



**Mercurio**

**Manual**

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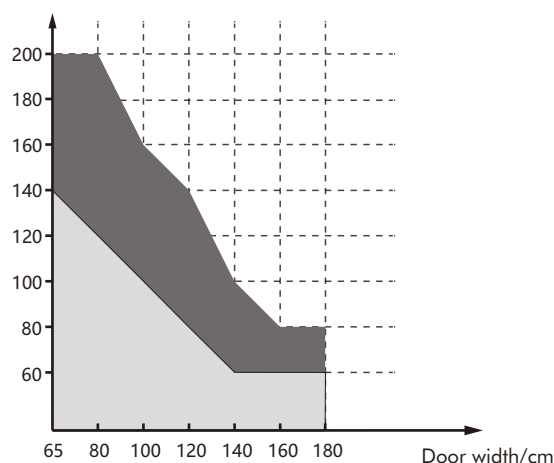
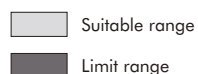
### New Swing Operator:

Normally automatic swing door has simple structure but its attractive design is equally suitable for different places. Automatic swing operator is beautiful and secure at the same time! Swing doors needs minimal space while maximizing opening width. This model is suitable for wooden door, metal door, frame door opens to one direction (both single and double open) special glass clamp is required for glass door installation. Door could be open and close easily in case of power failure. High quality in performance, long life and quit running are the unique points of this model. All components and control system are housed in a nice, simple and sleekly designed cover and it is simple to use for everybody like children, handicap and old people regardless of their age and physical ability.

Swing Door Operator includes: Opener, 1 arm.

| Technical Data                        | Mercurio                                     |
|---------------------------------------|----------------------------------------------|
| Speed/opening time/open degree/ close | Adjustable                                   |
| Door width                            | 1800 ≥mm                                     |
| Door weight                           | 180 ≥kgs                                     |
| Open degree                           | 60-115 adjustable                            |
| Voltage                               | AC220V / 110 V, Input 220 V AC, Output 24 DC |
| Service life test                     | 2000000                                      |
| Power                                 | 55W                                          |
| Weight                                | 8kg                                          |
| Working temperature                   | -20°C ~ +50°C                                |

| Technical Data   | Mercurio                 |
|------------------|--------------------------|
| Input voltage    | AC 100V / 220 V Optional |
| Output voltage   | 24V DC (±10%), 3A        |
| Open degree      | Max 115°                 |
| Open speed       | 45°/S                    |
| Close speed      | 45°/S                    |
| Opening time     | 0-60 s (adjustable)      |
| Protection Class | IP 21                    |
| Size             | 515*80*115mm(LWH)        |



Tip Data: is record under Zero wind pressure  
 Door leaf over weight is not allowed, Service life will getting short because of it

### Features and benefits of swing door systems:

- Space-saving construction
- Easy convenient access for people with physical impairments
- Smooth operation
- Flexible assembly
- Attractive design
- Suitable for universal use
- Choice of swing doors operators to meet your needs
- External or hidden door hinges
- Silent opening and closing
- Contactless opening
- Energy efficient building access
- Retrofitting possible without any problems

### Note:

- The door leaves must not be heavier than the allowed weight.
- Installation of automatic door must be done by professional experts, please do not do it if you don't have enough experience in this case.

### Introduction of product

Application: suitable for wooden door, metal door, frame door open to one direction

Glass clamp is request for glass door installation)

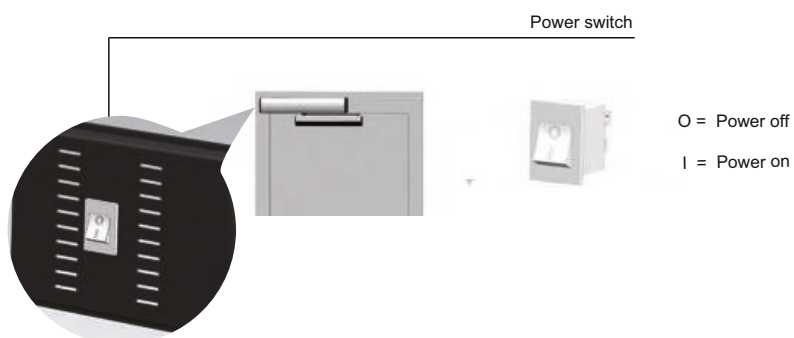
Speed/opening time/open degree/close force adjustable

