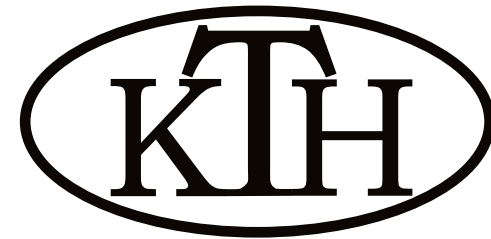


# Automatic Door Systems



**H-8**

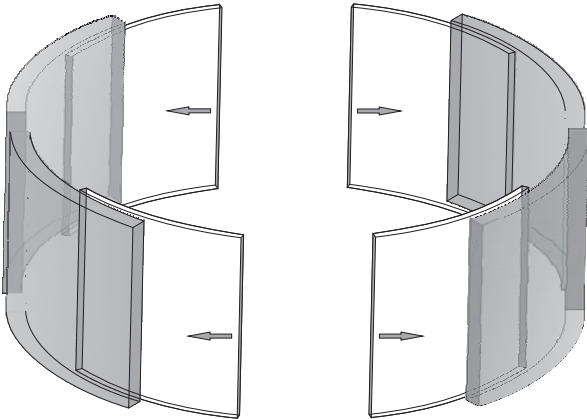
**HEAVY-DUTY DOOR**

**OPERATION INSTRUCTION**



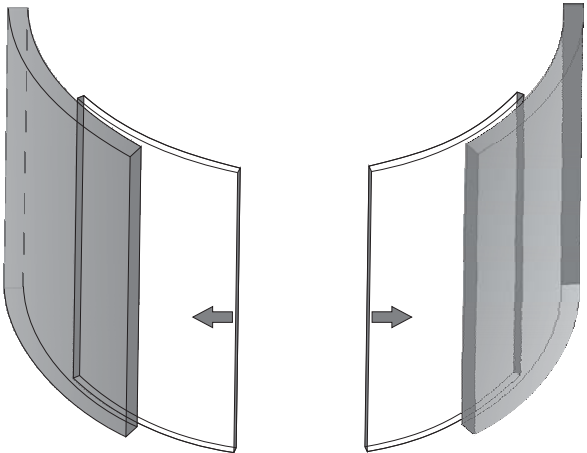
Our company has the following series of automatic door, please contact with our distributors/representations.

Round type door



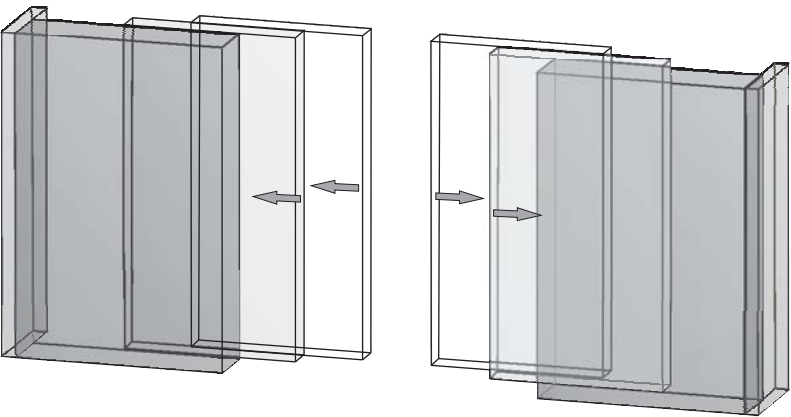
Installation: Please in accordance with the instruction of Round Type Door.

Curved type door



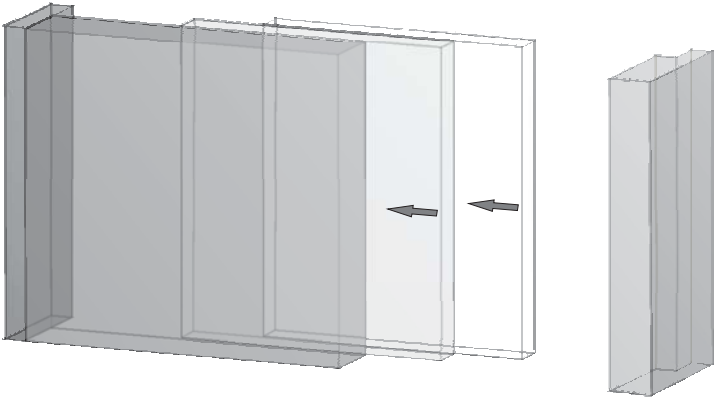
Installation: Please in accordance with the instruction of Curved Type Door.

Telescopic 4-winged Sliding Doors.



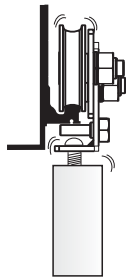
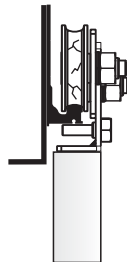
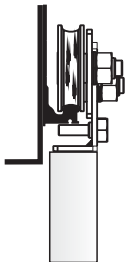
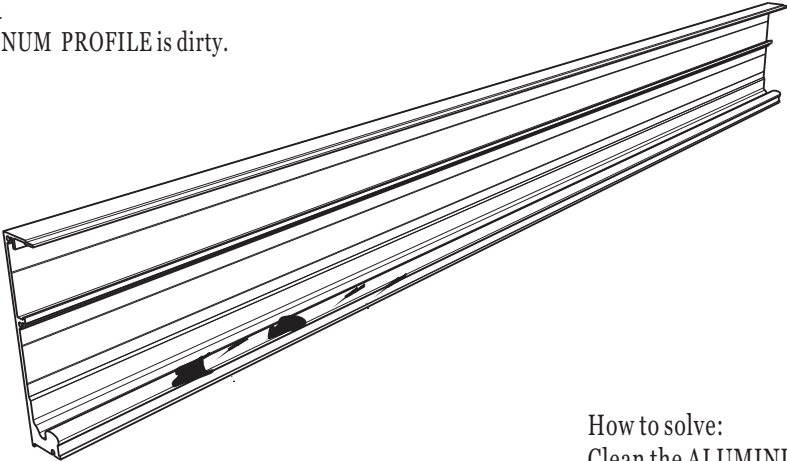
Installation: Please in accordance with the instruction of Telescopic 4-winged Sliding Doors.

