# **Automatic Door Systems**



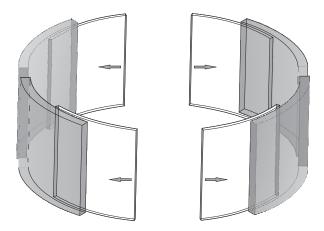
http://www.kthtw.com e-mail: kth@kthtw.com

**OPERATION INSTRUCTION** 

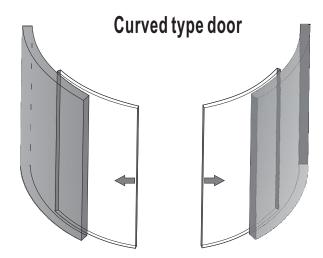
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Our company has the following series of automatic door, please contact with our distributors/representations.

#### Round type door



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



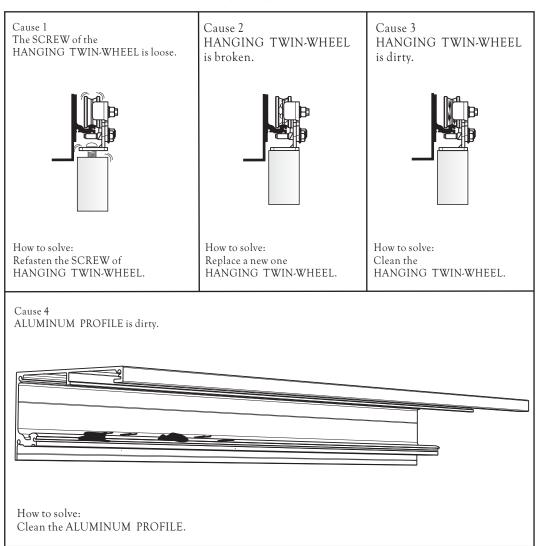
KIH TH-3S

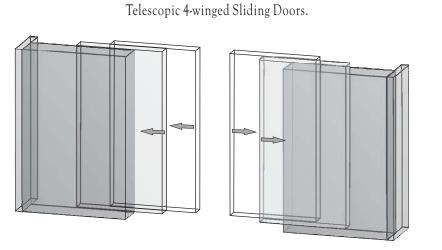
# TELESCOPIC SLIDING DOORS $\frac{2}{3}$



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The Door-Leaf sends out abnormal noise in operating.





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

Telescopic 2-winged Sliding Doors.



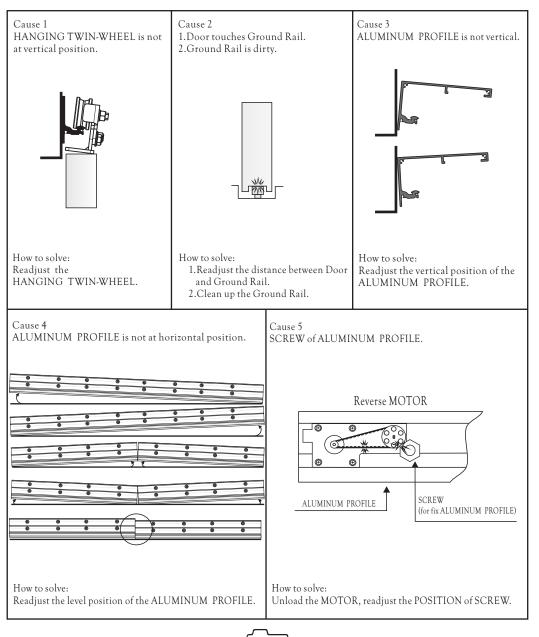
Installation: Please in accordance with the instruction of Telescopic 2-winged Sliding Doors.



### 16 troubleshooting

Door-Leaf isn't smooth in operating.

