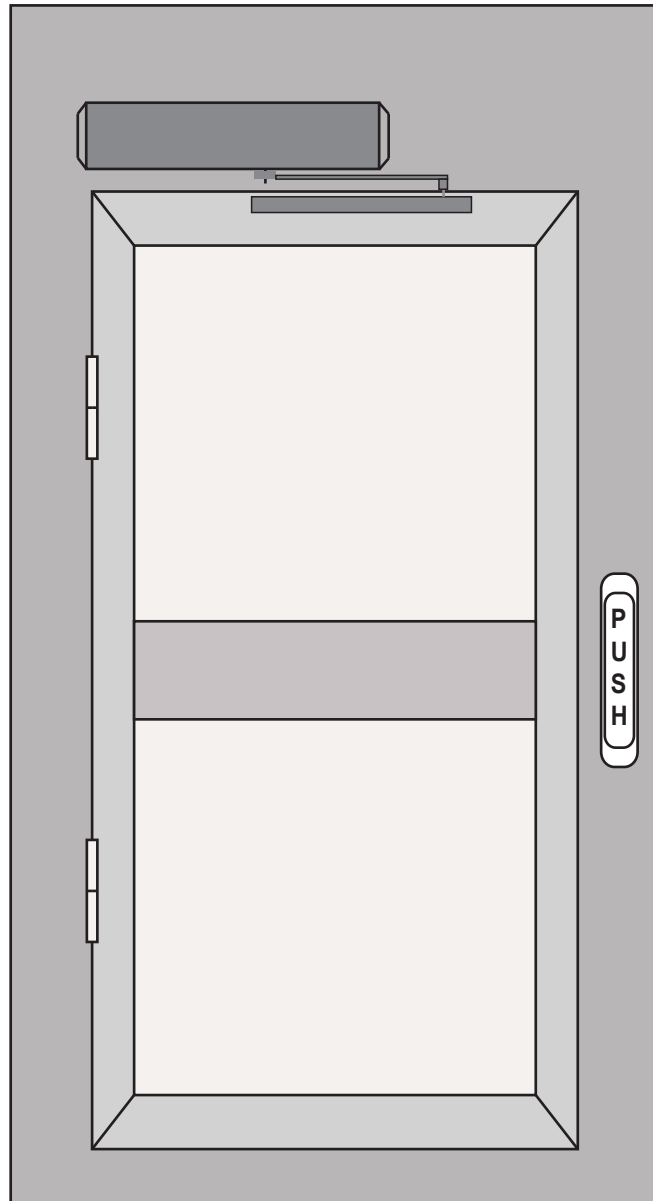


X

MANUAL

SW150



AUTOMATIC ENTRANCE SPECIALISTS



- 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.



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2	Technical parameters	2
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1.Introduction of product

Application: suitable for wooden door,metal door and frame door. Frameless door needs to be installed with the glass clamp

Speed/opening time/open degree/ close force adjustable

Door width : $\leq 1200\text{mm}$

Door weight : $\leq 200\text{kg}$

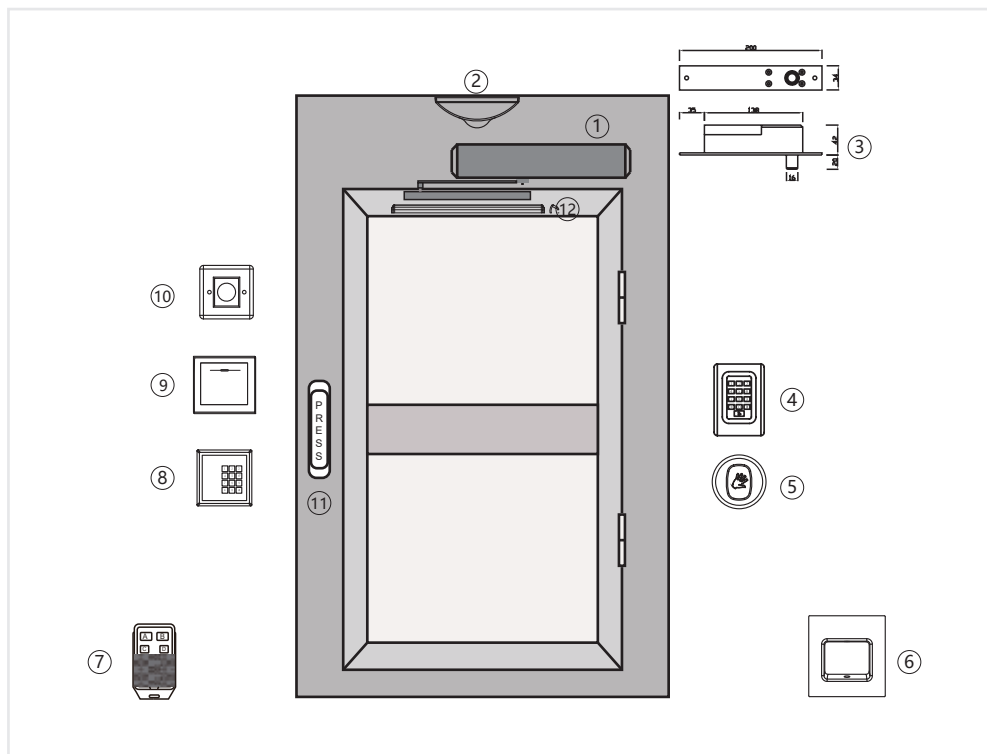
Open degree: Max110°

Installation: open to inside (Pull arm) /open to outside (Push arm)

Voltage: AC100V-240V, Output 24 DC

Opening Accessories: Function remotes(standard), Wireless push button, access keypad etc.

Working times: About 2 million times.



- 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 200kgs door.

4.Push and go function.

5.The voltage of the controller is AC100V-240V, which is applicable worldwide.

6. The controller can be directly connected to the magnetic lock to work without additional power box.

7. The controller has added the anti-interference function of the sensor, and the sensor can be directly connected inside and outside the operator.



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2. Technical Parameters

Power: AC 100V-240V

Active open time: 3-7s/90°

Hold open time: 0-60s

Temperature: -20°C- +55°C

Protection class: IP21

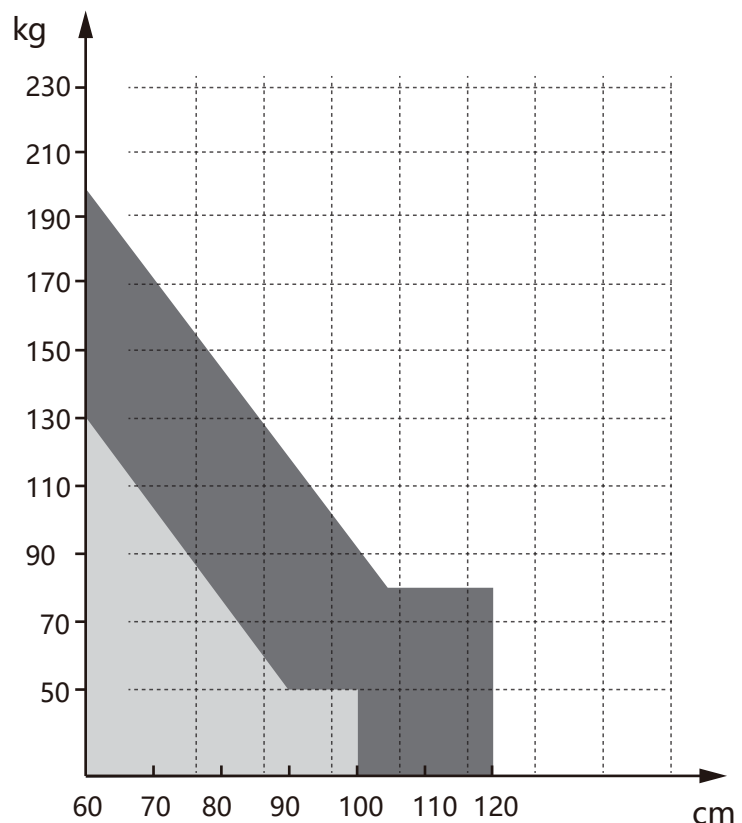
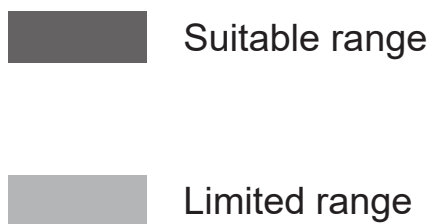
Product weight: 5.5kg

Product size: 475*81*98mm

Max open angle: 110°

mm = Door width

kg = Door weight



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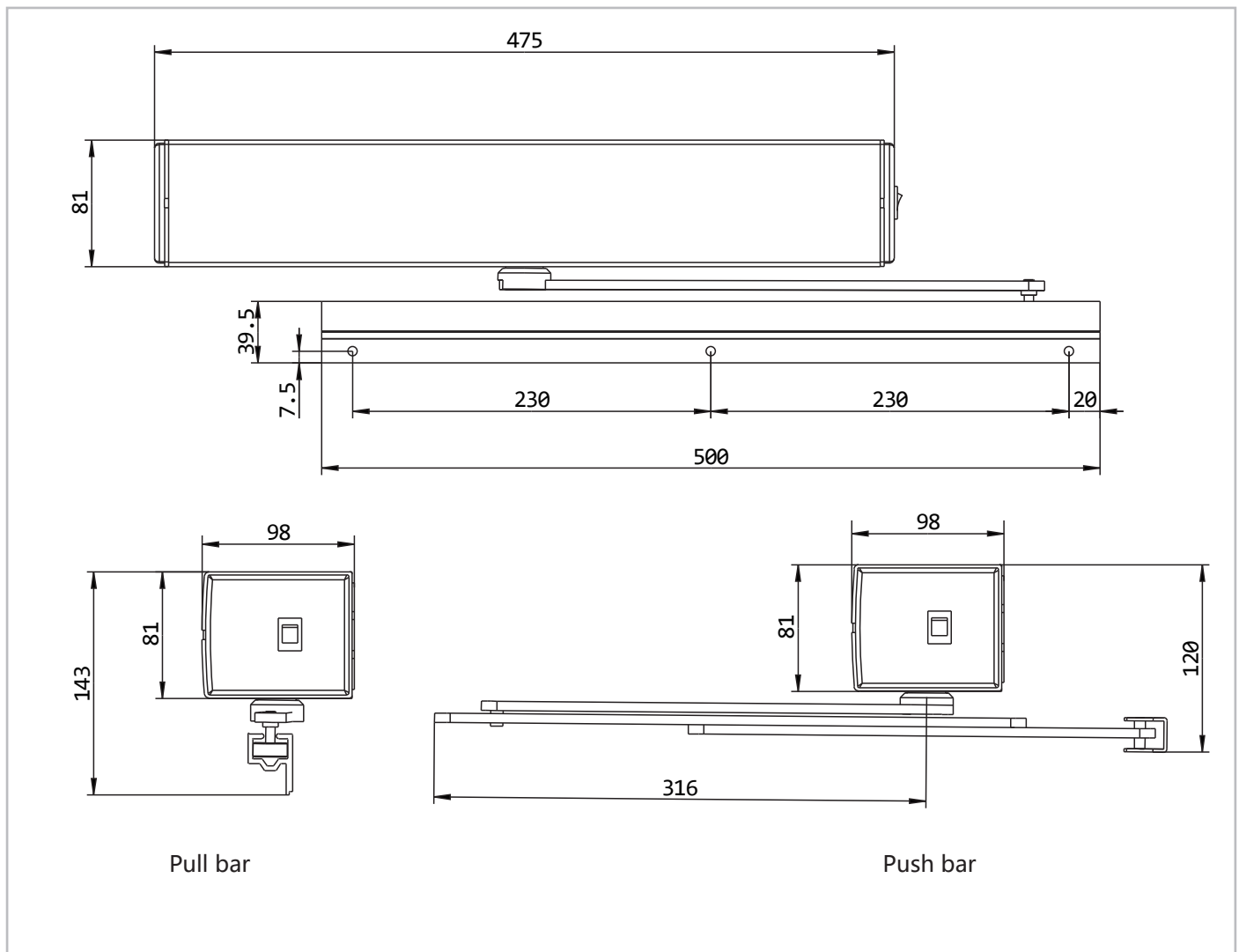


