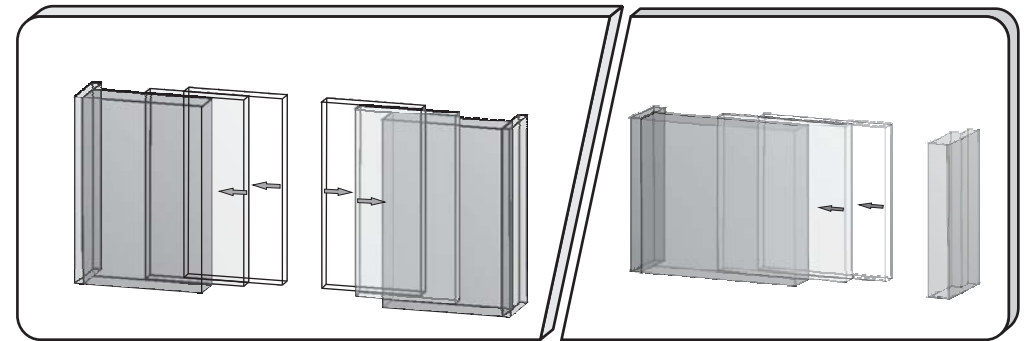


Automatic Door Systems



AD - W2



Telescopic 4-winged Sliding doors

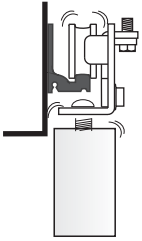
Telescopic 2-winged Sliding doors

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

OPERATION INSTRUCTION

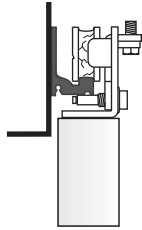
The Door-Leaf sends out abnormal noise in operating.

Cause 1
The SCREW of the
HANGING TWIN-WHEEL is loose.



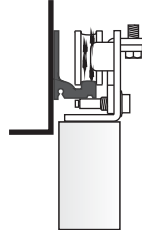
How to solve:
Refasten the SCREW of
HANGING TWIN-WHEEL.

Cause 2
HANGING TWIN-WHEEL
is broken.



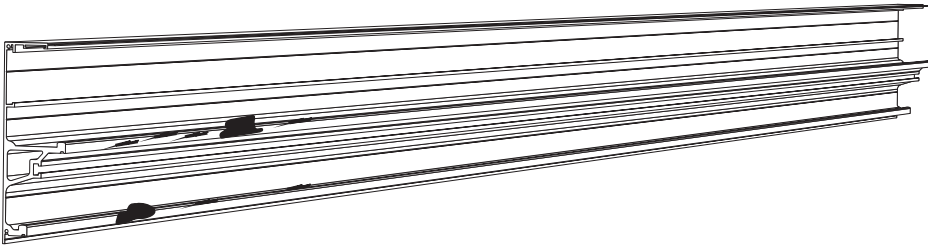
How to solve:
Replace a new one
HANGING TWIN-WHEEL.

Cause 3
HANGING TWIN-WHEEL
is dirty.



How to solve:
Clean the
HANGING TWIN-WHEEL.

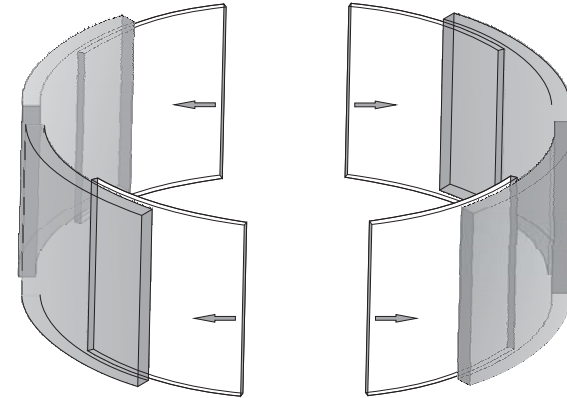
Cause 4
ALUMINUM PROFILE is dirty.



How to solve:
Clean the ALUMINUM PROFILE.

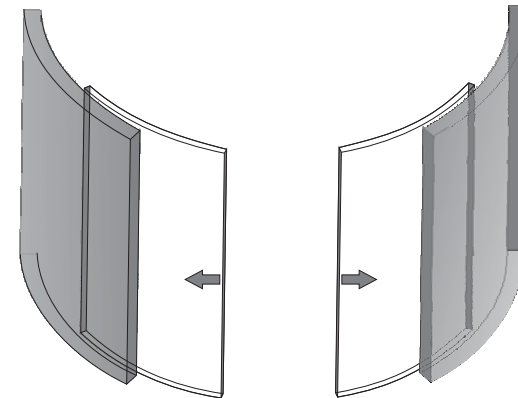
Our company has the following series of automatic door, please contact with our distributors/representations.

Round type door



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

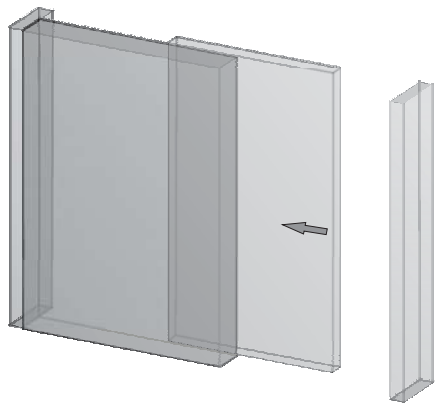
Curved type door



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

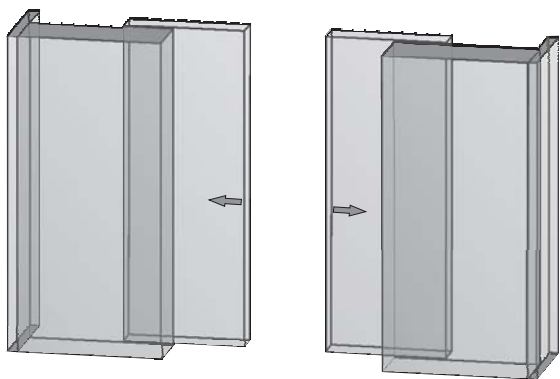
Our company has the following series of automatic door, please contact with our distributors/representations.