### Swing Door Operator

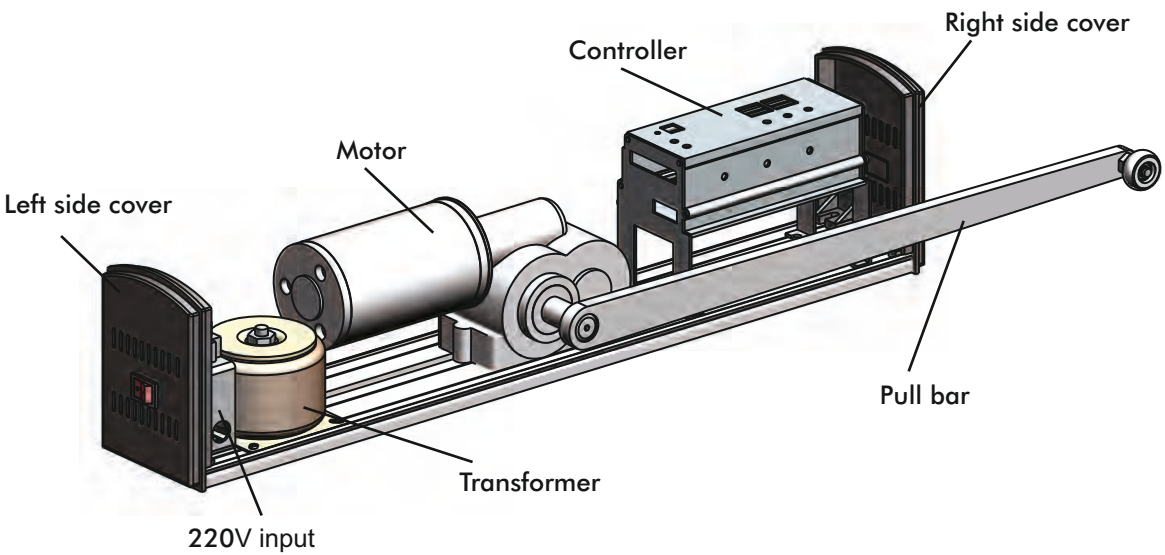
Design for Barrier-Free Accessibility, Convenient for disabled and children.

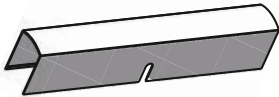
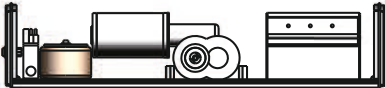


### Operation



Components

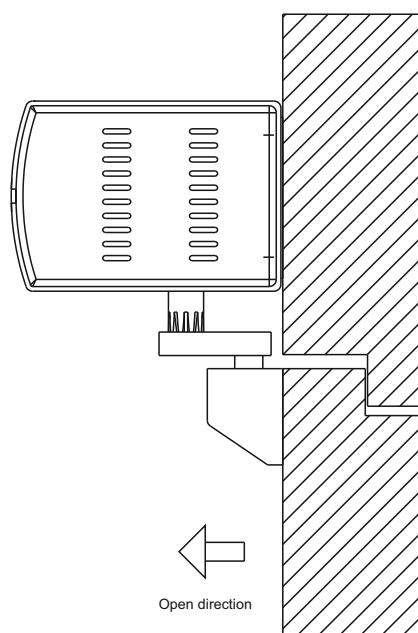
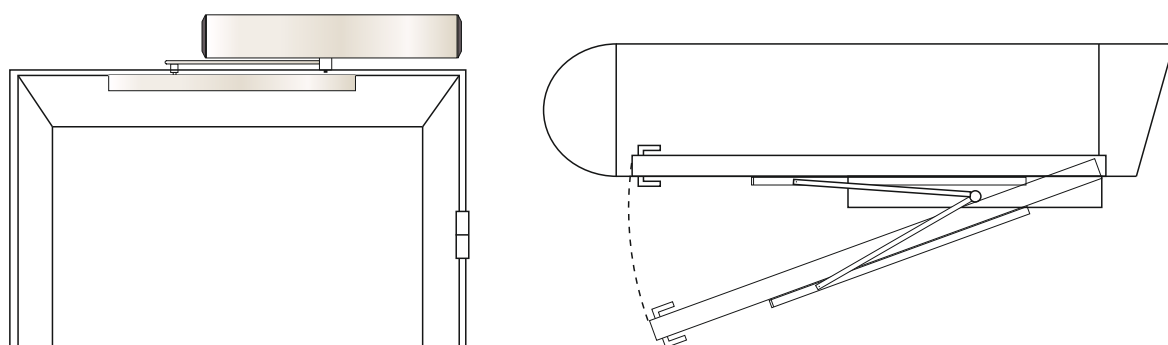


|                                                                                     |              |
|-------------------------------------------------------------------------------------|--------------|
|  | Bottom plate |
|  | Pull bar     |
|  | Cover        |
|  | Pull guider  |
|  | Operator     |

