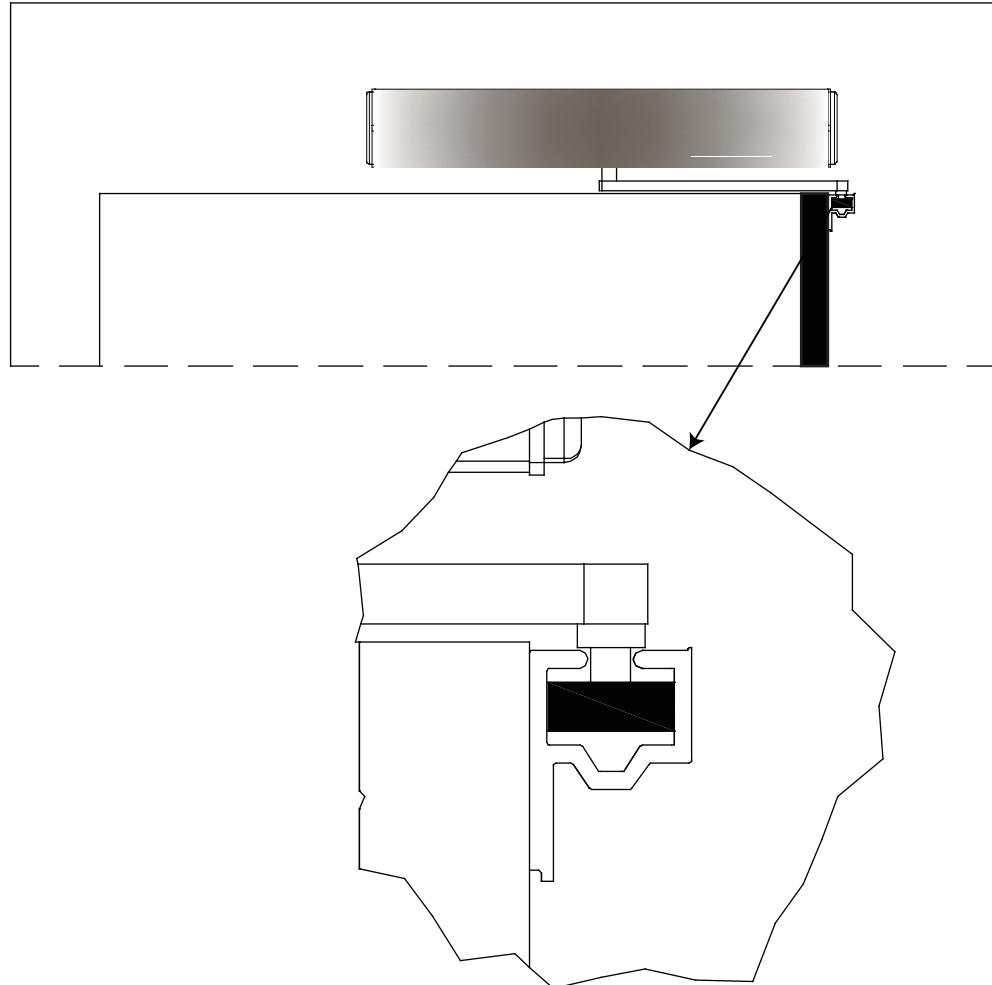
Tip: Push bar installation, Mechanism and open direction is same
Pull bar installation, Mechanism and open direction is opposite.

6.Mechanical installation

6.4 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 shown.
4. Hold the plate position, 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.

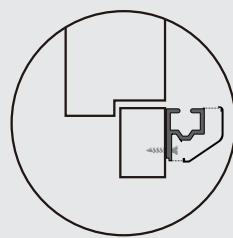


6.Mechanical installation

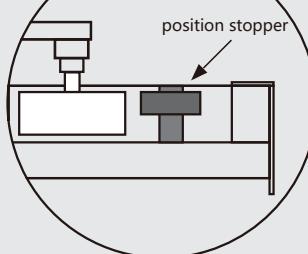
6.4 Installation of Pull bar

Installation of pull bar fix plate

Fix the fix plae with 3 pcs self-tapping screw as shown



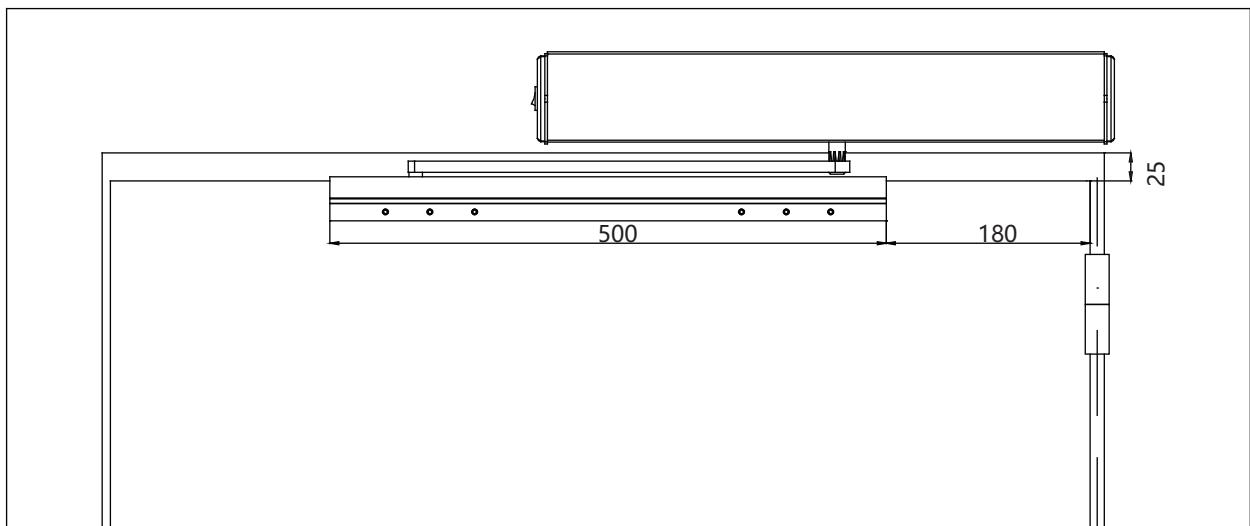
Move position limit to adjust open degree (Position limit is at left while Left installation)