SINGLE-WINGED



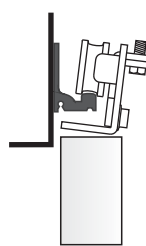

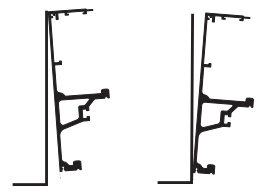
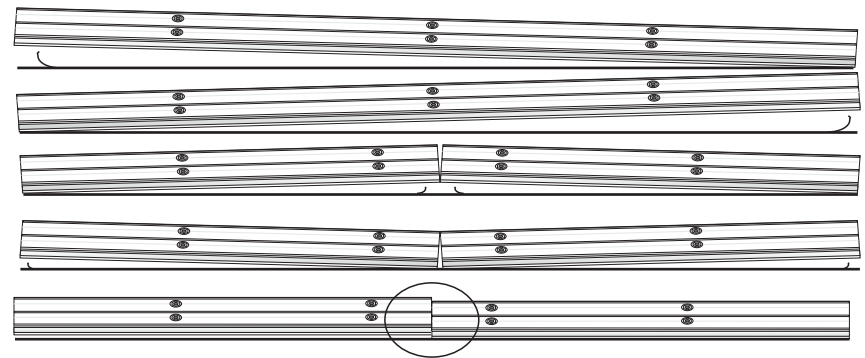
Installation: Please in accordance with the instruction of Sliding Door.

BI-PARTING

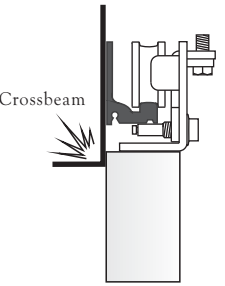

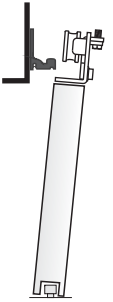
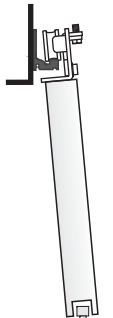
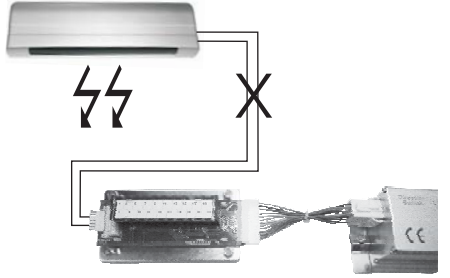


Installation: Please in accordance with the instruction of Sliding Door.

Door-Leaf isn't smooth in operating.

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

Door can't be opened or closed.

<p>Cause 1 Above the Door-Leaf touched with the crossbeam.</p>  <p>How to solve: Adjustment the interval between the Door-Leaf height and Crossbeam.</p>	<p>Cause 2 The Door-Leaf touched with the Ground Guide Rail.</p>  <p>How to solve: Adjust the Door-Leaf height.</p>	<p>Cause 3 Door-Leaf details the ALUMINUM PROFILE.</p>  <p>How to solve: Put the Door-Leaf into the ALUMINUM PROFILE again.</p>
<p>Cause 4 Door-leaf does not vertical.</p>  <p>How to solve: Adjust the Ground Guide Rail/Wheel position.</p>	<p>Cause 5 SENSOR is broken or disconnects to the COMBINED TERMINAL BLOCK.</p>  <p>How to solve: 1.If SENSOR is broken please change a new one. 2.Check SENSOR whether it connects to the COMBINED TERMINAL BLOCK.</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 OF 2-WINGED.....P8

