Automatic Door Systems



H-18B

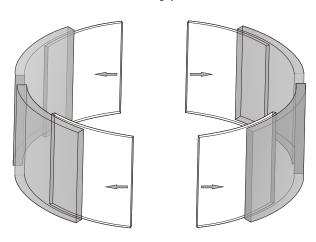


http://www.kth-automaticdoor.com/

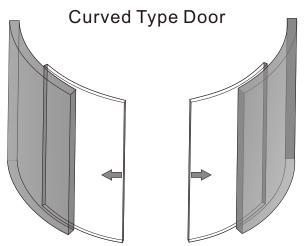
e-mail: kth@kthtw.com

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

Round type door



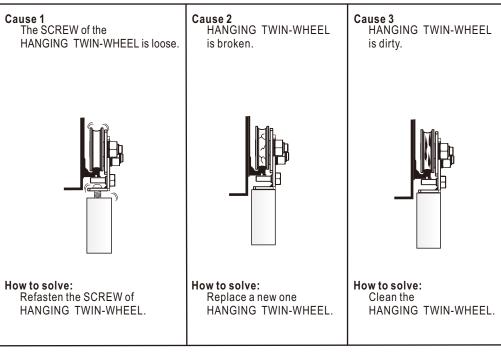
Installation: Please in accordance with the instruction of Round Type Door.

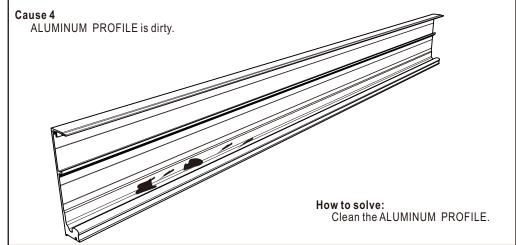


Installation: Please in accordance with the instruction of Curved Type Door.

Ver.Y20250730

Door-Leaf isn't smooth in operating.







Door can't be opened or closed.

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:

- Readjust the distance between Door and Ground Rail.
- 2.Clean up the Ground Rail.

Cause 3

ALUMINUM PROFILE is not vertical.

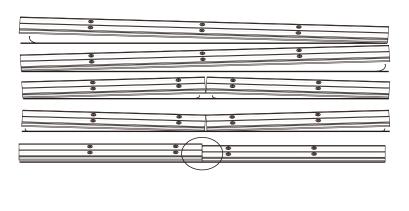


How to solve:

Readjust the vertical position of the ALUMINUM PROFILE.

Cause 4

ALUMINUM PROFILE is not at vertical position.

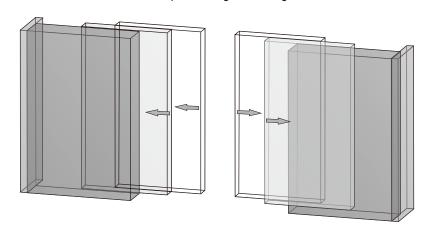


How to solve:

Readjust the level position of the ALUMINUM PROFILE.

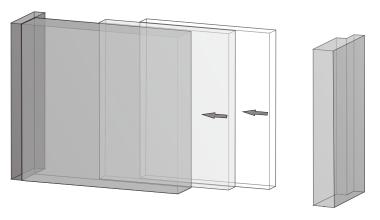


Telescopic 4-winged Sliding Doors.



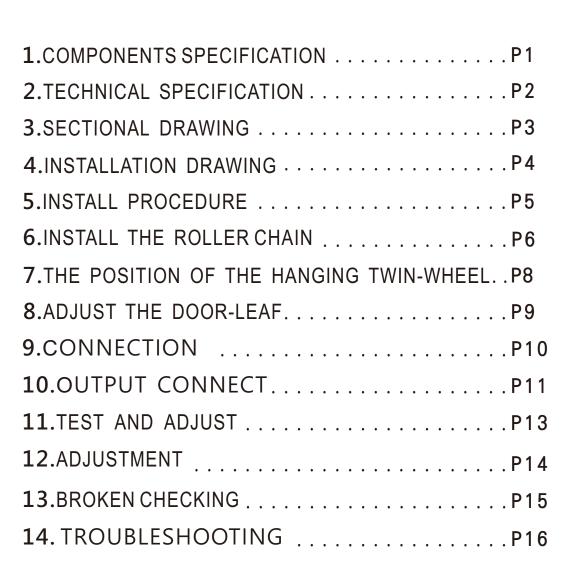
Installation: Please in accordance with the instruction of Telescopic 4-winged Sliding Doors.

