

## AUTOMATIC SWING DOOR

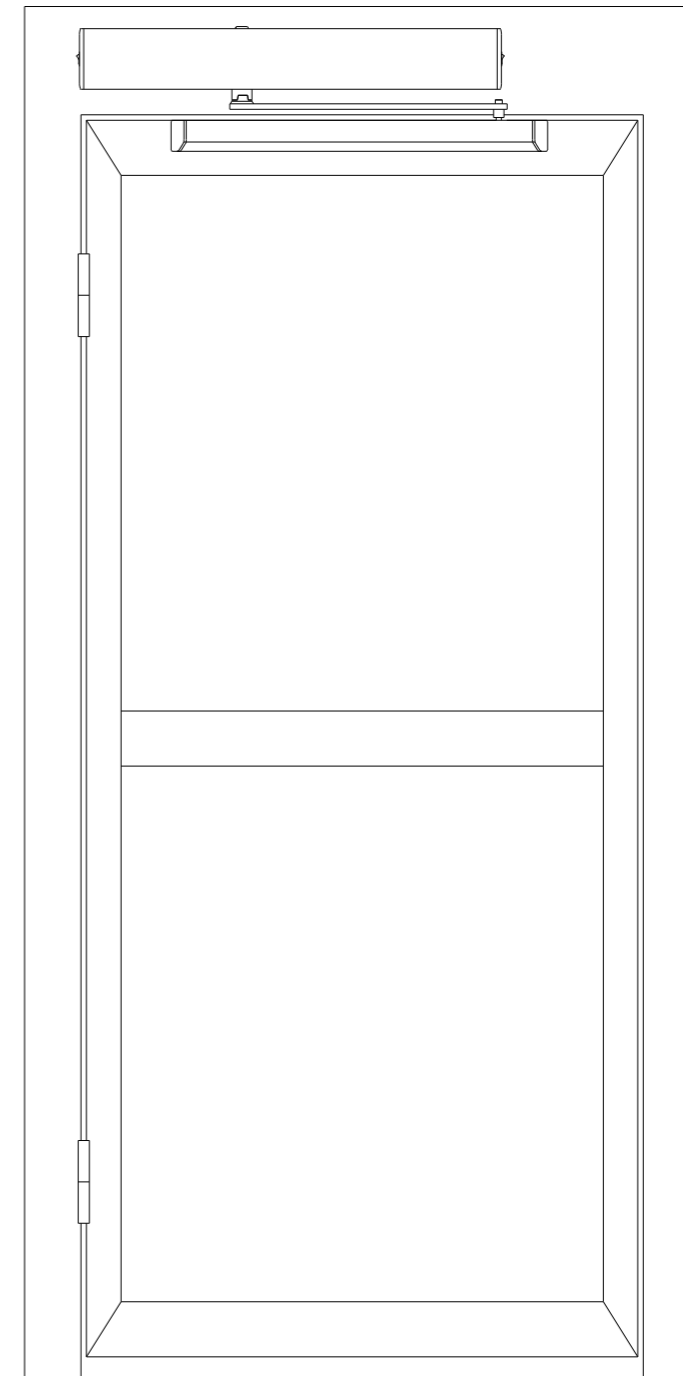
SPRING RETURN

ASW200

***Power open, spring close***

***Hand open, spring close***

***More safe , more stable***



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## Chapter 1 Safety guide

### Warning

#### **Beware of electric shock and fire**

- ★ During installation and adjustment, please follow this manual;
- ★ Don't allow to decompose, transform or repair the components;
- ★ Input supply power AC 220V, make sure the Ground wire is connected;
- ★ Whole process of the installation, the power must be disconnected.

#### **Beware of electric injure and malfunction**

- ★ When the door is under working, don't cut off the power;
- ★ There is person or block in the door, don't turn on the power;
- ★ Power failed, you can open the door by hand, please take care of your finger;
- ★ If open by hand, please make sure the door is running in the right trajectory;
- ★ Don't allow to disassemble the gear box from motor, because the spring fly out may hit you.

*DC 24V output is for sensor ( please don't use other power for the sensor )*

### Note:

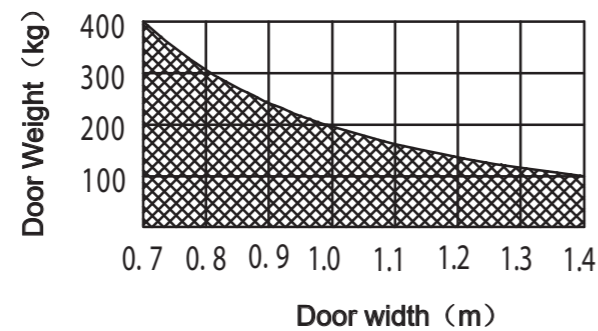
Before installation, please read this manual carefully and fully understand it, then do the installation. ( If you didn't follow this manual, any problem happened will be responsible by yourself.)

## Chapter 2 Technical Data

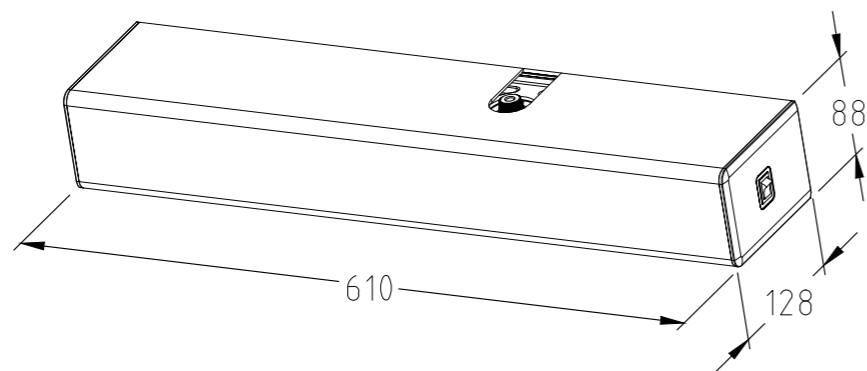
### 1. Technical data

Supply power: 220V AC  $\pm 10\%$ , 50/60Hz  
 Power consumption: 100W (max)  
 Drive unit: 24V DC Motor, spring closer  
 Anti-press device: STD  
 Open angle: 80°-100°  
 Opening time (speed): 3-7Sec. (adjustable)  
 Closing time (speed): 3-7Sec. (adjustable)  
 Hold-open time: 0.5-30Sec. (adjustable)  
 Drive arm: pull arm(inward open) / push arm(outward open)  
 Environment temperature: -20°C-45°C  
 Relative humidity:  $\leq 85\%$