9.INSTALL THE RACK BELT OF 4-WINGED.....P9

10.AJUST THE DOOR-LEAF.....P10

11.CONNECTION.....P11

12.CONNECTION(OPTIONAL DEVICE).....P12

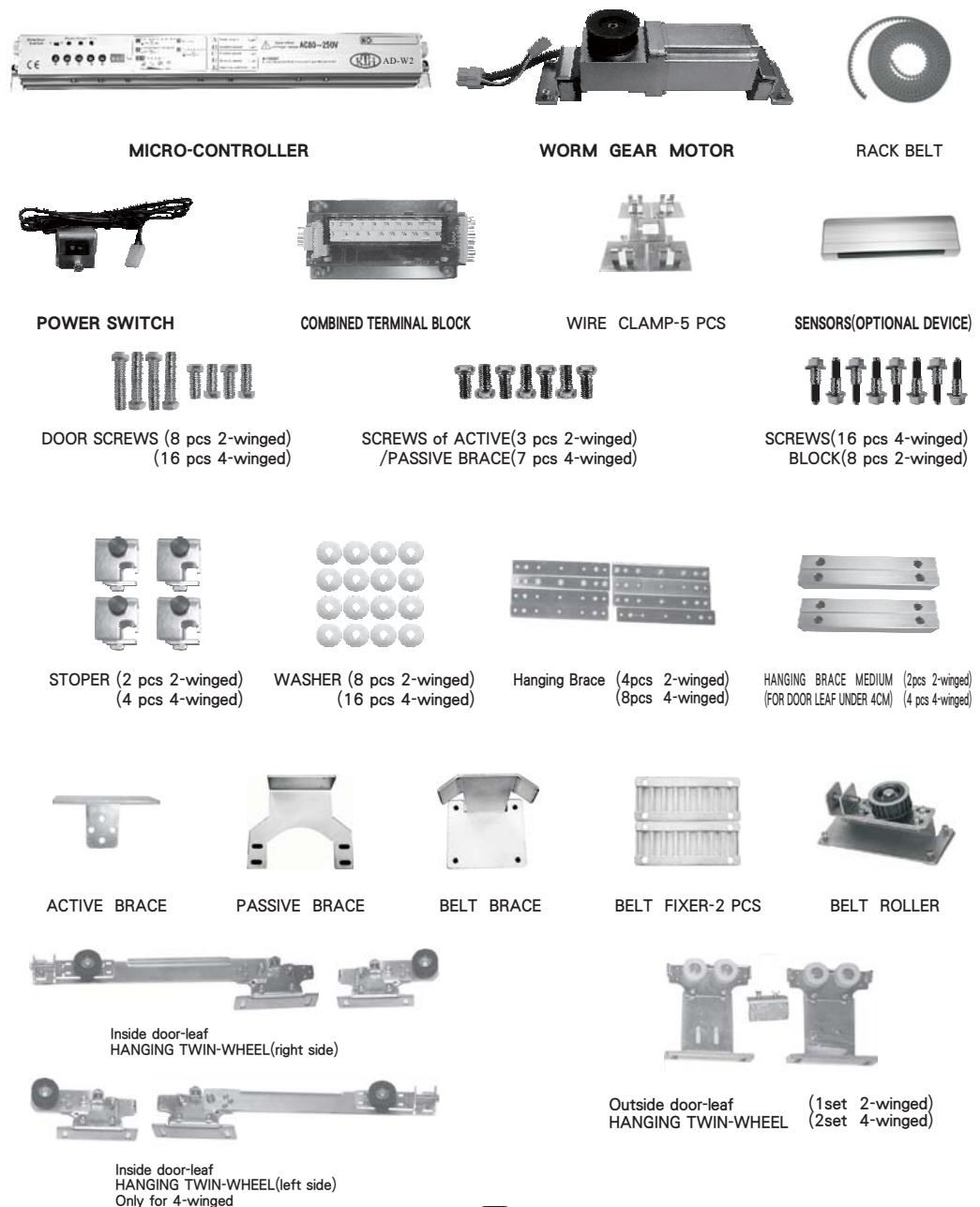
13.TEST AND ADJUST.....P14

14.AJUSTMENT.....P15

15.BROKEN CHECKING.....P17

16.TROUBLESHOOTING.....P18

17.TROUBLESHOOTING(ILLUSTRATED).....P19



MICRO-CONTROLLER

WORM GEAR MOTOR

RACK BELT

POWER SWITCH

COMBINED TERMINAL BLOCK

WIRE CLAMP-5 PCS

SENSORS(OPTIONAL DEVICE)

DOOR SCREWS (8 pcs 2-winged)
(16 pcs 4-winged)

SCREWS of ACTIVE(3 pcs 2-winged)
/PASSIVE BRACE(7 pcs 4-winged)

SCREWS(16 pcs 4-winged)
BLOCK(8 pcs 2-winged)

STOPER (2 pcs 2-winged)
(4 pcs 4-winged)

WASHER (8 pcs 2-winged)
(16 pcs 4-winged)

Hanging Brace (4pcs 2-winged)
(8pcs 4-winged)

HANGING BRACE MEDIUM (2pcs 2-winged)
(FOR DOOR LEAF UNDER 4CM) (4 pcs 4-winged)

ACTIVE BRACE

PASSIVE BRACE

BELT BRACE

BELT FIXER-2 PCS

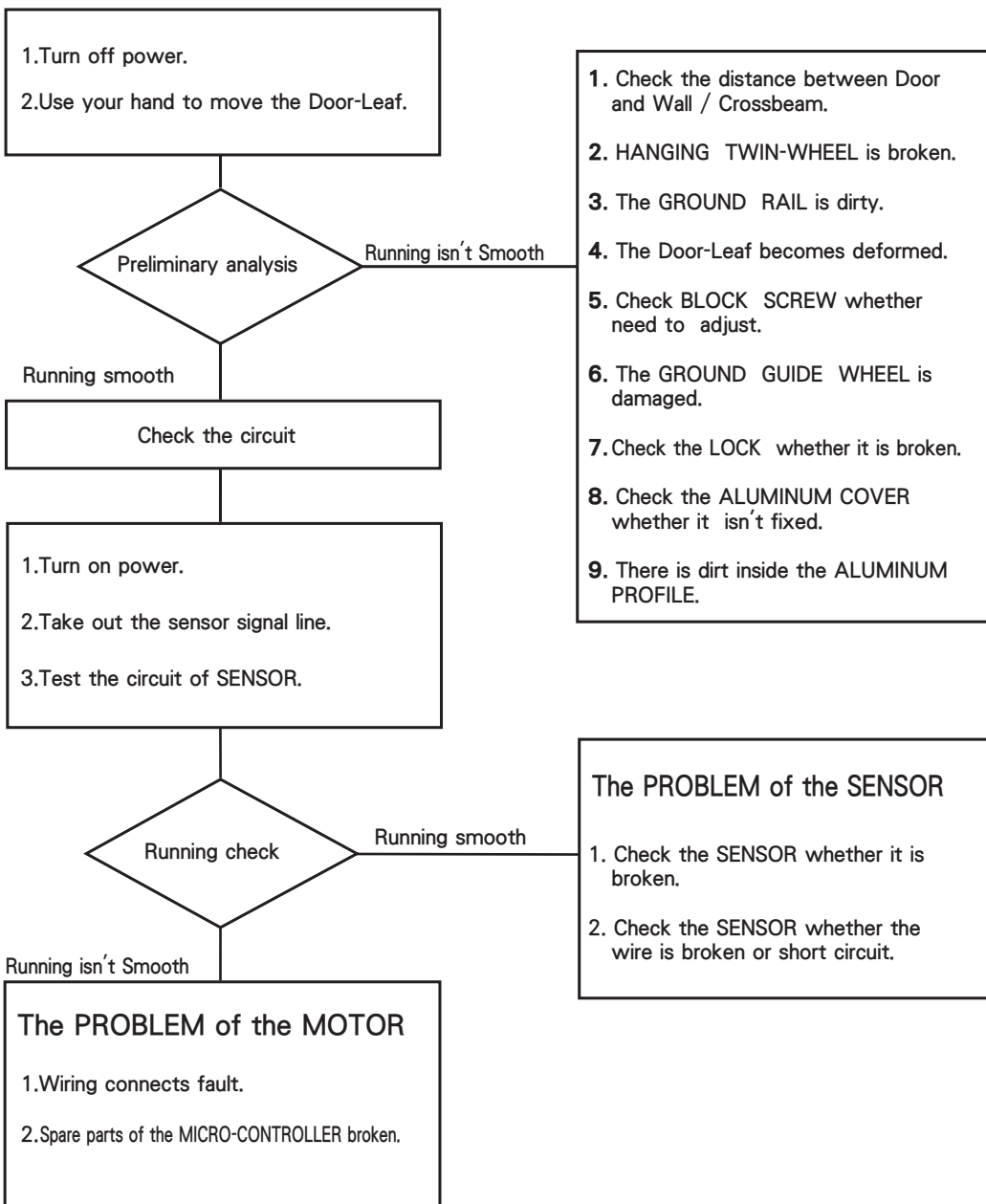
BELT ROLLER

Inside door-leaf
HANGING TWIN-WHEEL(right side)