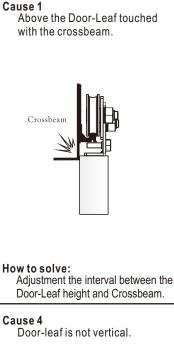
Telescopic 2-winged Sliding Doors.

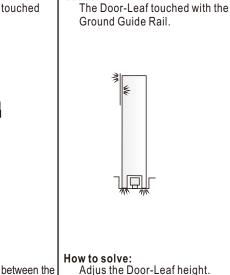


Installation: Please in accordance with the instruction of Telescopic 2-winged Sliding Doors.

Door can't be opened or closed.

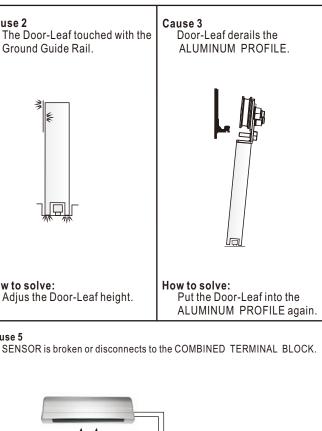






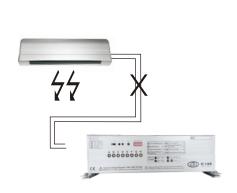
Cause 5

Cause 2





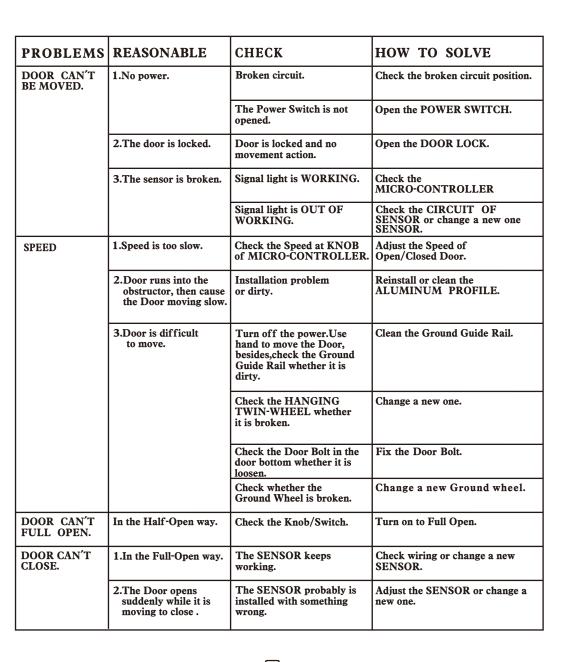




How to solve: 1.If SENSOR is broken please change a new one. 2.Check SENSOR whether it connects to the MICRO-CONTROLLER.



COMPONENTS SPECIFICATION







MICRO-CONTROLLER

BRUSHLESS DC MOTOR







POWER SWITCH

SENSORS (OPTIONAL DEVICE)

MOTOR HOLDER







HANGING TWIN WHEEL-4PCS

STOPER -2PCS (IN PROFILE)