3.Swing door mechanism

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



Swing door mechanism



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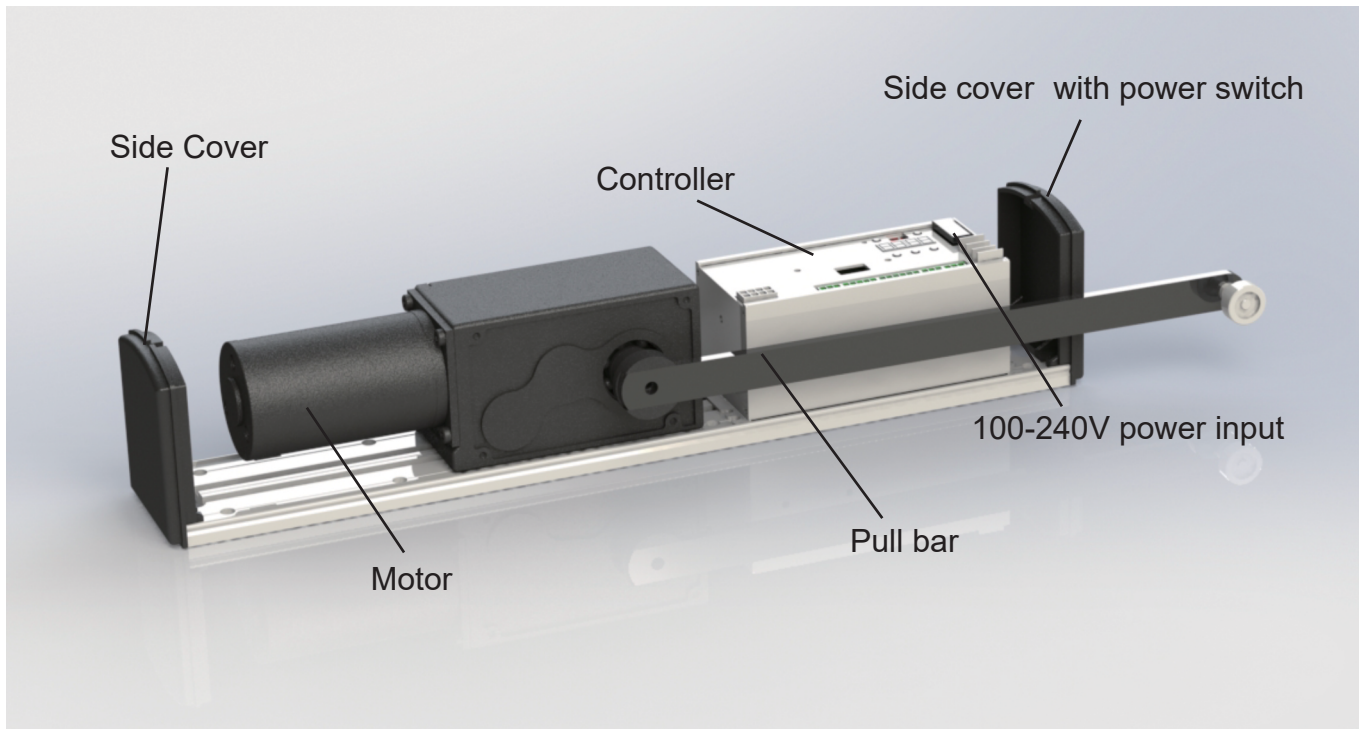
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4.Components



SW150

	Base
	Pull bar
	Cover
	Slide rail
	Door operator



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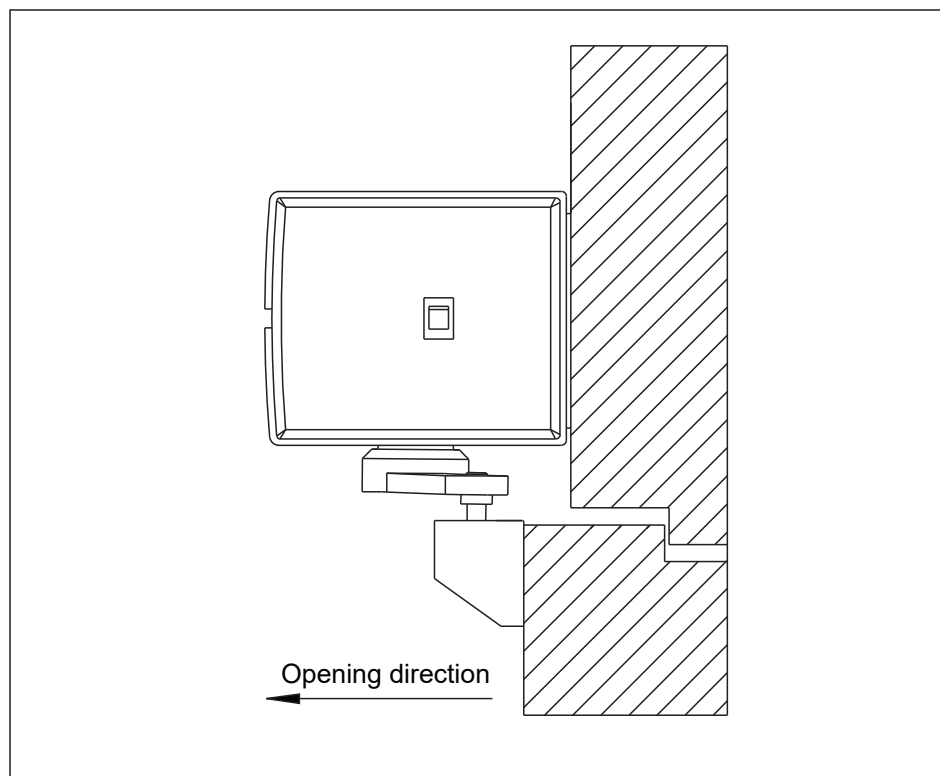
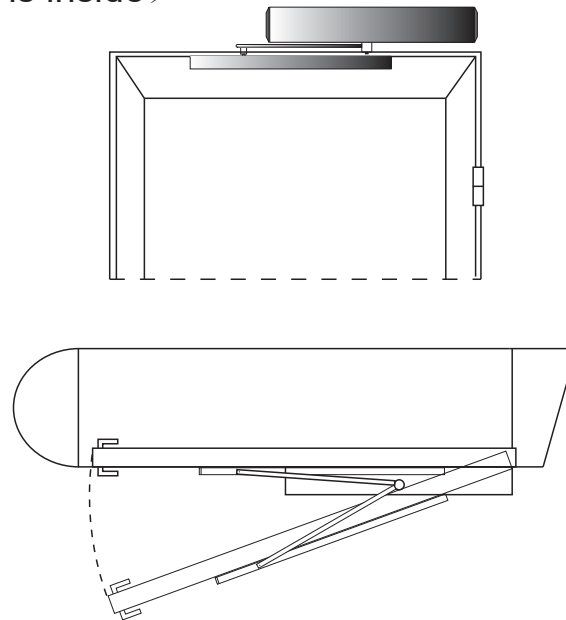
No.93, Jalan BP 7/2, Bandar Bukit
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5. Installation step

5.1 Installation demonstration

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



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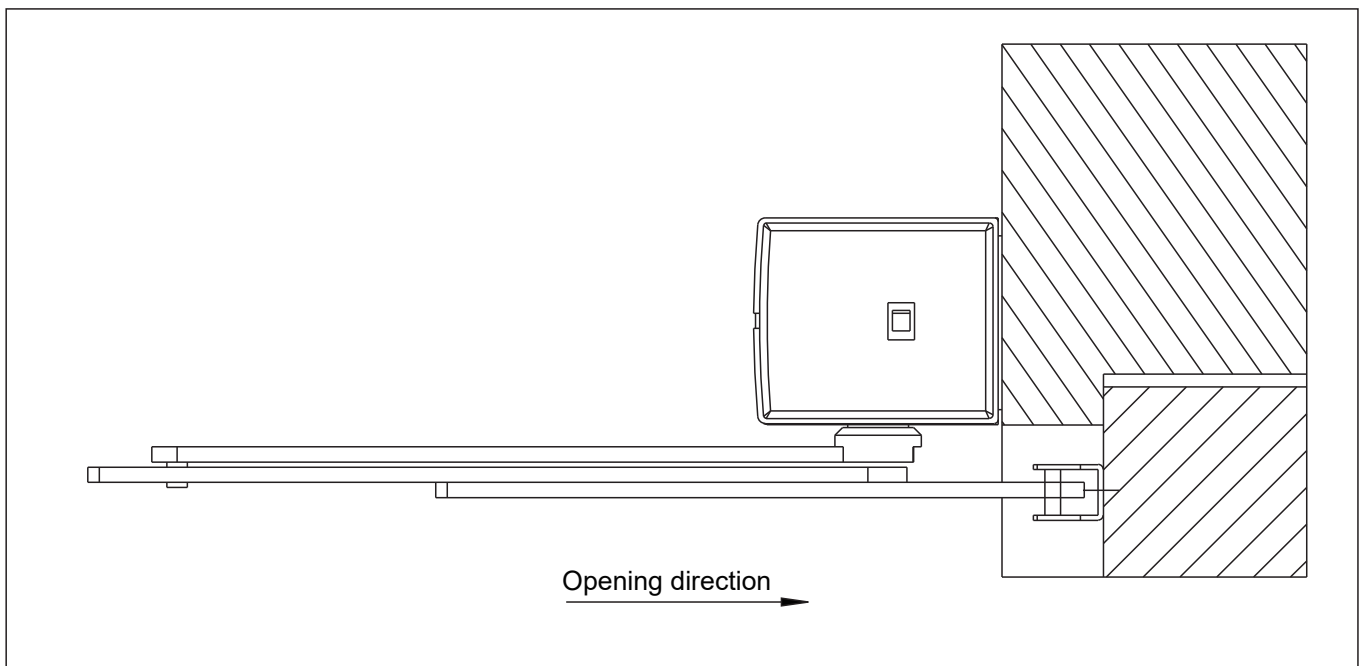
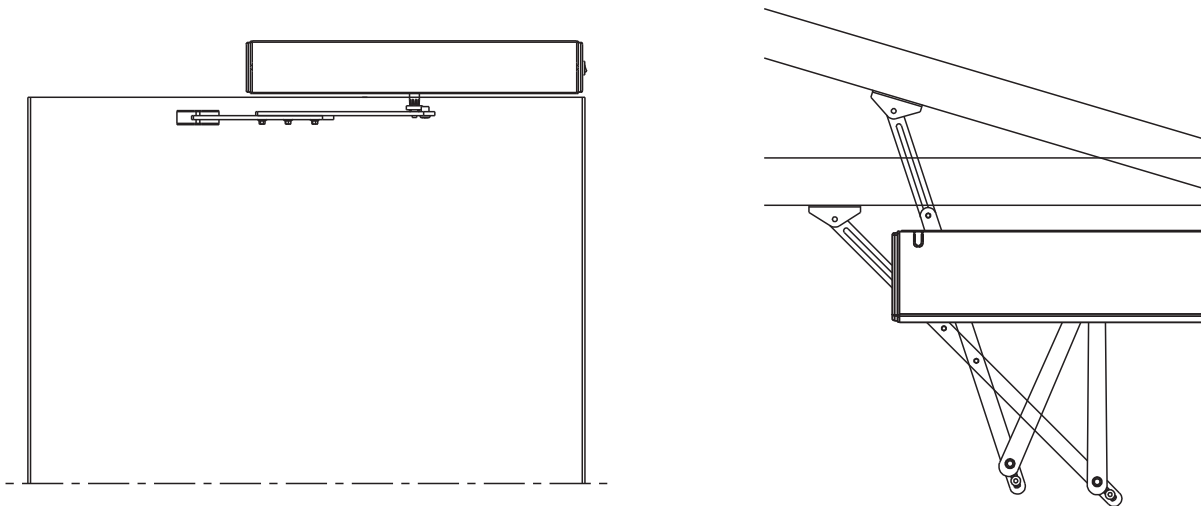
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5. Installation step