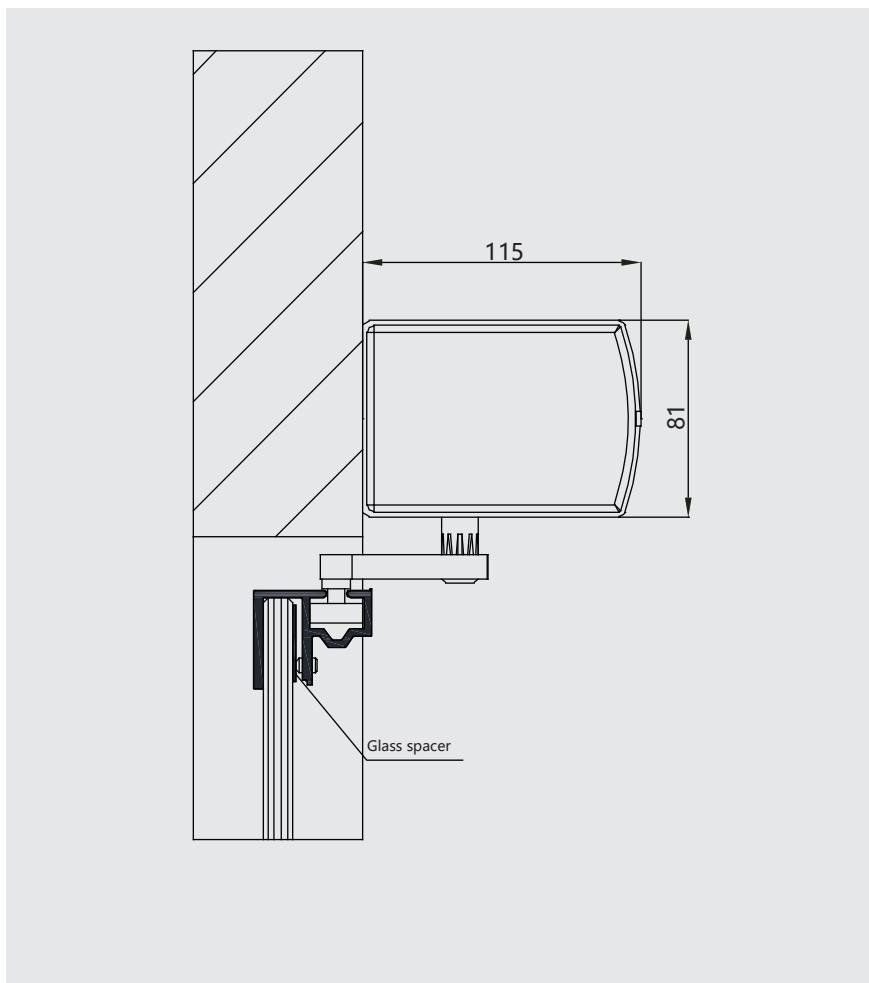
Automaaitc door right installation

6. Mechanical installation

6.5 Installation of pull bar for glass door

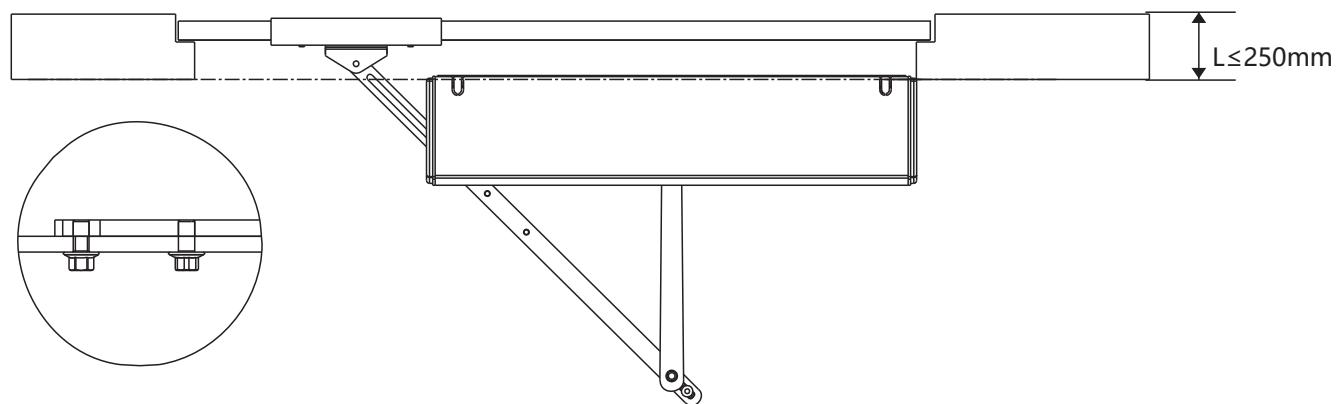
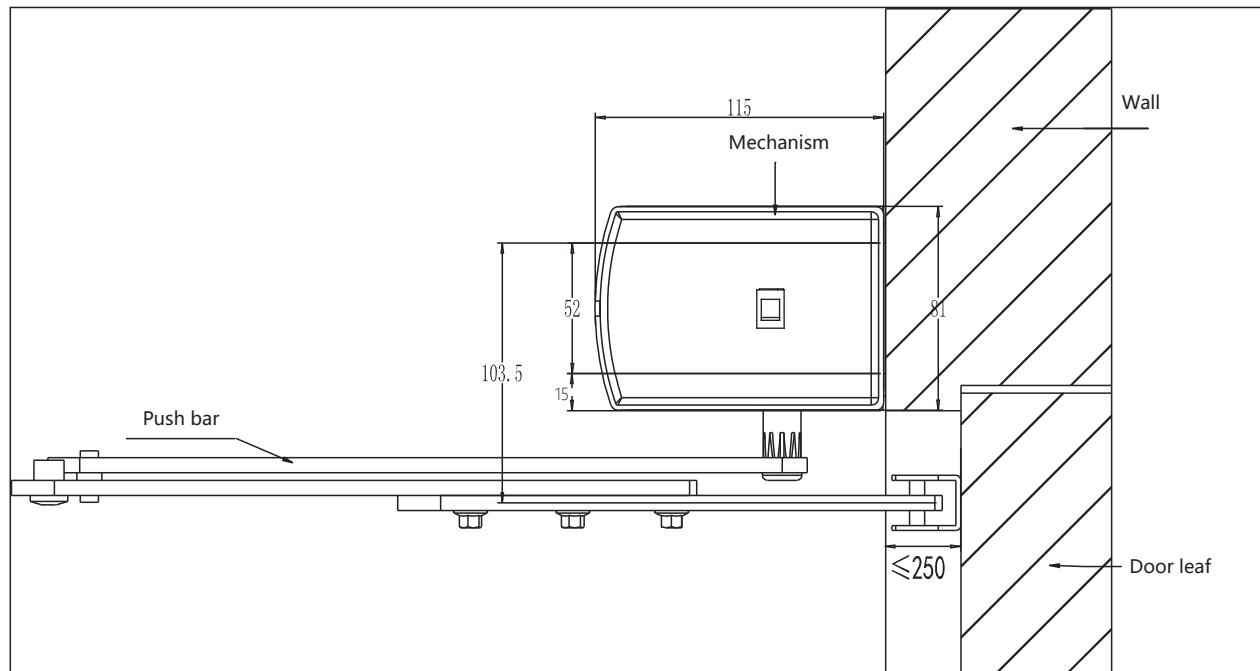


Tip: Ensure 25mm space for glass top to door frame bottom(Glass door installation)