BELT ROLLER



ROLLER CHAIN





ACTIVE BRACE



MEDIUM-10PCS

PASSIVE BRACE







ACTIVE&PASSIVE SCREW

DOOR SCREW-8 PCS

CABLE TIE-5 PCS

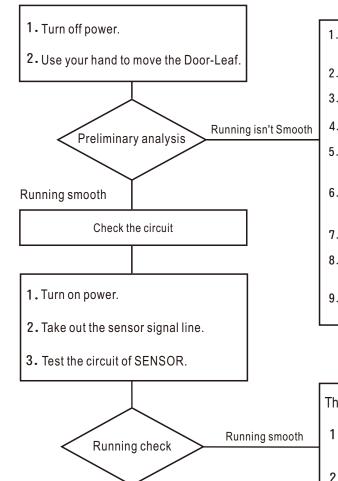




(III) H-18B/ 2

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TYPE	H-18B						
MODEL	SINGLE-WINGED	BI-PARTING					
DOOR WEIGHT	1000kg X1(door)	900kg X2(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	Either AC100V~240V						
ENVIRONMENTAL TEMPERATURE	-20℃~+50℃						
VOLUME	60decibel(max.)						
STARTING SPEED	55mm~120mm/second						
STARTING TIMES	0∼64 sec. (regulable)						
TRANSMISSION IMPORTANT CONDITION	ROLLER CHAIN 40-1R						
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						



Running isn't Smooth

broken.

1. Wiring connects fault.

The PROBLEM of the MOTOR

2. Spare parts of the MICRO-CONTROLLER

- 1. Check the distance between Door and Wall / Crossbeam.
- 2. HANGING TWIN-WHEEL is broken.
- 3. The GROUND RAIL is dirty.
- 4. The Door-Leaf becomes deformed.
- 5. Check BLOCK SCREW whether need to adjust.
- 6. The GROUND GUIDE WHEEL is damaged.
- 7. Check the LOCK whether it is broken.
- 8. Check the ALUMINUM COVER whether it isn't fixed.
- 9. There is dirt inside the ALUMINUM PROFILE.

The PROBLEM of the SENSOR

- 1. Check the SENSOR whether it is broken.
- 2. Check the SENSOR whether the wire is broken or short circuit.

Full/Half opening

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

Brake power

When the door leaf is opened, it can be adjusted for braking force. It takes light force when the door leaf is light It takes large force when the door leaf is heavy. The braking force can be easily adjusted to the appropriate level.

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.

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.

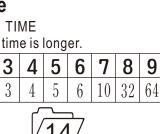
The slowing speed of the door

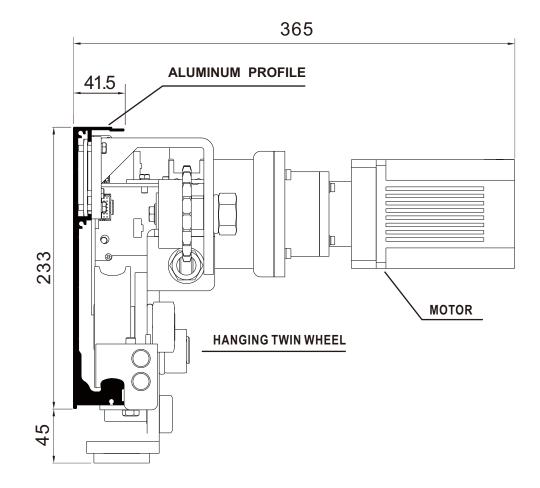
Adjust the SLOW SPEED Higher number, faster speed. CAUTION: please adjust the number one by one from low to high.

Opening hold time

Adjust the HOLD OPEN TIME Higher number, the hold time is longer.

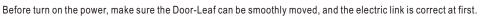
NUMBER	0	1	2	3	4	5	6	7	8	9
SECOND	0	1	2	3	4	5	6	10	32	64





MEASURE: mm



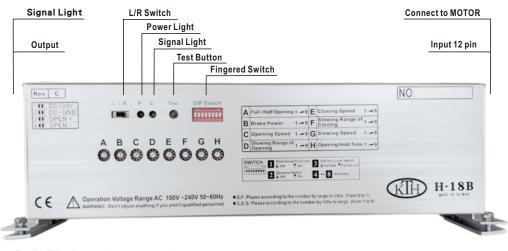


1. SYSTEM PROGRAM REMEMBER

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

2. ADJUST

The FACEPLATE of MICRO-CONTROLLER



Red LED - Power is connected.

Green LED - Input the open door signal.

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

DIP Switch- Pin 1- Directional Function

OFF: Normal mode. Operation <

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

the door.