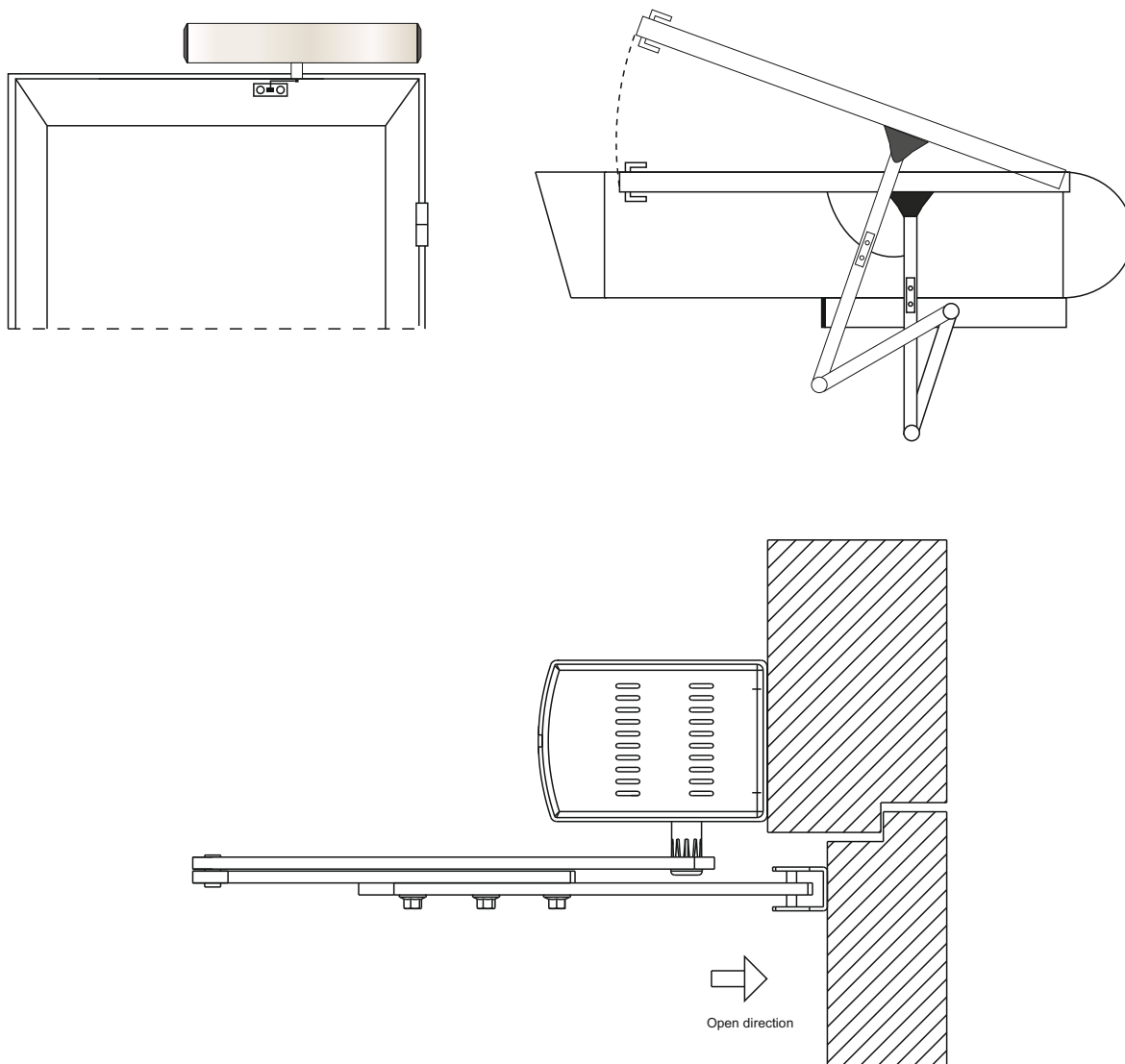
## Mechanical installation

Installation

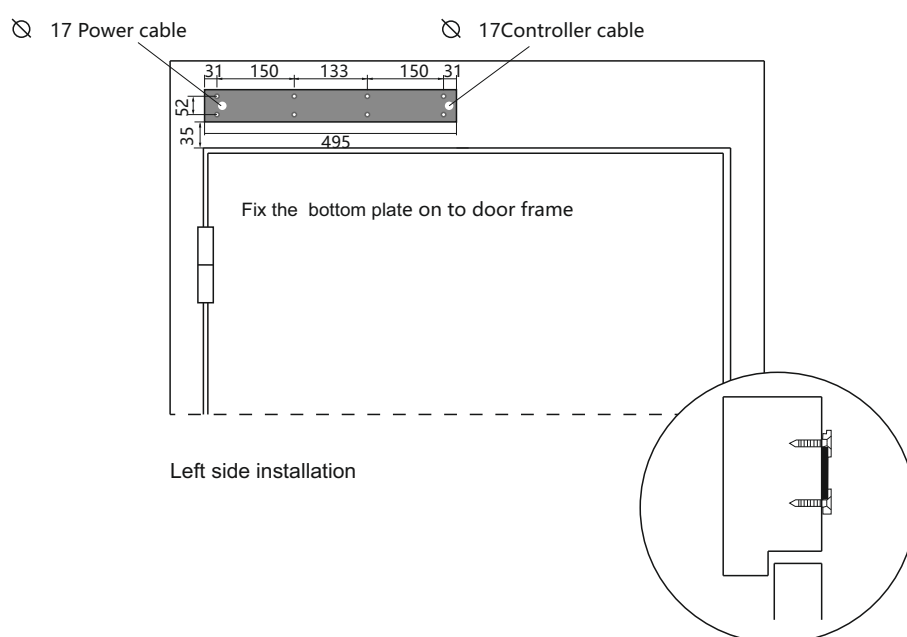
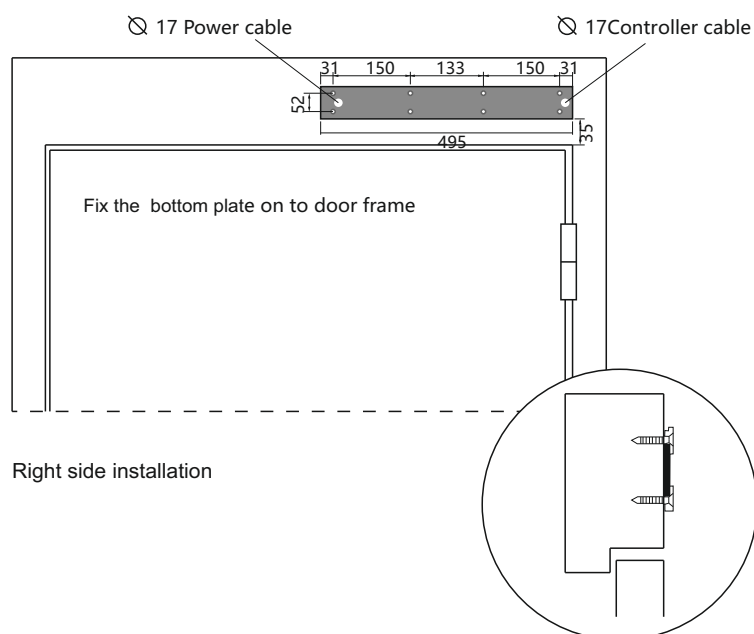
Pull bar type-Open to inside ( Swing Door Operator Inside)