6. Mechanical installation

6.6 Installation of push bar

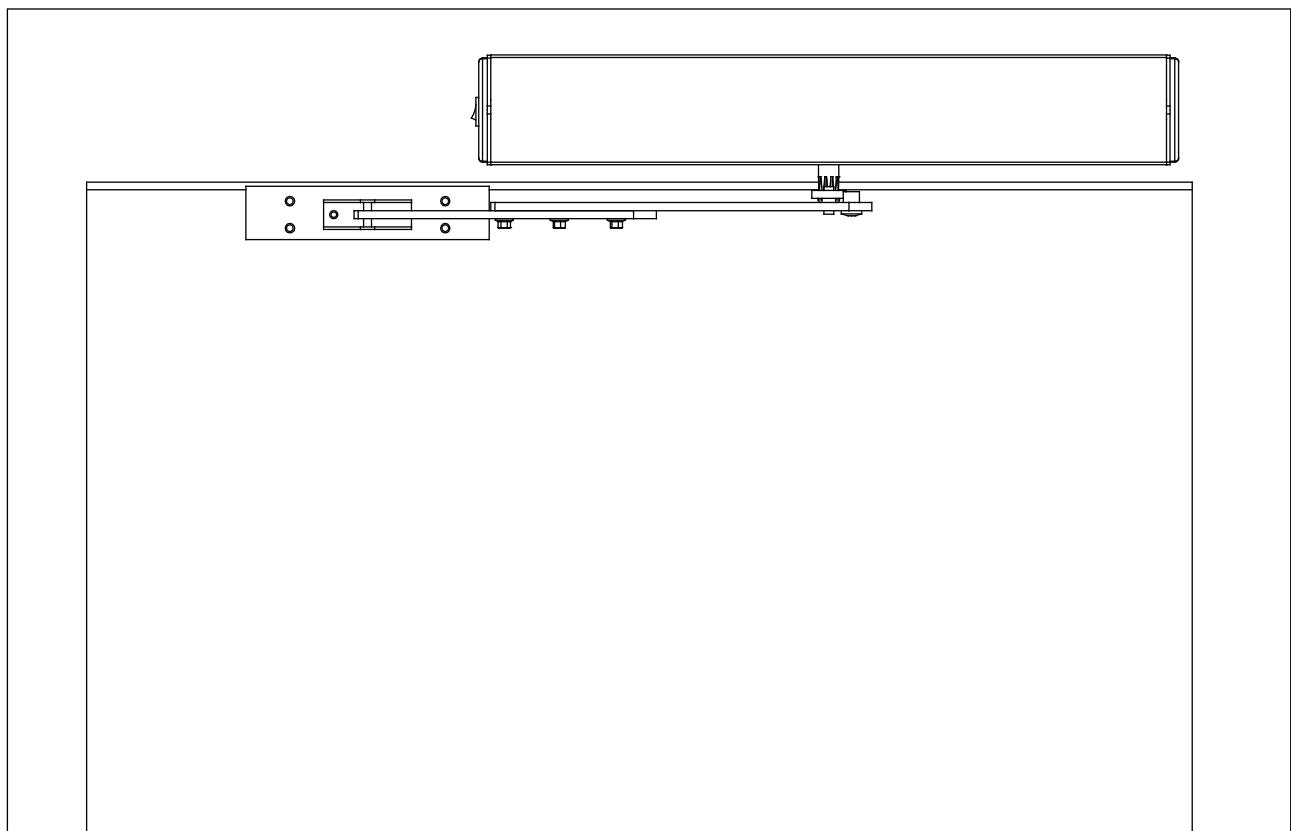
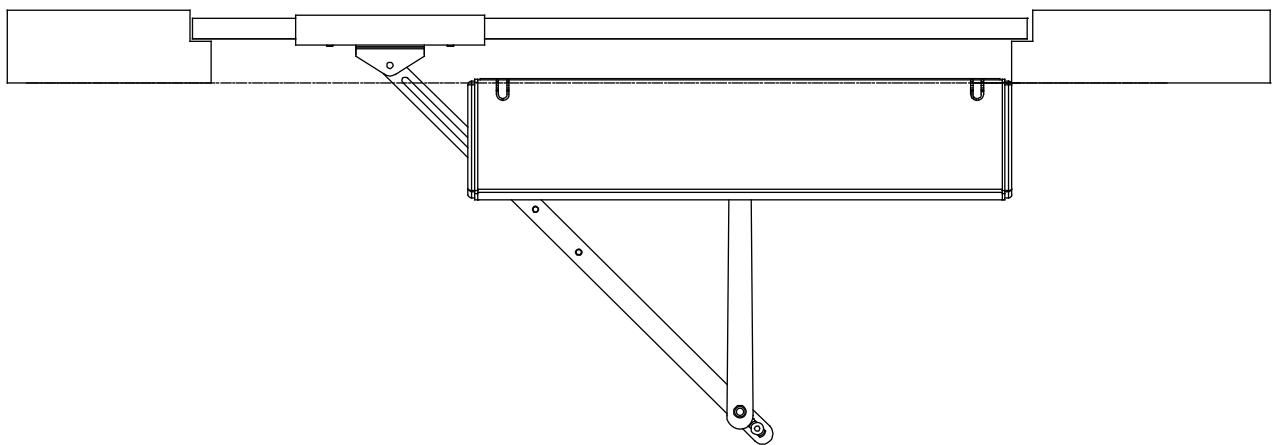
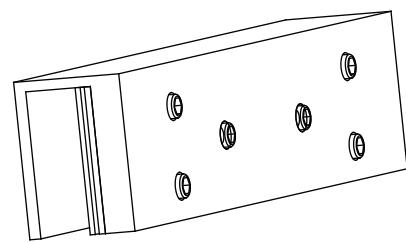


Adjust the push bar lenght by two screw according to the door frame' s depth(L).

Automatic door right installation

6.Mechanical installation

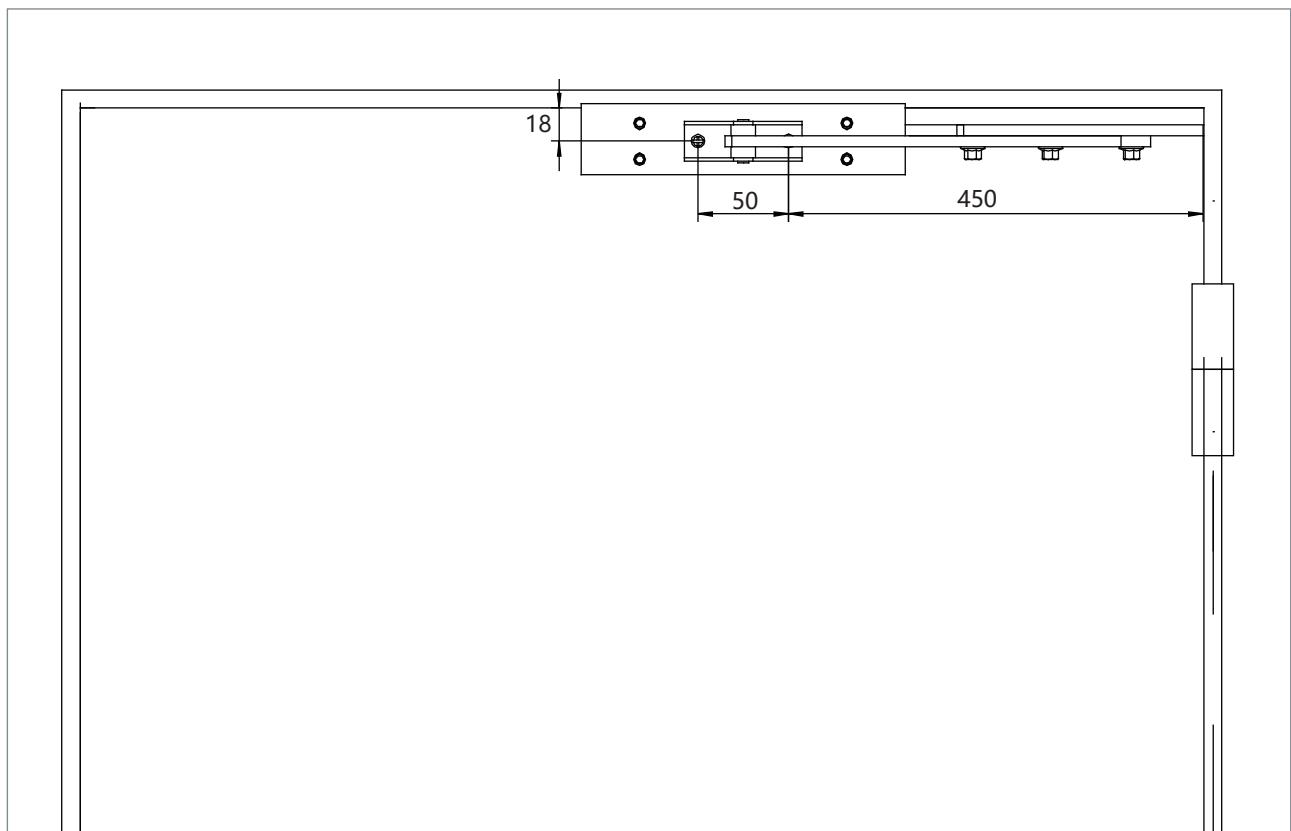
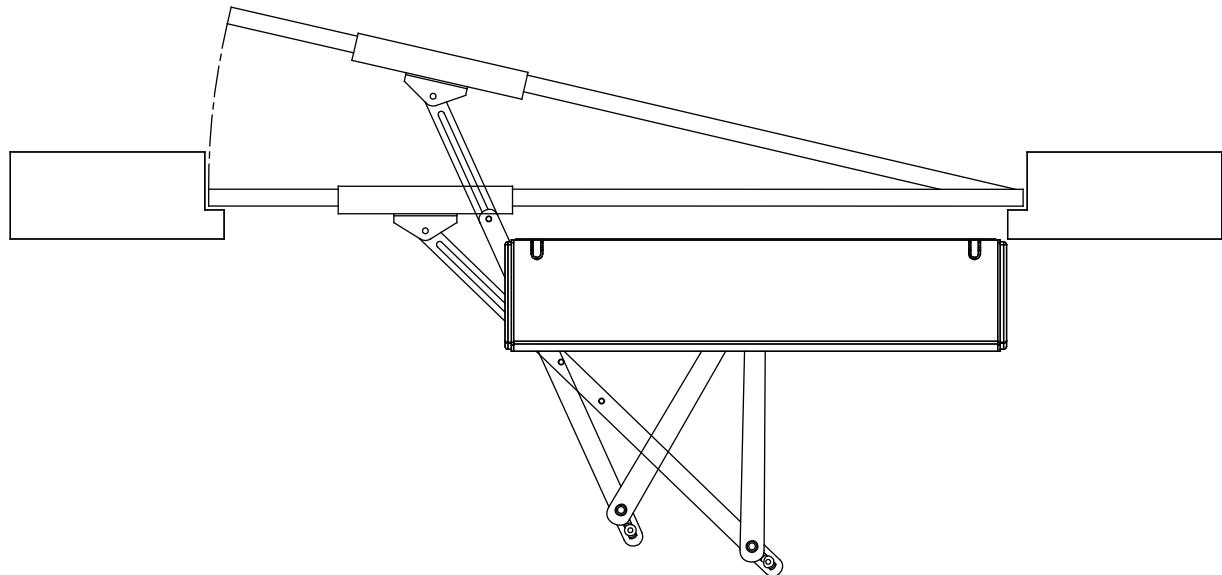
6.6 Installation of Glass clamp for pus



