Automatic Door Systems

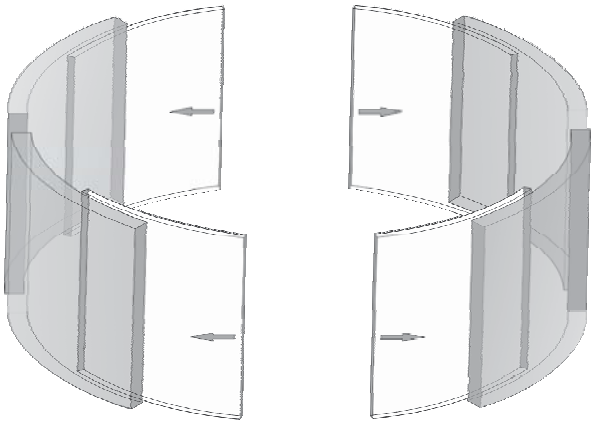
K-2

Single-winged / Bi-parting

OPERATION INSTRUCTION

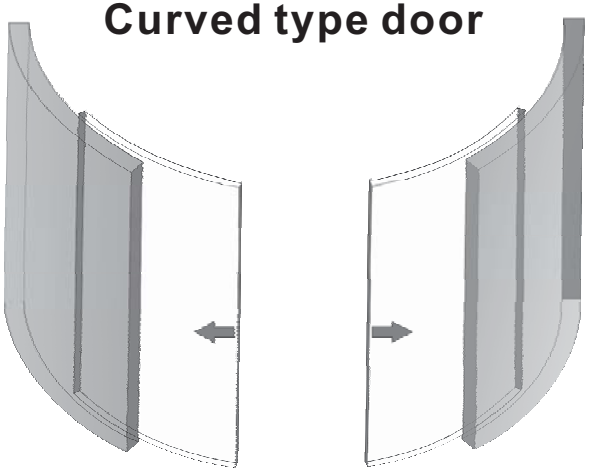
Our company has the following series of automatic door, please contact with our distributors/representations.

Round type door



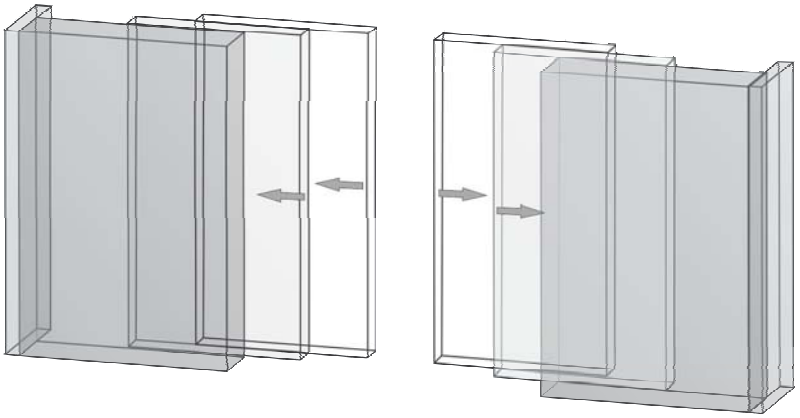
Installation: Please in accordance with the instruction of Round Type Door.

Curved type door



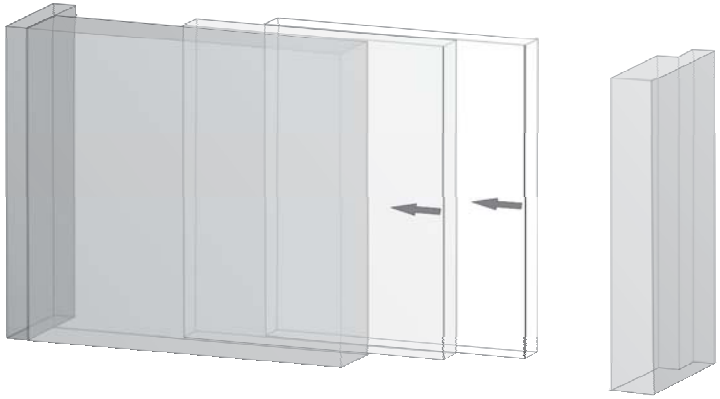
Installation: Please in accordance with the instruction of Curved Type Door.