5.1 Installation demonstration

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



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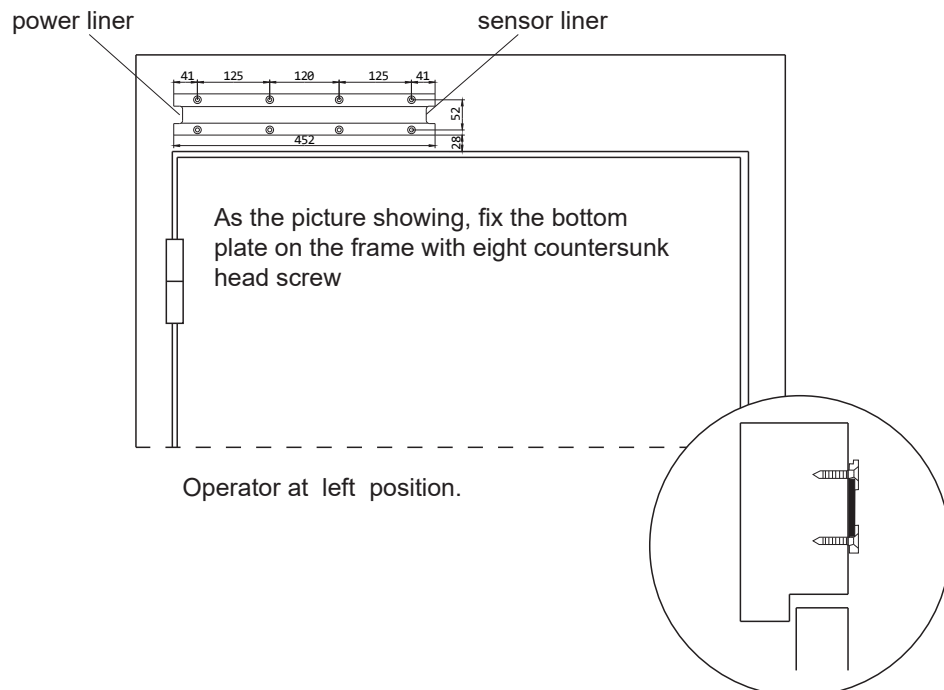
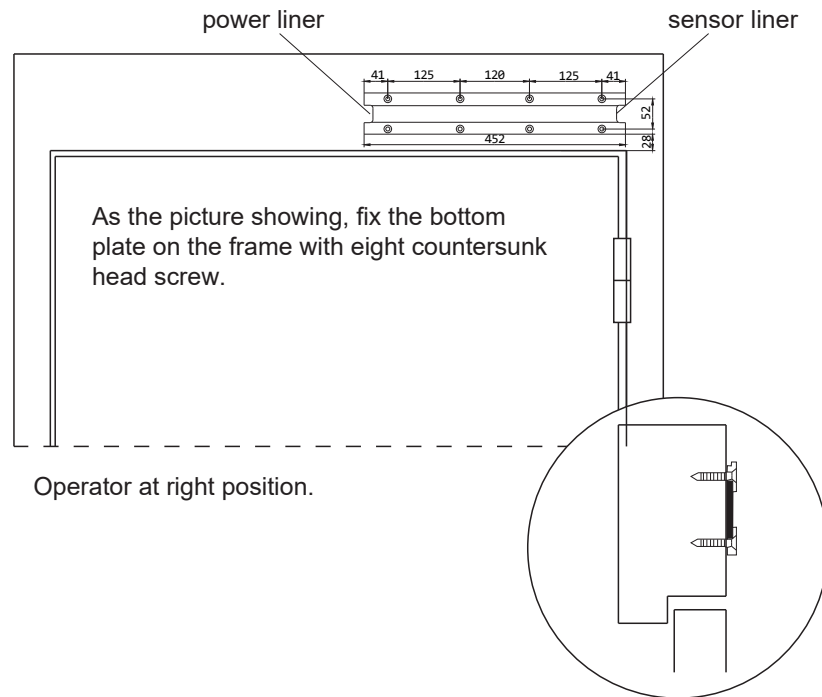
No.93, Jalan BP 7/2, Bandar Bukit
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5. Installation step

5.2 Installation of bottom plate

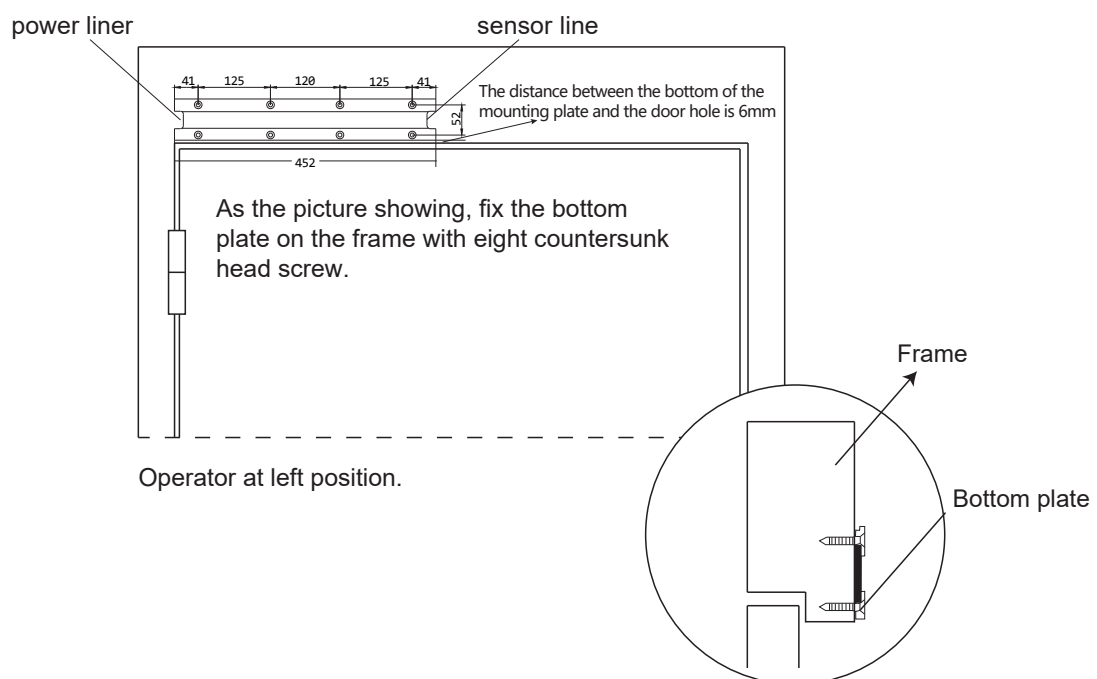
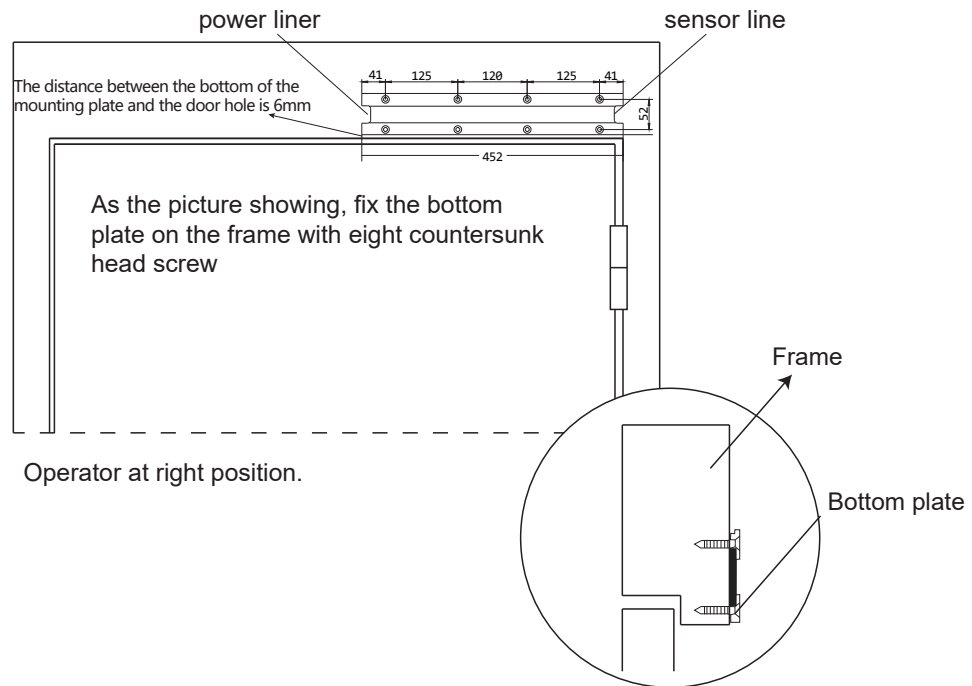
Installation of pull bar type



5. Installation step

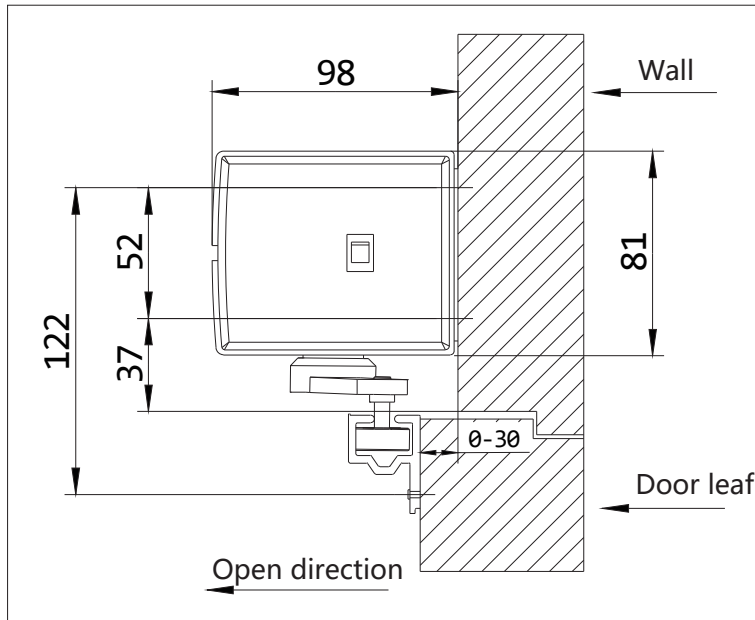
5.2 Installation of bottom plate

Installation of push bar type

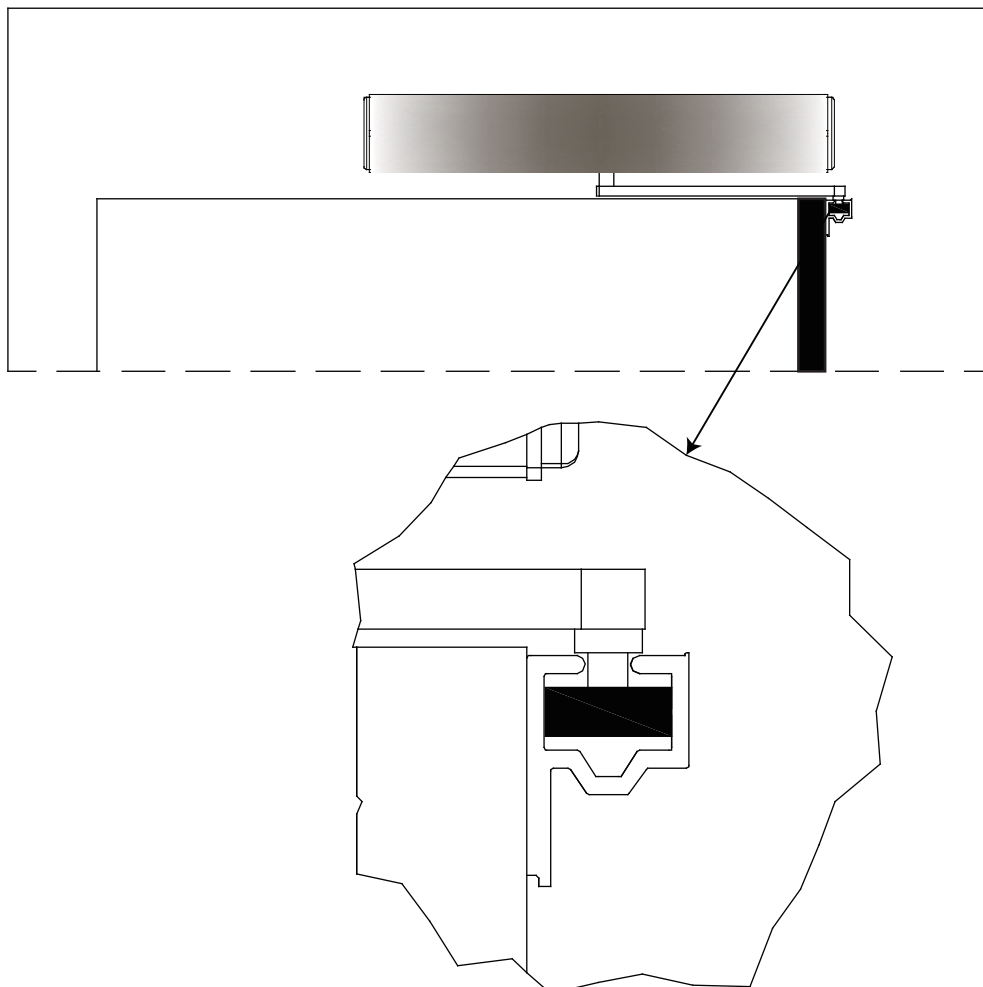


5. Installation step

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 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.