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

6.Mechanical installation

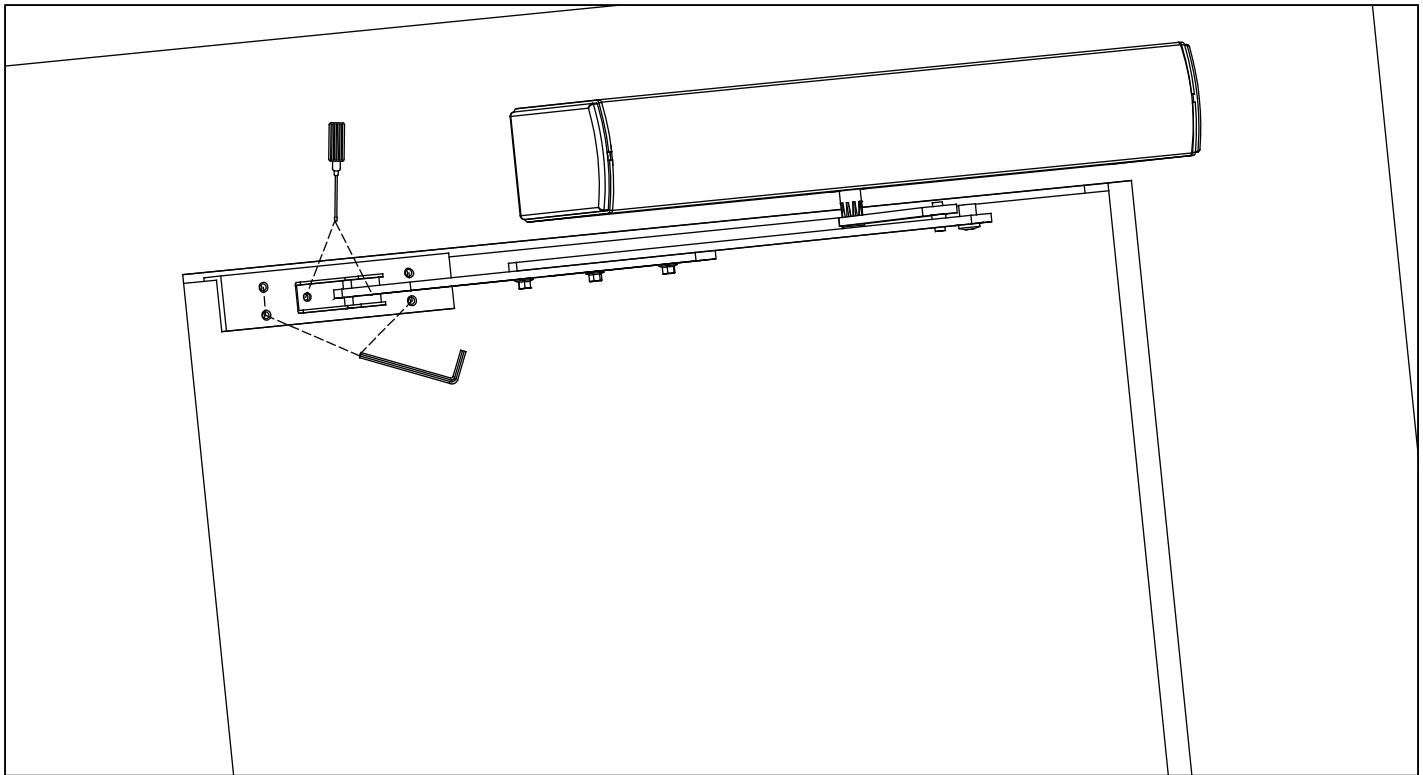
6.6 Installation of Glass clamp for push bar



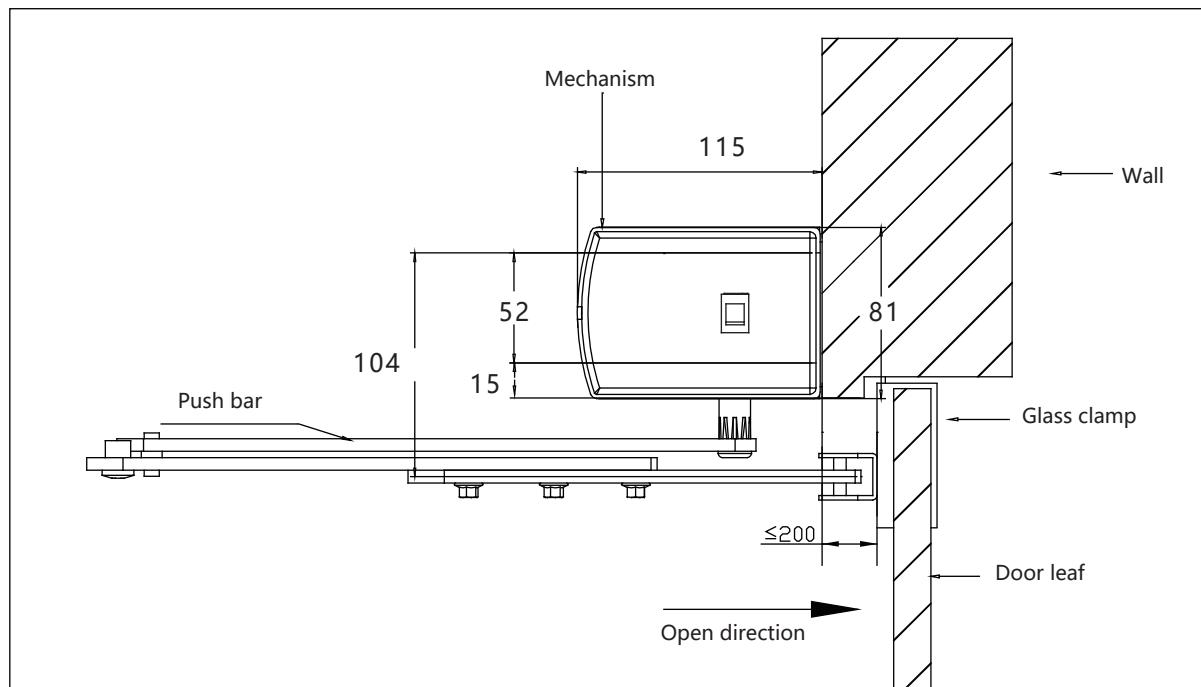
Tip: The glass clamp of the push arm shall be fastened on the door wing with 4 plug screws (M6*12) as shown in the figure