Telescopic 4-winged Sliding Doors.



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

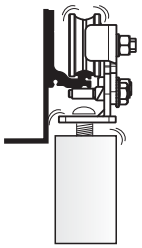
Telescopic 2-winged Sliding Doors.



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

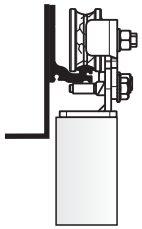
The Door-Leaf sends out abnormal noise in operating.

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



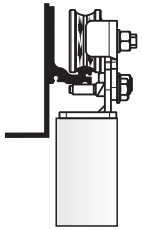
How to solve:
Refasten the SCREW of HANGING TWIN-WHEEL.

Cause 2
HANGING TWIN-WHEEL is broken.



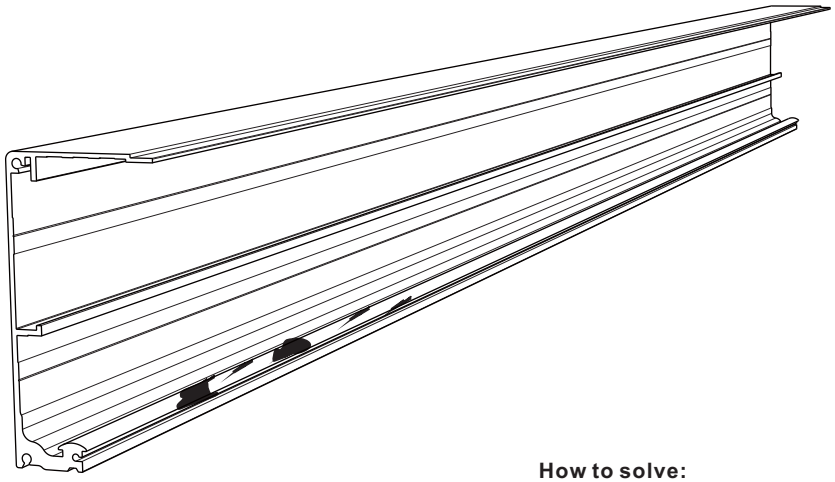
How to solve:
Replace a new one HANGING TWIN-WHEEL.

Cause 3
HANGING TWIN-WHEEL is dirty.



How to solve:
Clean the HANGING TWIN-WHEEL.

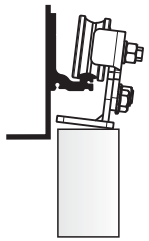
Cause 4
ALUMINUM PROFILE is dirty.



How to solve:
Clean the ALUMINUM PROFILE.

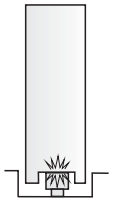
Door-Leaf isn't smooth in operating.

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



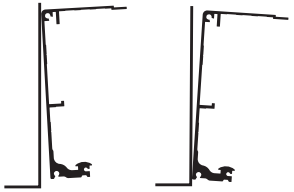
How to solve:
Readjust the HANGING TWIN-WHEEL.

Cause 2
1.Door touches Ground Rail.
2.Ground Rail is dirty.



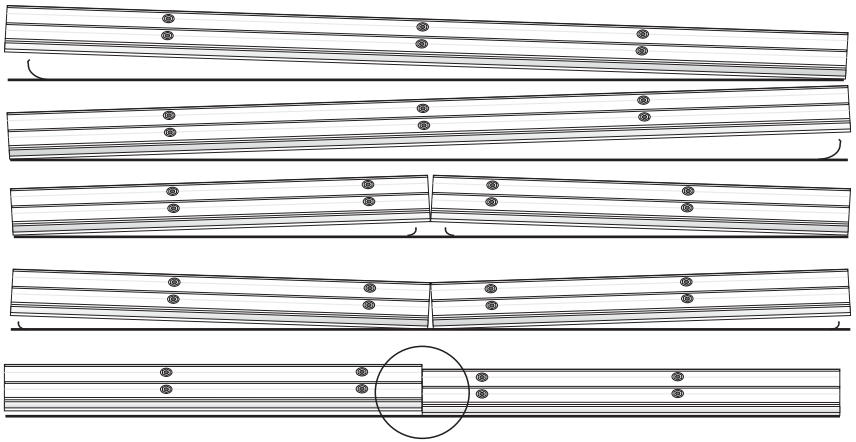
How to solve:
1.Readjust the distance between Door and Ground Rail.
2.Clean up the Ground Rail.