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#### TABLE OF CONTENTS

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1.	COMPONENTS SPECIFICATION
2.	TECHNICAL SPECIFICATIONP2
3.	SECTIONAL DRAWINGP3
4.	INSTALLATION DRAWINGP4
5.	INSTALL PROCEDURE
6.	INSTALL THE BELT ROLLERP6
_	THE POSITION OF THE HANGING TWIN-WHEEL
8.	INSTALL THE RACK BELT
9.	ADJUST THE DOOR-LEAF
	CONNECTION (MOTOR)P10
1.	CONNECTIONP11
2.	TEST AND ADJUSTP13
3.	ADJUSTMENTP14
-	BROKEN CHECKINGP16
	TROUBLESHOOTINGP17
	TROUBLESHOOTING(ILLUSTRATED)P18

COMPONENTS SPECIFICATION
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6 TROUBLESHOOTING (KIH) TH-3S

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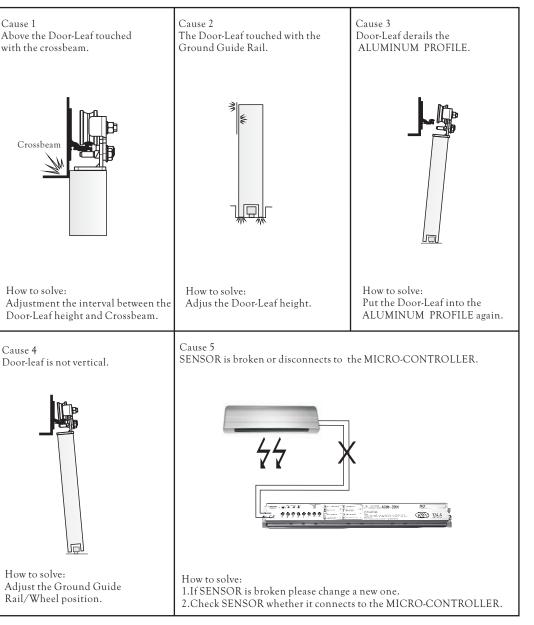
Door cant be opened or closed.

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(KIH) TH-3S



## /15 / troubleshooting

KIH TH-3S

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TH-3S /2/ TECHNICAL SPECIFICATION

PROBLEMS	REASONABLE	СНЕСК	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.		

ТҮРЕ	TH-3				
MODEL	SINGLE-WINGED	<b>BI-PARTING</b>			
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 BRUS	HLESS DC MOTOR			
CONTROL	STANDARD MICRO-CONTROLLER				
POWER CONSUMPTION	75W				
VOLTAGE	AC100V~240V				
ENVIRONMENTAL TEMPERATURE	-20°C~+50°C				
VOLUME	60decib	el(max.)			
STARTING SPEED	600mm(second)	550mm X 2 (second)			
STARTING TIMES	0~20 sec. (regulable)				
TRANSMISSION IMPORTANT CONDITION	RACK BELT S8M				
OPENING DOOR RANGE	NG DOOR RANGE FULL/HALF-OPEN (regulable)				
<b>PFC</b> POWER EFFICIENCY	OWER EFFICIENCY 0.95(in AC100V Full load)				
TRACTION FORCE	ACTION FORCE 3 kg				