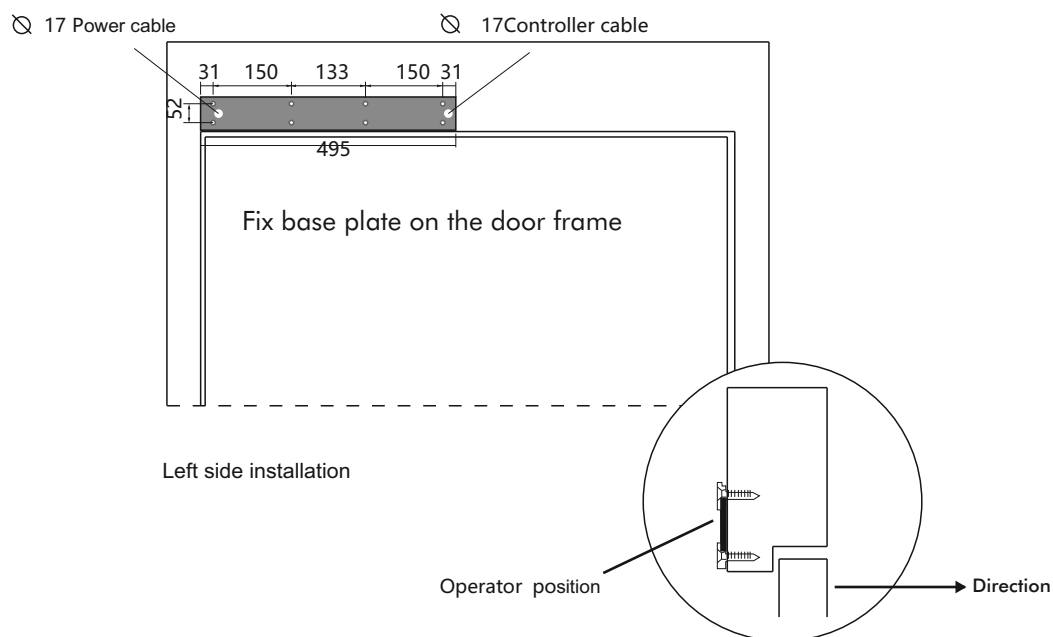
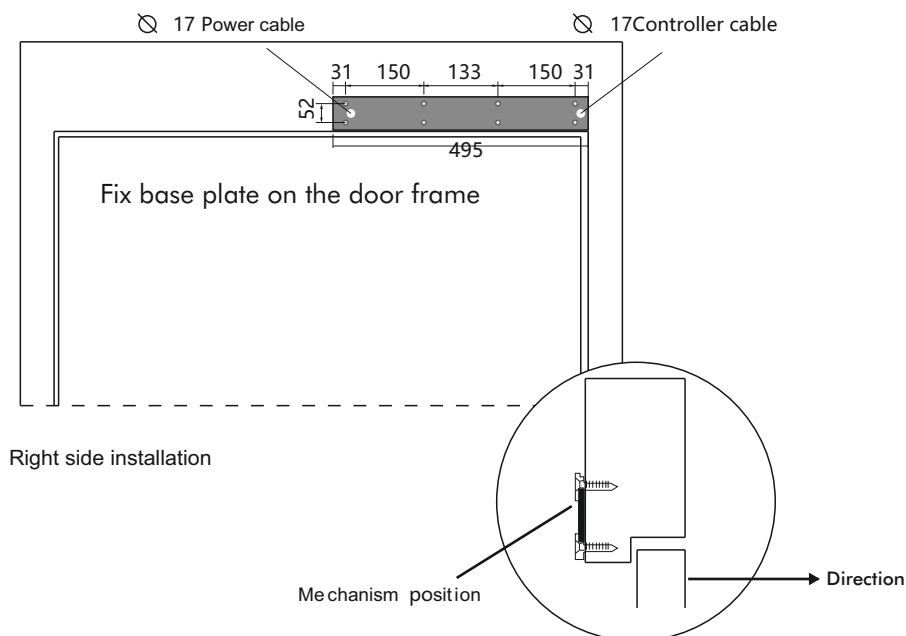
Push bar type-Open to outside ( Swing Door Operator Inside)