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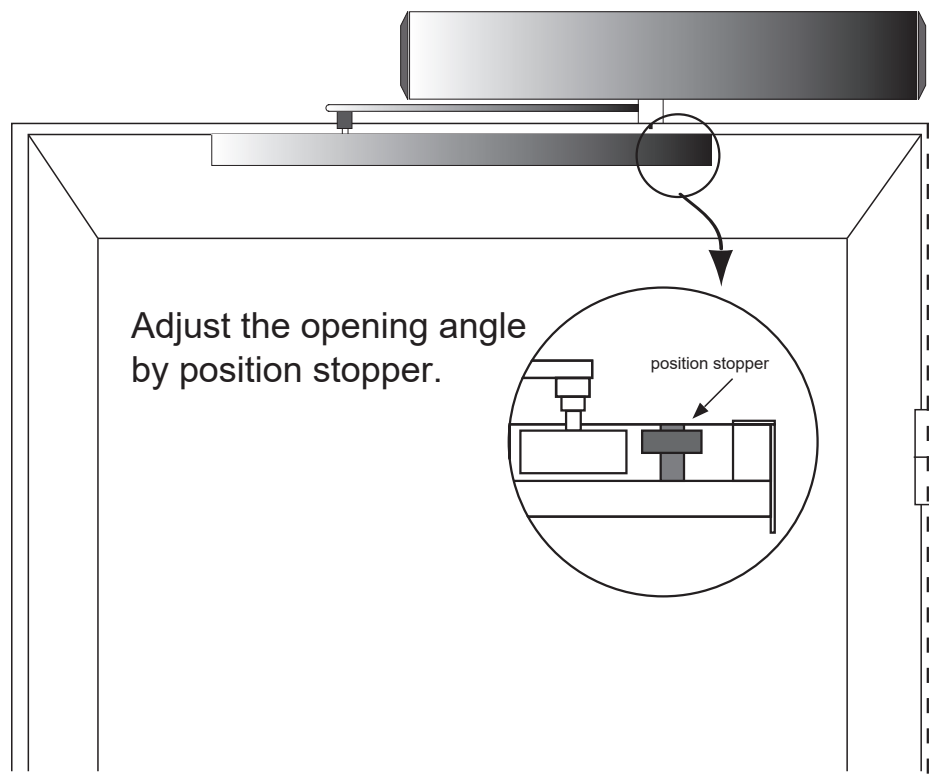
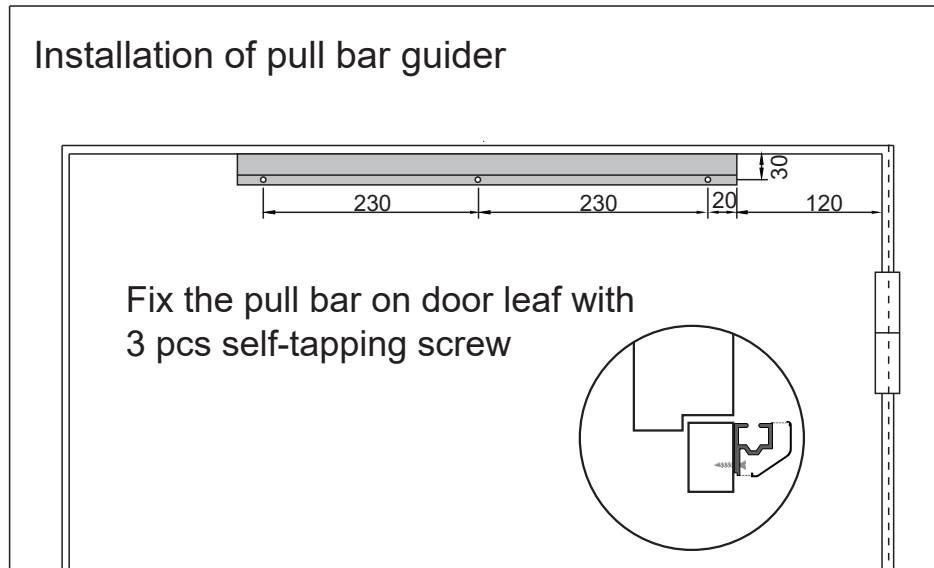


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5. Installation step

5.3 Installation of pull bar guider(Right position)



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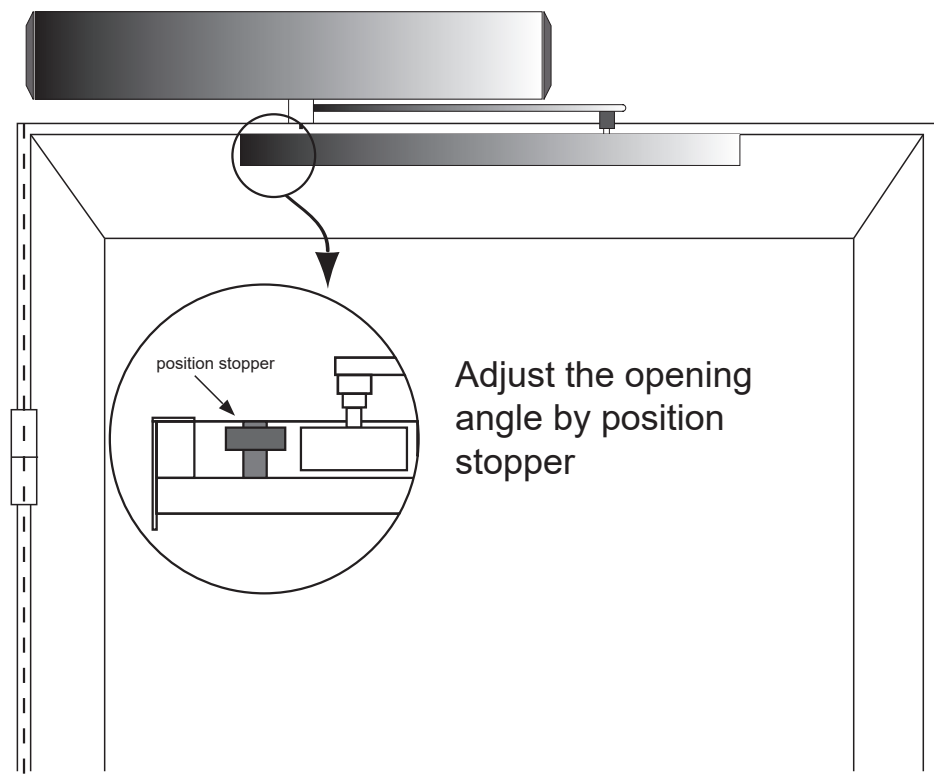
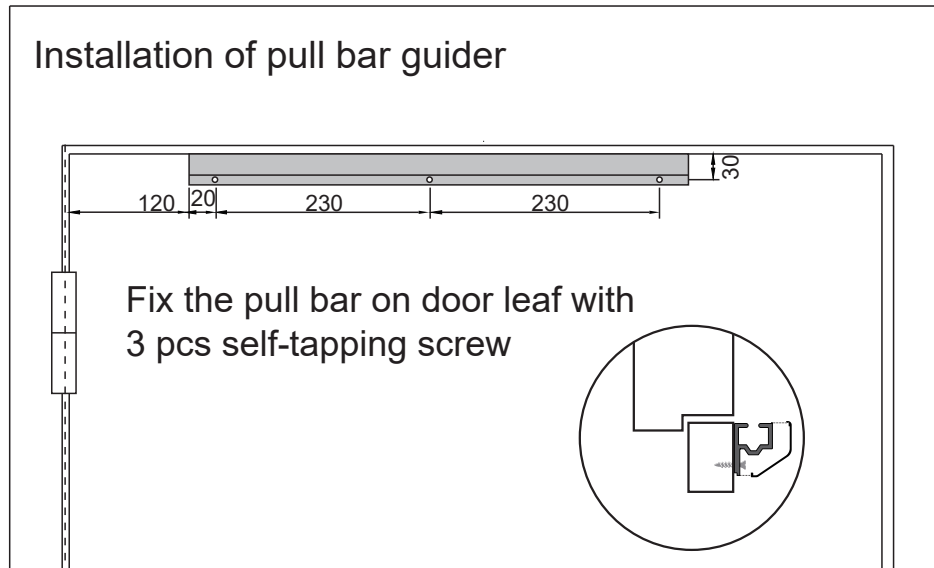


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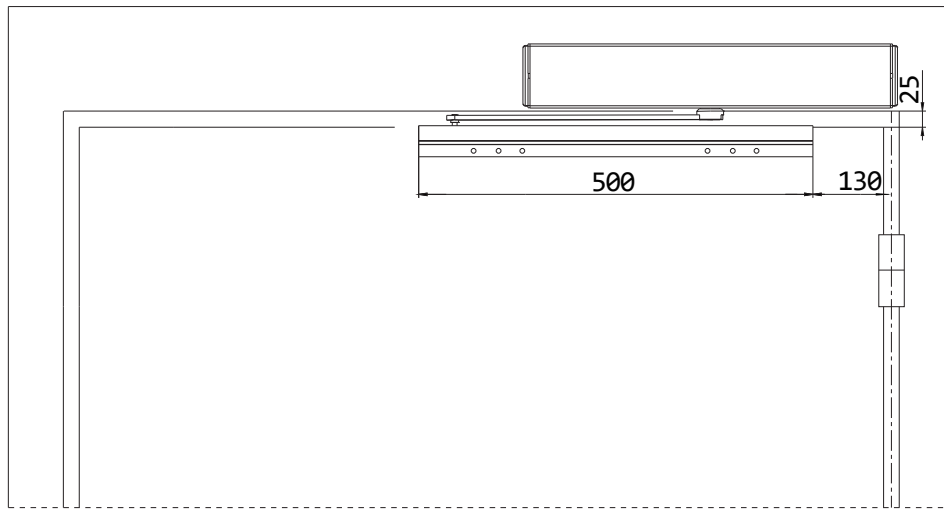
5. Installation step