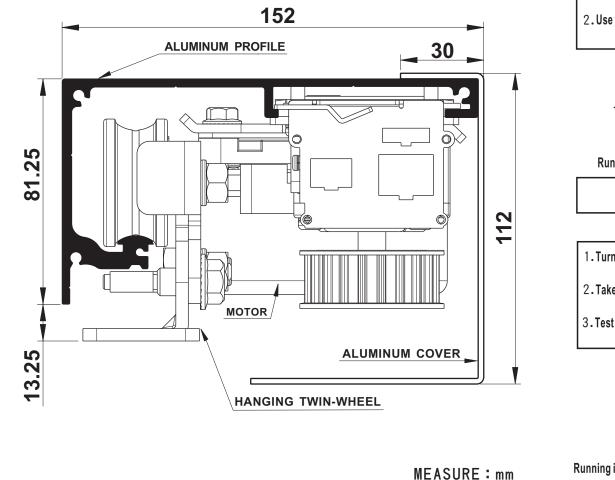


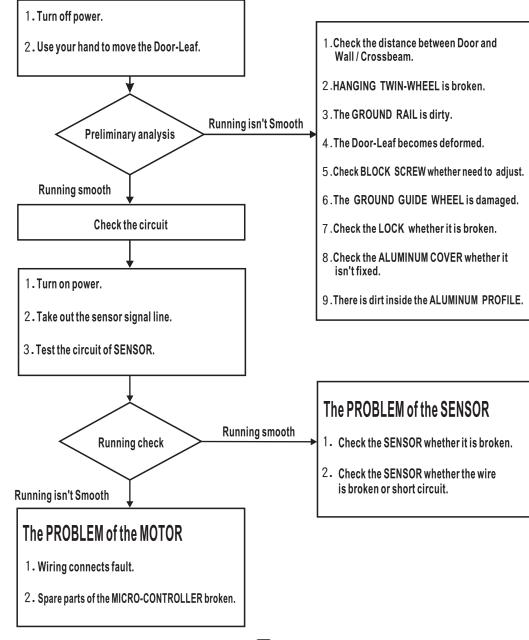
#### (III) TH-3S /3 / SECTIONAL DRAWING

TH-3S /14/ broken checking

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#### **ADJUSTMENT** (KIH) TH-3S 3



**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. 28



**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.

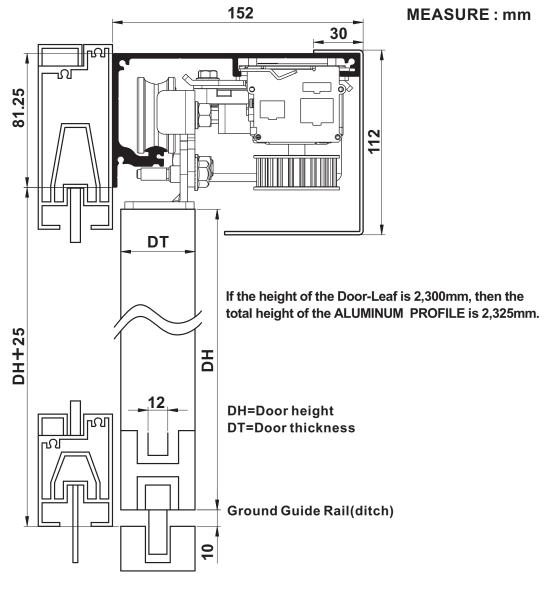
# Opening hold time

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	15	20

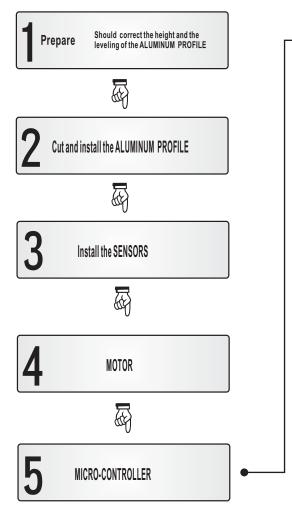






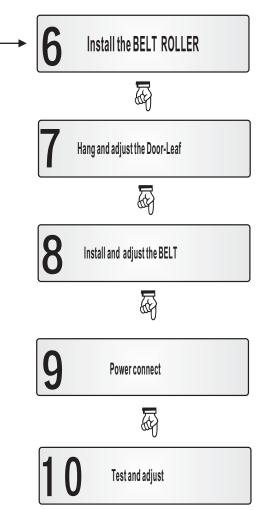


#### **INSTALL PROCEDURE**



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KIH TH-3S



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#### 13 (KIH) TH-3S **ADJUSTMENT**

# **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. 68 80



## 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.



### 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.





**TEST AND ADJUST** 

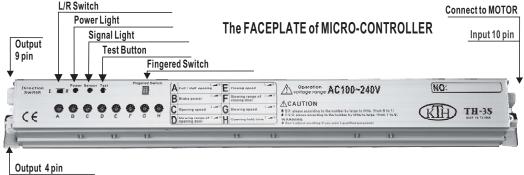
Before turn on the power, make sure the Door-Leaf can be smoothly moved, and the electric link is correct at first.