Installation of Base Plate  
Installation of Pull Base Plate

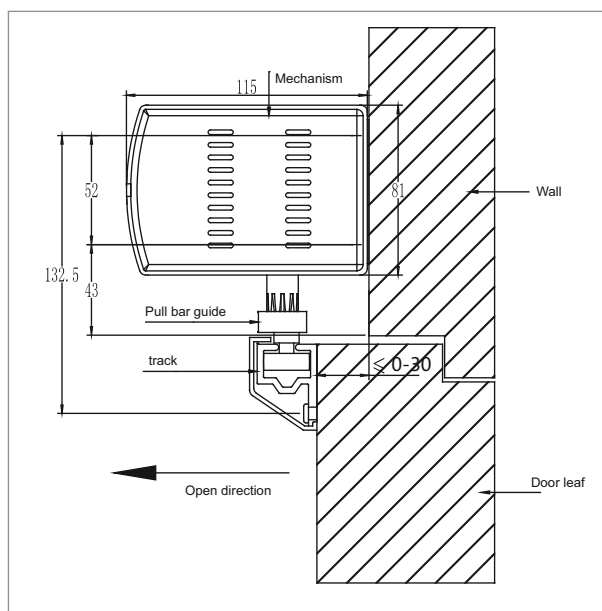


## Installation of Base Plate Installation of Push Base Plate

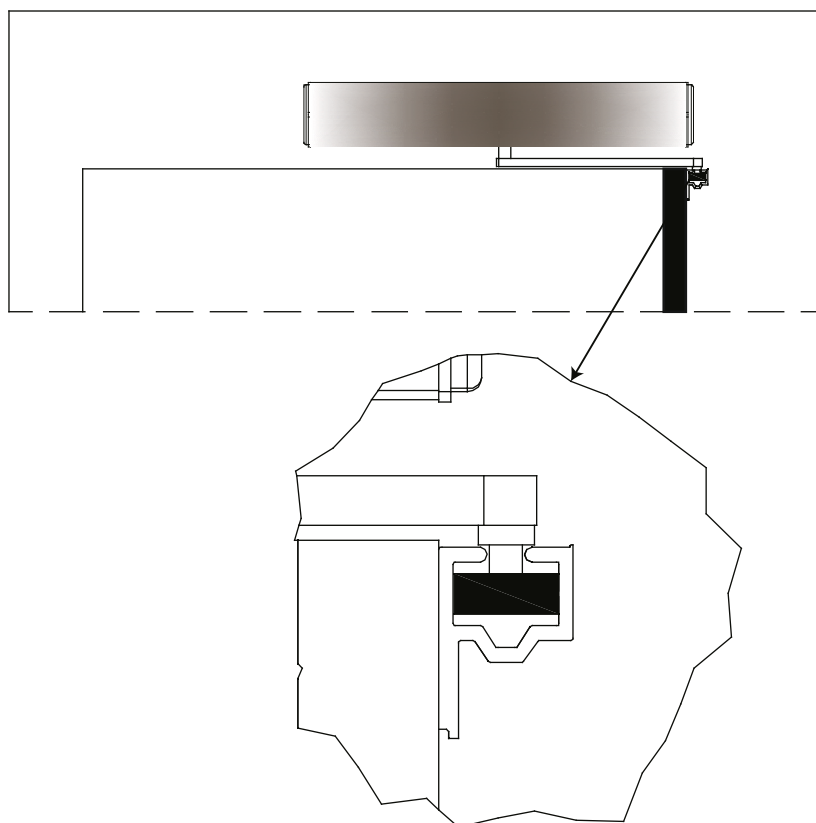


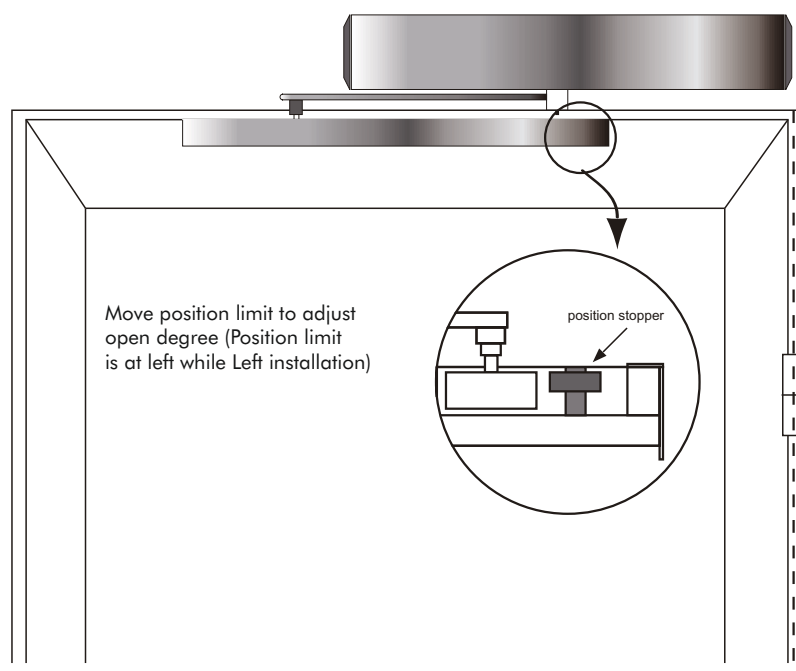
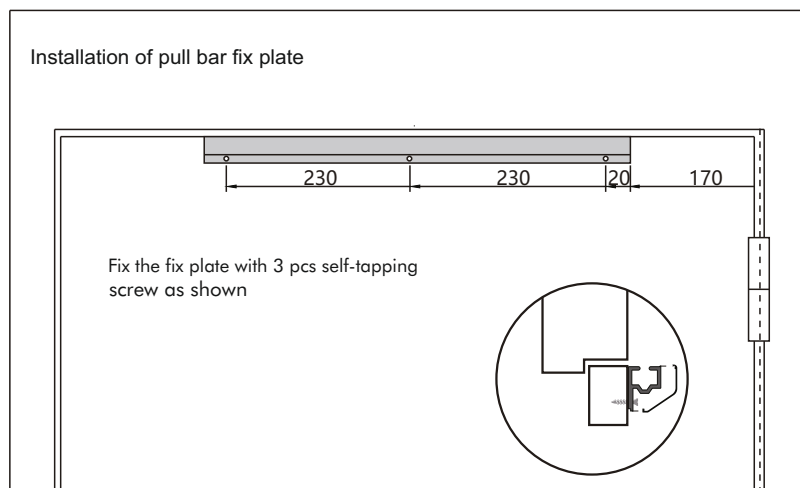
Tip: Push bar installation, Mechanism and open direction is same  
Pull bar installation, Mechanism and open direction is opposite.