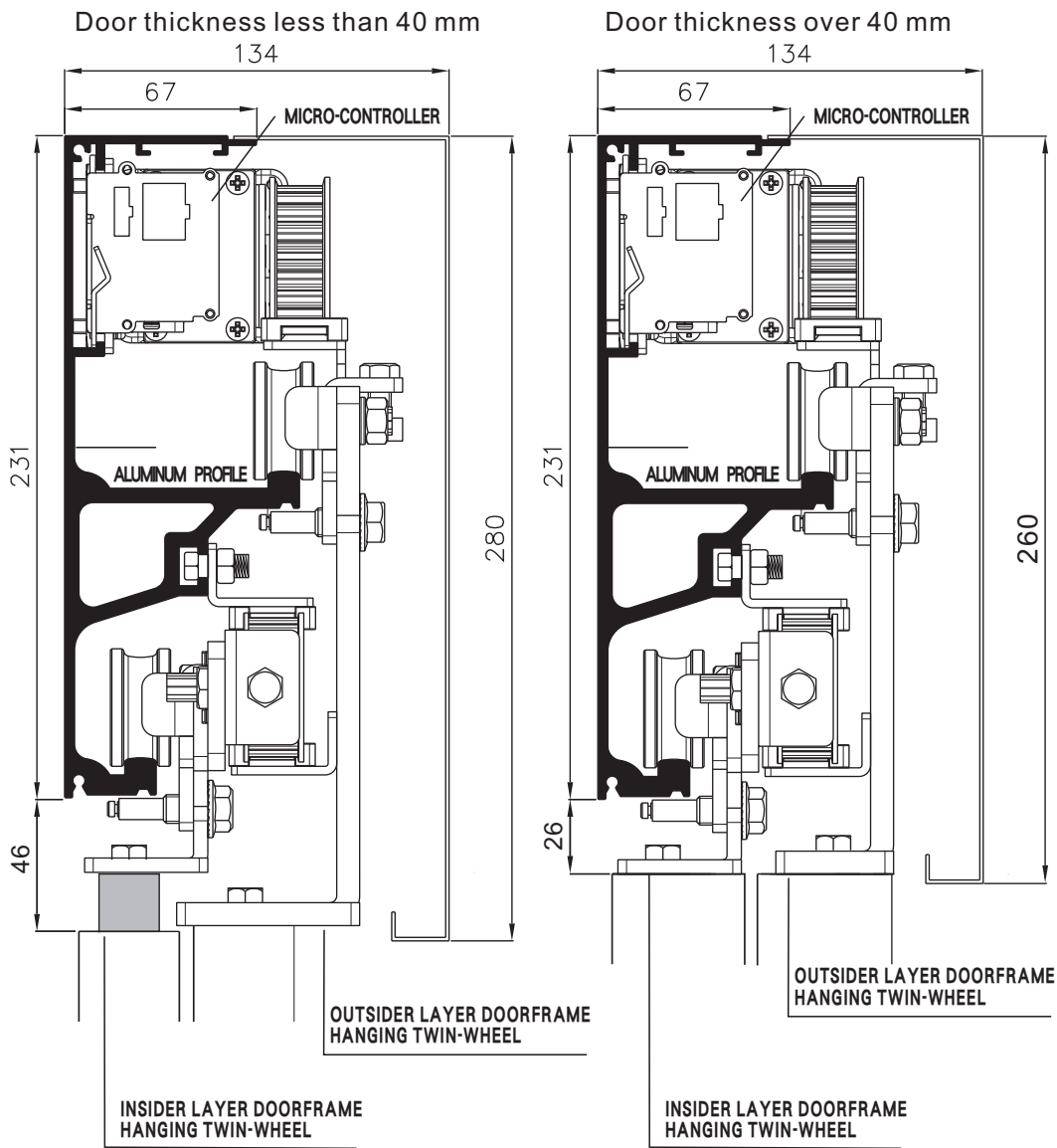
Outside door-leaf (1set 2-winged)
HANGING TWIN-WHEEL (2set 4-winged)

Inside door-leaf
HANGING TWIN-WHEEL(left side)
Only for 4-winged

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.	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.	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.
		3.Door is difficult to move.	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	AD-W2	
MODEL	Telescopic 2-winged	Telescopic 4-winged
DOOR WEIGHT	130kg X2(door)	90kg X4(door)
DOOR WIDTH	DW=500mm~3000mm	DW=500mm~3000mm
INSTALL WAY	Surface install	Surface install
MOTOR	DC24V 75W WORM GEAR MOTOR	
CONTROL	USER-FRIENDLY MICRO-CONTROLLER	
POWER CONSUMPTION	75W	
VOLTAGE	AC100V~240V	
ENVIRONMENTAL TEMPERATURE	-20°C~+50°C	
VOLUME	60decibel(max.)	
STARTING SPEED	650mm(second)	600mm(second)
STARTING TIMES	0~20 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



D 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.



E 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



Fingered Switch

1 2 3 4 5 6

1 Slowing range of opening door



5 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.

2 Slowing range of closing door



3 4 Open incomplete



6 Directional function



Operation

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

The Slowing Range of Opening and Closing Door is controlled by "Fingered Switch". There are two kinds of choice: SHORT and LONG range. (The setting of production is SHORT range).

When USER regulates the Speed the Range and the Brake; it will start to accord what USER sets after twice running.