Telescopic 2-winged Sliding Doors.

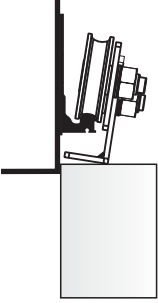
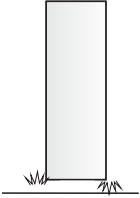
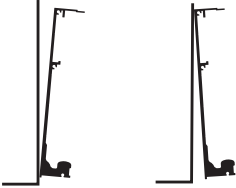
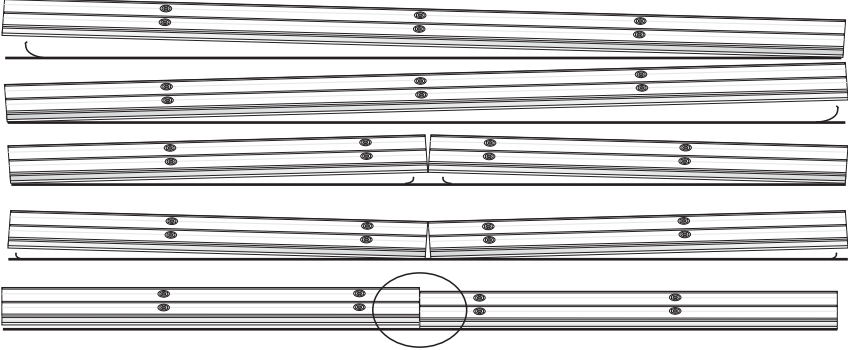


Installation: Please in accordance with the instruction of Telescopic 2-winged Sliding Doors.

The Door-Leaf sends out abnormal noise in operating.

|                                                                                                                                                                                                                         |                                                                                                                                                                                                     |                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Cause 1<br/>The SCREW of the HANGING TWIN-WHEEL is loose.</p>  <p>How to solve:<br/>Refasten the SCREW of HANGING TWIN-WHEEL.</p> | <p>Cause 2<br/>HANGING TWIN-WHEEL is broken.</p>  <p>How to solve:<br/>Replace a new one HANGING TWIN-WHEEL.</p> | <p>Cause 3<br/>HANGING TWIN-WHEEL is dirty.</p>  <p>How to solve:<br/>Clean the HANGING TWIN-WHEEL.</p> |
| <p>Cause 4<br/>ALUMINUM PROFILE is dirty.</p>  <p>How to solve:<br/>Clean the ALUMINUM PROFILE</p>                                  |                                                                                                                                                                                                     |                                                                                                                                                                                            |

Door-Leaf isn't smooth in operating.

|                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Cause 1<br/>HANGING TWIN-WHEEL is not at vertical position.</p>  <p>How to solve:<br/>Readjust the HANGING TWIN-WHEEL.</p>                     | <p>Cause 2<br/>1.Door touches Ground Rail.<br/>2.Ground Rail is dirty.</p>  <p>How to solve:<br/>1.Readjust the distance between Door and Ground Rail.<br/>2.Clean up the Ground Rail.</p> | <p>Cause 3<br/>ALUMINUM PROFILE is not vertical</p>  <p>How to solve:<br/>Readjust the vertical position of the ALUMINUM PROFILE.</p> |
| <p>Cause 4<br/>ALUMINUM PROFILE is not at vertical position.</p>  <p>How to solve:<br/>Readjust the level position of the ALUMINUM PROFILE.</p> |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |

|                                           |     |
|-------------------------------------------|-----|
| 1. COMPONENTS SPECIFICATION               | P1  |
| 2. TECHNICAL SPECIFICATION                | P2  |
| 3. SECTIONAL DRAWING                      | P3  |
| 4. INSTALLATION DRAWING                   | P4  |
| 5. INSTALL PROCEDURE                      | P5  |
| 6. INSTALL THE BELT ROLLER                | P6  |
| 7. THE POSITION OF THE HANGING TWIN-WHEEL | P7  |
| 8. INSTALL THE RACK BELT                  | P8  |
| 9. ADJUST THE DOOR-LEAF                   | P9  |
| 10. CONNECTION                            | P10 |
| 11. OUTPUT CONNECT                        | P11 |
| 12. TEST AND ADJUST                       | P13 |
| 13. ADJUSTMENT                            | P14 |
| 14. BROKEN CHECKING                       | P16 |
| 15. TROUBLESHOOTING                       | P17 |
| 16. TROUBLESHOOTING(ILLUSTRATED)          | P18 |



MICRO-CONTROLLER



BRUSHLESS DC MOTOR



POWER SWITCH



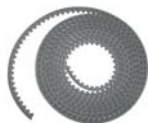
COMBINED TERMINAL BLOCK



SENSORS (OPTIONAL DEVICE)



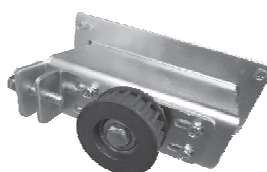
HANGING TWIN WHEEL-4PCS



RACK BELT



BELT BRACE



BELT ROLLER



MEDIUM-10PCS



STOPER -2PCS (IN PROFILE)



ACTIVE BRACE



PASSIVE BRACE



BLOCK SCREW-4 PCS



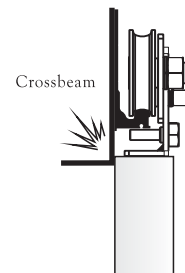
ACTIVE&PASSIVE SCREW



DOOR SCREW-8 PCS

Door can't be opened or closed.

Cause 1  
Above the Door-Leaf touched with the crossbeam.



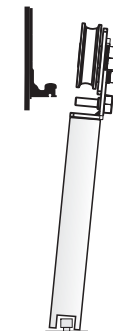
How to solve:  
Adjustment the interval between the Door-Leaf height and Crossbeam.