## Installation of pull bar



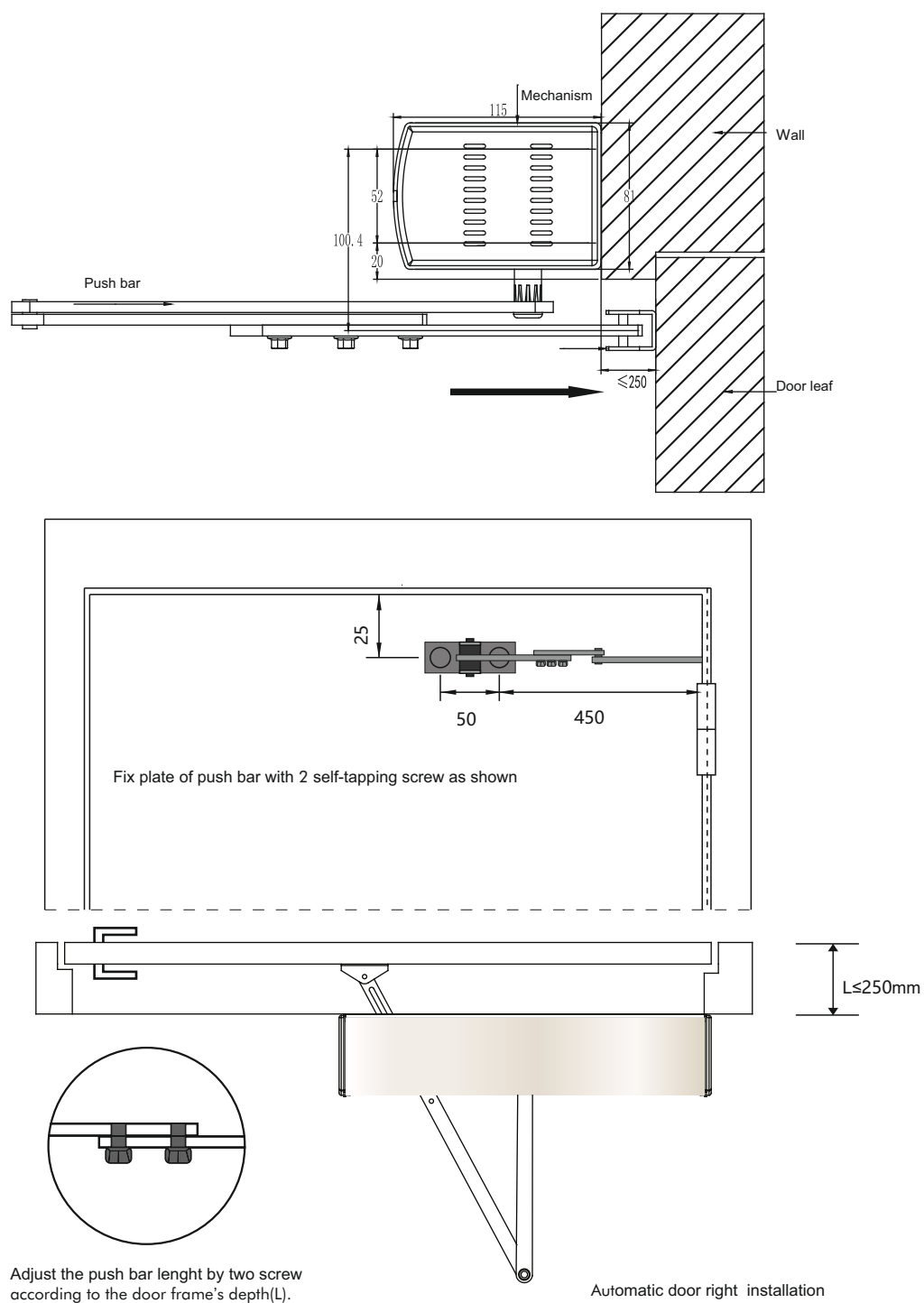
1. Open the door to 90°, slide the pull guide roller into track.
2. Fix the Pull bar plate as shown.
3. Move the plate ensure the wheel at the middle position of track as shown.
4. Hold the plate position, fix the first screw near Center of the shaft.
5. Close the door, repeat step 3, fix another screw 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.