#### **1.SYSTEM PROGRAM REMEMBER**

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

#### 2.ADJUST

(KIH) TH-3S



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).

#### **Fingered Switch- Pin 1- Directional Function**

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

Fingered 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 opens the door first. ON: suitable for Security System, after power resumes, the Door-Leaf closes the door first. TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.

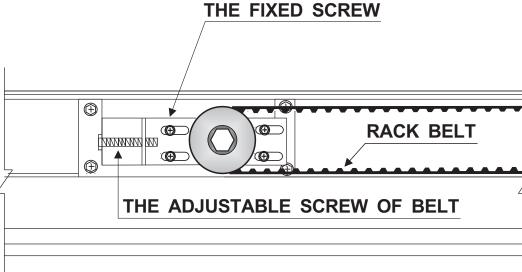




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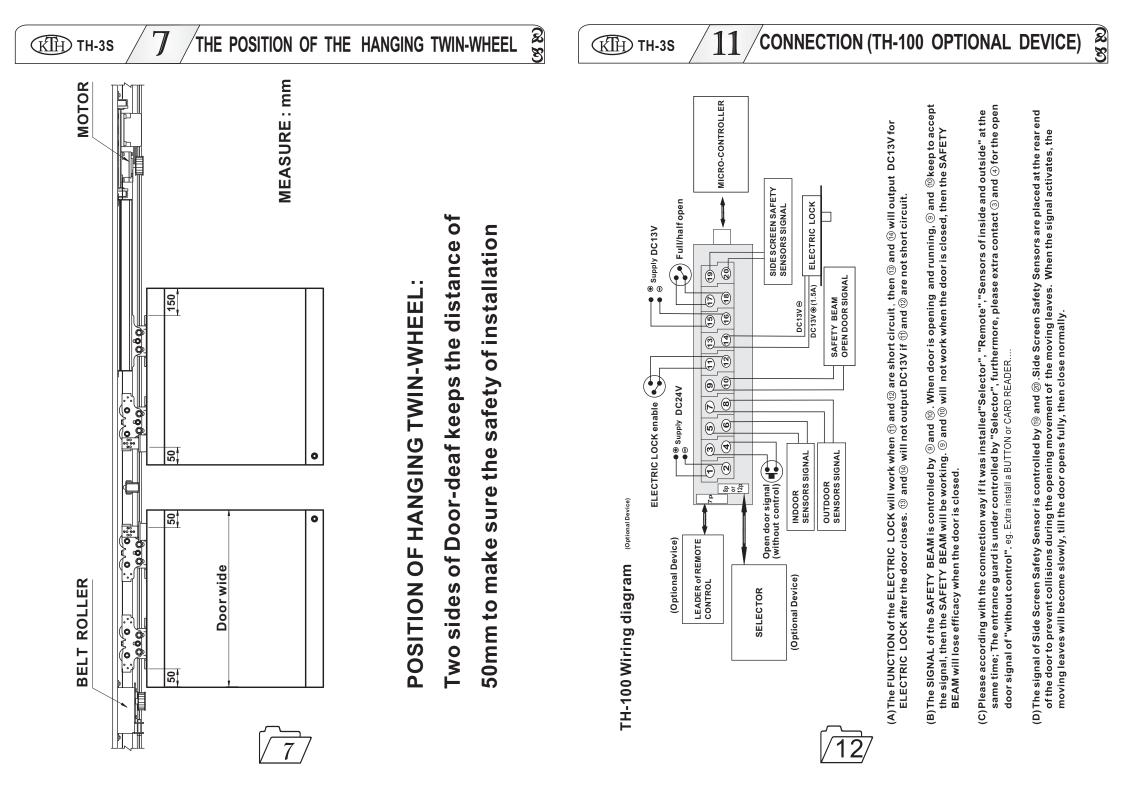
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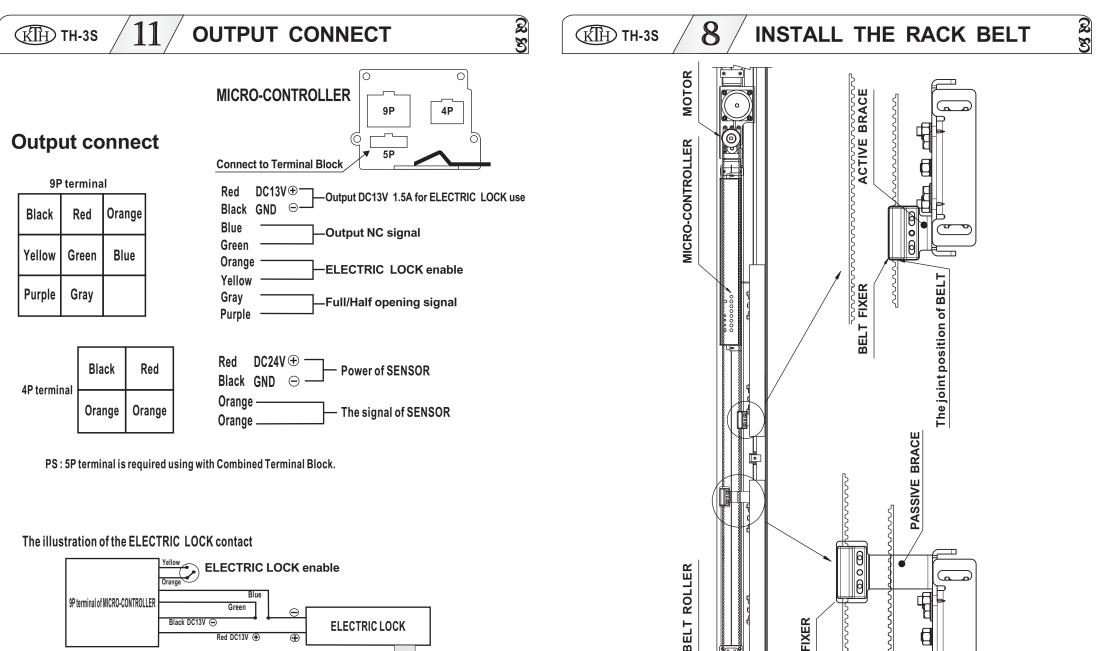