Cause 2  
The Door-Leaf touched with the Ground Guide Rail.



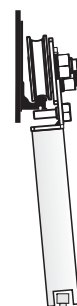
How to solve:  
Adjust the Door-Leaf height.

Cause 3  
Door-Leaf derails the ALUMINUM PROFILE.



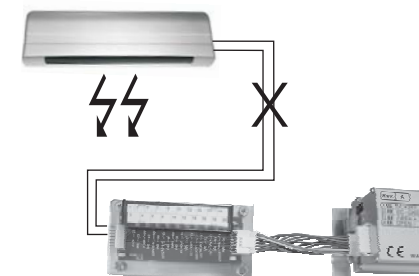
How to solve:  
Put the Door-Leaf into the ALUMINUM PROFILE again.

Cause 4  
Door-leaf is not vertical.



How to solve:  
Adjust the Ground Guide Rail/Wheel position.

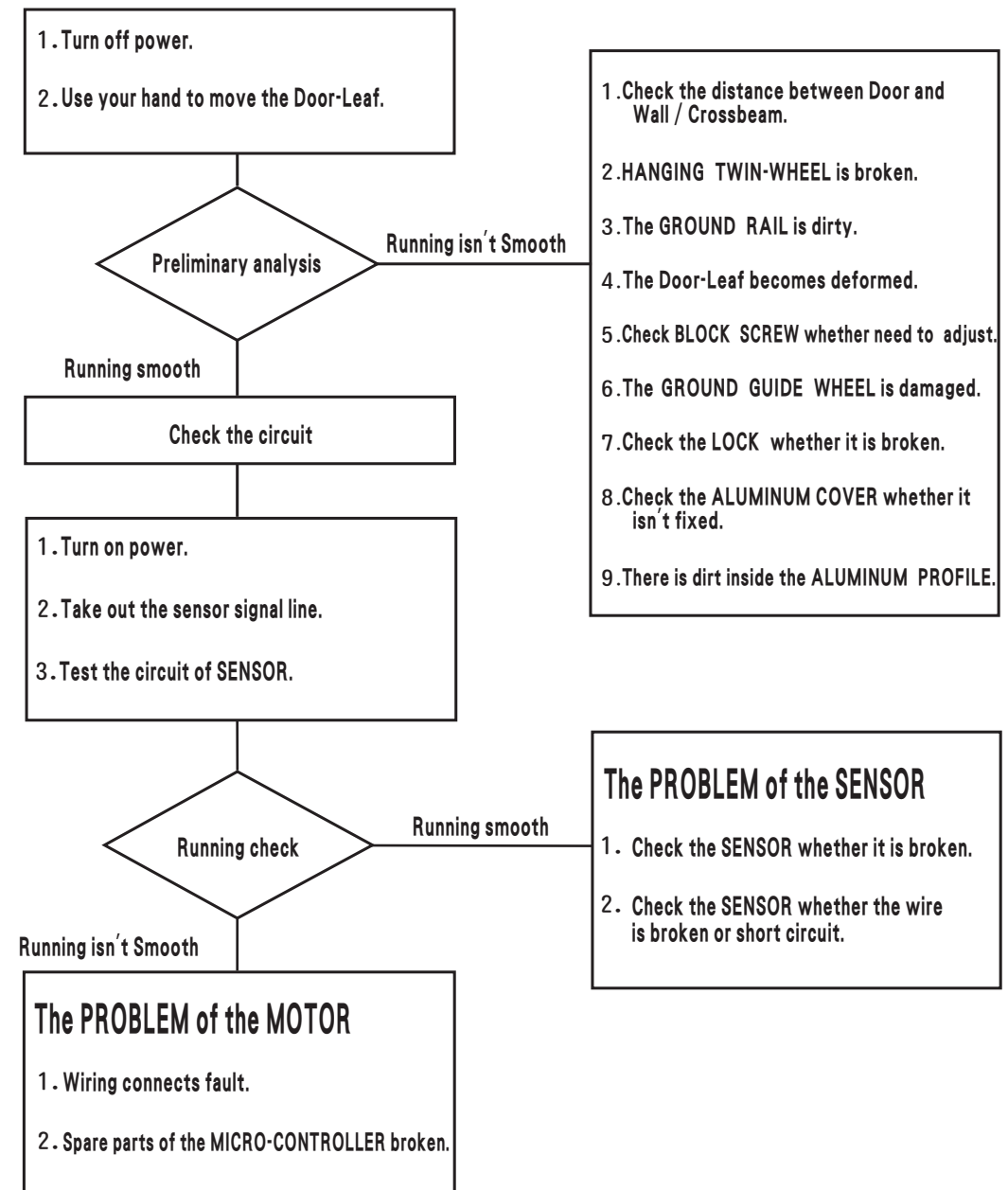
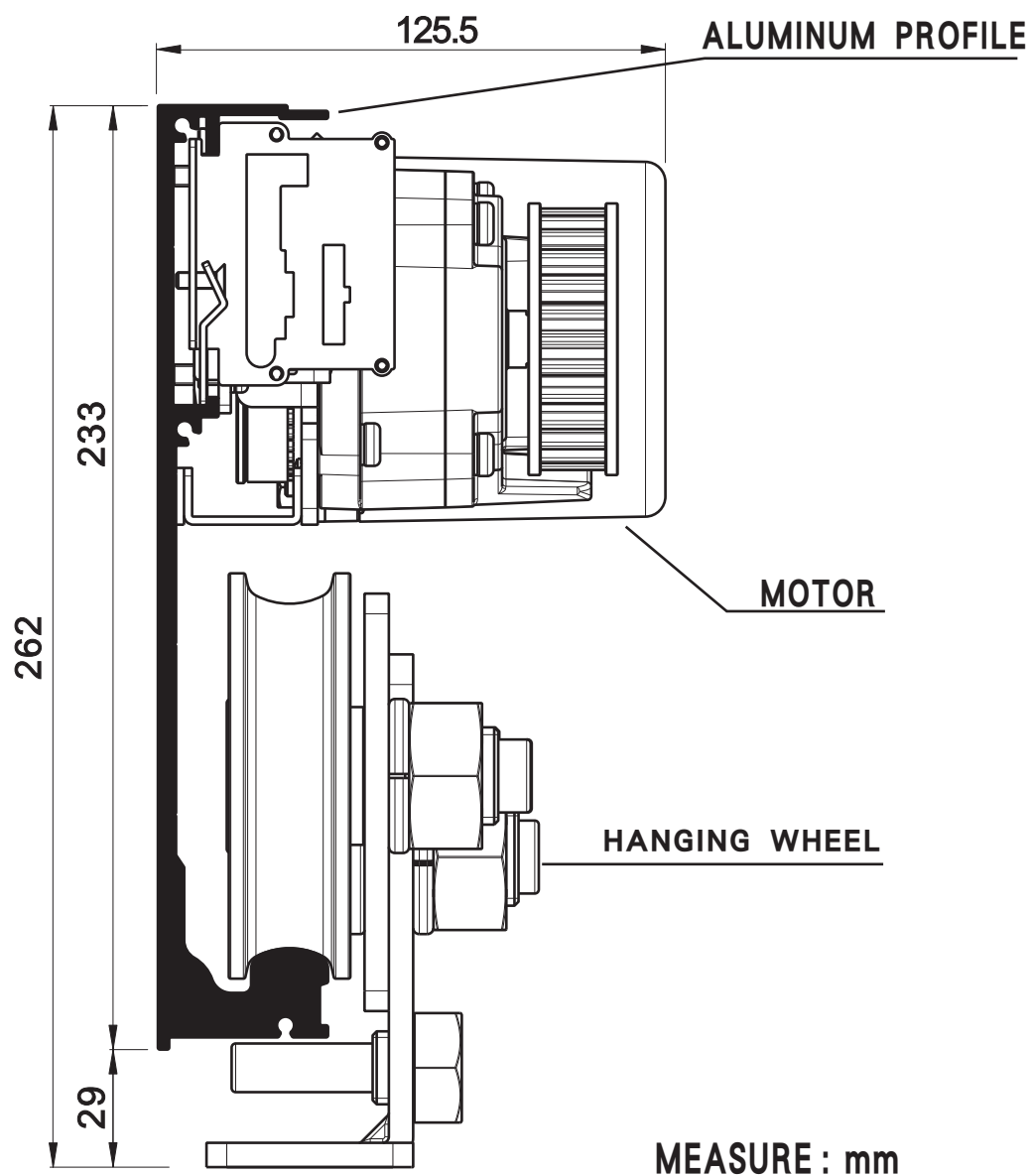
Cause 5  
SENSOR is broken or disconnects to the COMBINED TERMINAL BLOCK.



