Automatic Door Systems



TH-3

Single-winged / Bi-parting

(for Slim Aluminum Profile)

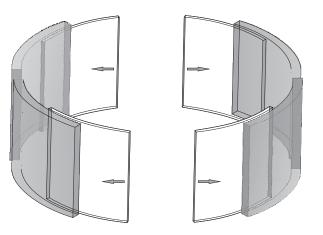
OPERATION INSTRUCTION

| ĸĨ'n | TH-3 |
|---------------|------|
| $\overline{}$ | |

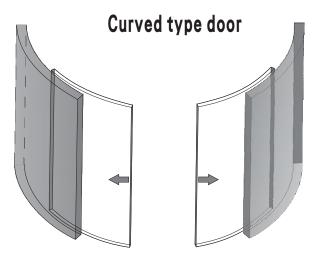
ROUND TYPE DOOR / CURVED TYPE DOOR S

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

Round type door

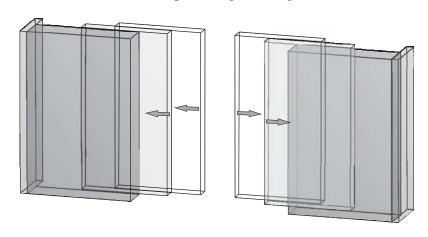


Installation: Please in accordance with the instruction of Round Type Door.

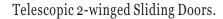


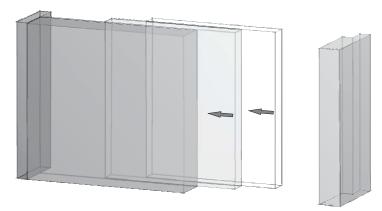
Installation: Please in accordance with the instruction of Curved Type Door.

Telescopic 4-winged Sliding Doors.

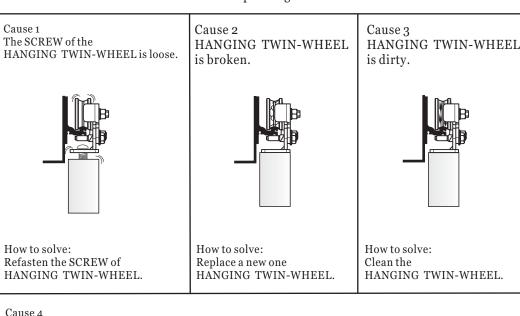


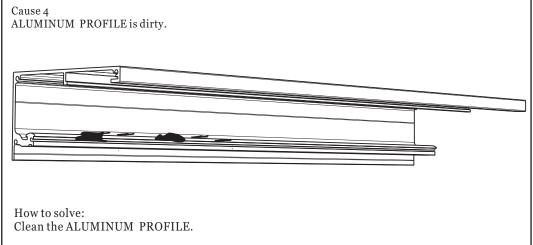
Installation: Please in accordance with the instruction of Telescopic 4-winged Sliding Doors.





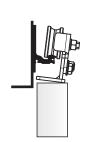
The Door-Leaf sends out abnormal noise in operating.





Door-Leaf isn't smooth in operating.

Cause 1 HANGING TWIN-WHEEL is not at vertical position.



How to solve: Readjust the HANGING TWIN-WHEEL. Cause 2

1.Door touches Ground Rail.

2.Ground Rail is dirty.



How to solve: 1.Readjust the distance between Door and Ground Rail.

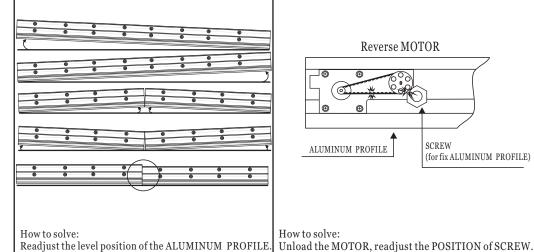
2.Clean up the Ground Rail.