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 vertical position.



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

(BI-PARTING)HANGERS & IRON PARTS

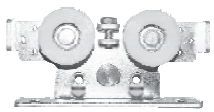
RACK BELT

MICRO-CONTROLLER

DC WORM GEAR MOTOR

PASSIVE BRACE
1 PCS
Not including for
single-winged

ACTIVE BRACE
1 PCS



HANGING
WHEEL 4 PCS
2 PCS for
single-winged

BELT ROLLER
1 PCS

SCREW-
8 PCS
4 PCS for
single-winged

STOPER-
2 PCS
2 PCS for
single-winged

DOOR SCREW-
8 PCS
4 PCS for
single-winged

HANGING BRACE-
4 PCS
2 PCS for
single-winged

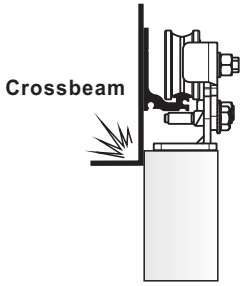
COMBINED
TERMINAL BLOCK
(OPTIONAL DEVICE)

SENSORS
(OPTIONAL DEVICE)

BLOCK SCREW-
8 PCS
4 PCS for
single-winged

Door can't be opened or closed.

Cause 1
Above the Door-Leaf touched with the crossbeam.

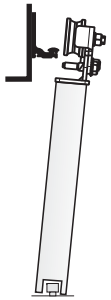


How to solve:
Adjustment the interval between the Door-Leaf height and Crossbeam.

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

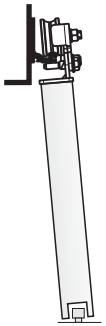
How to solve:
Adjus the Door-Leaf height.

Cause 3
Door-Leaf derails the ALUMINUM PROFILE.



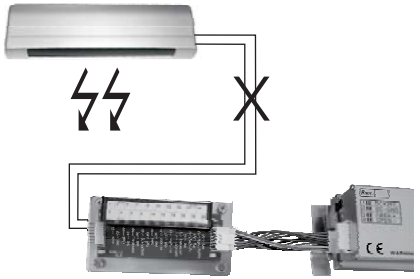
How to solve:
Put the Door-Leaf into the ALUMINUM PROFILE again.

Cause 4
Door-leaf is not vertical.