How to solve:  
1.If SENSOR is broken please change a new one.  
2.Check SENSOR whether it connects to the COMBINED TERMINAL BLOCK.

| PROBLEMS              | REASONABLE                                                        | CHECK                                                                                                   | HOW TO SOLVE                                            |
|-----------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| DOOR CAN'T BE MOVED.  | 1.No power.                                                       | Broken circuit.                                                                                         | Check the broken circuit position.                      |
|                       |                                                                   | The Power Switch is not opened.                                                                         | Open the POWER SWITCH.                                  |
|                       | 2.The door is locked.                                             | Door is locked and no movement action.                                                                  | Open the DOOR LOCK.                                     |
|                       | 3.The sensor is broken.                                           | Signal light is WORKING.                                                                                | Check the MICRO-CONTROLLER.                             |
|                       |                                                                   | Signal light is OUT OF WORKING.                                                                         | Check the CIRCUIT OF SENSOR or change a new one SENSOR. |
| SPEED                 | 1.Speed is too slow.                                              | Check the Speed at KNOB of MICRO-CONTROLLER.                                                            | Adjust the Speed of Open/Closed Door.                   |
|                       | 2.Door runs into the obstructor, then cause the Door moving slow. | Installation problem or dirty.                                                                          | Reinstall or clean the ALUMINUM PROFILE.                |
|                       | 3.Door is difficult to move.                                      | Turn off the power.Use hand to move the Door, besides, check the Ground Guide Rail whether it is dirty. | Clean the Ground Guide Rail.                            |
|                       |                                                                   | Check the HANGING TWIN-WHEEL whether it is broken.                                                      | Change a new one.                                       |
|                       |                                                                   | Check the Door Bolt in the door bottom whether it is loosen.                                            | Fix the Door Bolt.                                      |
|                       |                                                                   | Check whether the Ground Wheel is broken.                                                               | Change a new Ground wheel.                              |
| DOOR CAN'T FULL OPEN. | In the Half-Open way.                                             | Check the Knob/Switch.                                                                                  | Turn on to Full Open.                                   |
| DOOR CAN'T CLOSE.     | 1.In the Full-Open way.                                           | The SENSOR keeps working.                                                                               | Check wiring or change a new SENSOR.                    |
|                       | 2.The Door opens suddenly while it is moving to close.            | The SENSOR probably is installed with something wrong.                                                  | Adjust the SENSOR or change a new one.                  |

| TYPE                             | H-8                                             |                   |
|----------------------------------|-------------------------------------------------|-------------------|
| MODEL                            | SINGLE-WINGED                                   | BI-PARTING        |
| DOOR WEIGHT                      | 500kg X 1 (door)                                | 400kg X 2 (door)  |
| DOOR WIDTH                       | DW=500mm~6000mm                                 | DW=500mm~6000mm   |
| INSTALL WAY                      | Surface install                                 | Surface install   |
| MOTOR                            | DC24V 120W BRUSHLESS DC MOTOR                   |                   |
| CONTROL                          | STANDARD MICRO-CONTROLLER                       |                   |
| POWER CONSUMPTION                | 120W                                            |                   |
| VOLTAGE                          | AC100V~240V                                     |                   |
| ENVIRONMENTAL TEMPERATURE        | -20℃~+50℃                                       |                   |
| VOLUME                           | 60decibel(max.)                                 |                   |
| STARTING SPEED                   | 600mm(second)                                   | 550mm X 2(second) |
| STARTING TIME                    | 0~64 sec. (regulable)                           |                   |
| TRANSMISSION IMPORTANT CONDITION | RACK BELT S8M                                   |                   |
| OPENING DOOR RANGE               | FULL/HALF-OPEN (regulable)                      |                   |
| PFC POWER EFFICIENCY             | 0.95(in AC100V Full load)                       |                   |
| TRACTION FORCE                   | WHEN POWER OFF THE DOOR CAN BE OPENED BY MANUAL |                   |





## E The closing speed of the door

Adjust the CLOSED SPEED  
Higher number, faster speed.