A Brake power

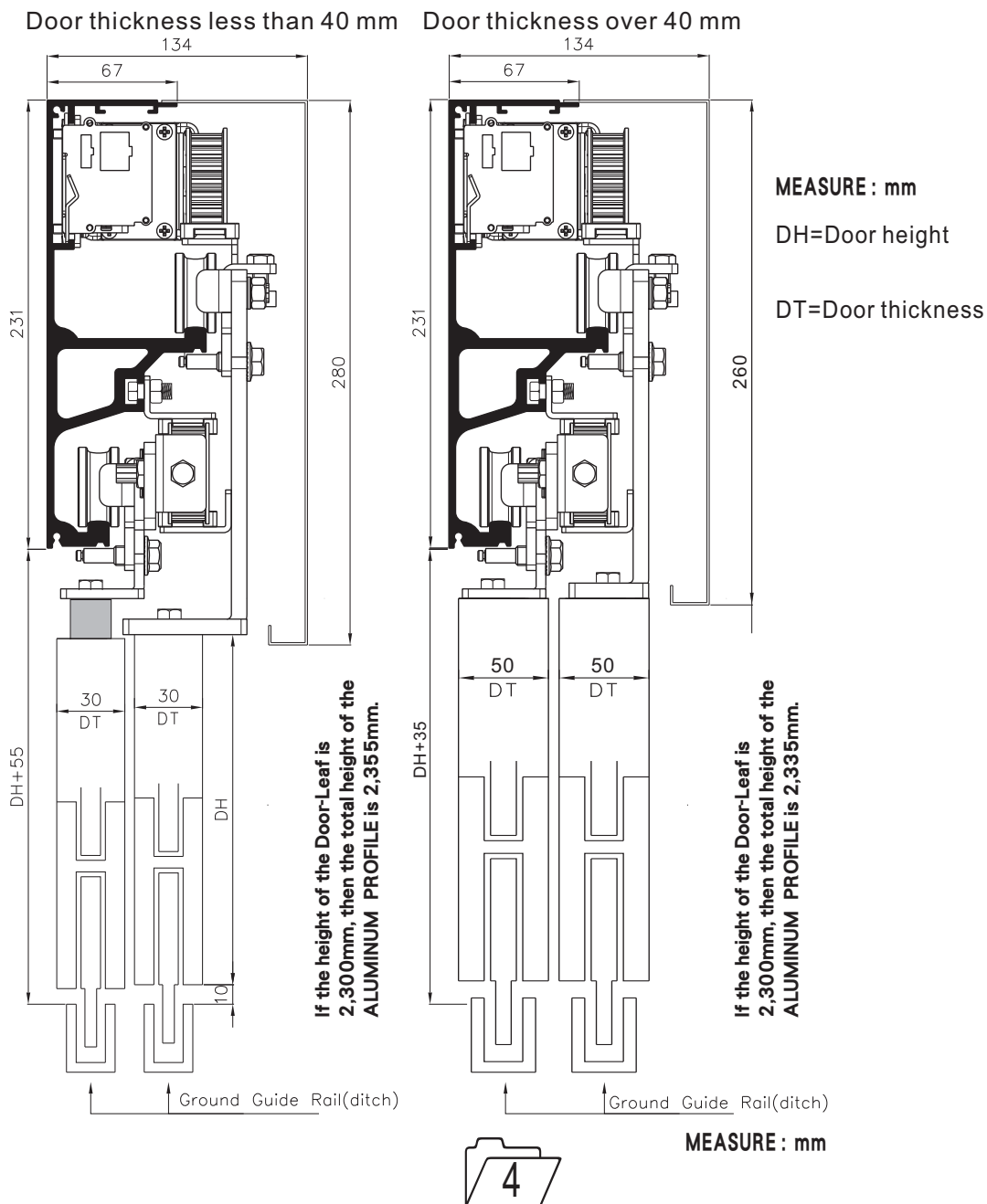
The Door-Leaf is slight, the BRAKE POWER is less. Please choose 0~2 if the Door-Leaf is under 50kg. Please adjust number from number 5 if the Door-Leaf is over 80kg.

B 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.

C 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.



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



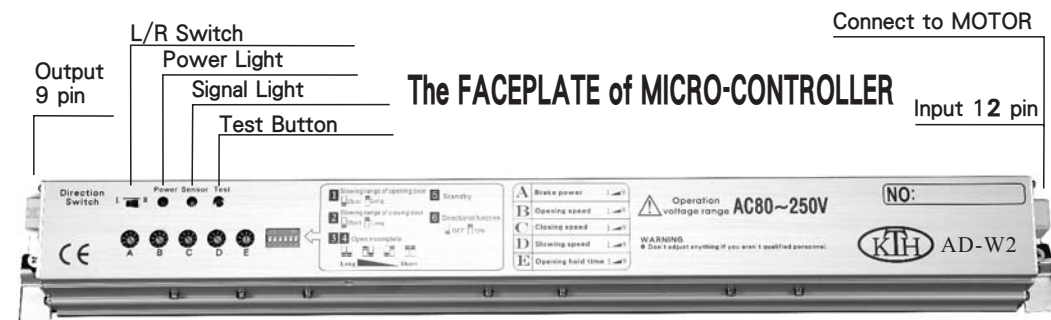
10 Test and adjust

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.