5.3 Installation of pull bar guider(Left position)

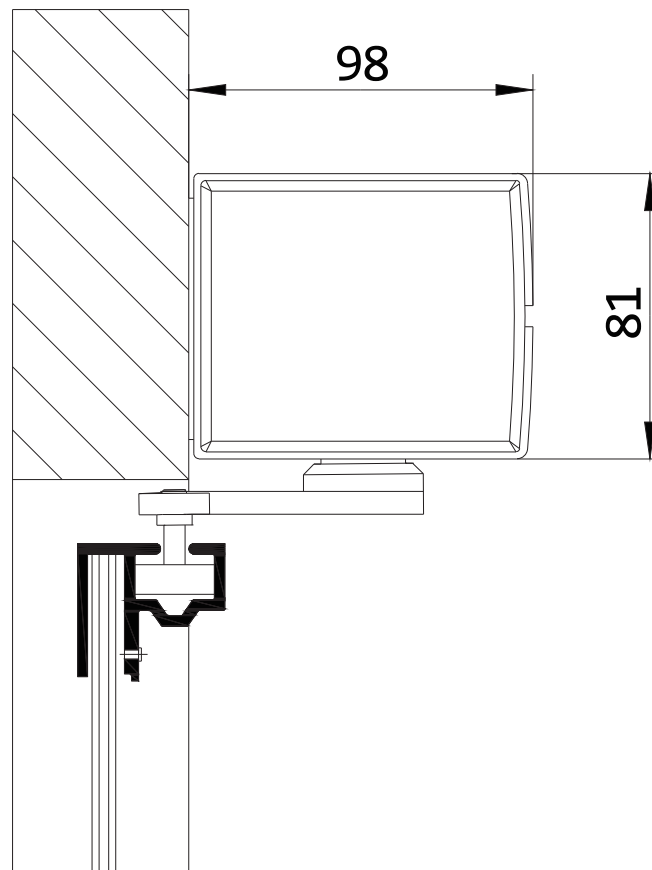


5. Installation step

5.4 Installation of pull bar for glass door



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



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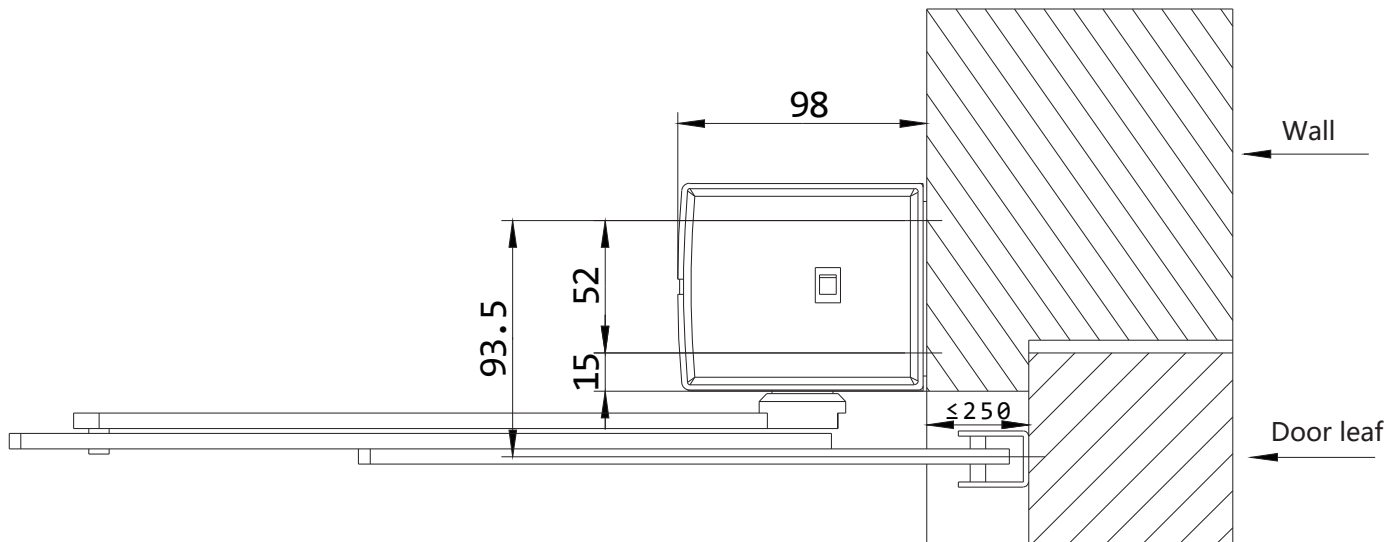


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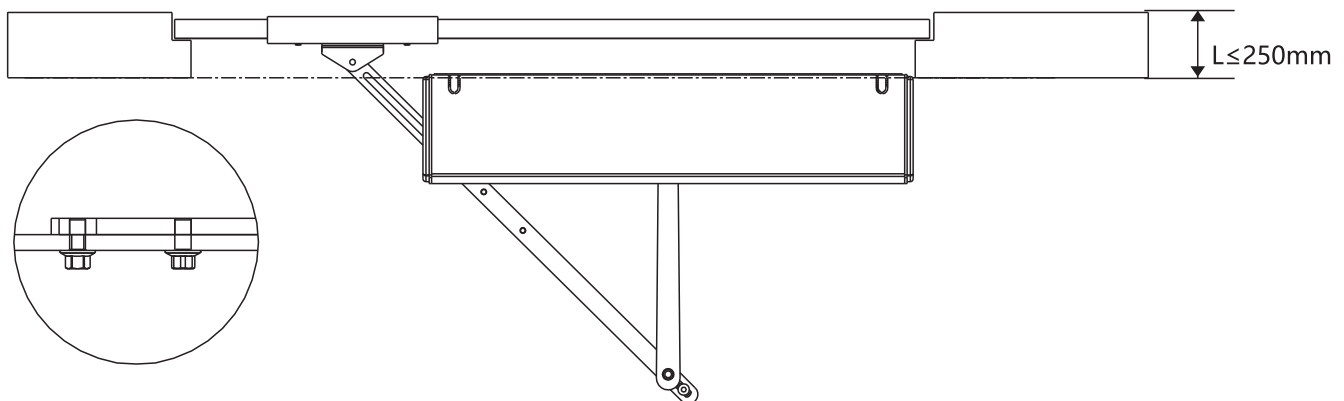


5. Installation step

5.5 Installation of push bar



5.5.1 Installation of push bar for glass door



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

Automatic door right installation



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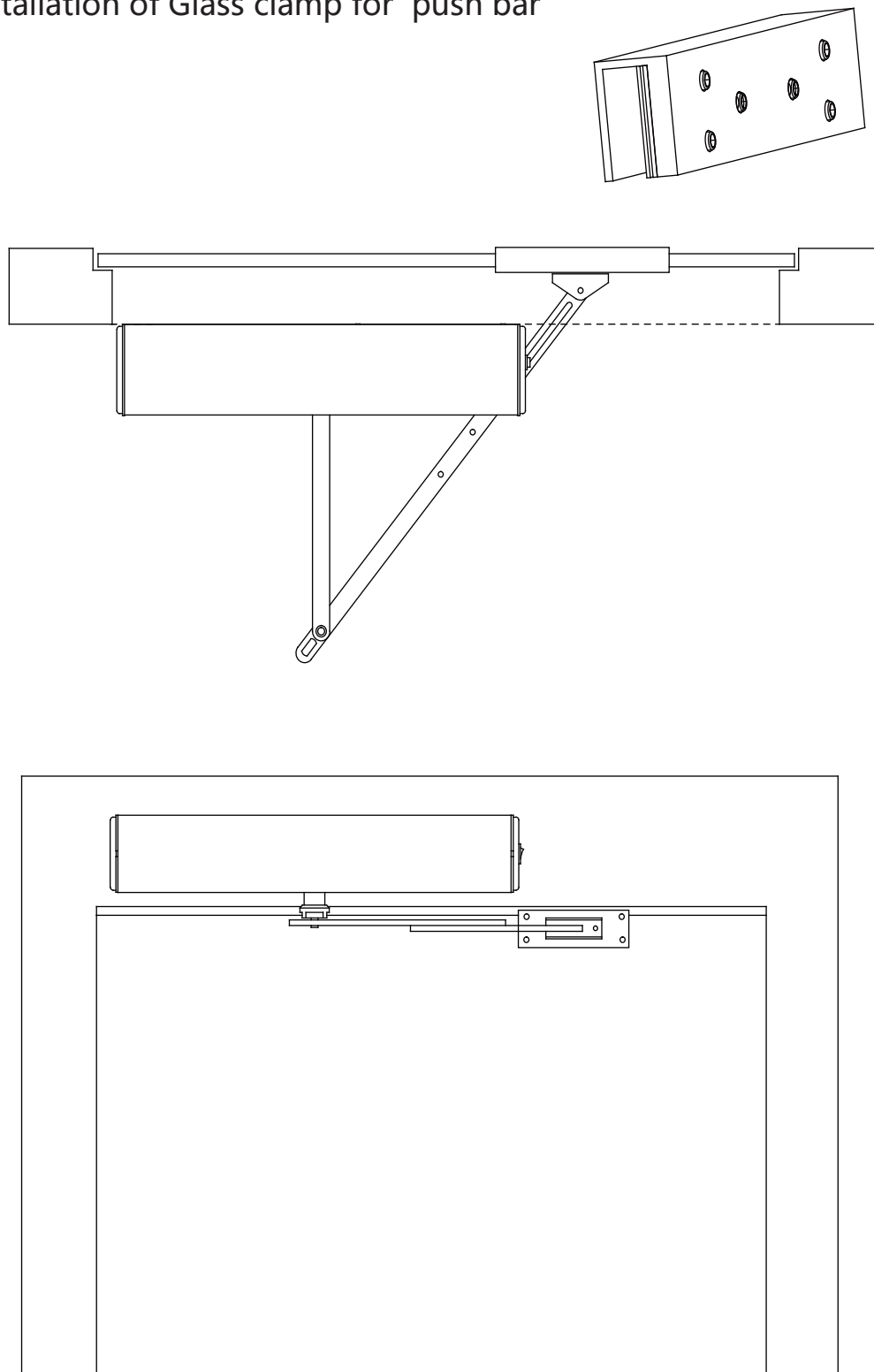


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5. Installation step

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



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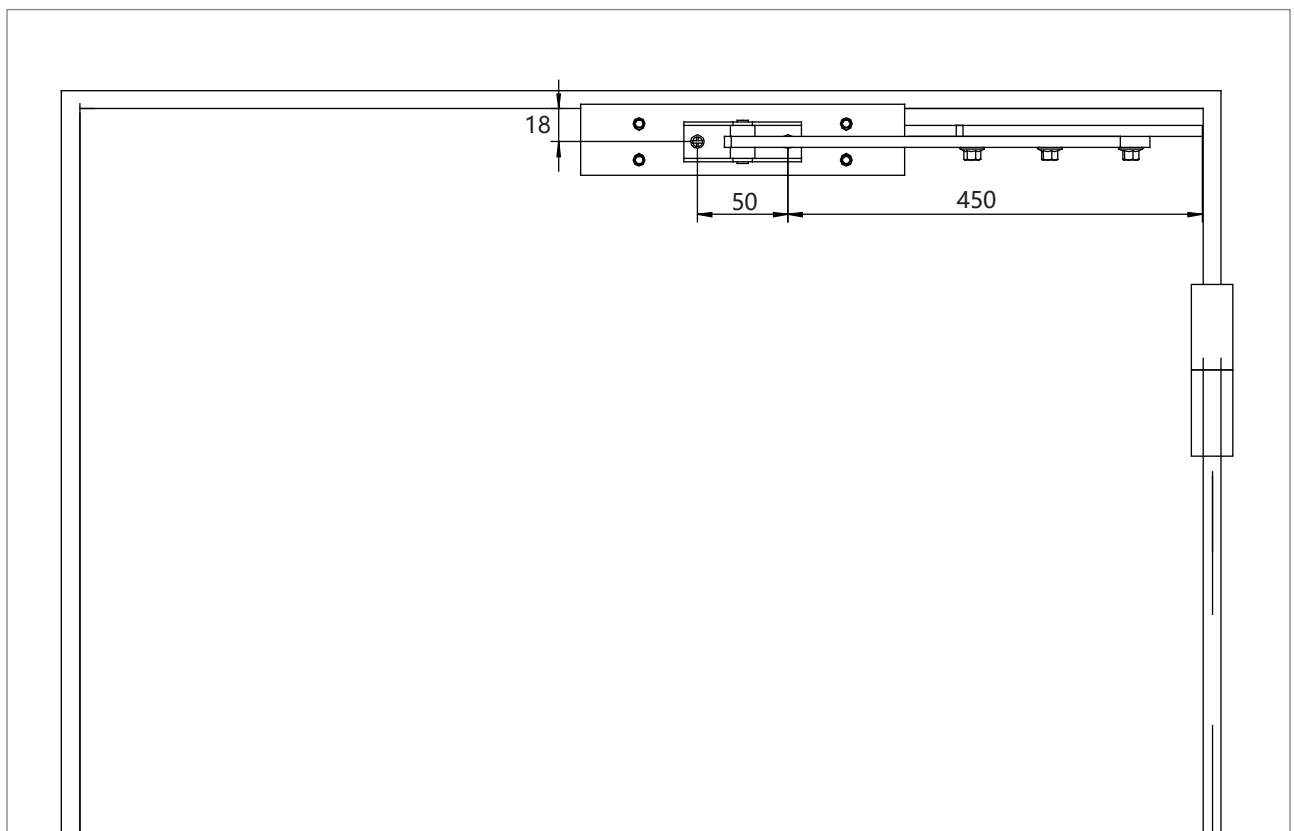
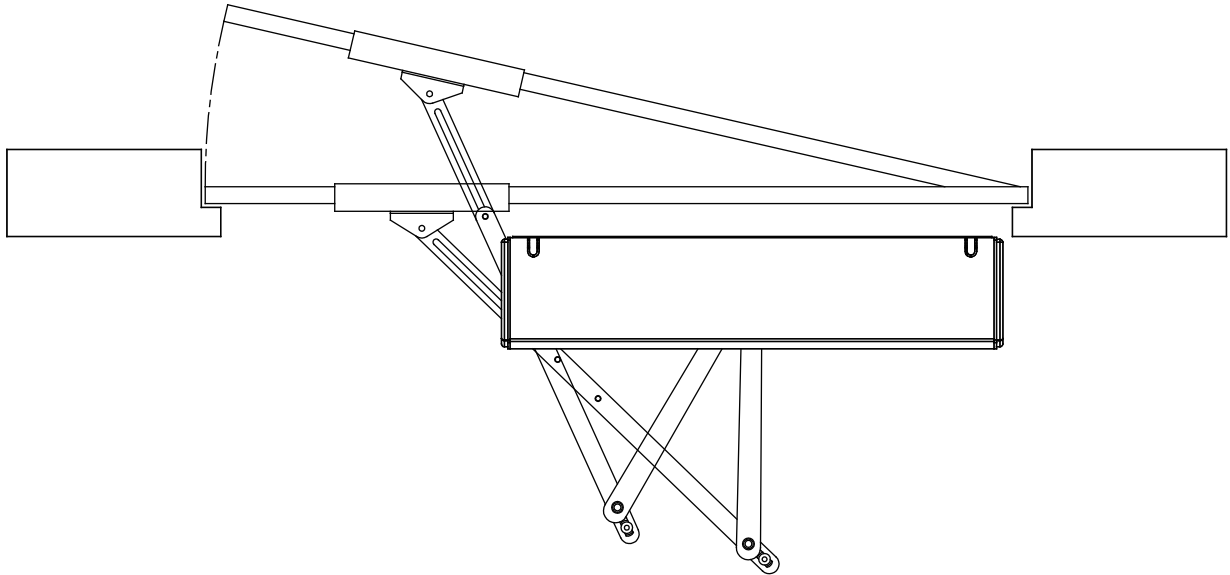