CAUTION: please adjust the number one by one from low to high.



## F The slowing range of closing door

Adjust the SLOW RANGE of CLOSED DOOR

Higher number, more range about the slow range at open door position.

CAUTION: please adjust the number one by one from high to low.



## G The slowing speed of the door

Adjust the SLOW SPEED  
Higher number, faster speed.

CAUTION: please adjust the number one by one from low to high.

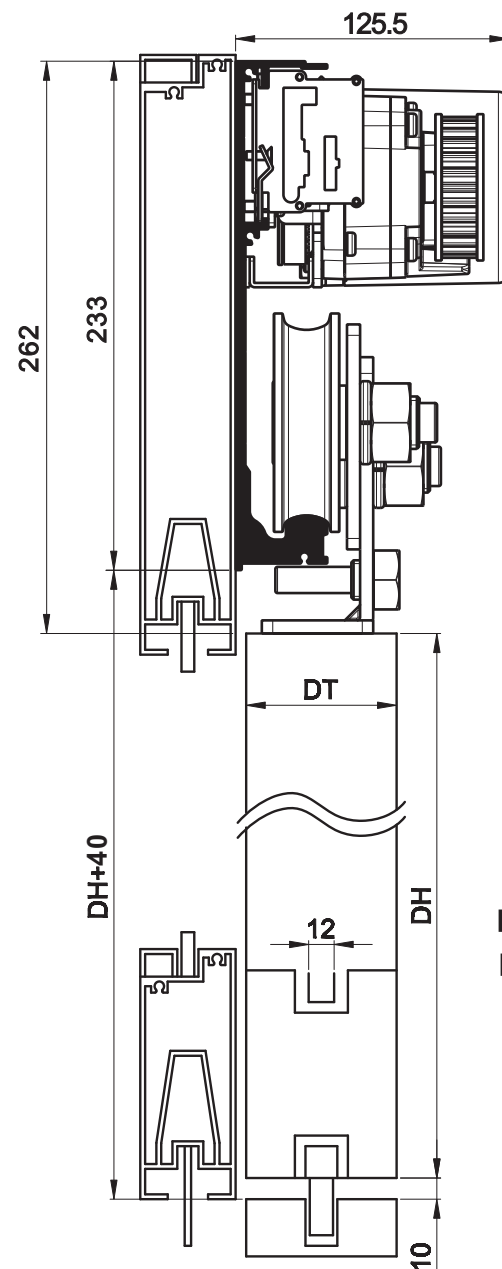


## H Opening hold time

Adjust the HOLD OPEN TIME

Higher number, the hold time is longer.

| NUMBER | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7  | 8  | 9  |
|--------|---|---|---|---|---|---|---|----|----|----|
| SECOND | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 10 | 32 | 64 |



MEASURE : mm

If the height of the Door-Leaf is 2,300mm, then the total height of the ALUMINUM PROFILE is 2,340mm.

DH=Door height  
DT=Door thickness

**1 Prepare** Should correct the height and the leveling of the ALUMINUM PROFILE



**2** Cut and install the ALUMINUM PROFILE



**3** Install the SENSORS



**4** MOTOR



**5** MICRO-CONTROLLER

**6** Install the BELT ROLLER



**7** Hang and adjust the Door-Leaf



**8** Install and adjust the BELT



**9** Power connect



**10** Test and adjust



## A Full/Half opening

Adjust the RANGE of the HALF OPEN DISTANCE.  
Higher number, wider range.



## B Brake power

The Door-Leaf is slight, the BRAKE POWER is less.  
Please choose 0~2 if the Door-Leaf is under 50kg.  
Please adjust number from number 5 if the Door-Leaf is over 80kg.



## C The opening speed of the door

Adjust the OPEN SPEED  
Higher number, faster speed.  
CAUTION: please adjust the number one by one from low to high.



## D The slowing range of opening door

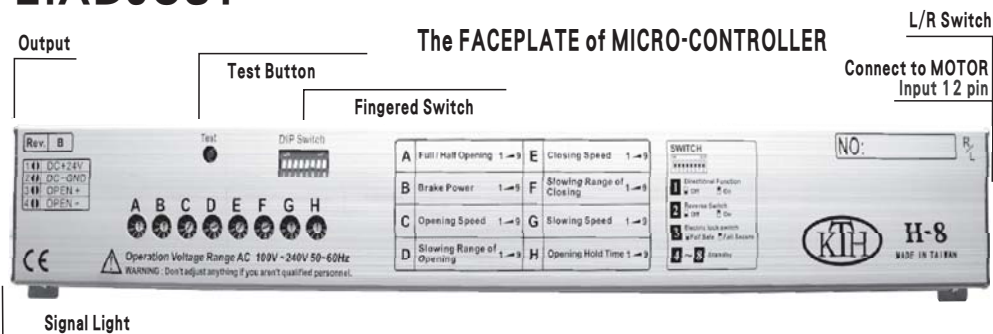
Adjust the SLOW RANGE of OPENING DOOR  
Higher number, more range about the slow range at open door position.  
CAUTION: please adjust the number one by one from high to low.

Before turn on the power, make sure the Door-Leaf can be smoothly moved, and the electric link is correct at first.

## 1.SYSTEM PROGRAM REMEMBER

After turn on the power, the MICRO-CONTROLLER will remember the distance and the range.