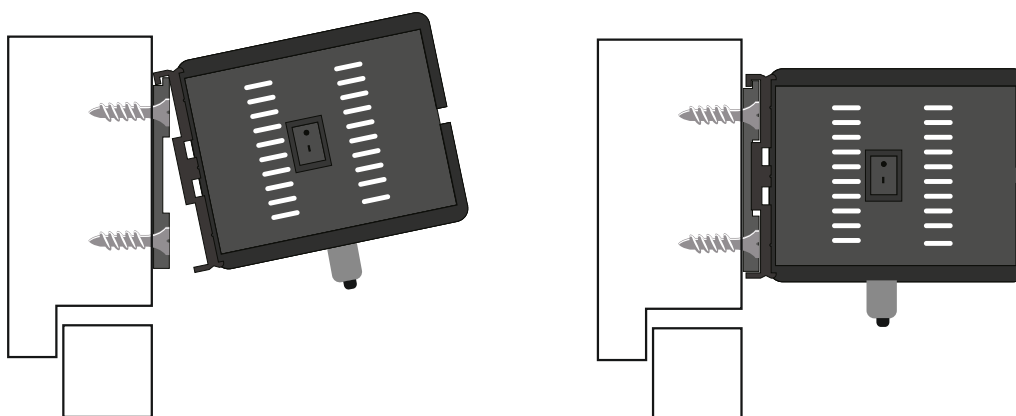


Automatic door right installation

## Installation of push bar

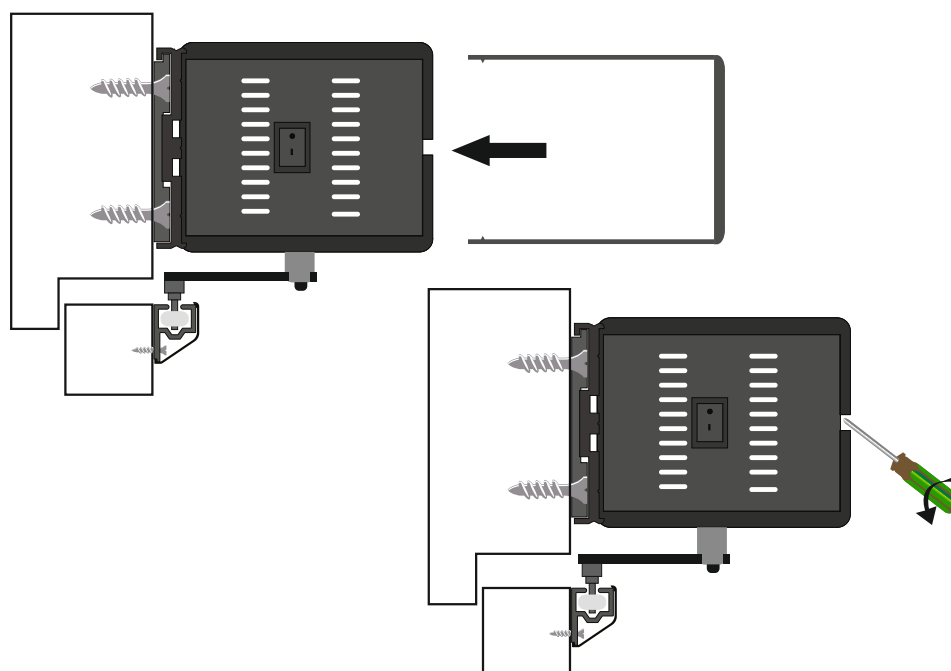


## Operator installation



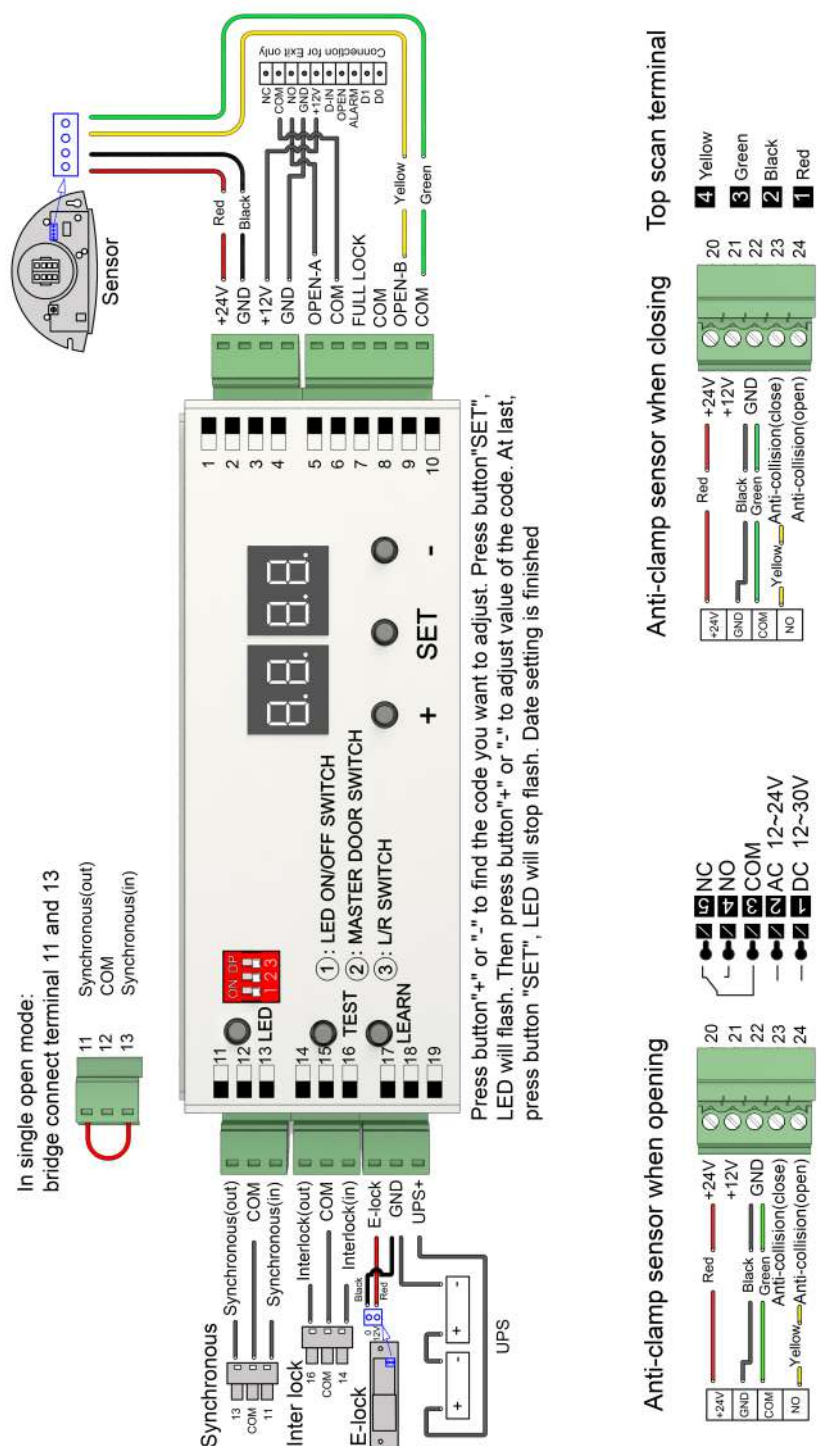
Hang the Operator on the fixed base cover with screws.

## Assemble and disassemble of the Operator up cover

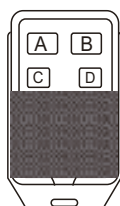


## Wiring diagram

## Terminal details



## Operation of remote control



### YS301-C:

- |                                   |                     |
|-----------------------------------|---------------------|
| <b>A:</b> Always open             | <b>B:</b> Automatic |
| <b>C:</b> Open and close one time | <b>D:</b> Full lock |

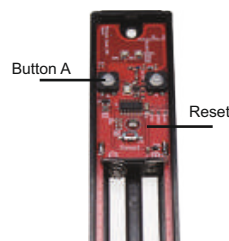
#### Add remote:

1. Keep pressing the learning button LEARN, release the button until LED become red, then press any button on remote, remote will be 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 until LED become red, remote will be 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 delete remote memory).

A type



B type(optional)



Please check the DIP switch if it's same as the image shown (during setting process)

#### 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 seconds, then flash again
  5. Release Reset button and A button, Setting is done
- Importance: the "Reset" button keeps pressed till the whole setting finishes.

1. Receiver has been built-in.

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 connected refer to manual. Power on, Ensure the setting on both controller is same. If speed is different during operating, please slightly adjust open /close speed, open/close braking speed, opening time.

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

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

## Data setting

| Code | Setting range | Default | Description                                                                                                                                                                   |
|------|---------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01   | 30-99         | 60      | Opening speed(velocity open)                                                                                                                                                  |
| 02   | 30-99         | 50      | Closing speed(velocity close)                                                                                                                                                 |
| 03   | 1-30          | 10      | Braking opening speed                                                                                                                                                         |
| 04   | 1-30          | 10      | Braking closing speed                                                                                                                                                         |