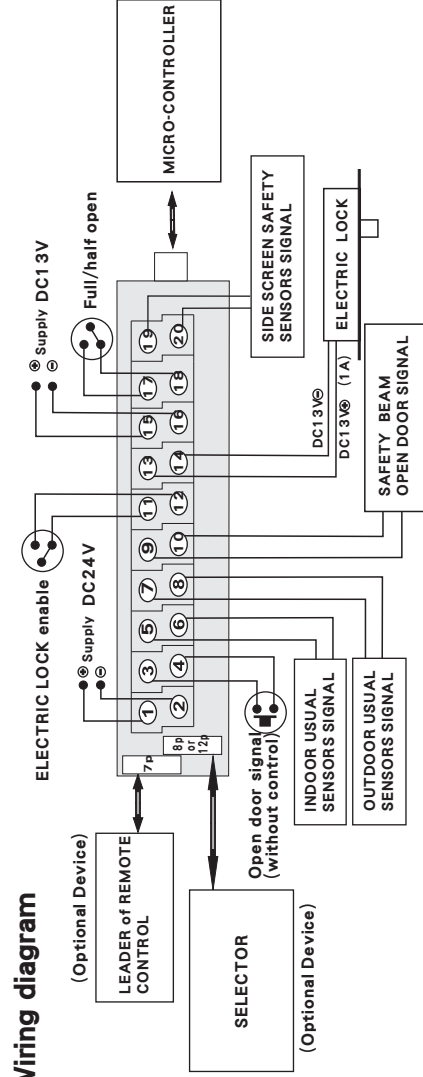
2.ADJUST



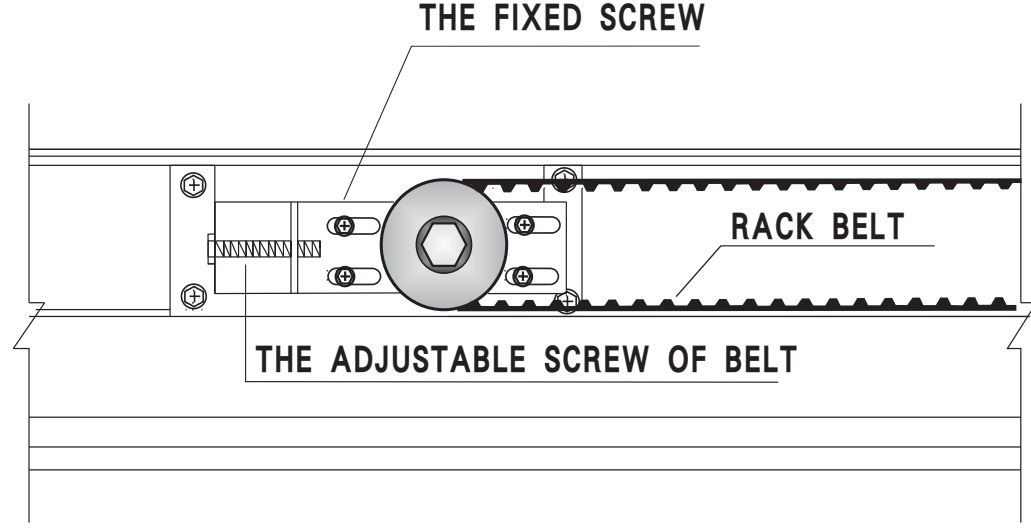
Red LED– Power is connected.

Green LED– Input the open door signal.

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

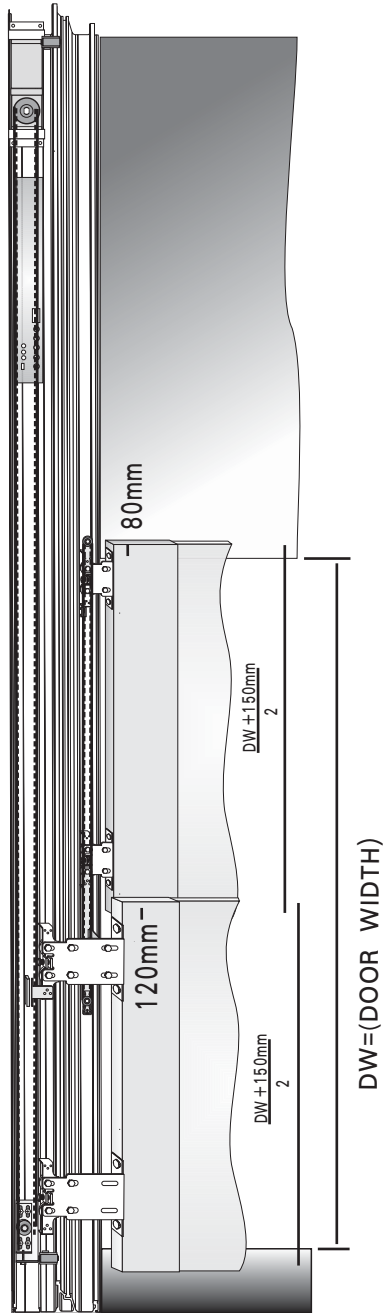


- (A) The FUNCTION of the ELECTRIC LOCK will work when ① and ② are short circuit, then ⑬ and ⑭ will output DC13V for ELECTRIC LOCK after the door closes. ⑬ and ⑭ will not output DC13V if ⑩ and ⑪ are not short circuit.
- (B) The SIGNAL of the SAFETY BEAM is controlled by ⑤ and ⑥. When door is opening and running, ⑤ and ⑥ keep to accept the signal, then the SAFETY BEAM will be working. ⑤ and ⑥ will not work when the door is closed, then the SAFETY BEAM will lose efficacy when the door is closed.
- (C) Please according with the connection way if it was installed "Selector", "Remote", "Sensors of inside and outside" at the same time; The entrance guard is under controlled by "Selector", furthermore, please extra contact ③ and ④ for the open door signal of "without control". eg. Extra install a BUTTON or CARD READER....
- (D) 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.

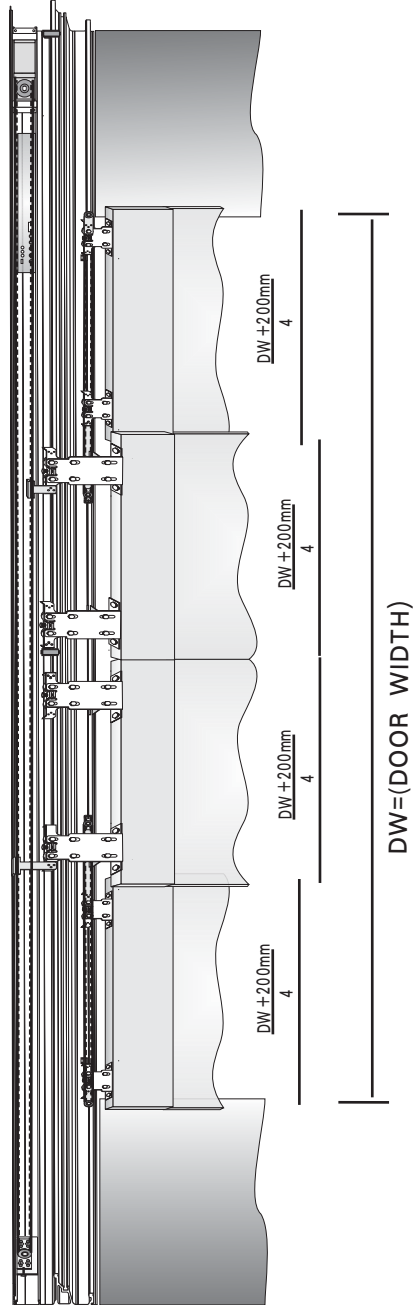


TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.