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5. Installation step

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



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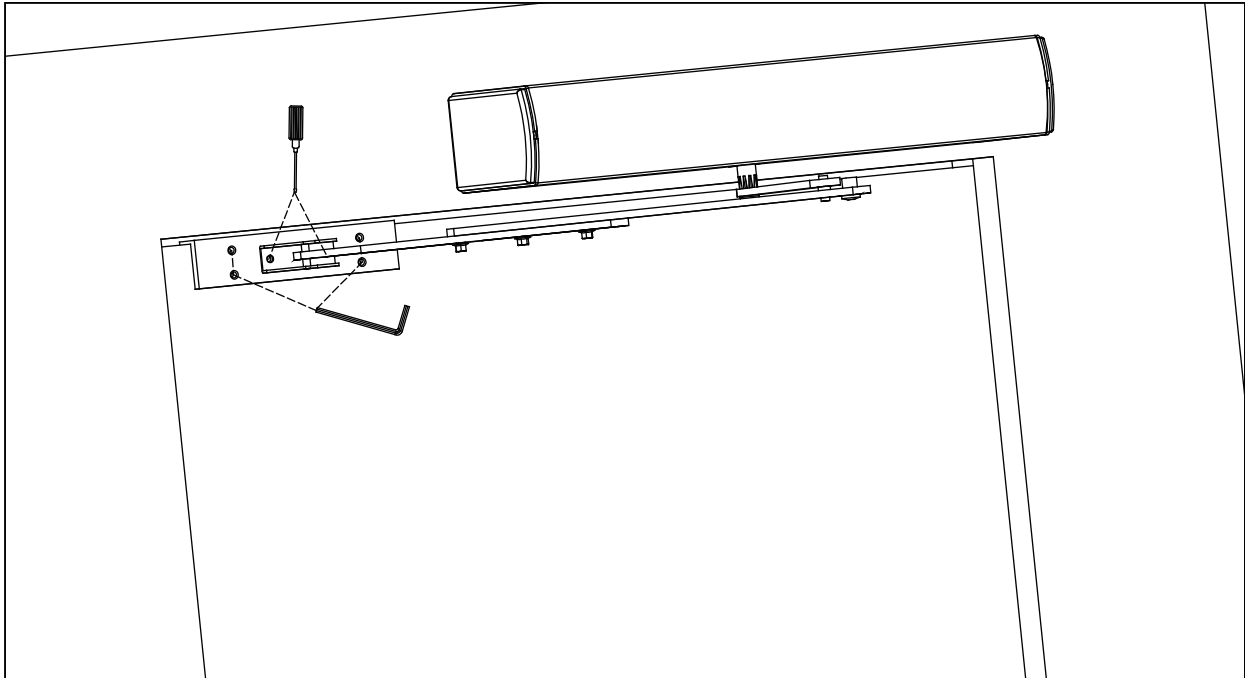


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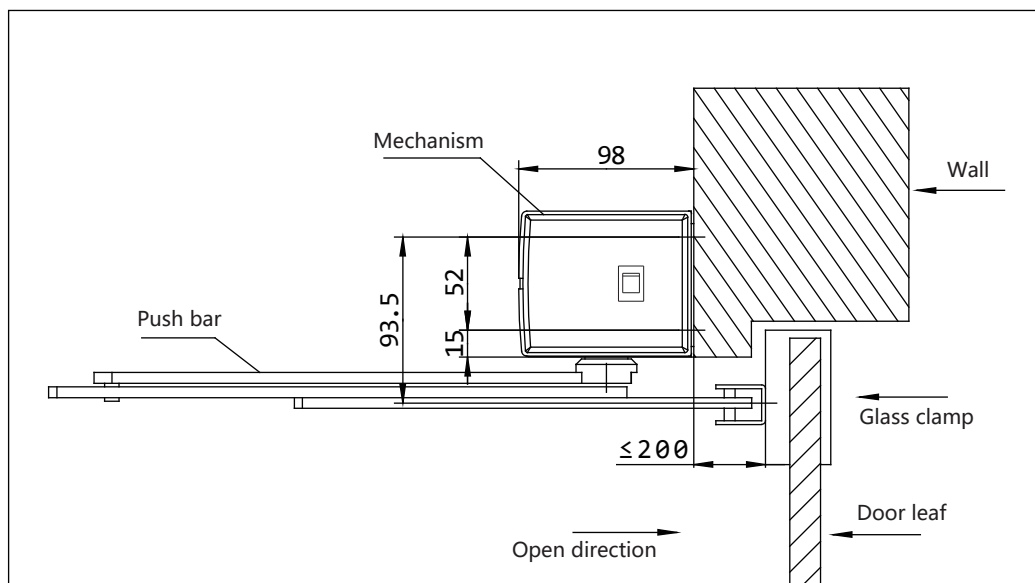


5. Installation step

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.



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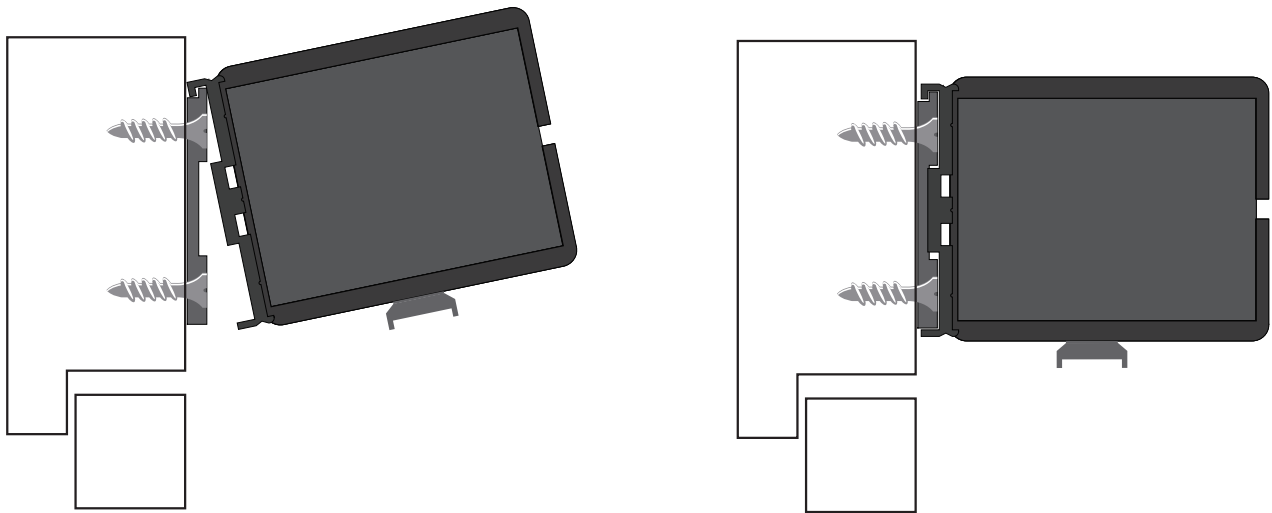


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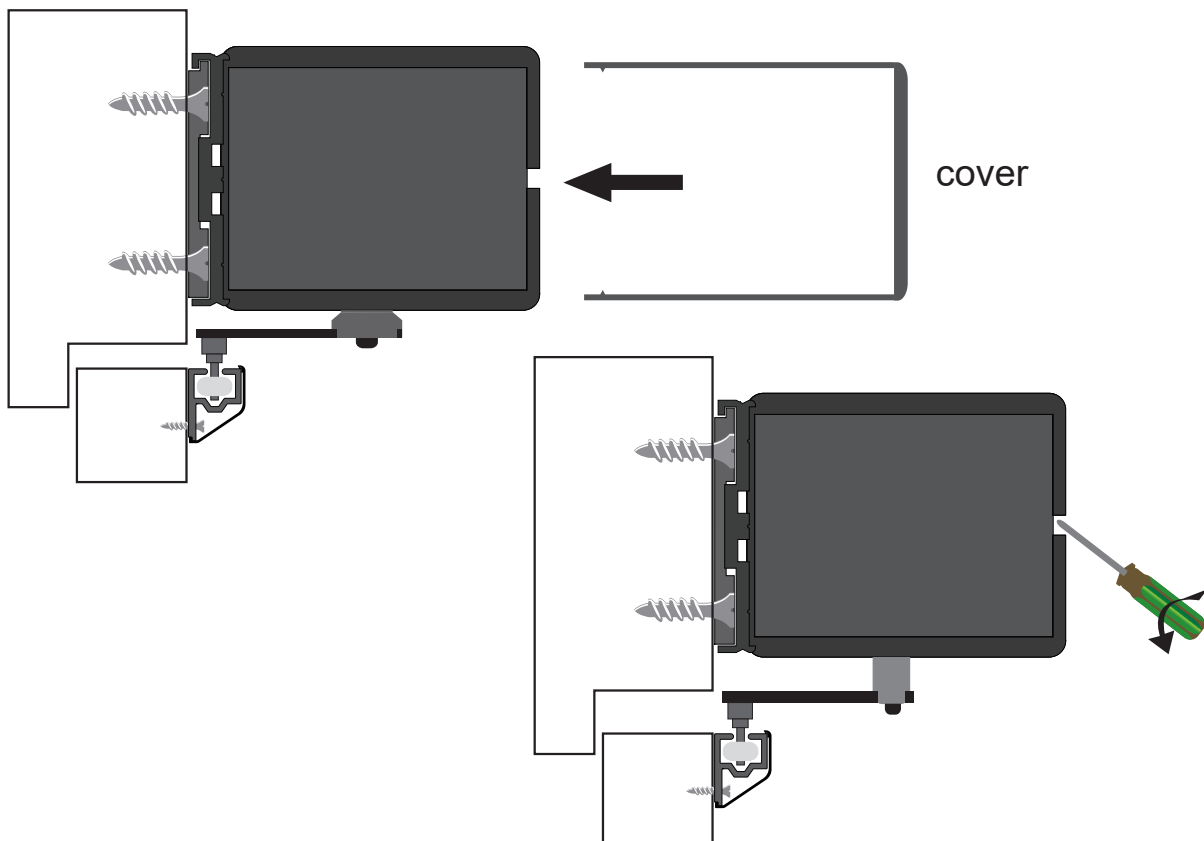
5. Installation step

5.7 Mechanism installation



Hang the mechanism on the fixed base cover with screws.