6.Mechanical installation

6.6 Installation of Glass clamp for pus

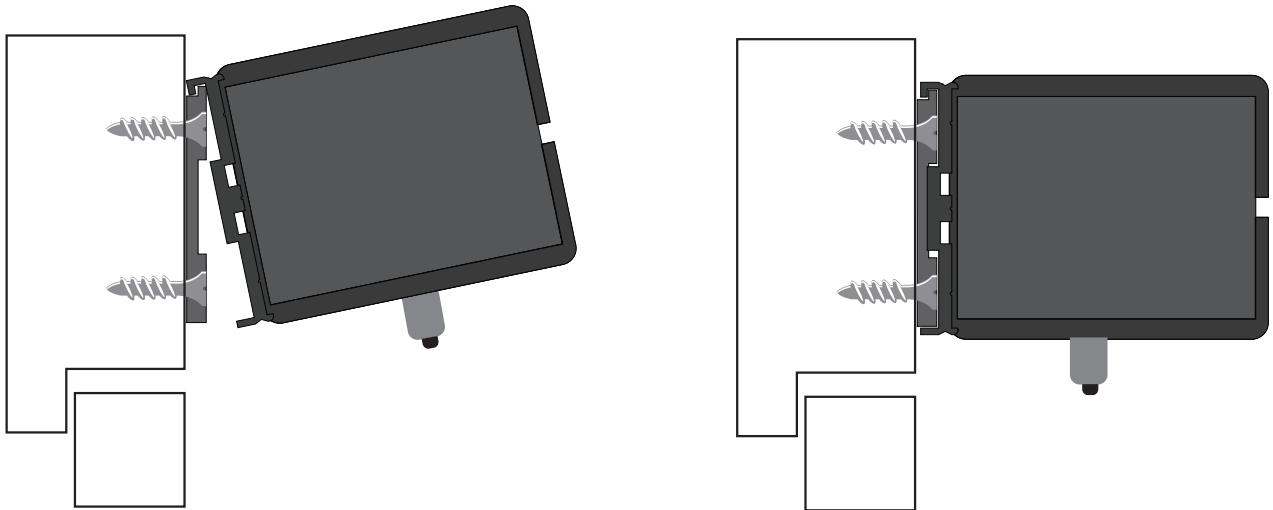


Fix the glass clamp and spacer with 4 screw (M6*12) tightly on glass door. Install the fix plate of push bar with 2 screw (M5*8) on glass clamp.



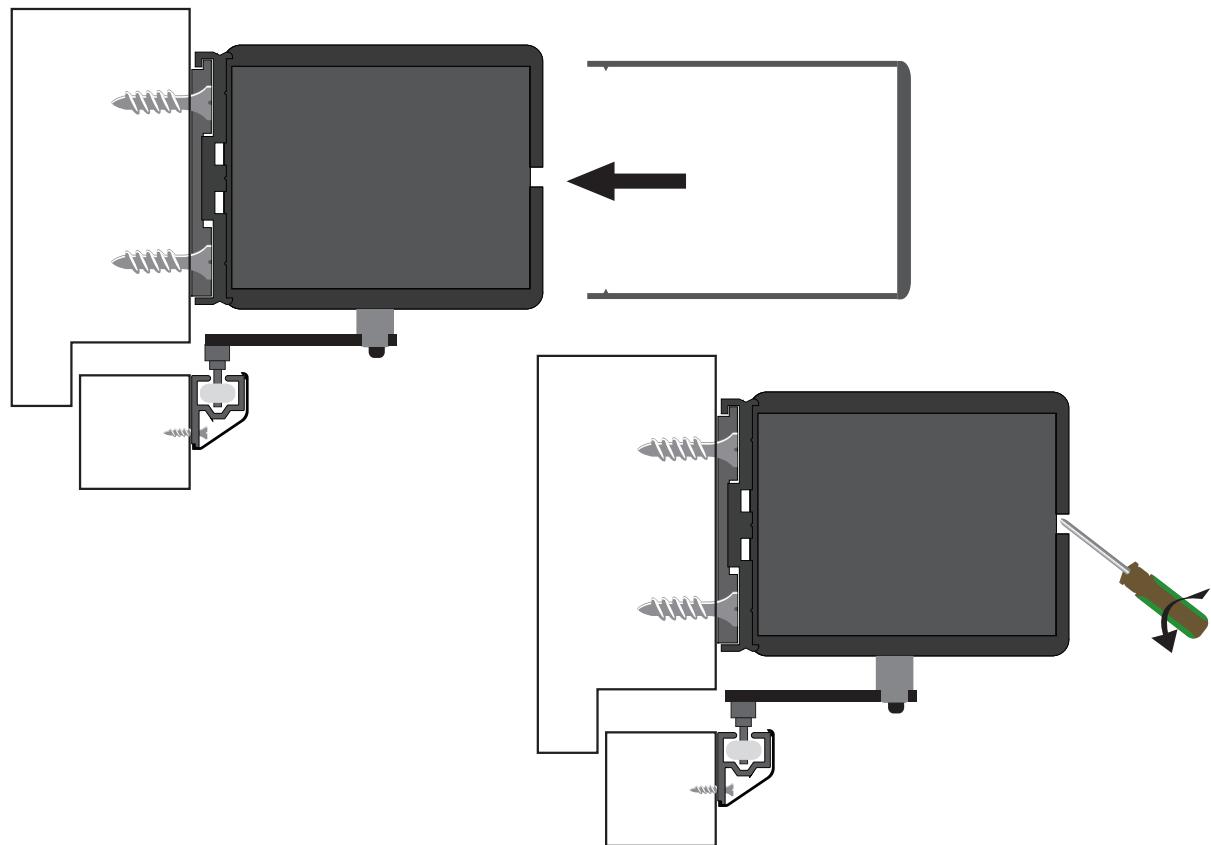
6.Mechanical installation

6.7 Mechanism installation



Hang the mechanism on the fixed base cover with screws.