### 2. Door width and weight:

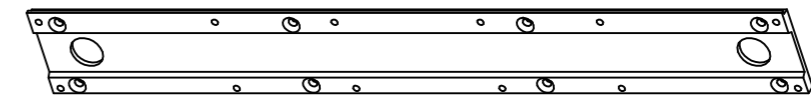


### 3. Product dimension (mm):

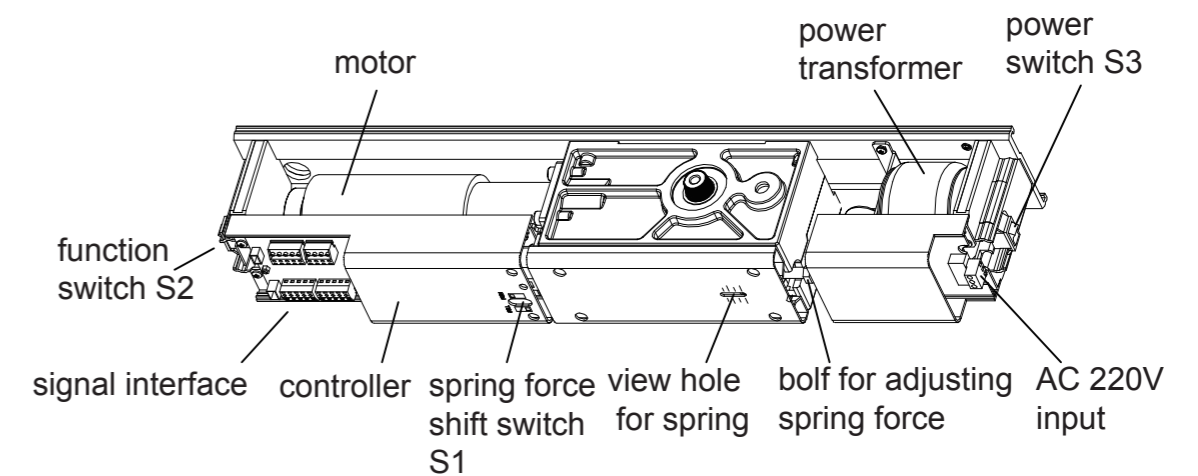


## Chapter 3 Components

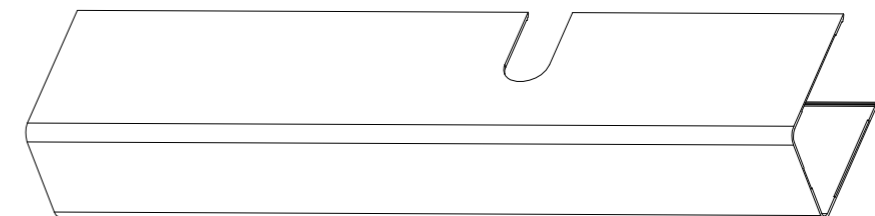
### Description(1)



Base plate



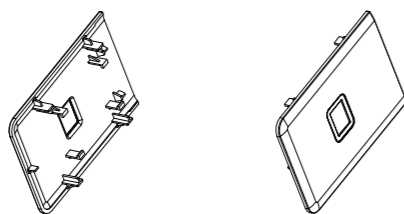
Drive device



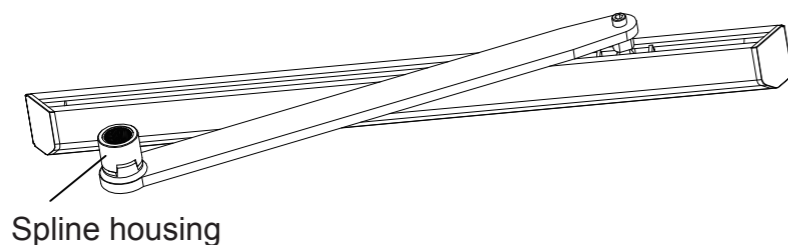
Cover



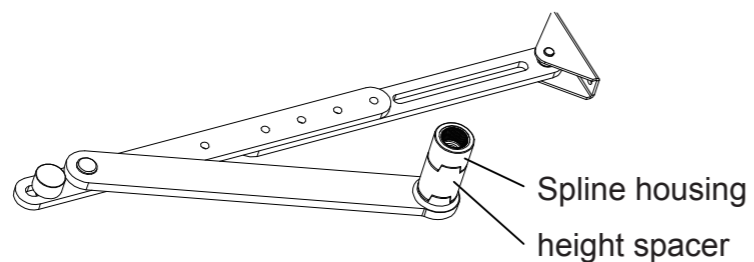
## Description(2)



end caps ( 1 pair )



Pull arm (alternative with push arm)



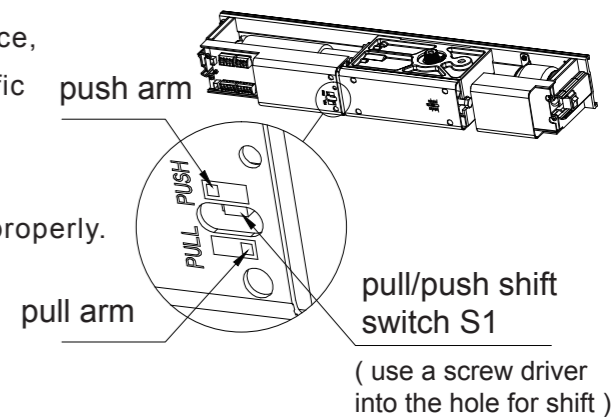
Push arm (alternative with pull arm)