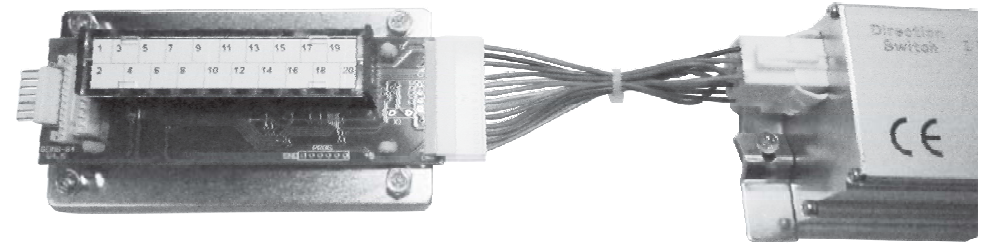
TELESCOPIC 2-WINGED
SLIDING DOORS



TELESCOPIC 4-WINGED
SLIDING DOORS

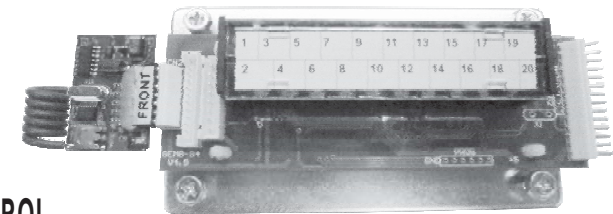


The ILLUSTRATION of WIRING.



COMBINED TERMINAL BLOCK

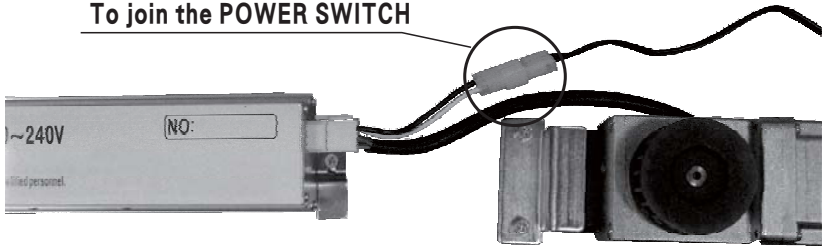
MICRO-CONTROLLER



REMOTE CONTROL

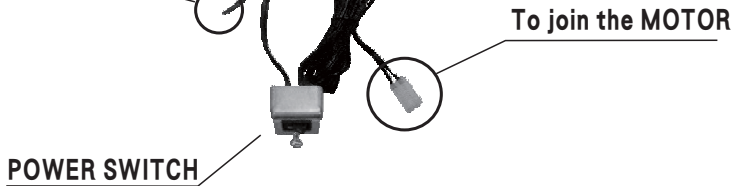
COMBINED TERMINAL BLOCK

To join the POWER SWITCH



The ILLUSTRATED of CONTROLLER and MOTOR.