6.8 Assemble and disassemble of the mechanism up cover



7.Wired Diagram

Terminal details

1: Left--Normal model; Right--Toggle model

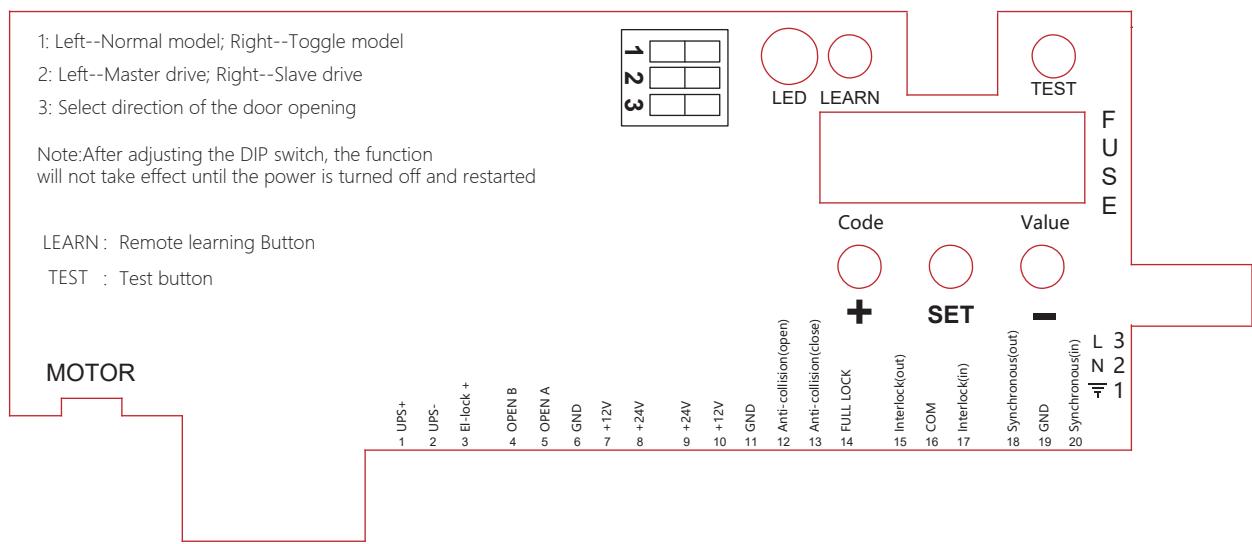
2: Left--Master drive; Right--Slave drive

3: Select direction of the door opening

Note:After adjusting the DIP switch, the function will not take effect until the power is turned off and restarted

LEARN : Remote learning Button

TEST : Test button



Note:After adjusting the DIP switch, the function will not take effect until the power is turned off and restarted

1. Left--Normal model; Right--Toggle model

2: Left--Master drive; Right--Slave drive

(For double open system)

3: Select direction of the door opening

(Learning methods:Push the door to half open and switch on the power. If the door close, there is no need to adjust this DIP switch; If not, adjust the DIP switch and repeat the appeal operation)

Button

Test: Testing button, press one time, the door open and close one time

Learn: Learning wireless accessories(remotes or wireless push button); One short press of the button can eliminate the sound of the controller buzzer, and another short press can restore the sound of the controller buzzer

LED Indicator light

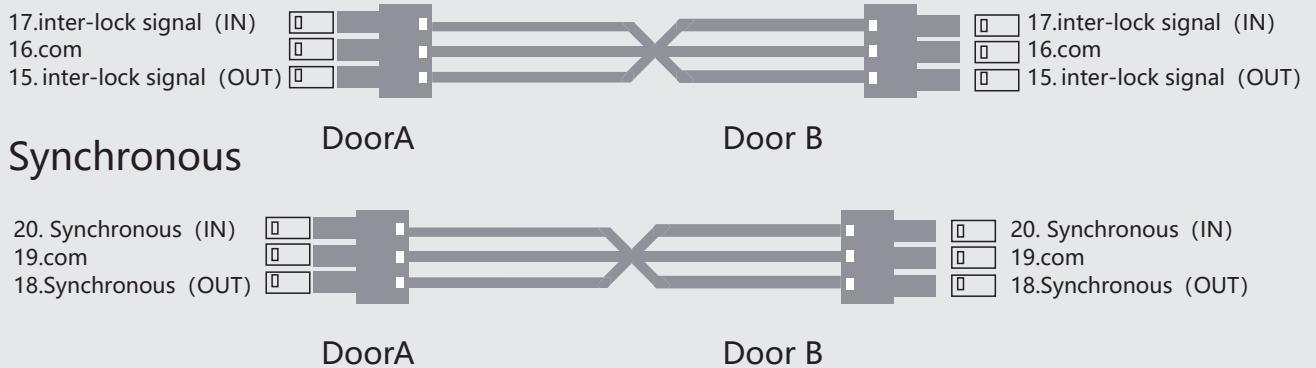
L1. Wireless accessories learning (blue)

L2. Master door LED, When setting the master door, flash after 4 seconds (Red)

L3. Slave door LED, When setting the Slave door, flash after 4 seconds (Green)

7.Wired Diagram

Inter-lock



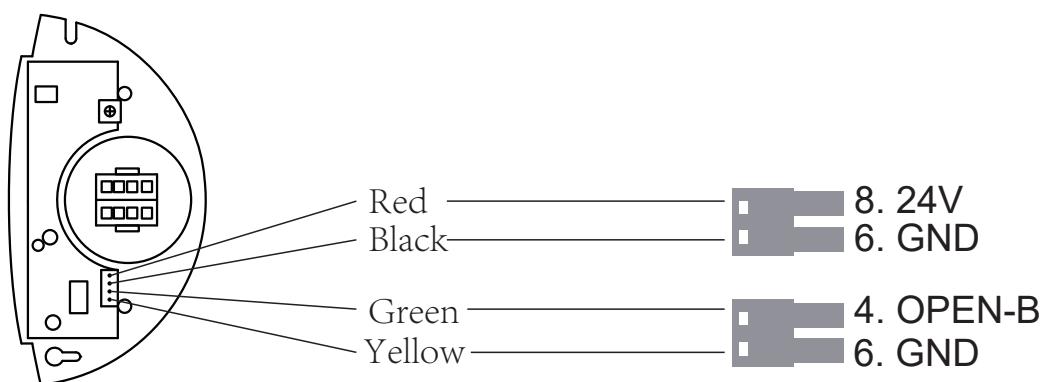
Tip :Er03 mean synchronous cable not well connect

In single open mode : bridge connect terminal 18 and 20



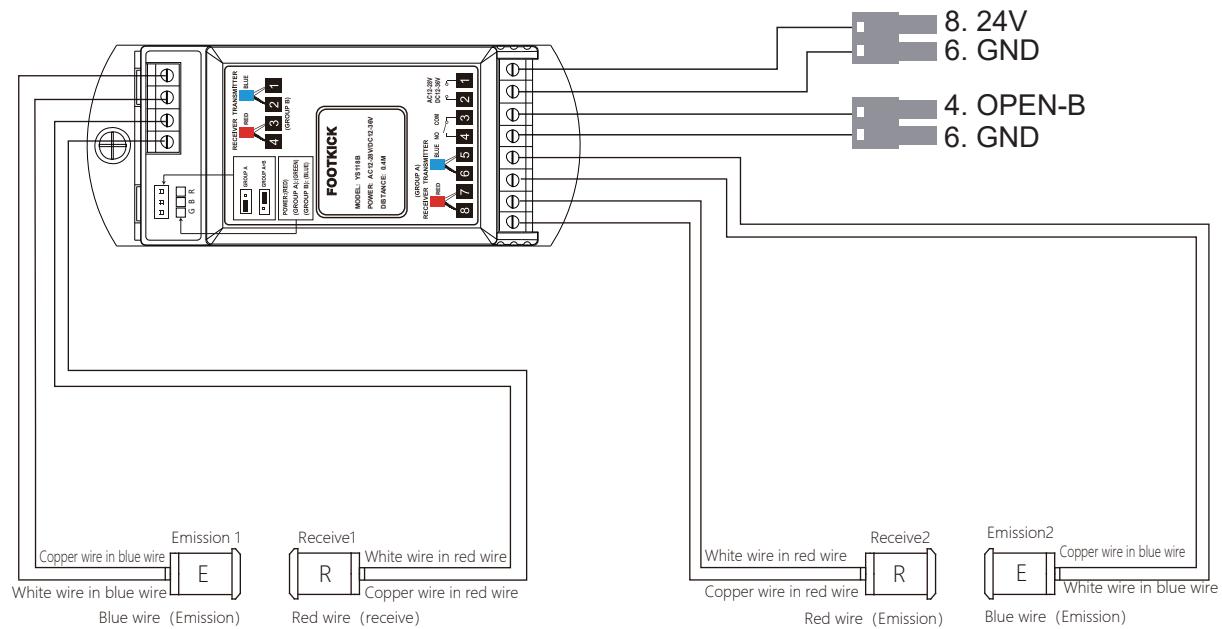
Tip: Dr12 Dr 13 mean not bridge connection

