Automatic Door Systems



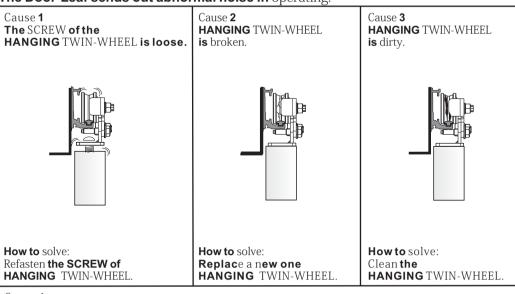
TH-3

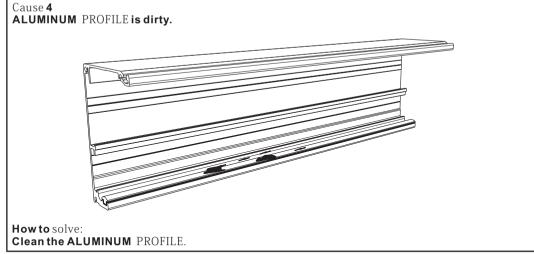
Single-winged / Bi-parting For "Noiseless" aluminum profile use.

OPERATION INSTRUCTION

R S

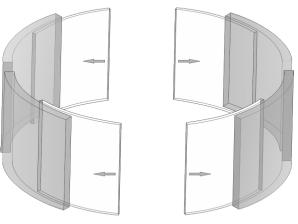
The Door-Leaf sends out abnormal noise in operating.



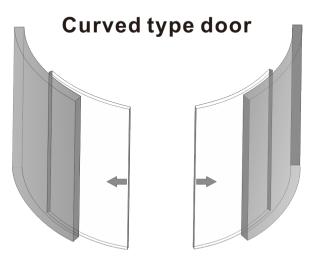


Our company has the following series of automatic door, please contact with our distributors/representations.

Round type door

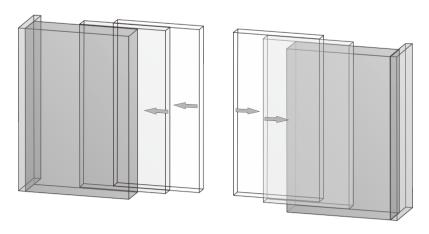


Installation: Please in accordance with the instruction of Round Type Door.



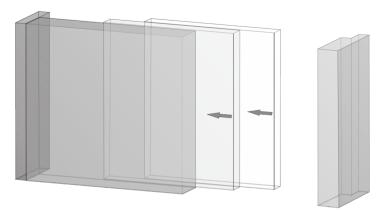
Installation: Please in accordance with the instruction of Curved Type Door.





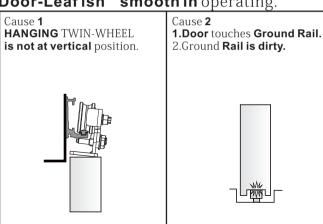
Installation: Please in accordance with the instruction of Telescopic 4-winged Sliding Doors.

Telescopic 2-winged Sliding Doors.



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

Door-Leafisn smooth in operating.

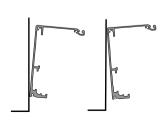


HANGING TWIN-WHEEL.

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

2.Clean up the Ground Rail.

Cause 3 ALUMINUM PROFILE is **not** vertical

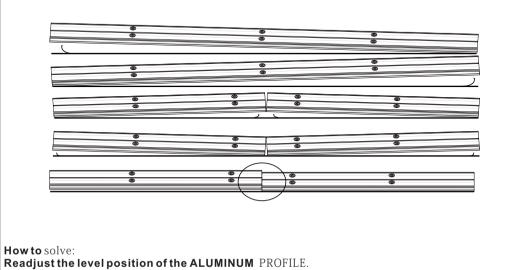


How to solve: Readjust the vertical position of the ALUMINUM PROFILE.

Cause 4 **ALUMINUM PROFILE is not at vertical** position.