## 2.ADJUST



Red LED-Power is connected.

Green LED-Input the open door signal.

L/R switch-The direction of the door opening: right/left(R/L).

DIP Switch- Pin 1 - Directional Function

Operation

- OFF: Normal mode.
- ON: push once, open the door. Push again, close the door.

DIP Switch- Pin 2- Reverse Switch: in order to control opening and closing direction of the Door-Leaf after power resumes.

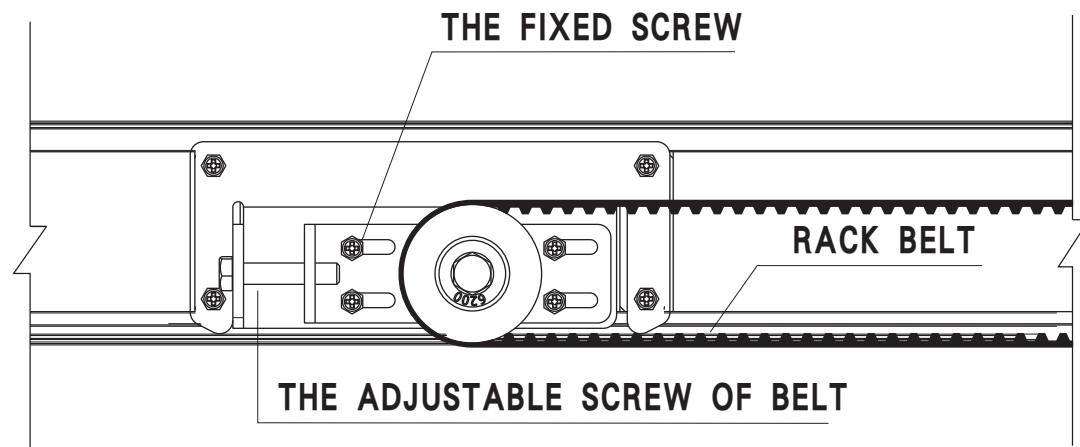
Operation

- OFF: Normal mode, after power resumes, the Door-Leaf opens the door first.
- ON: suitable for Security System, after power resumes, the Door-Leaf closes the door first.

DIP Switch- Pin 3 - Electric lock switch

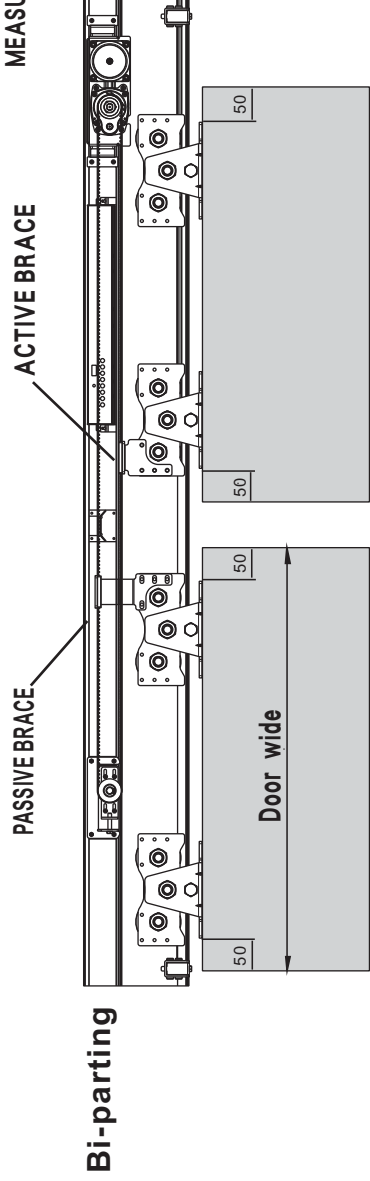
Fail Safe Fail Secure

Fingered Switch-Pin4 ~ Pin 8 - Standby

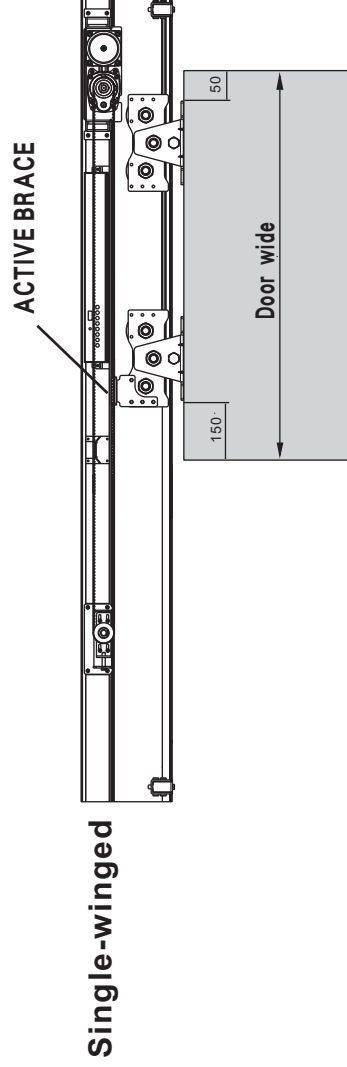


TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.