Microwave sensor

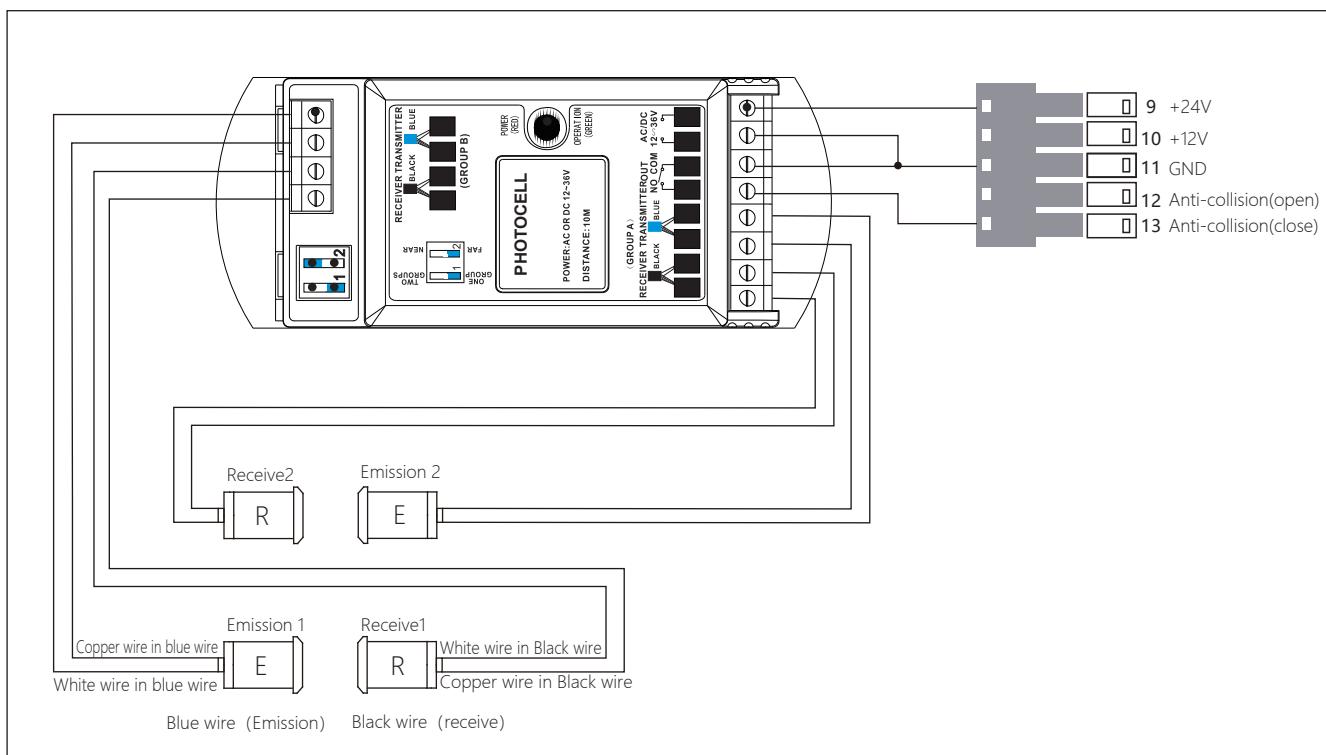


7.Wired Diagram

Foot kick switch

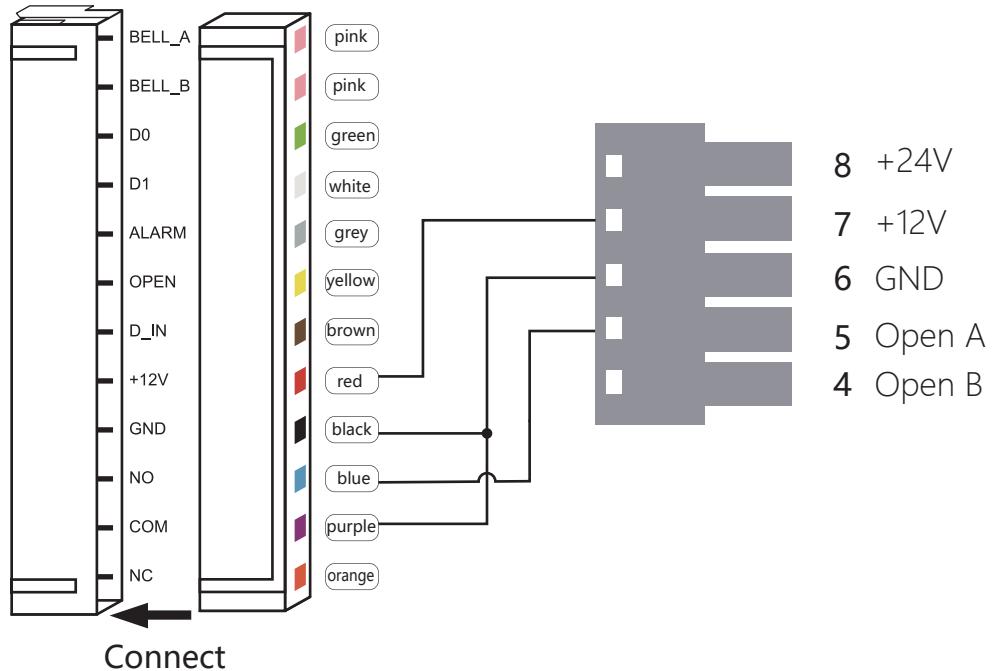


Phtocell

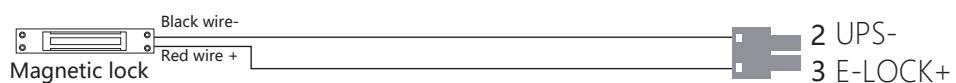
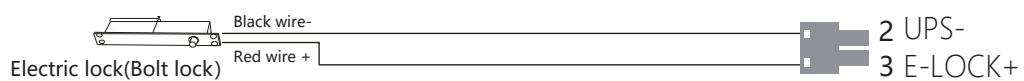