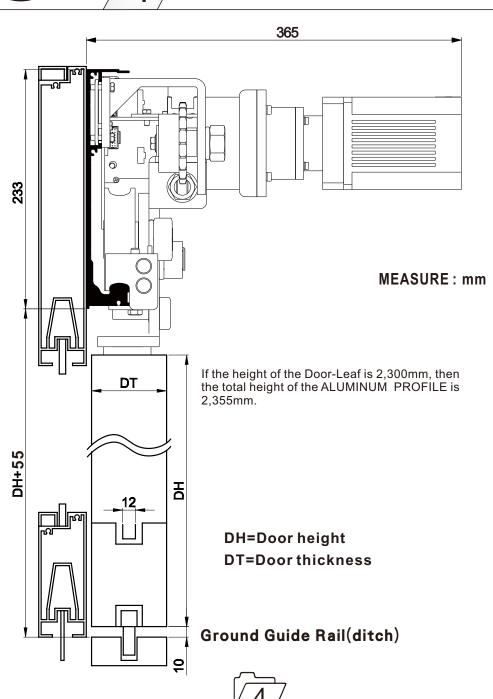
DIP Switch- Pin 2- Reverse Switch: in order to control opening and closing direction of the Door -Leaf after power resumes.

OFF: Normal mode, after power resumes, the Door-Leaf Operation < opens the door first.

> ON: suitable for Security System, after power resumes, the Door-Leaf closes the door first.

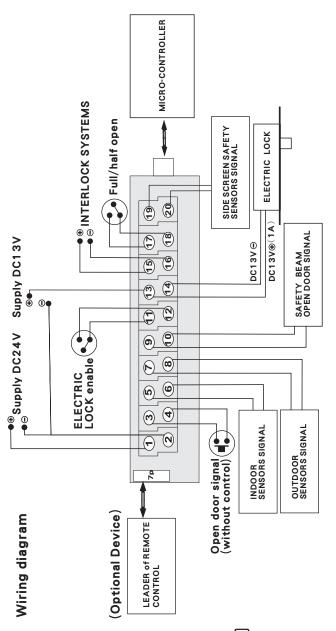
DIP Switch- Pin 3 - Electric lock switch





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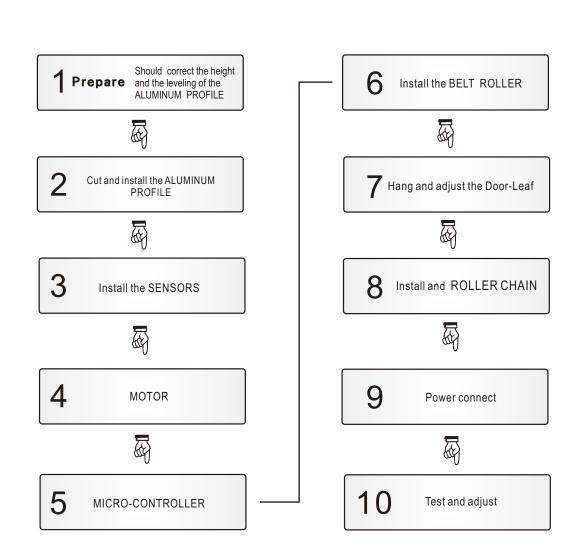


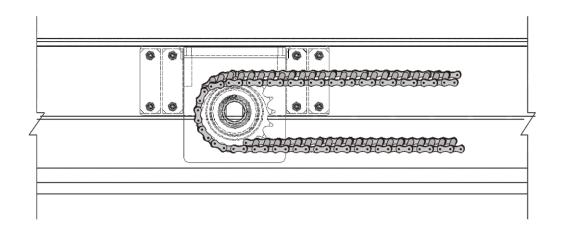
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(A) The FUNCTION of the ELECTRIC LOCK will work when ① and ② are short circuit , then ③ and ④ will output DC13V for ELECTRIC LOCK after the door closes. ③ and ④ will not output DC13V if ① and ② are not short circuit.

(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.