INSTALL THE BELT ROLLER

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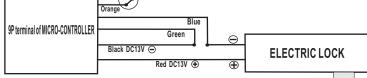




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**BELT FIXER** 

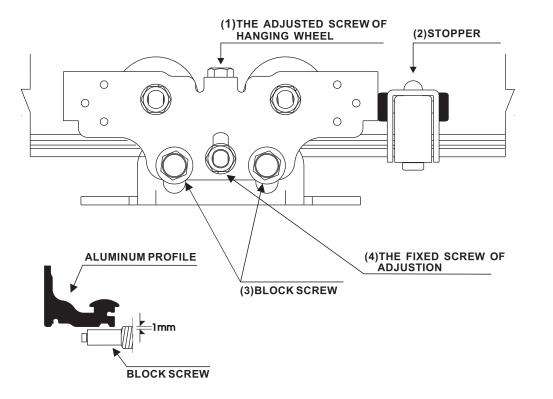


PS: After the orange and the yellow lines are short circuit, the blue and the green lines would output NC signal.

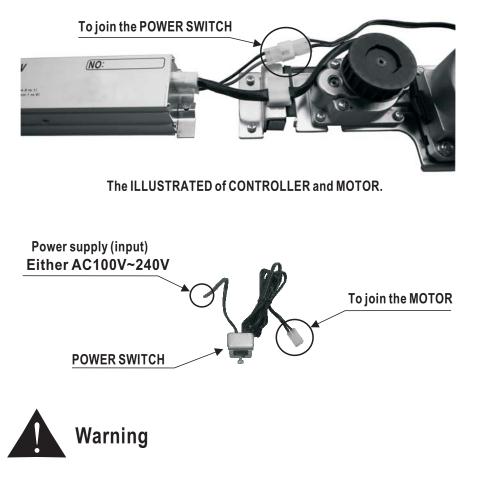
# TH-3S 9 ADJUST THE DOOR-LEAF



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



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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.