# Chapter 4 Installation

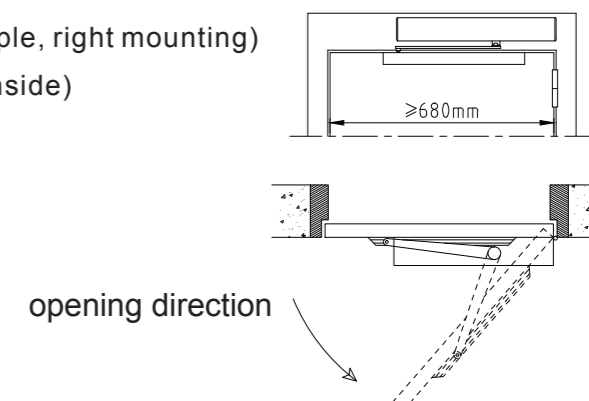
## 1. Set installation mode

Note: Find out the switch S1 on the drive device, choose installation mode according to the specific installation form (pull arm or push arm) (see figure on the right).

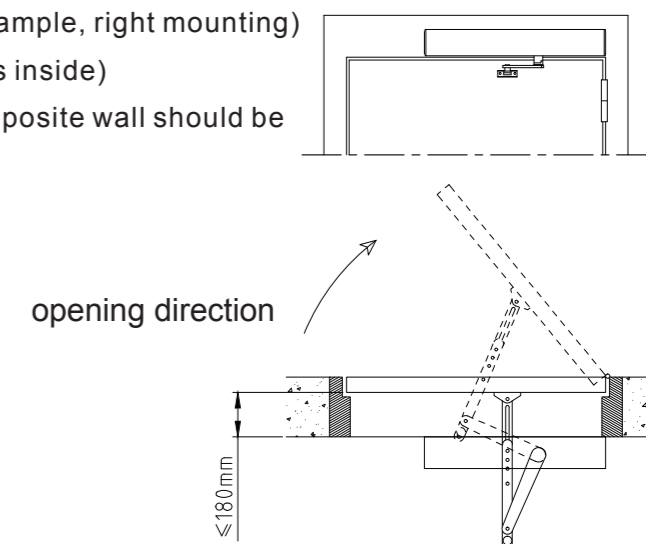
If choose wrong, the drive device can not work properly.  
Factory setting is installation with pull arm.



Application of pull arm mounting (for example, right mounting)  
Suitable for inward open doors (the drive is inside)  
Door leaf width min. 680mm.



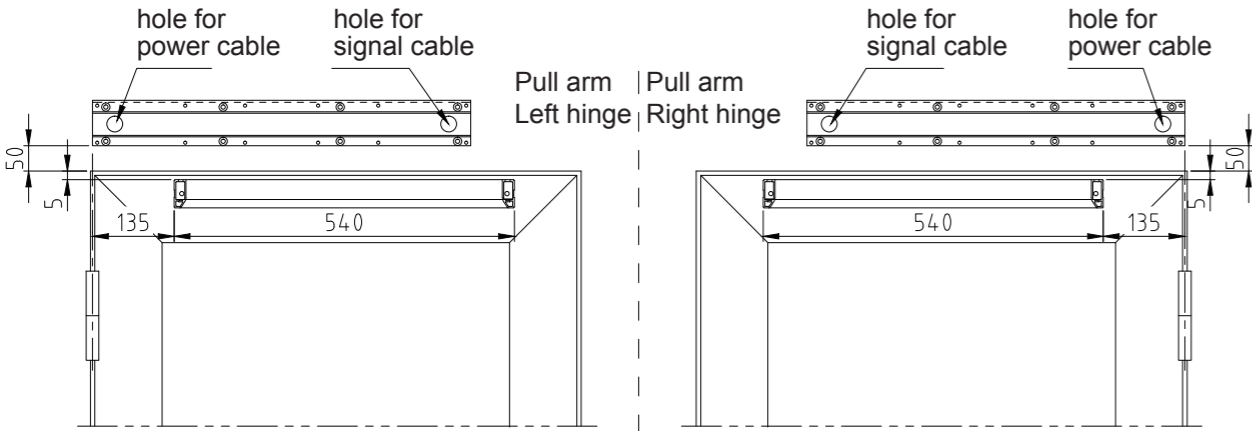
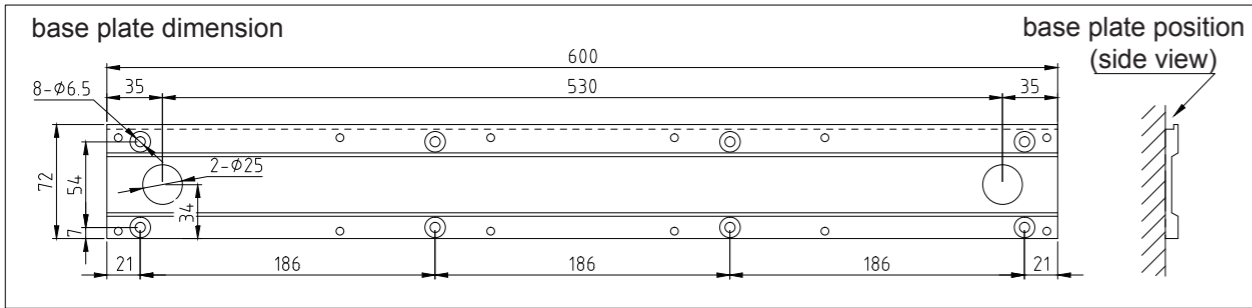
Application of push arm mounting (for example, right mounting)  
Suitable for outward open doors (the drive is inside)  
The depth between the door face and the opposite wall should be less than 180mm.