Assemble and disassemble of the mechanism up cover



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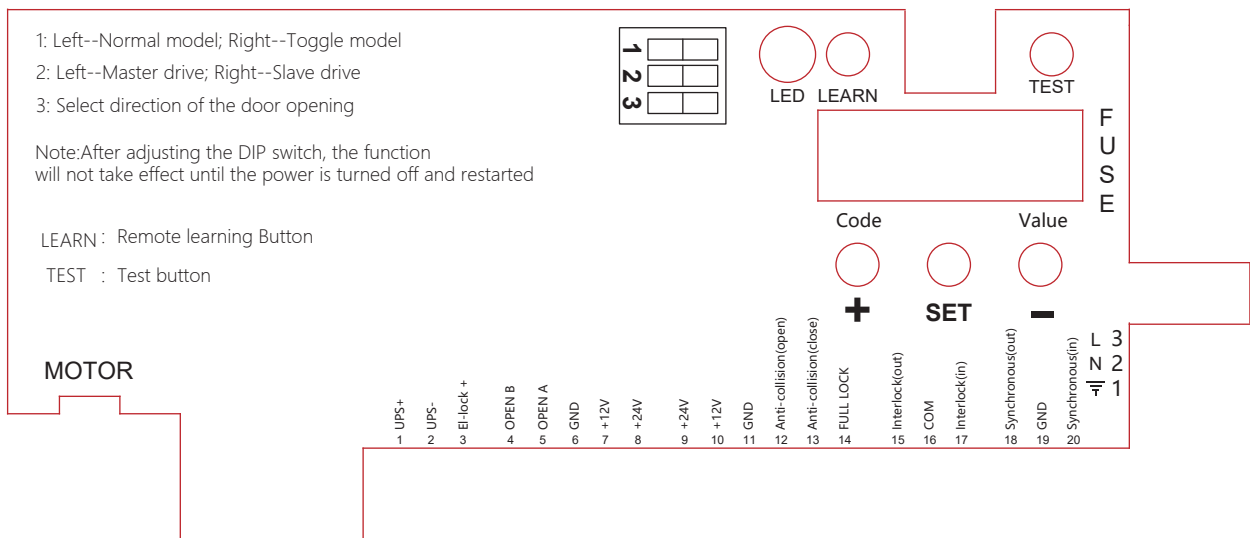


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6.Wire diagram

Terminal details



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 opens slowly and then closes slowly, 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

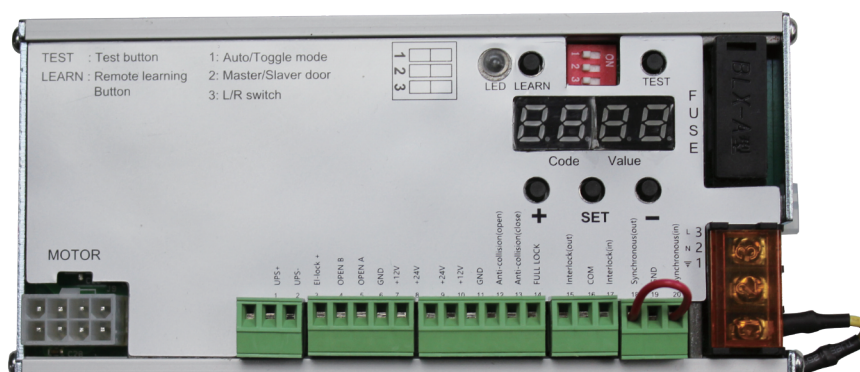
Learn: Learning wireless accessories(remotes or wireless push button); One short press of the button can eliminate the sound of the controller buzzer, and another short press can restore the sound of the controller buzzer

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)



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6.Wire diagram

Inter-lock

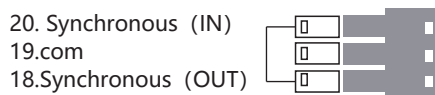


Synchronous



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 sesnor



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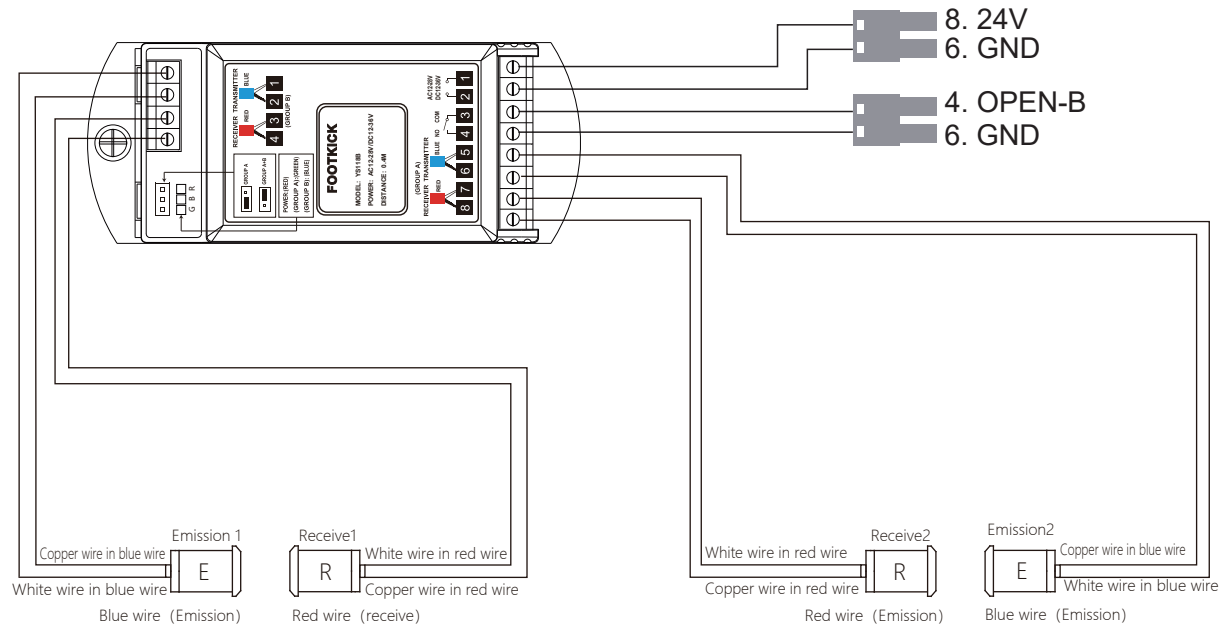
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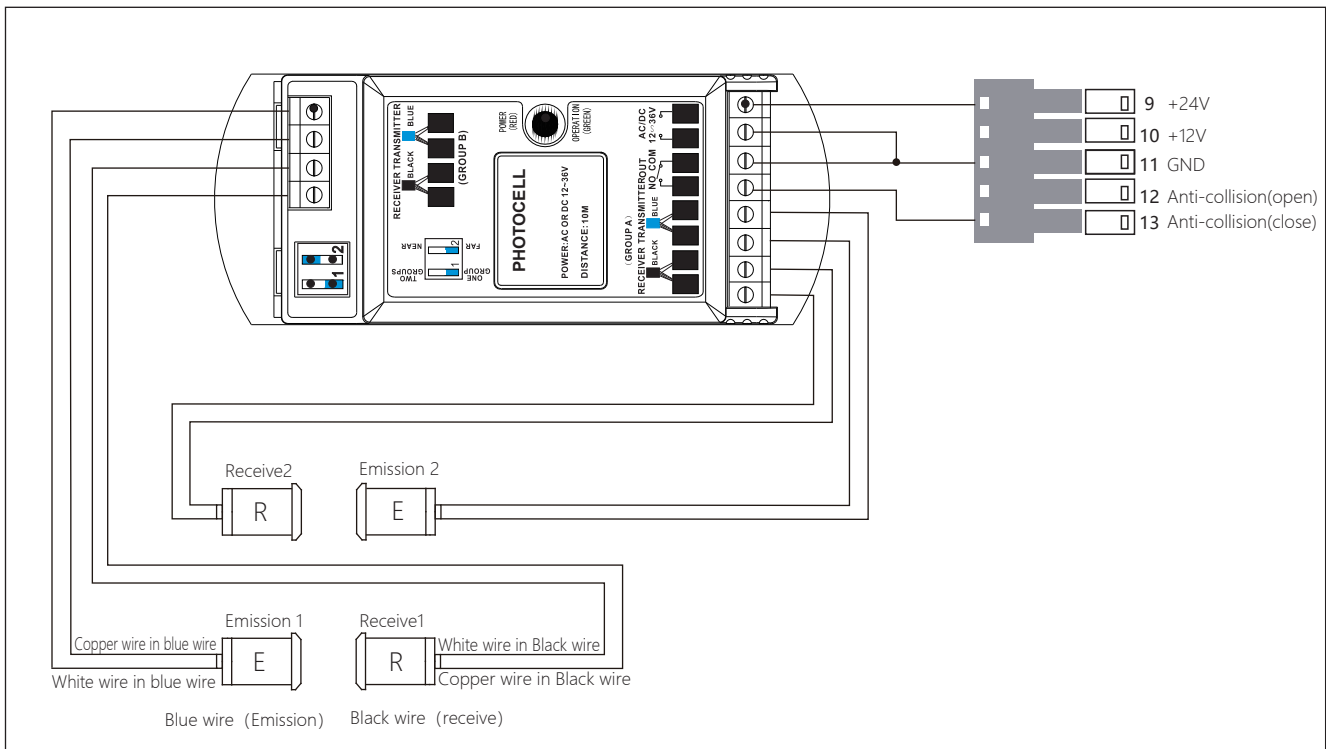
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6.Wire diagram



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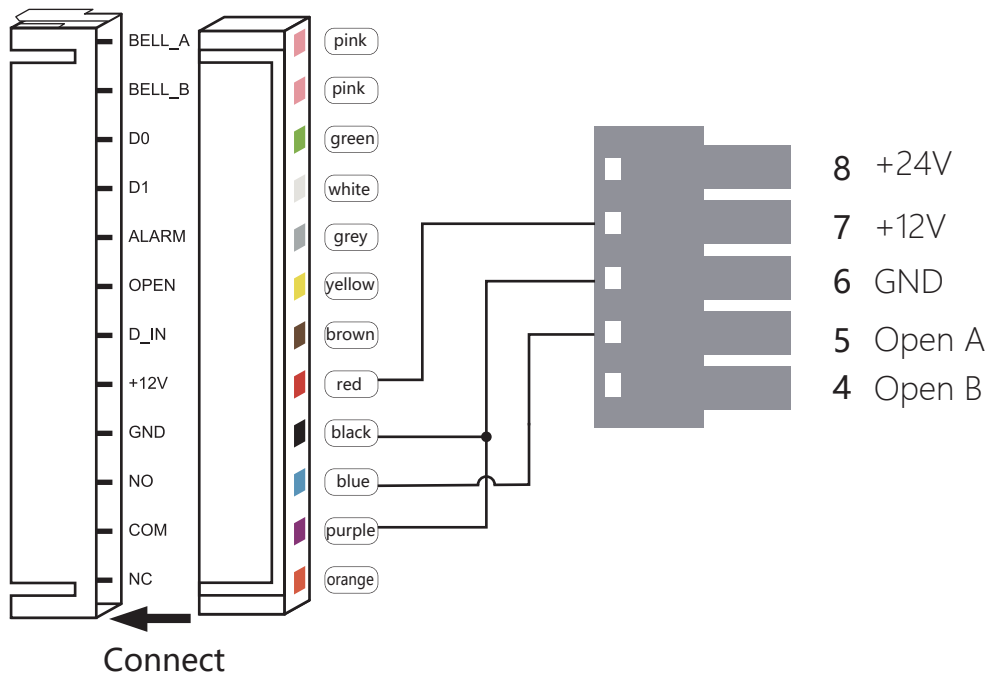