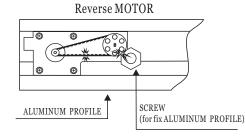
Cause 3 ALUMINUM PROFILE is not vertical



How to solve: Readjust the vertical position of the ALUMINUM PROFILE.

Cause 4
ALUMINUM PROFILE is not at horizontal position. Cause 5
SCREW of ALUMINUM PROFILE.





How to solve:

| 1. | COMPONENTS SPECIFICATION | l |
|------------|---|----|
| 2. | TECHNICAL SPECIFICATION | 2 |
| 3. | SECTIONAL DRAWINGP3 | } |
| 4. | INSTALLATION DRAWING | 4 |
| 5 . | INSTALL PROCEDUREP5 | 5 |
| 6. | INSTALL THE BELT ROLLER P | 6 |
| 7. | THE POSITION OF THE HANGING TWIN-WHEELP | 7 |
| 8. | INSTALL THE RACK BELT P | 8 |
| 9. | ADJUST THE DOOR-LEAFP | 9 |
| 10. | CONNECTION (MOTOR)P1 | 0 |
| 11. | CONNECTION | l |
| 12. | TEST AND ADJUST | .3 |
| 13. | ADJUSTMENTP1 | 4 |
| 14. | BROKEN CHECKINGP1 | 6 |
| 15. | TROUBLESHOOTINGP1 | 7 |
| 16. | TROUBLESHOOTING(ILLUSTRATED)P | 18 |









MICRO-CONTROLLER

BRUSHLESS DC MOTOR



RACK BELT







SENSORS (OPTIONAL DEVICE)

COMBINED TERMINAL BLOCK (OPTIONAL DEVICE)

BELT ROLLER

(BI-PARTING)HANGERS & IRON PARTS









HANGING TWIN-WHEEL4 PCS

PASSIVE BRACE with BELT FIXER

ACTIVE BRACE with BELT FIXER

HANGING **BRACE-4 PCS**









STOPER-2 PCS

WIRE CLAMP-5 PCS

BLOCK SCREW-8 PCS



GROUND WHEEL



SCREW-8 PCS

DOOR SCREW-8 PCS

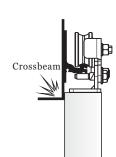
IRON PARTS SACK



Door cant be opened or closed.



Above the Door-Leaf touched with the crossbeam.



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



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

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.

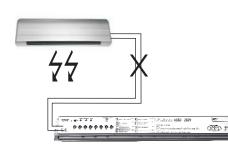
How to solve:



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

Cause 5

SENSOR is broken or disconnects to the MICRO-CONTROLLER.



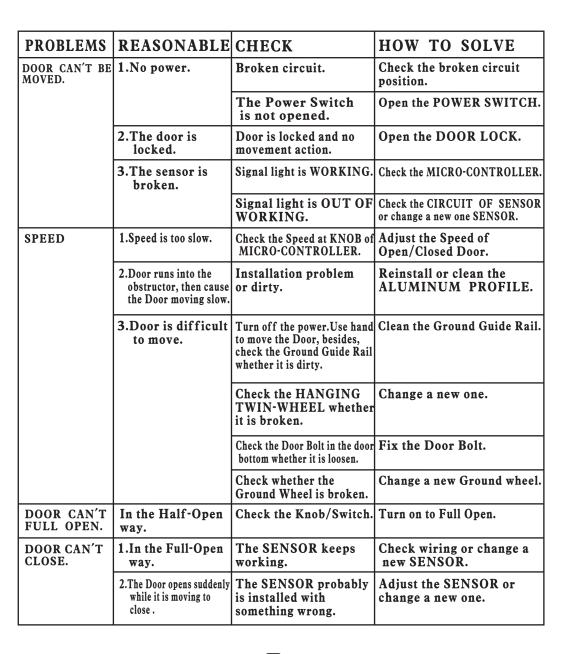
How to solve:

1.If SENSOR is broken please change a new one. 2.Check SENSOR whether it connects to the MICRO-CONTROLLER.