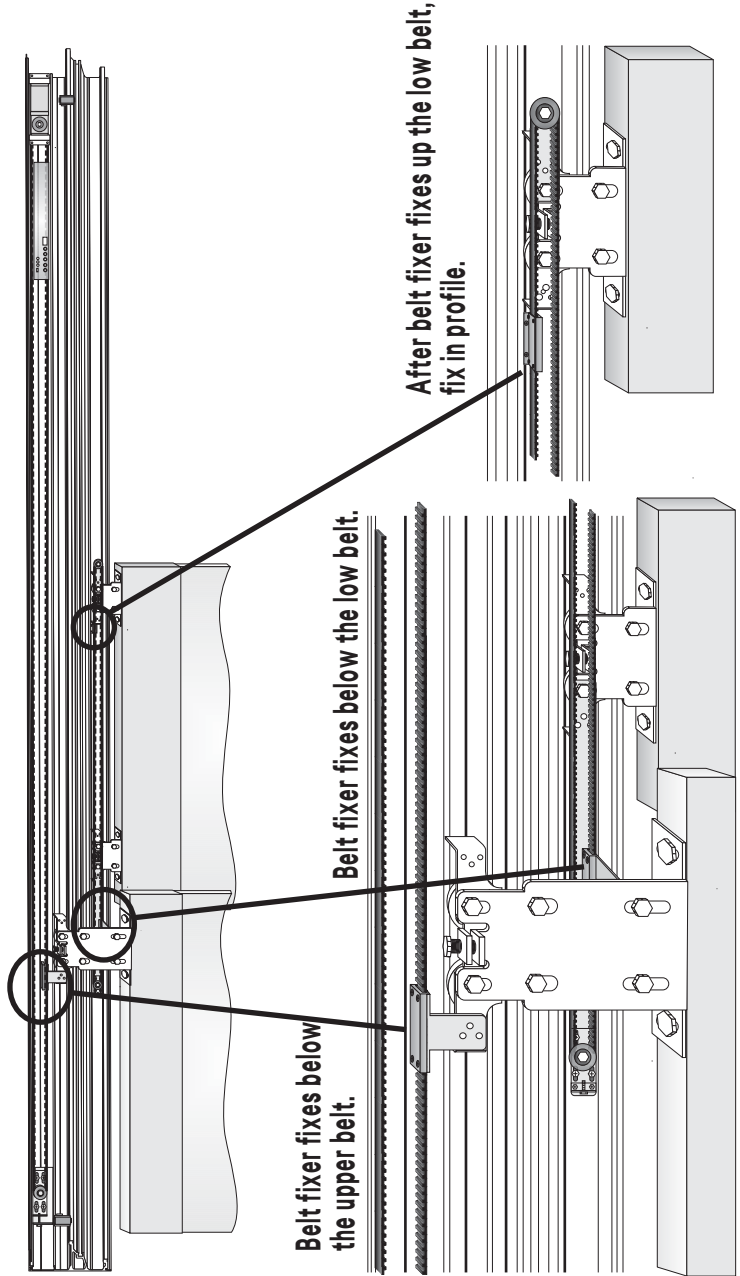
Power supply (input)
Either AC100V~240V



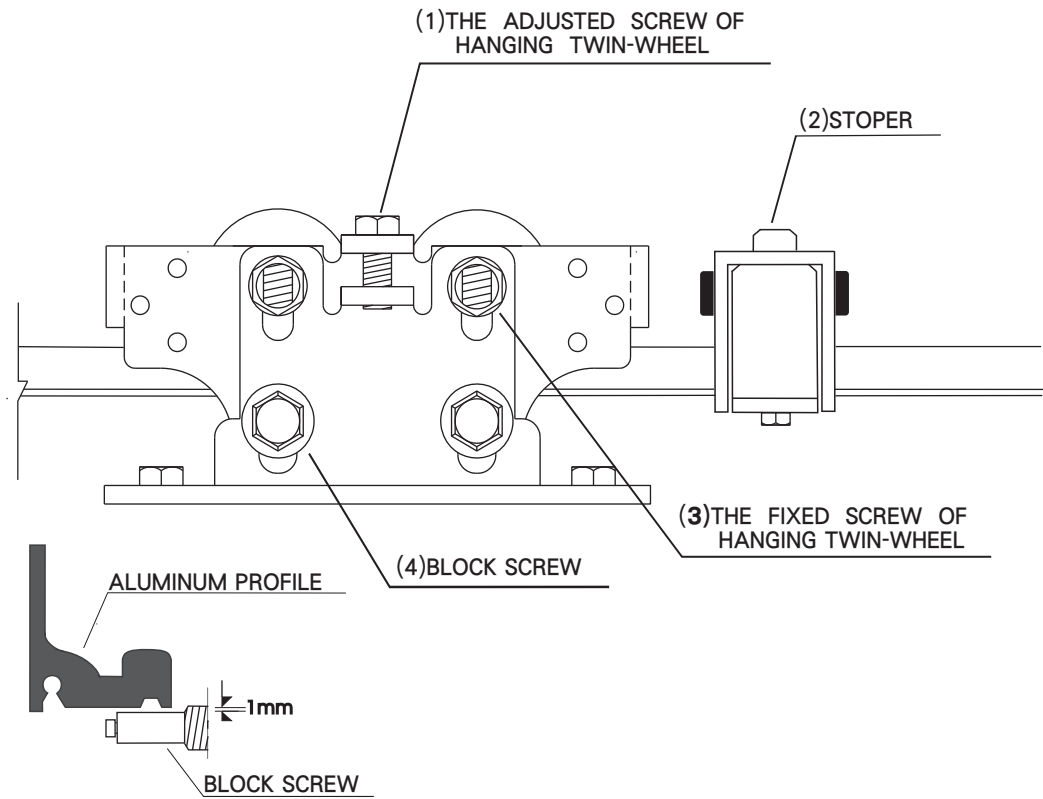
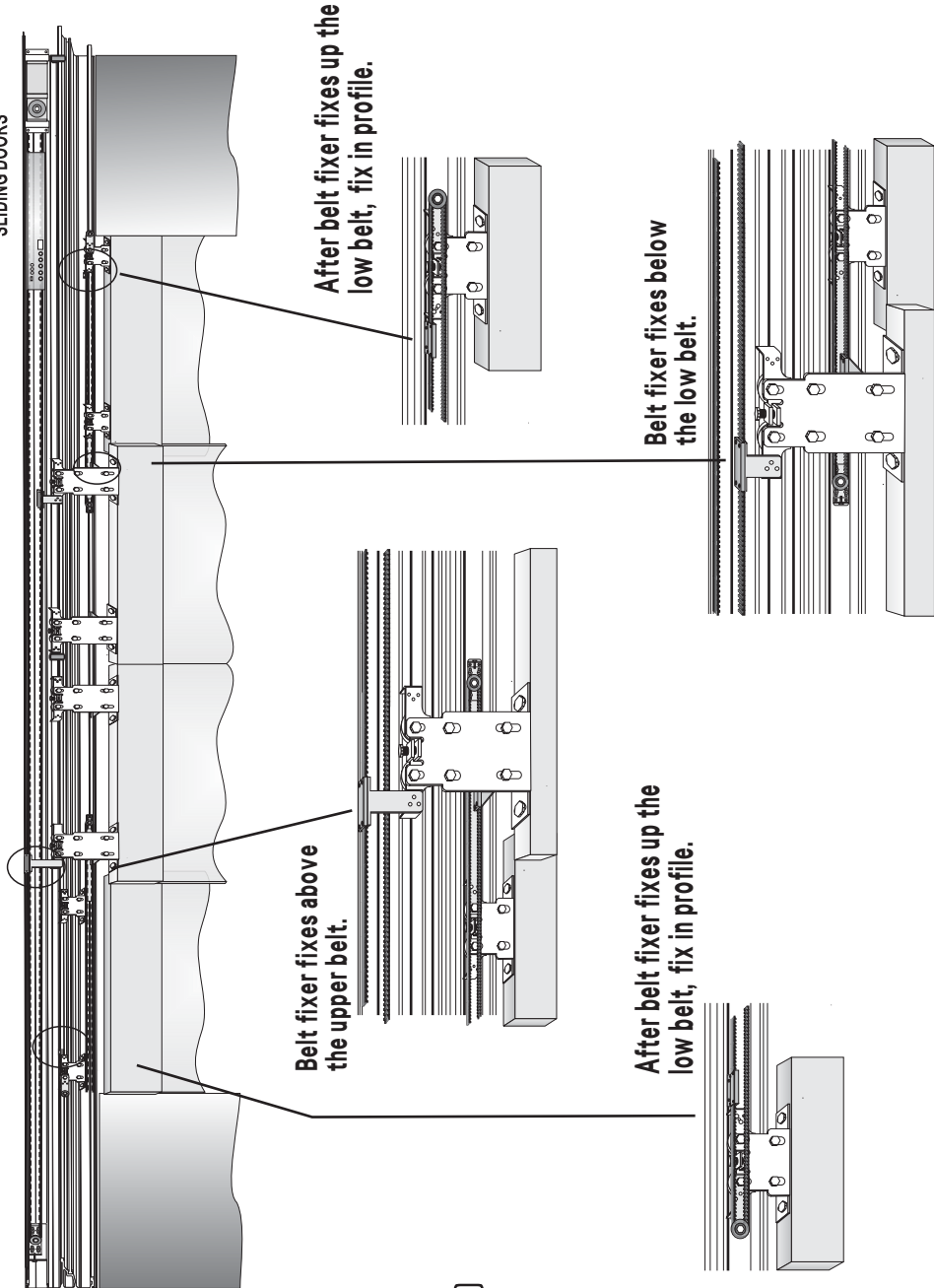
Warning

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.

TELESCOPIC 2-WINGED SLIDING DOORS



TELESCOPIC 4-WINGED
SLIDING DOORS



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