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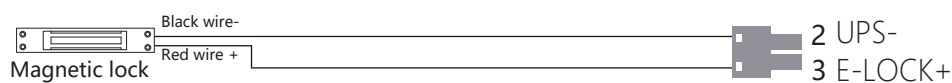
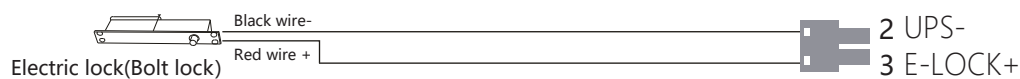


6.Wire diagram

Access keypad



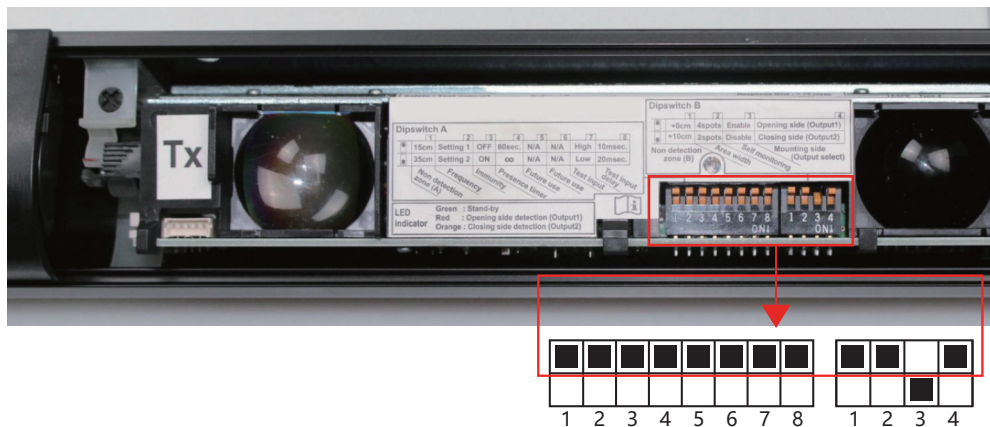
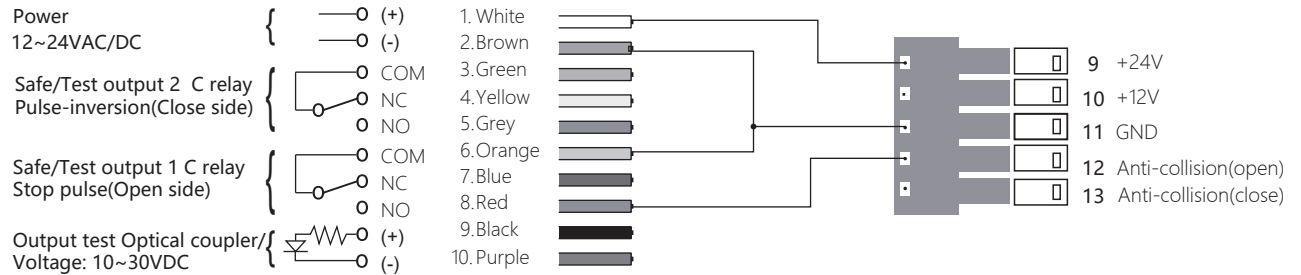
E-lock and Magnetic lock



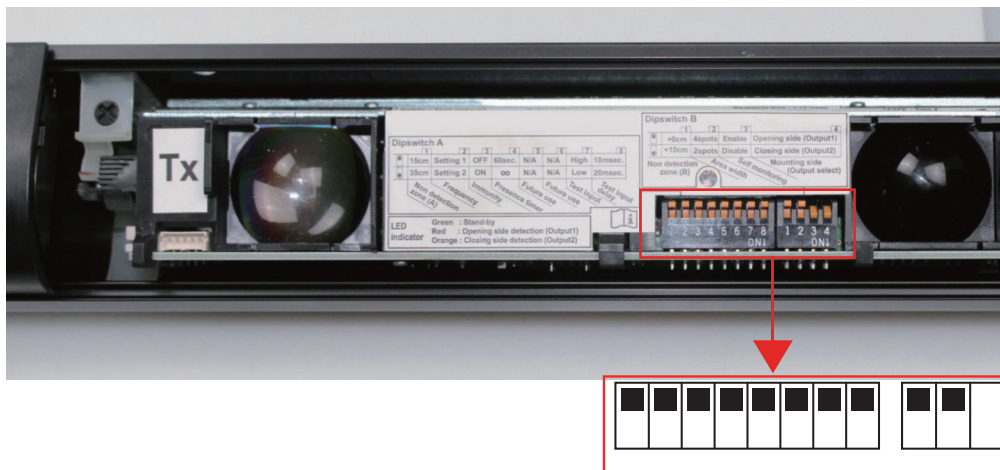
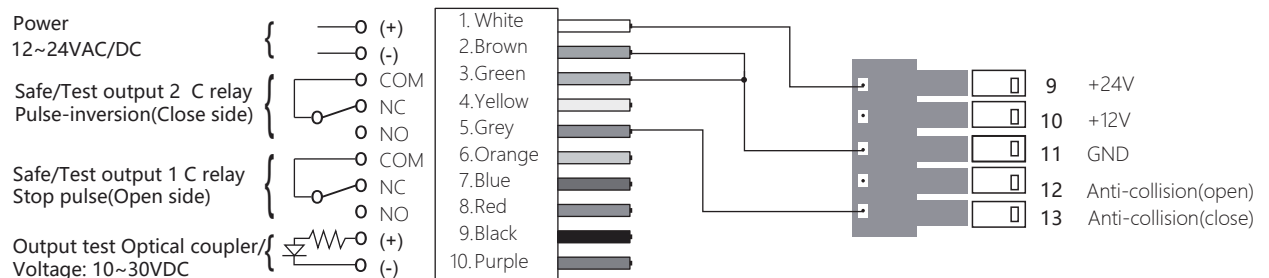
6.Wire diagram

Anti-collision of top scan

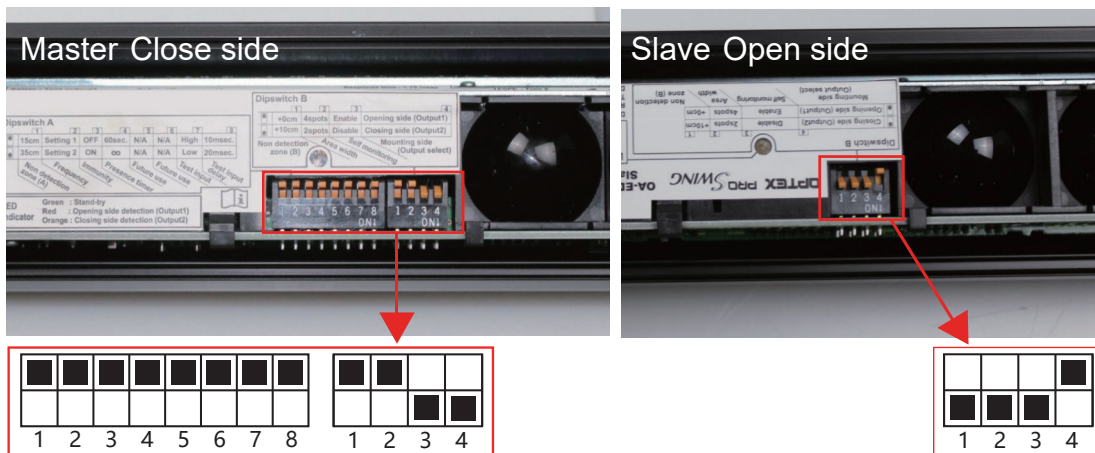
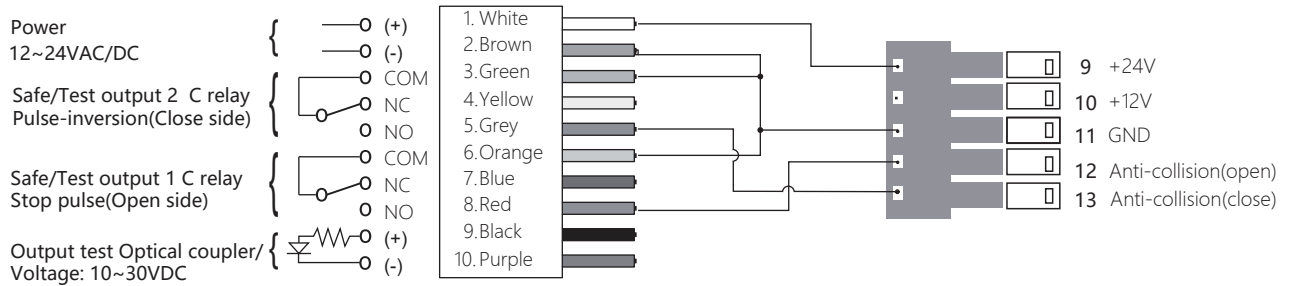
Anti-collision(Open)



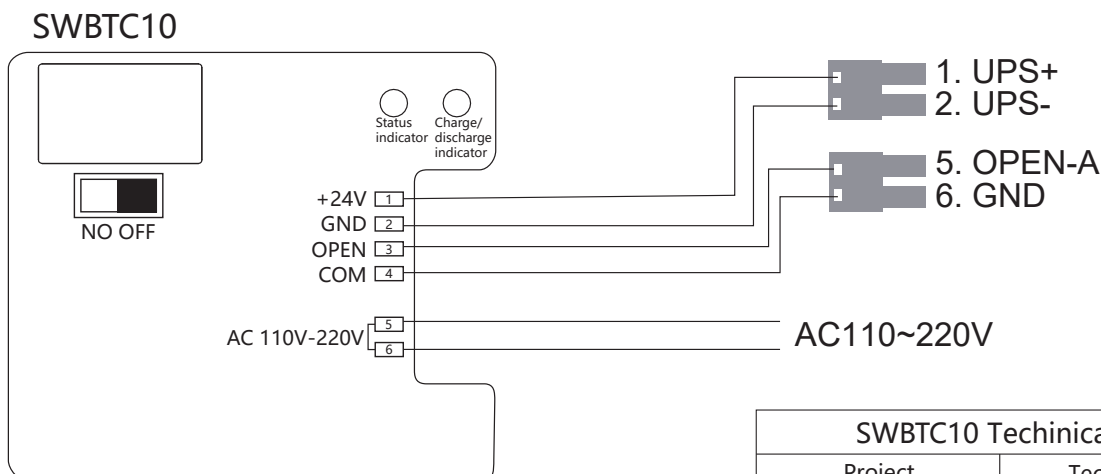
Anti-collision(Close)



6.Wire diagram



Backup battery



SWBTC10 Technical data

Project	Technical data
Input voltage range	AC100-240V
Output power	DC24V、6A
Battery capacity	2000 mAh
working times	800times
Standby time	Bare machine 14h



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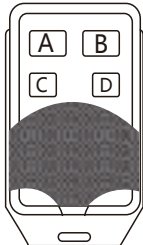


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6.Wire diagram

Operation of Function remote



- 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)

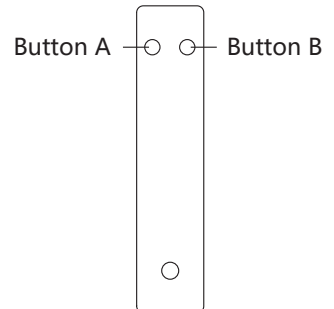
Wirless push button learing and delete mothds same as remotes

Type A



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)



- 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: Wirless 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, accessories should connect to both controller (parallel connection)



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7.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 openning angle setting 00: off 01: on
20	30-120	00	Door openning 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 openning to the setting angle, the singal for shielding the anti-collision will work and open the door slowly
23	0,1	00	The openning angle setting for the arm:00:pull arm 01:push arm



8.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 prote on for controller.
Er02	Motor has problem.

Double opening

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



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9. 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 something 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



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