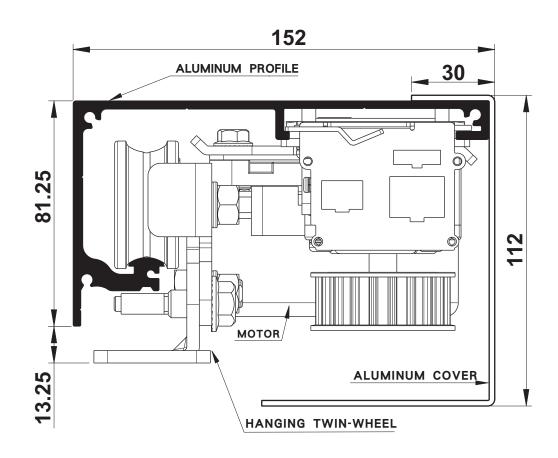
KIH) TH-3

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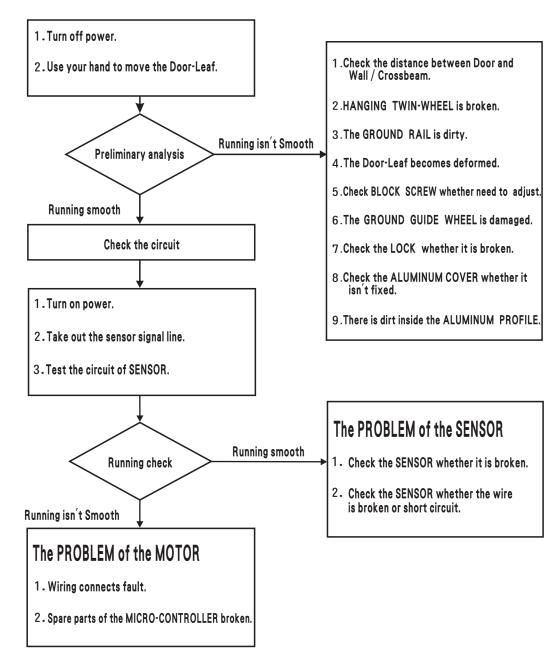


| TYPE | TH-3 | | | | | |
|----------------------------------|------------------------------|--------------------|--|--|--|--|
| MODEL | SINGLE-WINGED | BI-PARTING | | | | |
| DOOR WEIGHT | 150kg X1(door) | 130kg X2(door) | | | | |
| DOOR WIDTH | DW=500mm~2500mm | DW=500mm~2500mm | | | | |
| INSTALL WAY | Surface install | Surface install | | | | |
| MOTOR | DC24V 75W BRUSHLESS DC MOTOR | | | | | |
| CONTROL | STANDARD MICRO-CONTROLLER | | | | | |
| POWER CONSUMPTION | 75W | | | | | |
| VOLTAGE | AC100V~240V | | | | | |
| ENVIRONMENTAL TEMPERATURE | -20°C~+50°C | | | | | |
| 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 | 3 kg | | | | | |





MEASURE: mm





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.

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.