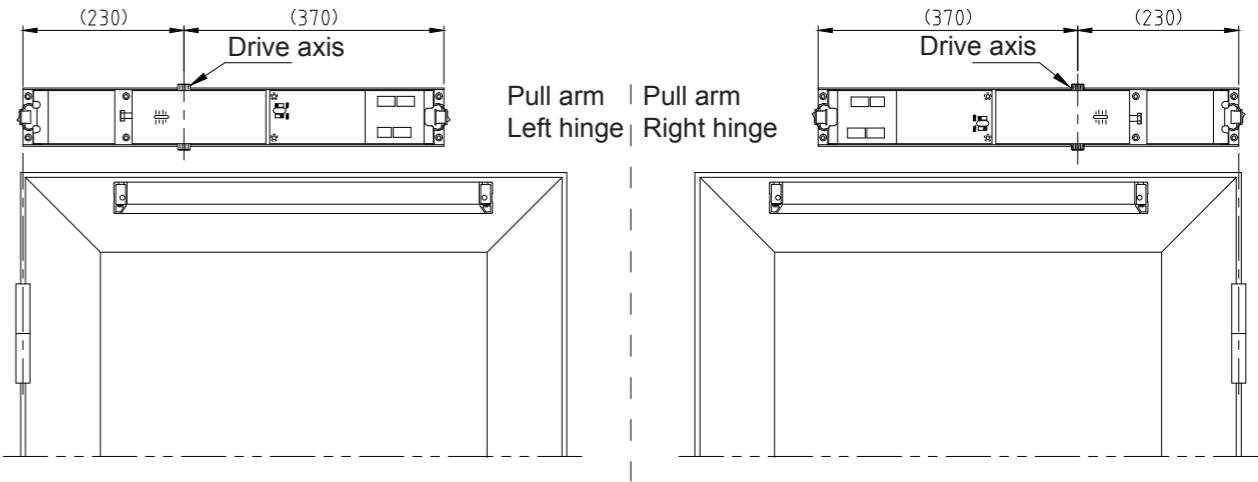
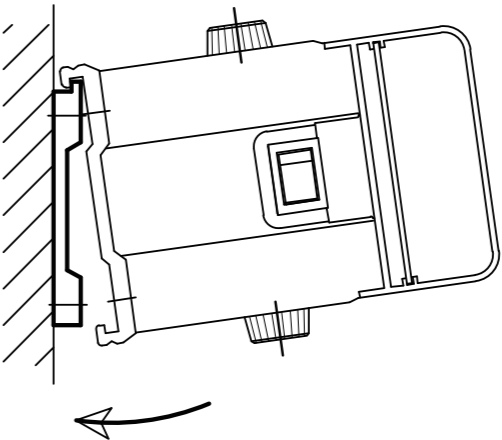
2. Installation with pull arm

1. Base plate and slide rail



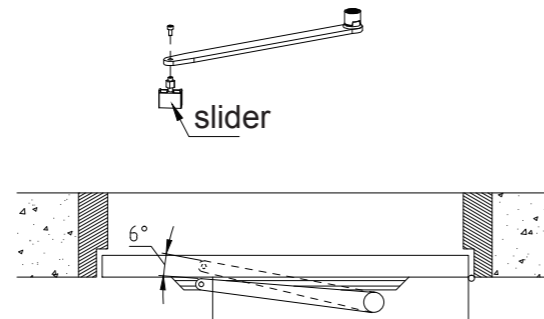
2. Drive device

Hang the drive device onto the base plate and tighten with 8pcs bolts M6x12.



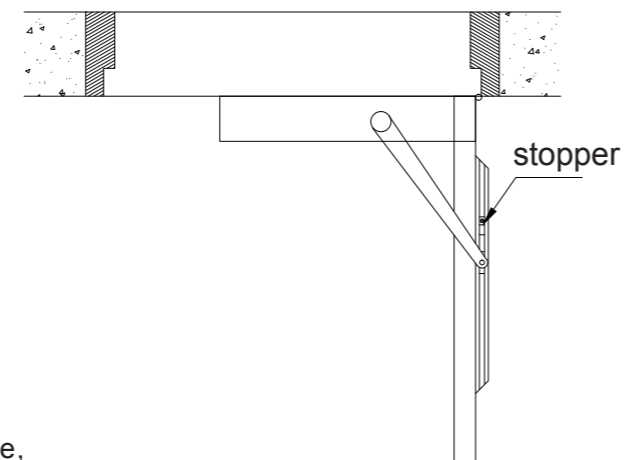
### 3. Install pull arm

Temporarily remove the slider on the pull arm; Take the Right hinge assembly as an example, assemble the pull arm with the shaft of the drive device within the angle of  $6^\circ$  shown in the figure (the pull arm is splined with the shaft, and angle of each tooth is  $6^\circ$ ); Then put the slider back into the slide rail and reinstall it with the pull arm.



The position of the stopper is adjusted according to the actual full opening Angle. The full opening angle should be less than  $100^\circ$ , otherwise the spring reset mechanism in the drive device may not be able to drive the door back to closed.

It can be tested by pushing the door to the max. angle in the state of power failure, try to let it go, and the door leaf should be able to close slowly by itself (if the door is rapidly closing without resistance, indicating that the setting of pull/push arm shift switch S1 is wrong, see P5 "setting of installation mode").