How to solve:

Readjust the



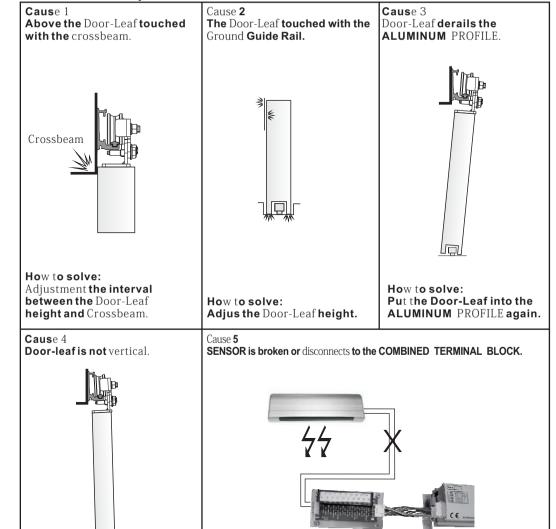


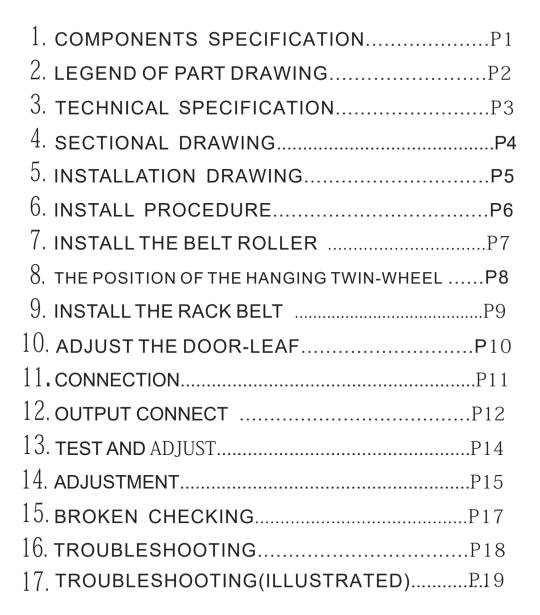
Door can be opened or closed.

How to solve:

Adjust the Ground Guide

Rail/Wheel position.







1.If SENSOR is broken please change a new one.

2.Check SENSOR whether it connects to the COMBINED TERMINAL BLOCK.

How to solve:





MICRO-CONTROLLER

BRUSHLESS DC MOTOR









RACK BELT

SENSORS (OPTIONAL DEVICE)

COMBINED TERMINAL BLOCK

BELT ROLLER

(BI-PARTING)HANGERS & IRON PARTS











HANGING TWIN-WHEEL4 PCS

BELT BRACE

PASSIVE BRACE with BELT FIXER

ACTIVE BRACE with BELT FIXER

HANGING BRACE-4 PCS









GROUND WHEEL -2PCS (OPTIONAL PART)

SCREW-8 PCS

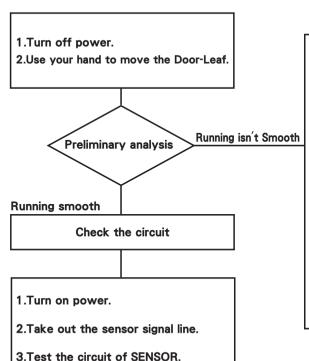
DOOR SCREW-8 PCS

IRON PARTS SACK



DD ODLESSO	DEACONABLE	OHEOK	HOW TO COLVE			
PROBLEMS	REASONABLE		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.			





- 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.

Running check Running isn't Smooth

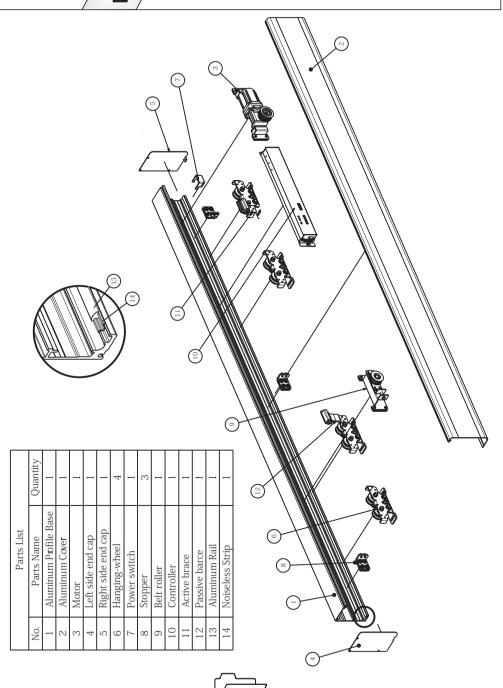
The PROBLEM of the SENSOR

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

ThePROBLEMoftheMOTOR

- 1. Wiring connects fault.
- 2.Spare parts of the MICRO-CONTROLLER broken.