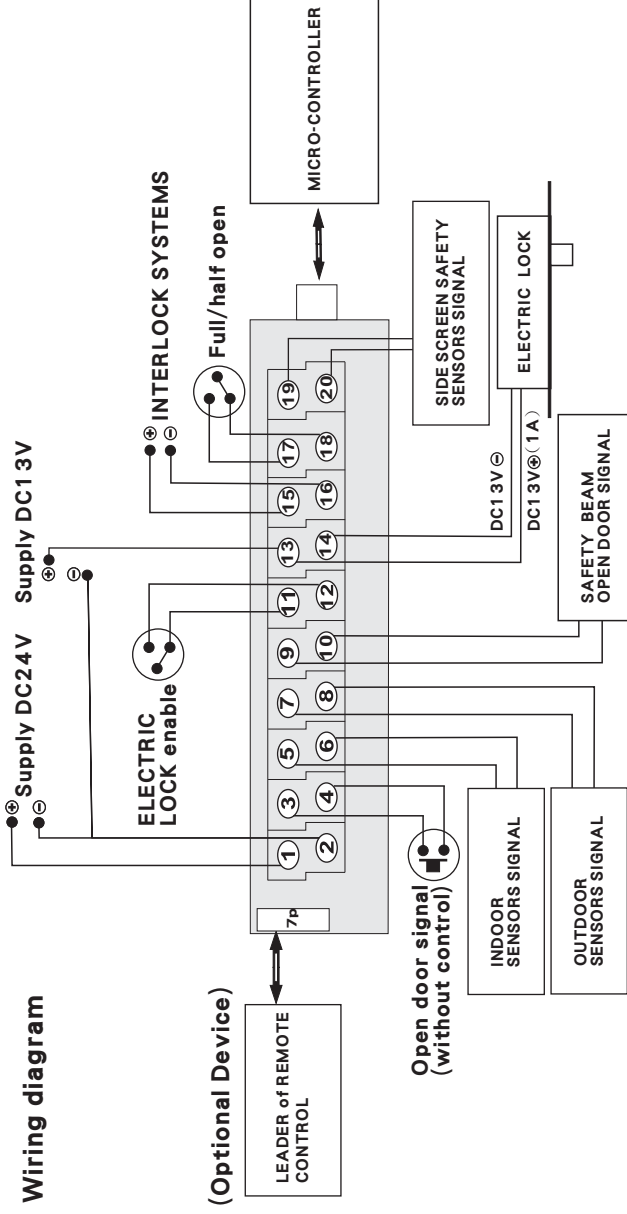
MEASURE : mm



In order to open to the largest position. Please leave 50mm between the edge of door leaves and hangers



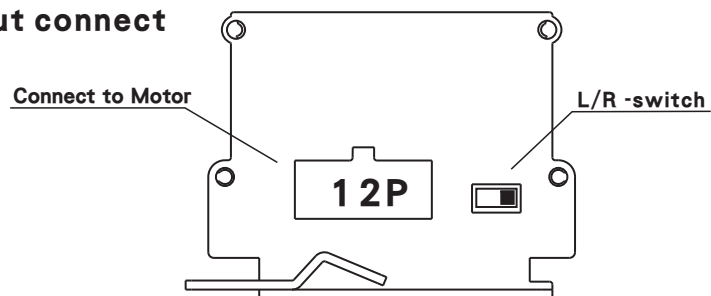
In order to open to the largest position. Please leave 150mm between the edge of door leaf and left hanger.



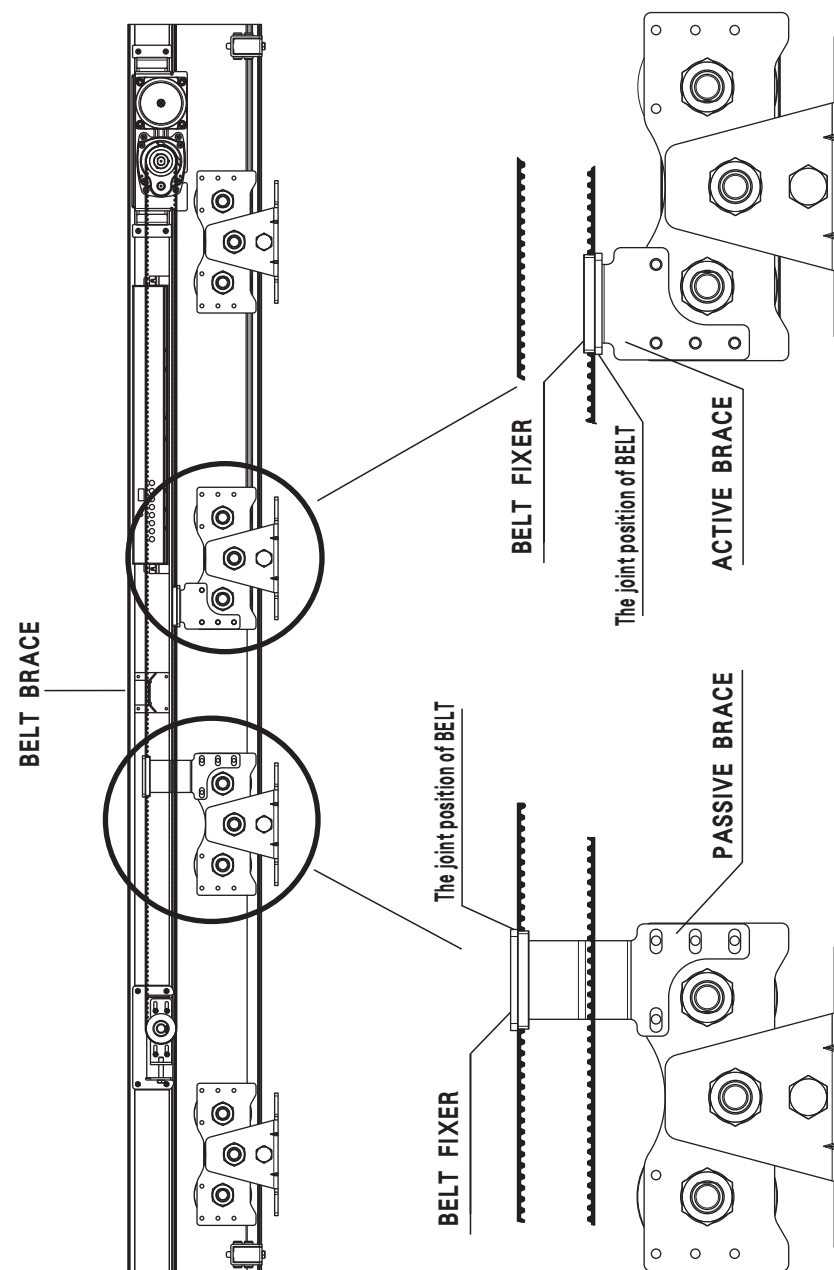
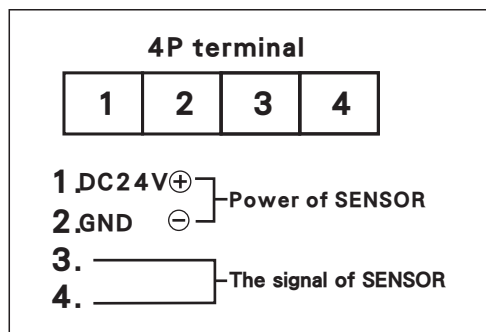
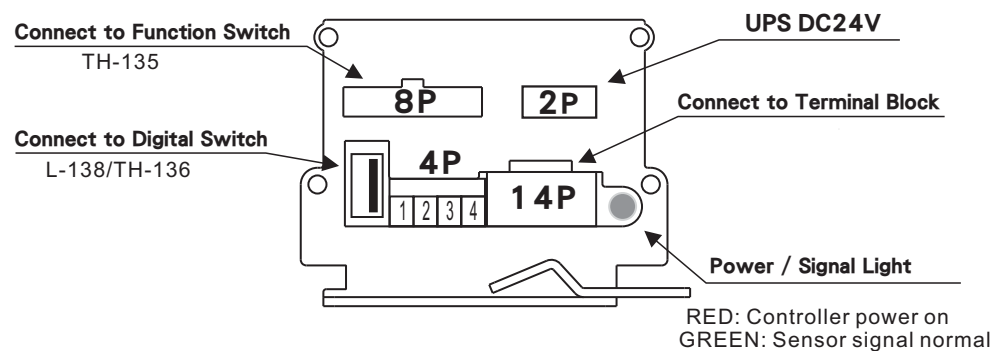
- (A) The FUNCTION of the ELECTRIC LOCK will work when ① and ② are short circuit, then ⑬ and ⑭ will output DC13V for ELECTRIC LOCK after the door closes. ⑬ and ⑭ will not output DC13V if ⑪ and ⑫ are not short circuit.
- (B) The SIGNAL of the SAFETY BEAM is controlled by ⑤ and ⑩. When door is opening and running, ⑤ and ⑩ keep to accept the signal, then the SAFETY BEAM will be working. ⑤ and ⑩ will not work when the door is closed, then the SAFETY BEAM will lose efficacy when the door is closed.
- (C) The signal of Side Screen Safety Sensor is controlled by ⑬ and ⑭. Side Screen Safety Sensors are placed at the rear end of the door to prevent collisions during the opening movement of the moving leaves. When the signal activates, the moving leaves will become slowly, till the door opens fully, then close normally.