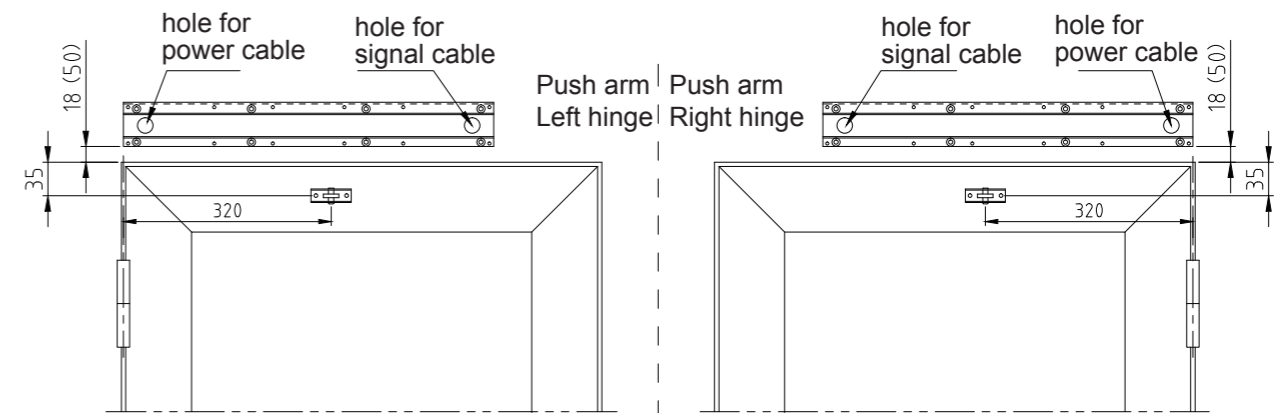


### 3. Installation with push arm

#### 1. Base plate and fixed seat of push arm

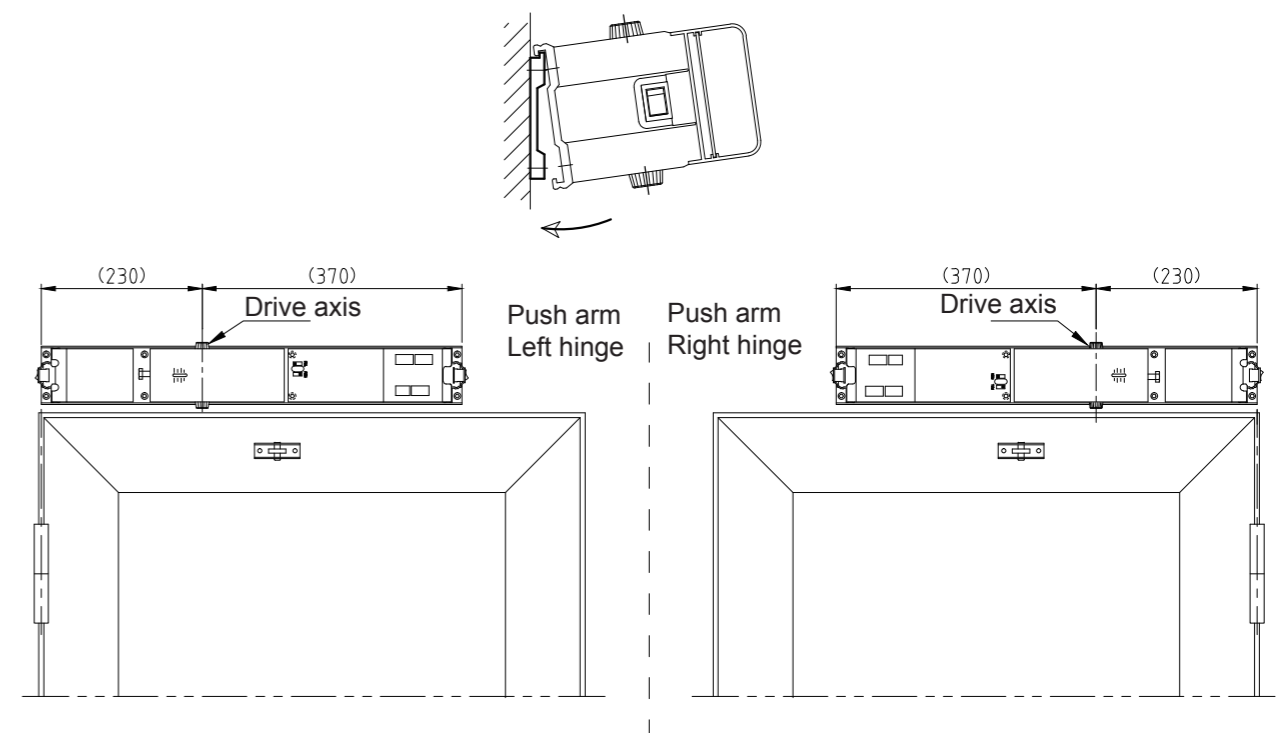
Base plate dimension is on P6 (base plate and slide rail installation)

If the base plate cannot be installed according to the height 18mm, it can be installed according to the height (50), in this case, need 1pc more height block for installation.



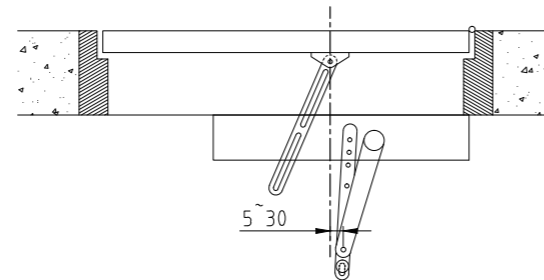
#### 2. Drive device

Hang the drive device onto the base plate and tighten with 8pcs bolts M6x12.

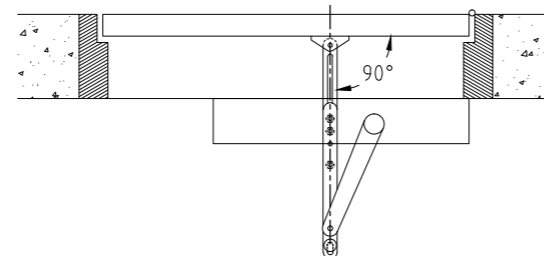


### 3. Install push arm

Take the right mounting as an example, install the push arm to the main shaft of the drive device in the position shown in the figure.

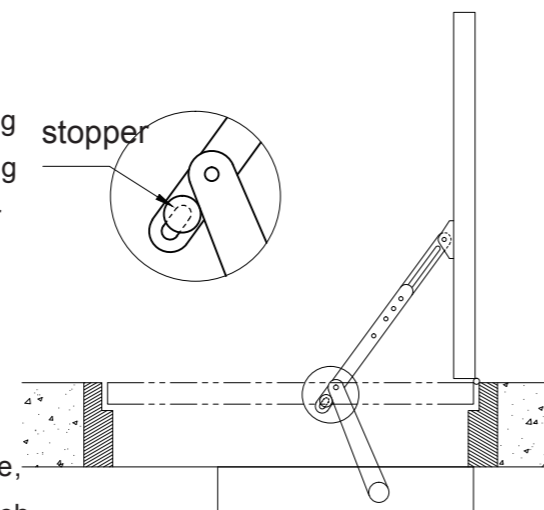


Install the linked arm and adjust the length of it so that it is perpendicular to the door body at the door closed position.