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

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	75	W		
VOLTAGE	AC100	V~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 BE	ELT S8M		
OPENING DOOR RANGE	FULL/HALF-OPEN (regulable)			
PFC POWER EFFICIENCY	0.95(in AC100V Full load)			
TRACTION FORCE	3 kg			



3



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.

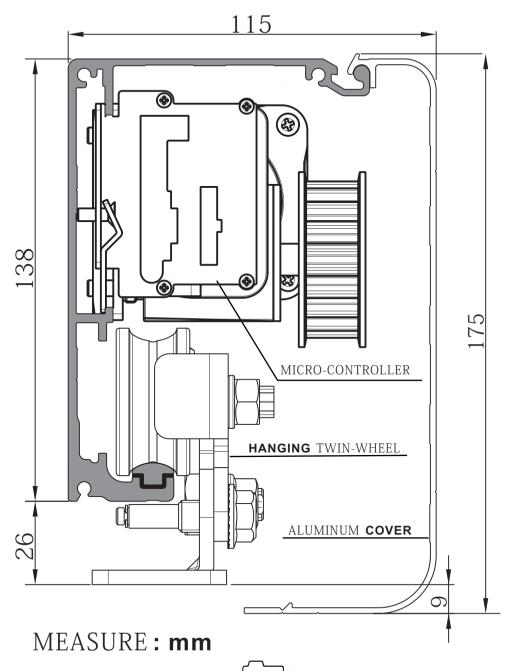
The opening speed of the door

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.





MEASURE: mm DΤ If the height of the Door-Leaf is 2,300mm, then the total height of the ALUMINUM PROFILE is 2.335mm. DH=Door height DT=Door thickness Ground Guide Rail(ditch)

TEST AND ADJUST

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 **Test Button** Connect to MOTOR Input 10 pin Output **Fingered Switch** A Full / Half Opening 1-9 E Closing Speed 1-9 TH-3



DIP Switch

☐ Directional function

Signal Light

☐ OFF ☐ ON

OFF: Normal mode.

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

3 Electric lock switch



3

4 ~ 8 Standby

2 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.

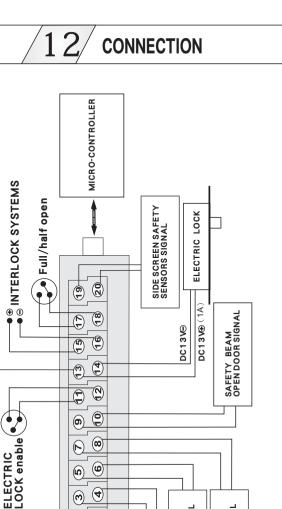
ON: suitable for Security System, after power resumes the Door-Leaf closes the door first.





6

28 85



Supply DC13V

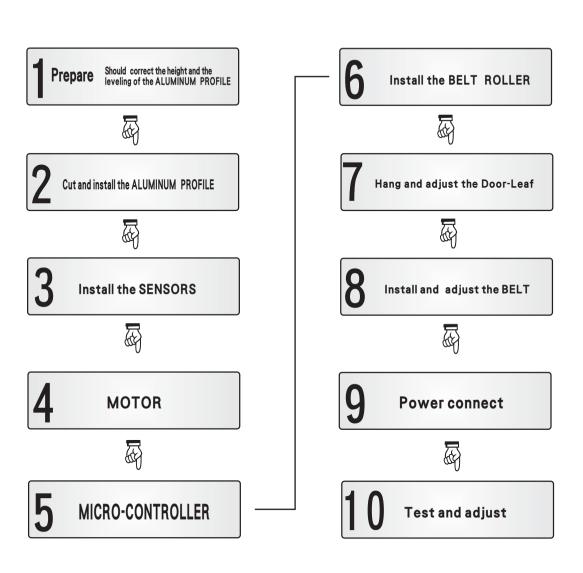
●● Supply DC24V

Wiring diagram

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

(B) The SIGNAL of the SAFETY BEAM is controlled by ③ and ⑩ . When door is opening and running, ⑤ and ⑪ keep to accept the signal, then the SAFETY BEAM will be working. ⑤ and ⑪ 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.