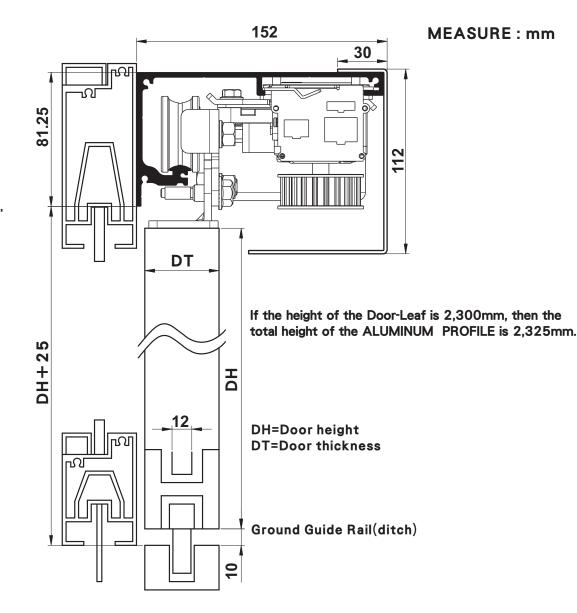
The slowing speed of the door

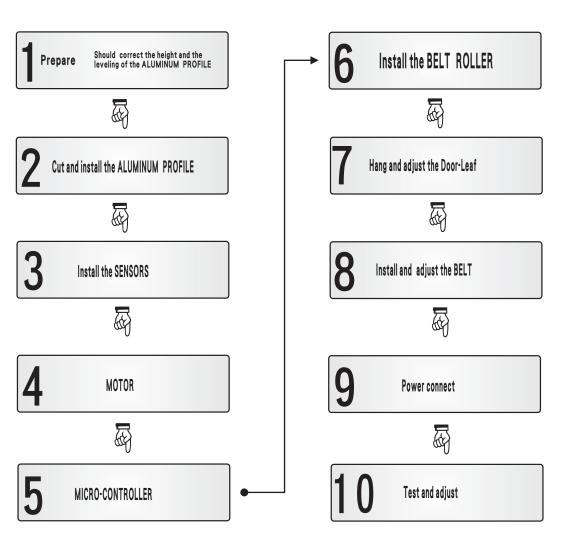
Adjust the SLOW SPEED Higher number, faster speed. CAUTION: please adjust the number one by one from low to high.

♠ 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 |





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.

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.

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.

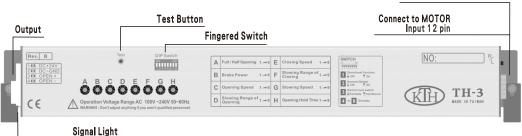
1.SYSTEM PROGRAM REMEMBER

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

2.ADJUST

The FACEPLATE of MICRO-CONTROLLER

L/R Switch





DIP Switch

Slowing Range of Opening

☐ Short ☐ Long

2 Slowing range of closing

Short Long

Open incomplete





5 Reverse Switch:

in order to control opening and closing direction of the Door-Leaf after power resumes.

OFF ON

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.

6 Directional function

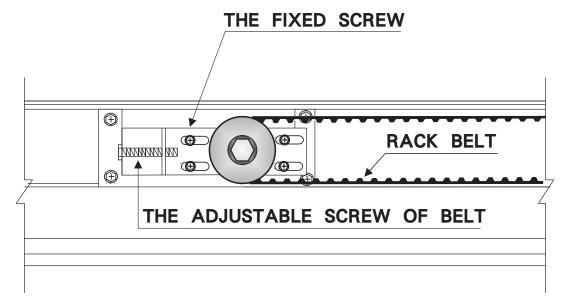
OFF ON

OFF: Normal mode.

ON: Push once, open the door. Push again, close the door.

7 Electric lock switch

8 Standby

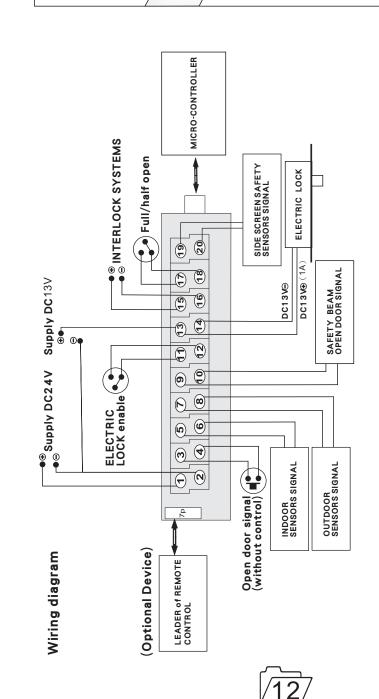


TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.