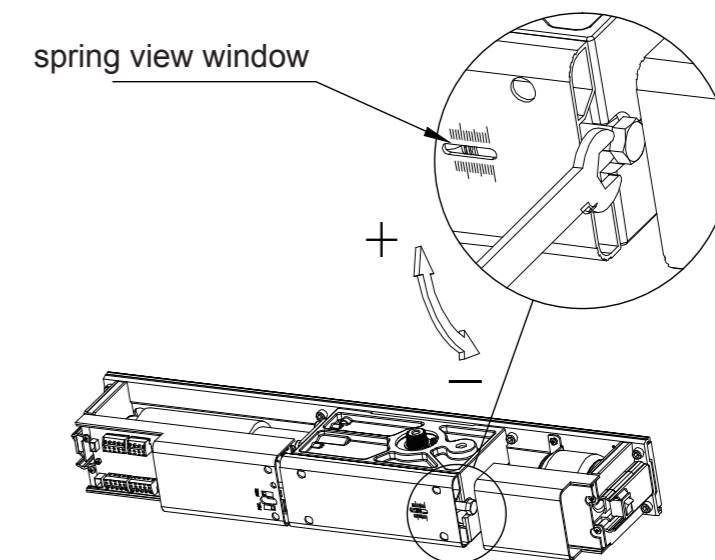
The position of the stopper is adjusted according to the full opening angle of the door. The full opening Angle should be less than 100°, otherwise the spring in the drive device may not be able to drive the door leaf back to close.

It can be tested by pushing the door to the max. angle in the state of power failure, try to let it go, and the door leaf should be able to close slowly by itself (if the door is rapidly closing without resistance, indicating that the setting of pull/push arm shift switch S1 is wrong, see P5 "setting of installation mode").



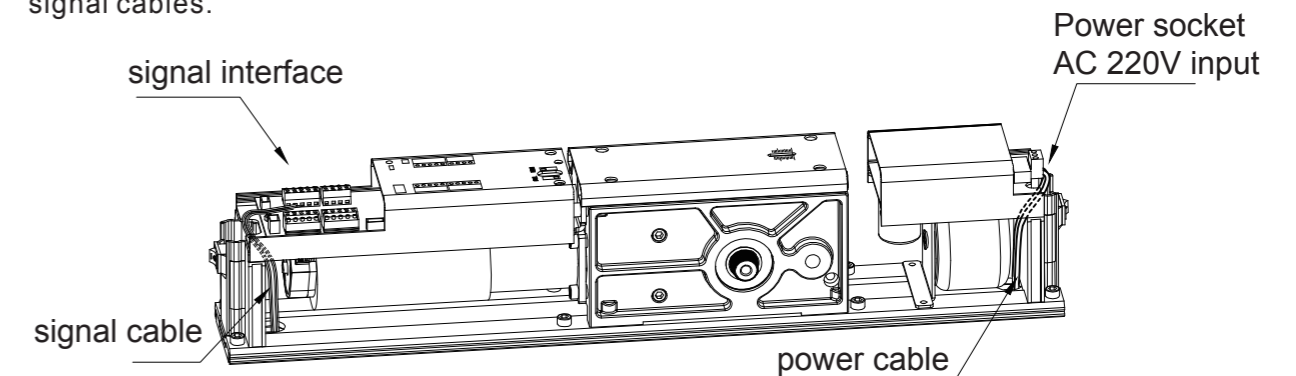
### 4. Adjust the spring force

The preloading force of the spring in the drive device is set to the minimum value by our factory. In the actual installation, the spring force can be increased according to the door weight and resistance, so that the spring can close the door smoothly; But the force should not be too big because if power failed, the door should be open by hand easily.



### 5. Cable connection

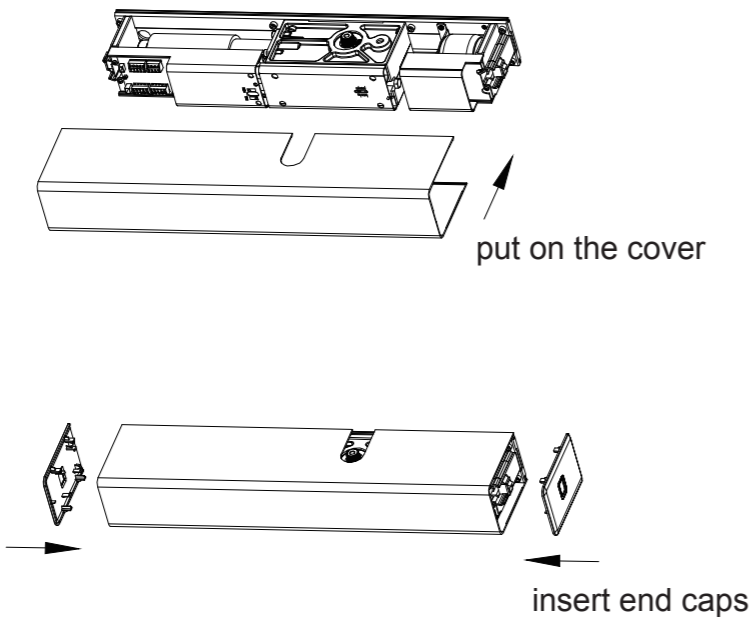
The power cable and signal cable are connected to their respective terminals go through the position shown in the figure. Please refer to P16 "Electronic connection " for the wiring of signal cables.