OUTDOOR SENSORS SIGNAL

INDOOR SENSORS SIGNAL

Open door signal (without control)

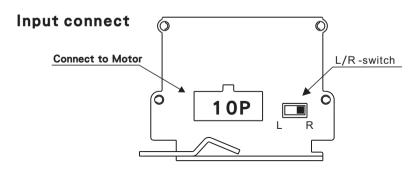
(O)

LEADER of REMOTE CONTROL

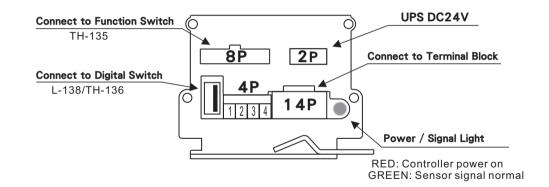
(Optional Device)



MICRO-CONTROLLER



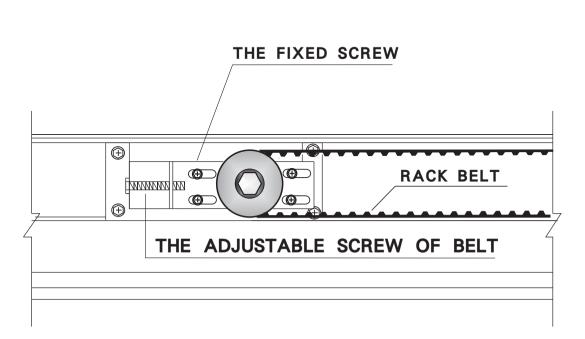
Output connect



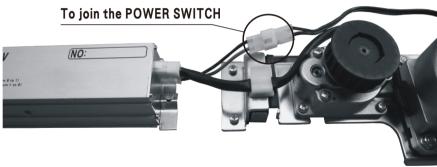
4P terminal

1 2 3 4

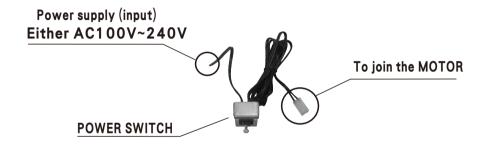
1.DC24V
2.GND \ominus Power of SENSOR
3.
4. The signal of SENSOR



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



The ILLUSTRATED of CONTROLLER and MOTOR.

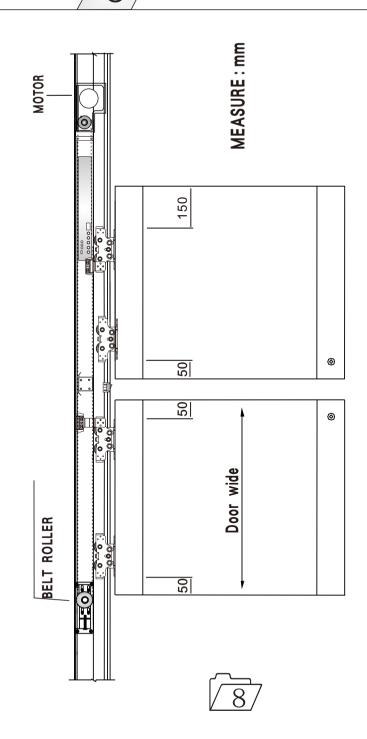




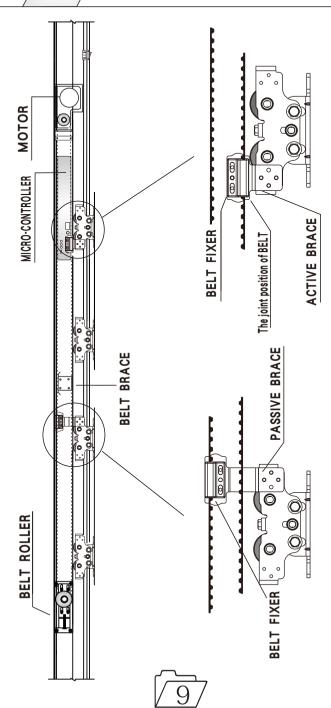
Warning

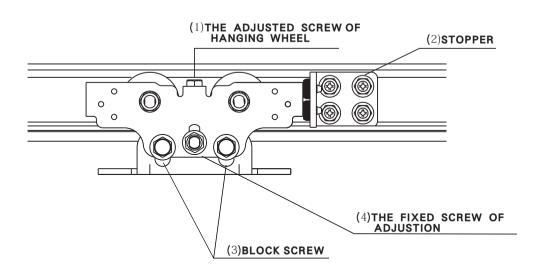
Please confirm WHETHER the SENSOR VOLTAGE is the same as the power supply. If different between them, need to add the TRANSFORMER, otherwise the SENSOR would be burned.

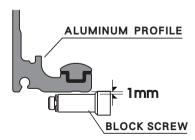




Inside the room, the distance between the "right side hanging-wheel" and "the edge of door" must be more than $150\,\mathrm{mm}$.







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