7.Wired Diagram

Acess keypad



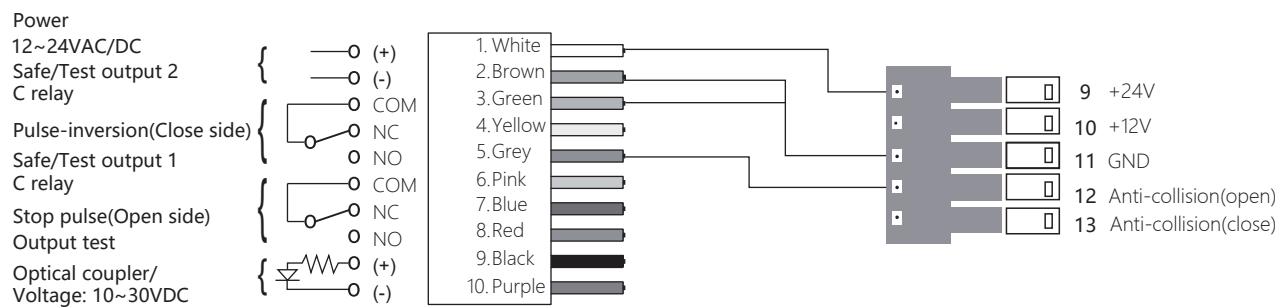
E-lock and Magnetic lock



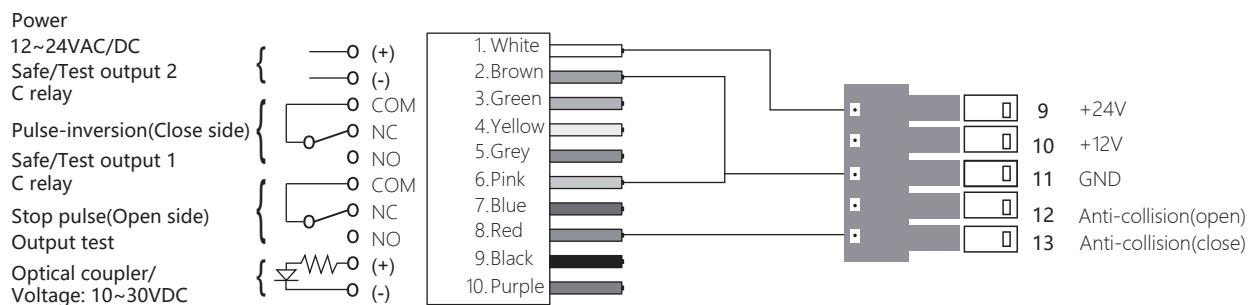
7. Wired Diagram

Anti-collision of top scan

Anti-collision(Open) (optex: OA-EDGE T)

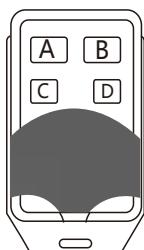


Anti-collision(Close)



7.Wired Diagram

Operation of Function remote



FC04:

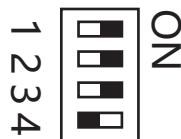
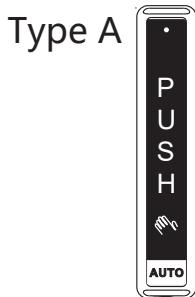
- A: Always open
- B: Automatic
- C: Open and close one time
- D: Full lock

Add remote: 1. Keep pressing the learning button LEARN, release the button a till LED become yellow, then press any button on remote , remote will been added after led flash and buzzer rings.

2.Keep pressing any button on remote , and keep pressing button LEARN on remote at same time, release button LEARN till LED become yellow, remote will been added after led flash and buzzer rings

Delete remote: Keep pressing learning button A 5 seconds, all remote memory will delete after LED flash 3 times
(Tip: Ensure keep pressing learning button when delet remote memory)

Wireless push button learning and delete methods same as remotes



Please check the DIP switch if it's same as the image shown (during setting process) DIP 1, 2, 3 on the left, DIP 4 on the right

Type B(Optional)



Button A



Button B

Function selection of wireless push button (work with swing door) 1.Remove battery
2.Keep pressing "Reset" button
3.Insert the battery at same time, the red led flash
4.Keep pressing button A , red led off about 5 second, Then flash again
5.Release Reset button and A button, Setting is done

Notes:

1. Receiver has been built-in. It can be connected wireless accessories directly.

Tip: Wireless push button can't be locked, If need to lock, it need to connect to an external receiver

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. When double open, Synchronous cable must be connect refer to manual. Power on, Ensure the setting on both controller is same. If speed is different during operating , Pls slightly adjust open /close speed, open/close barking speed, opening time

4. When double open, remote control must learn both controller , in order to control two door at same time

5. In double open mode, All accessories connected to the master door only

8.Data setting

Code	Setting range	Default	Description
01	20-99	50	Opening speed(velocity open)
02	20-99	40	Closing speed(velocity close)
03	2-20	5	Braking opening speed
04	2-20	5	Braking closing speed
05	10-50	30	Braking opening angle
06	10-50	30	Braking closing angle
07	0-60	2	Hold-open time (0-60s)
08	1-8	3	Starting delay time (1-4s, 1=0.5s, when lock function working)
09	0-8	2	Locking delay time (0-4s, 1=0.5s)
10	0,1	0	Locking type(0: lock by remote; 1: auto lock when closed)
11	0,1	1	Push and go function (0: working 1 : not working)
12	1-5	2	Obstacle detection optimized for exterior(wind loads)
13	1-5	2	Holding force-closed
14	1-5	3	Anti-collision force
15	5-30	15	Auto-learning speed
16	0-30	10	Setting master door start/close wait Angle. (Only in the double open case)When door opening,Mater door open at the set Angle, and the slave door will follow open. When the door closing, the slave door closes first.Mater door shuts off at the set angle, and Mater door does not follow after the slave door is completely closed.
17	0,1	00	Anti-collision(open) and Anti-collision(Close) Access signal selection, 00:NO 01 NC
18	0,1	00	Sensor anti-interference function. 00: not working , 01: working (After function is truned on, when door closing, sensor not working)
19	0,1	00	Turn on/off the door opening angle setting 00: off 01: on
20	30-120	00	Door opening angle setting,Note: the maximum angle of 95 degree for push arm
21	0-3	00	Lock type 00:Fail secure electronic lock 01:Fail safe electronic lock 02: Fail secure strike lock 03:Fail safe strike lock
22	45-99	00	Shielding angle for opening anti-collision singnal setting 00:without this function 45-99:When the door opening to the setting angle, the singal for shielding the anti-collision will work and open the door slowly
23	0,1	00	The opening angle setting for the arm:00:pull arm 01:push arm

9.LED display feedback

Single opening

LED display	Details
Dr11	No problem.
Dr12 or Dr13	Terminal 11 and 13 are not connected.(They should be connected when single opening)
Er01	Over current protection for controller.
Er02	Motor has problem.

Double opening

LED display	Details
Dr12	Master door
Dr13	Slave door
Er01	Over current protection for controller.
Er02	Motor has problem.
Er03	Synchronous wired problem.
Er04	Master door and slave door sequencing problem.

10.Trouble shooting

Symptoms	Causes	Items Checked	Remedies
Door opened or closed un-smoothly	Opening/closing speed is set too slow	Check the opening/closing speed	Speed up the opening/closing speed
	learning speed is too fast	Check the learning speed	Slow down the learning speed
	Too much resistance	Check whether there is someting on the door's working way	Clear the obstacle away
Hit the door frame suddenly when closing, door stop suddenly when opening	Buffer speed when opening/closing is too fast		Slow down the buffer speed when opening/closing
	Position stopper is loosen.		Fix the stopper.
Door doesn't work	No power	Check the power switch, connection terminal from motor to controller	Connect the power
	learning speed is too slow		Speed up the learning Speed.
	Door is locked	Check whether the door is locked.	Un-lock the door
	Obstacle in the pull bar's guider.	Check the pull bar guider	Remove the obstacle
	Resistance force is too stronge.		Power off, push the door leaf. Make sure the door work smoothly.
Door can not open	There's an obstacle in the path.		Temove the obstacle
	Learning speed is too slow		Adjust the learning speed faster