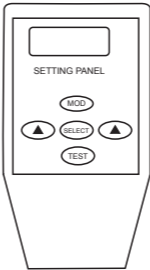
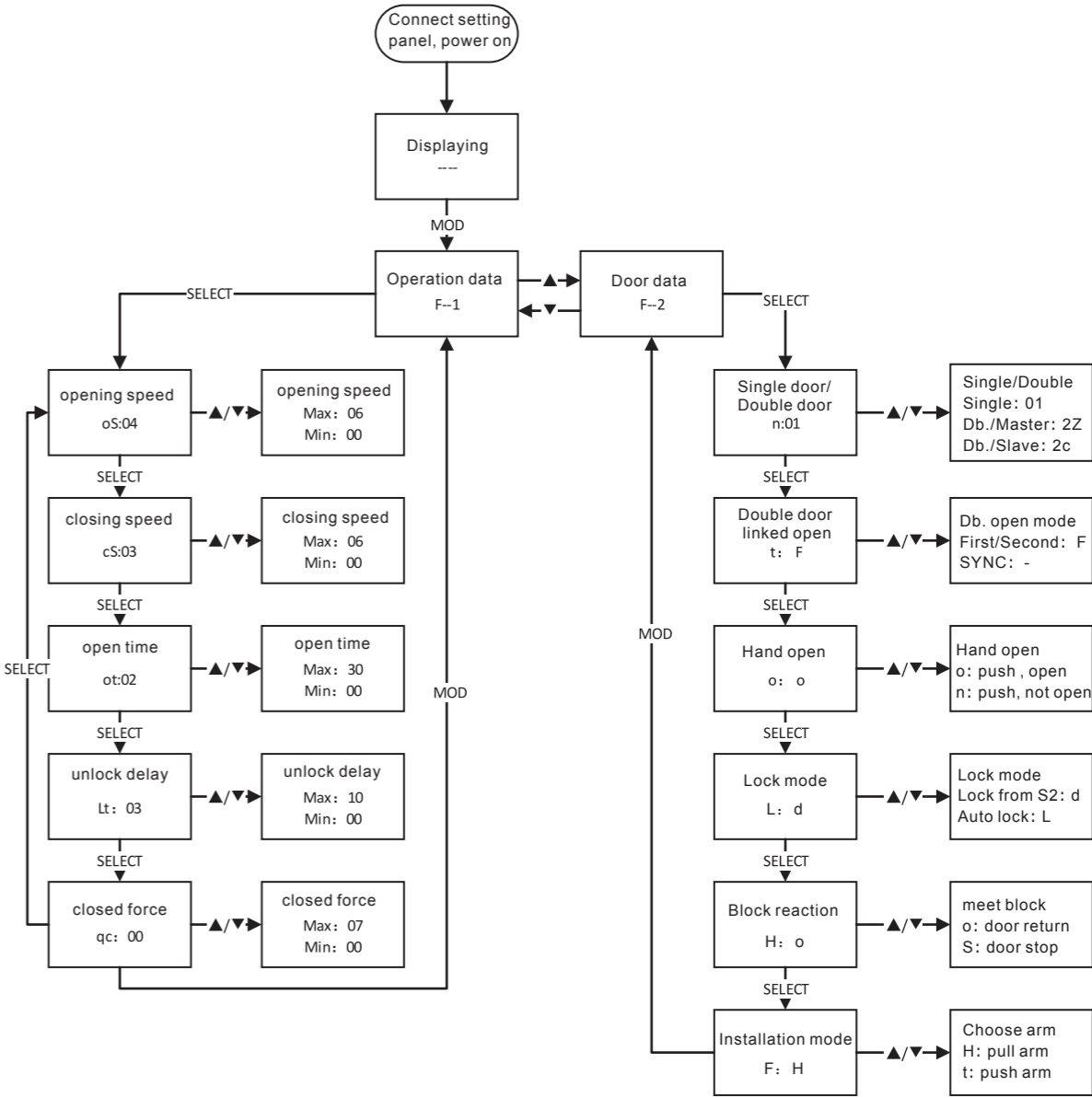
6. Cover and end caps

After all debugging, put on the cover and end caps.