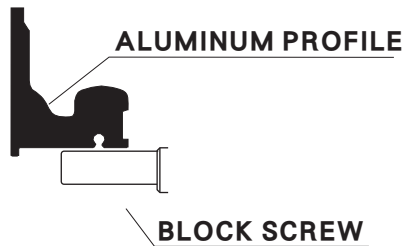
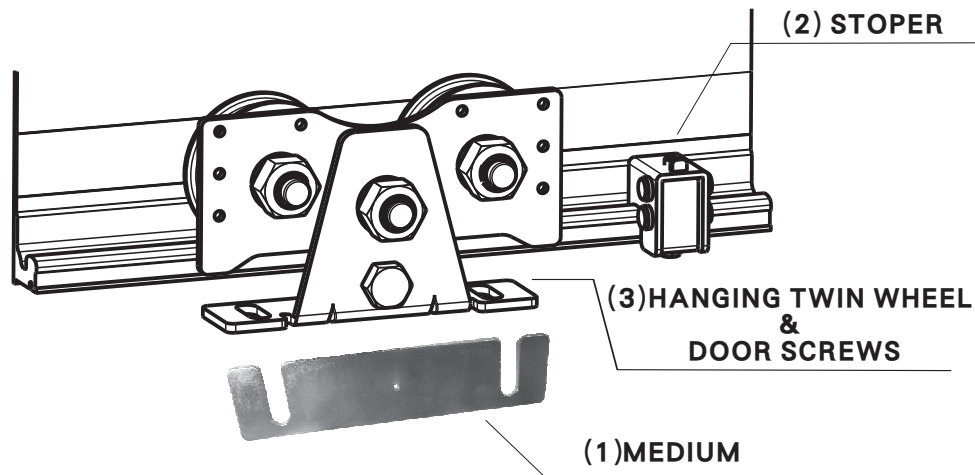
## MICRO-CONTROLLER

## Input connect



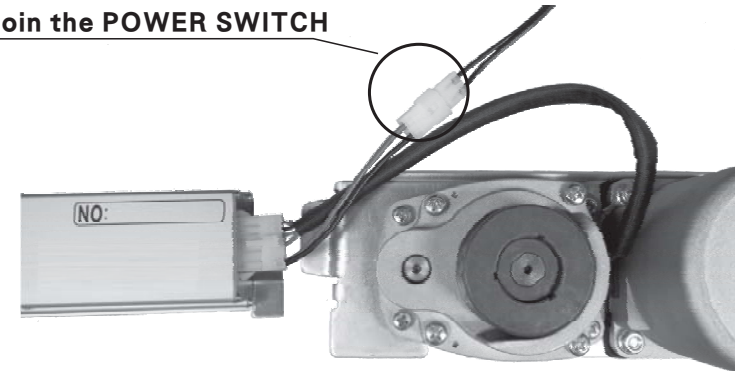
## Output connect





- A** When Door-Leaf height and interval need to adjust, loose (3) at first, then put (1) to where you need to adjust.
- B** Need to fasten (3) after adjust **A** .
- C** Install above-mentioned (2) after make sure the DOOR OPEN POSITION.

To join the POWER SWITCH



The ILLUSTRATED of CONTROLLER and MOTOR.

Power supply (input)  
Either AC100V~240V



## Warning

Please confirm WHETHER the SENSOR VOLTAGE is the same as the power supply. If different between them, need to add the TRANSFORMER, otherwise the SENSOR would be burned.