| 05   | 10-50         | 30      | Braking opening angle                                                                                                                                                         |
| 06   | 10-50         | 30      | Braking closing angle                                                                                                                                                         |
| 07   | 0-60          | 2       | Hold-open time (0.60 s)                                                                                                                                                       |
| 08   | 2...8         | 3       | Starting delay time (1-4 s, 1=0,5 s, when lock function working)                                                                                                              |
| 09   | 0,1,2...8     | 2       | Locking delay time (1-4 s, 1=0,5 s)                                                                                                                                           |
| 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   | 1,2,3,4,5     | 2       | Obstacle detection optimized for exterior(wind loads)                                                                                                                         |
| 13   | 1,2,3,4,5     | 2       | Holding force-closed                                                                                                                                                          |
| 14   | 1,2,3,4,5     | 3       | Anti-collision force                                                                                                                                                          |
| 15   | 5-30          | 15      | Auto-learning speed                                                                                                                                                           |
| 16   | 0,1,2...10    | 4       | Working interval between master and slave door (1-1 s, 1=0,1 s)<br>On master door, the setting is working when closing;<br>On slave door, the setting is working when opening |

## 9.LED display feedback

### Single opening

| LED display  | Details                                                                             |
|--------------|-------------------------------------------------------------------------------------|
|              | 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 setting problem. |

## 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.              |                                                                      | Remove the Obstacle                                              |
|                                                                           | Learning speed is too slow                    |                                                                      | Adjust the learning speed faster                                 |



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