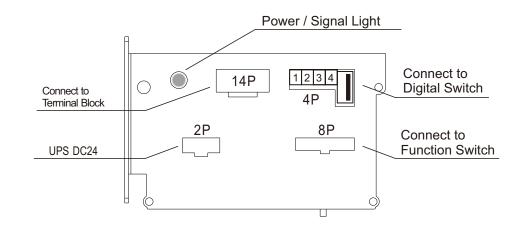
(III) H-18B/

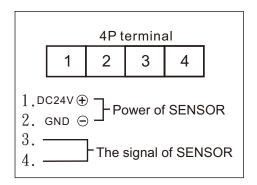
ADJUSTABLE SCREW ACTIVE BRACE

TENSION of ROLLER CHAIN can be adjusted by the ADJUSTABLE SCREW of ROLLER CHAIN.

MICRO-CONTROLLER

Output connect



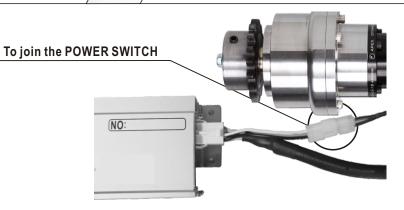




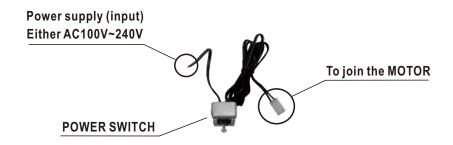


R S

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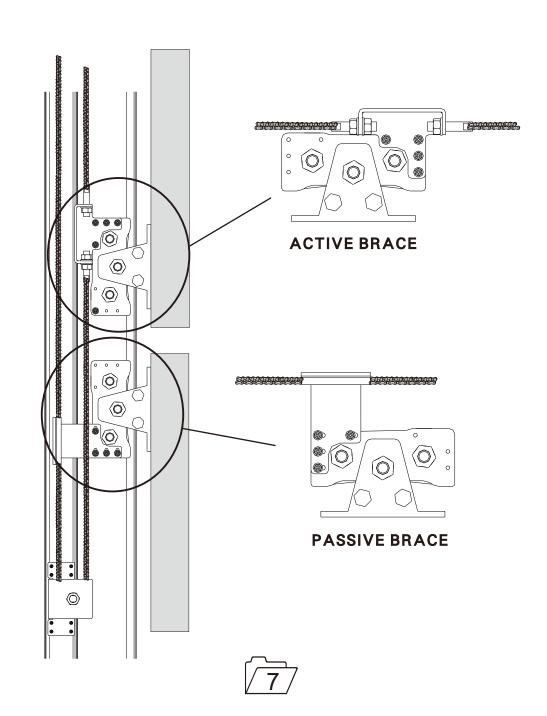
The ILLUSTRATED of CONTROLLER and MOTOR.





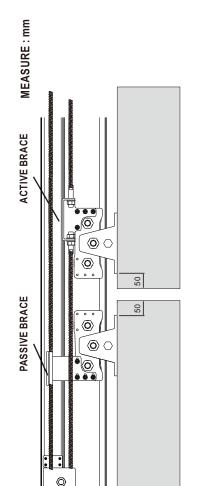
Warning

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.



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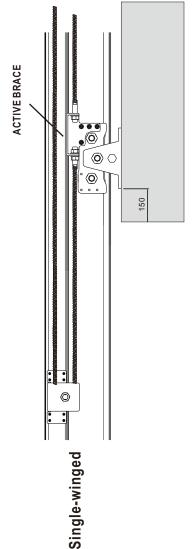
S S



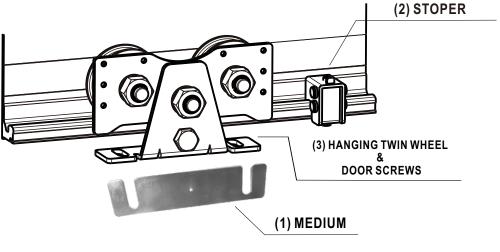
Bi-parting

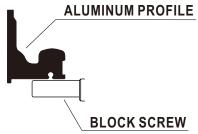
⊮ H-18B

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.





- 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).
- (2) Install above-mentioned (2) after make sure the DOOR OPEN POSITION.