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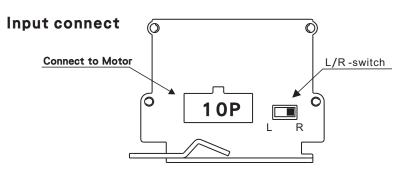
POSITION OF HANGING TWIN-WHEEL:

of safety of installation sides of Door-deaf keeps the distance 50mm to make sure the OW L

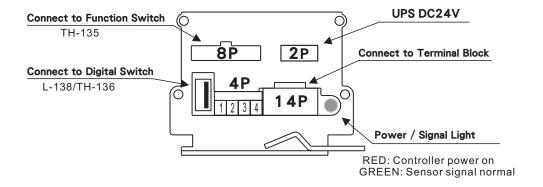


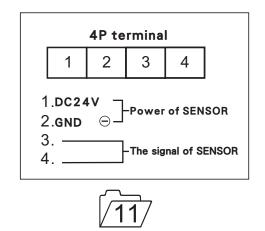
- (A) The FUNCTION of the ELECTRIC LOCK will work when finand @ are short circuit, then finand will output DC13V for ELECTRIC LOCK after the door closes. (® and (® will not output DC13V if (B) and (® are not short circuit.
- (B) The SIGNAL of the SAFETY BEAM is controlled by ® and ®. When door is opening and running, © and © keep to accept the signal, then the SAFETY BEAM will be working. © and © 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 ® and ®. 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.

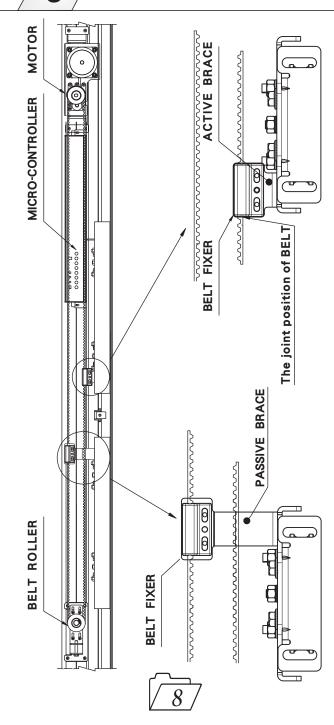
MICRO-CONTROLLER



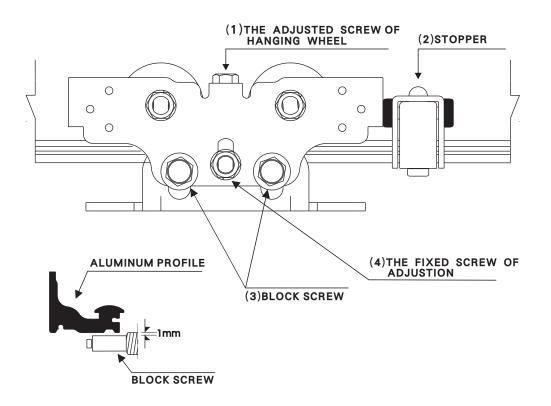
Output connect



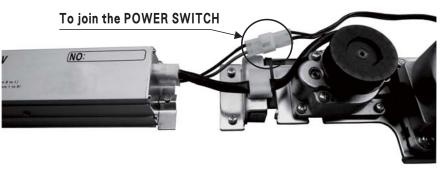




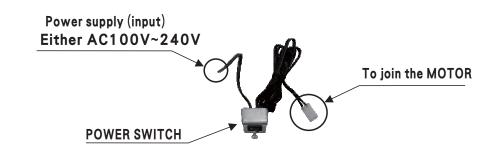
R S



- When Door-Leaf height and interval need to adjust, loose (3) & (4) at first, then adjust (1).
- Need to fasten (3) & (4) after adjust (A).
- Install above-mentioned (2) after make sure the DOOR OPEN POSITION.



The ILLUSTRATED of CONTROLLER and MOTOR.





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.