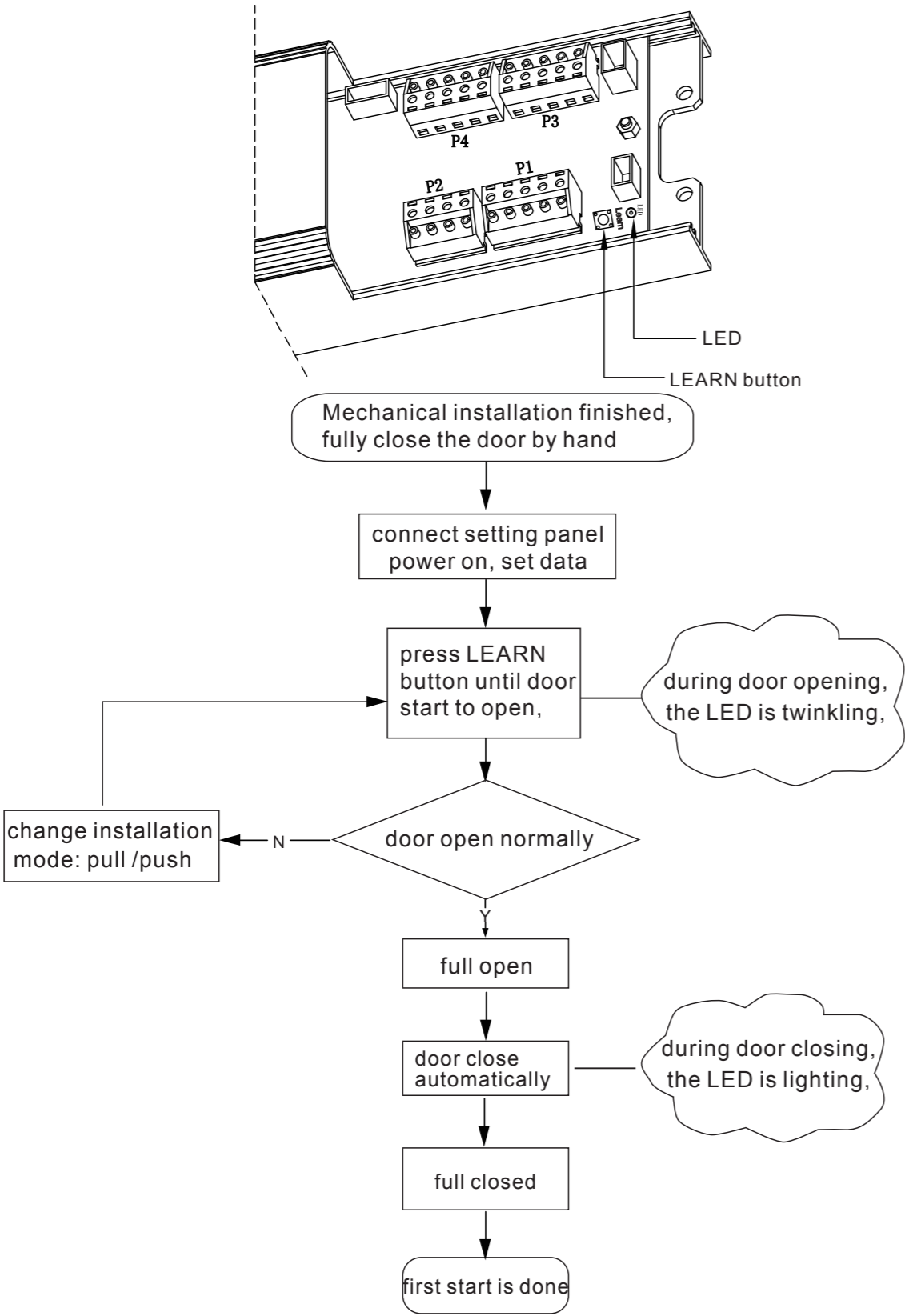
Chapter 5 Debugging

1. Parameter setting



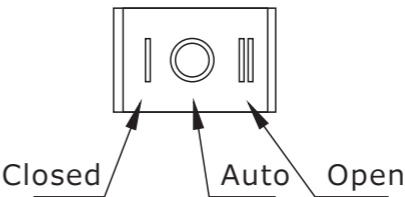
MOD: Press MOD enter into menu  
▲/▼: increase / decrease  
SELECT: confirm  
TEST: After debugging, test before confirm

2. Initialization Setting



3. State setting

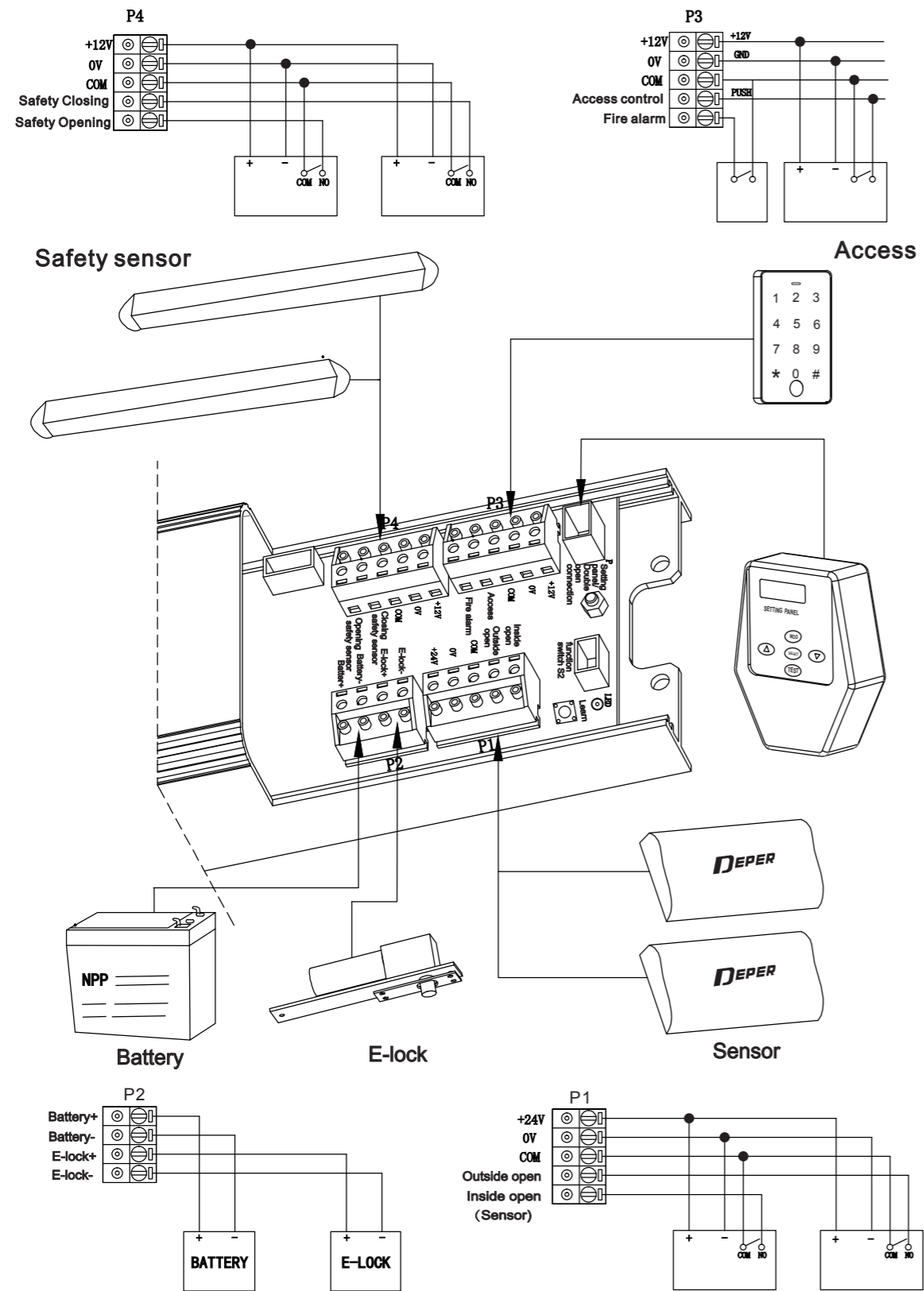
Choose door state from function switch S2:



Hold-closed: sensor signal is shielded, electric lock automatically lock, but access control signal is effective .  
Hold-open: the automatic door keep fully open.  
Automatic: all signal inputs are valid.



4. Electronic connection



5. Double open connection (option)