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

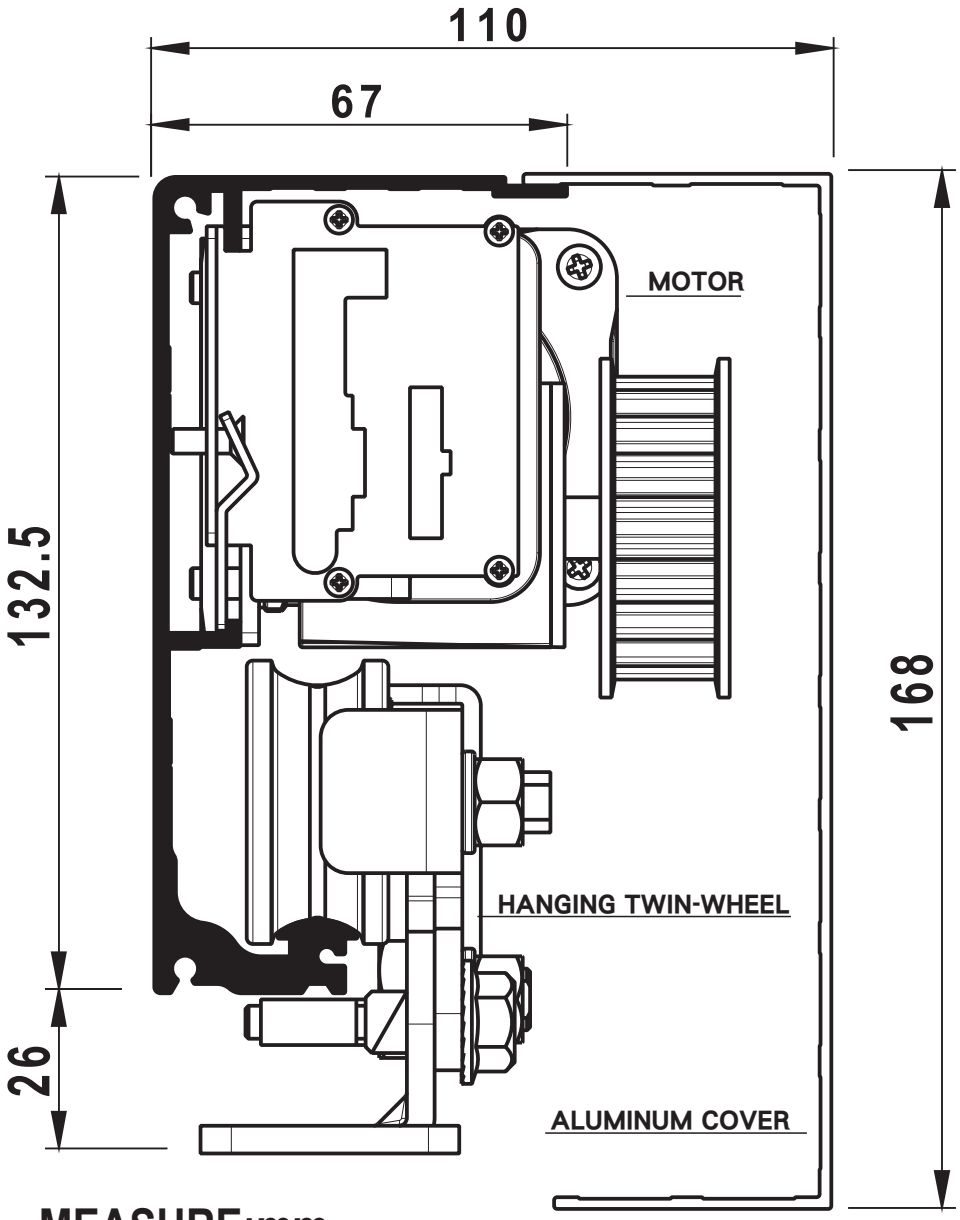
Cause 5
SENSOR is broken or disconnects to the COMBINED TERMINAL BLOCK.



How to solve:
1.If SENSOR is broken please change a new one.
2.Check SENSOR whether it connects to the COMBINED TERMINAL BLOCK.

	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.	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.

TYPE	K-2	
MODEL	SINGLE-WINGED	BI-PARTING
DOOR WEIGHT	120kg X1(door)	100kg X2(door)
DOOR WIDTH	DW=500mm~2500mm	DW=500mm~2500mm
INSTALL WAY	Surface install	Surface install
MOTOR	DC24V 75W WORM GEAR MOTOR	
CONTROL	MICRO-CONTROLLER	
POWER CONSUMPTION	75W	
VOLTAGE	AC100V~240V	
ENVIRONMENTAL TEMPERATURE	-20℃~+50℃	
VOLUME	60decibel(max.)	
STARTING SPEED	200~550mm(second)	
STARTING TIMES	0~20 sec. (regulable)	
TRANSMISSION IMPORTANT CONDITION	RACK BELT S8M	
OPENING DOOR RANGE	FULL/HALF-OPEN (regulable)	
TRACTION FORCE	3kg	



MEASURE:mm

1.Turn off power.
2.Use your hand to move the Door-Leaf.

Preliminary analysis

Running isn't Smooth

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 smooth

Check the circuit

1.Turn on power.
2.Take out the sensor signal line.
3.Test the circuit of SENSOR.

Running check

Running smooth

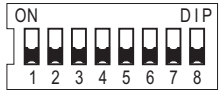
The PROBLEM of the SENSOR

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

Running isn't Smooth

The PROBLEM of the MOTOR

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



DIP Switch I

1 2 Brake power

Light ◢ Strong

6 7 Open incomplete

Short ◢ Long

3 Slowing Range of Opening

Short Long

4 Slowing range of closing

Short Long

5 Directional function

OFF ON

OFF: Normal mode.

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

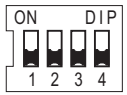
8 Reverse Switch:

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.

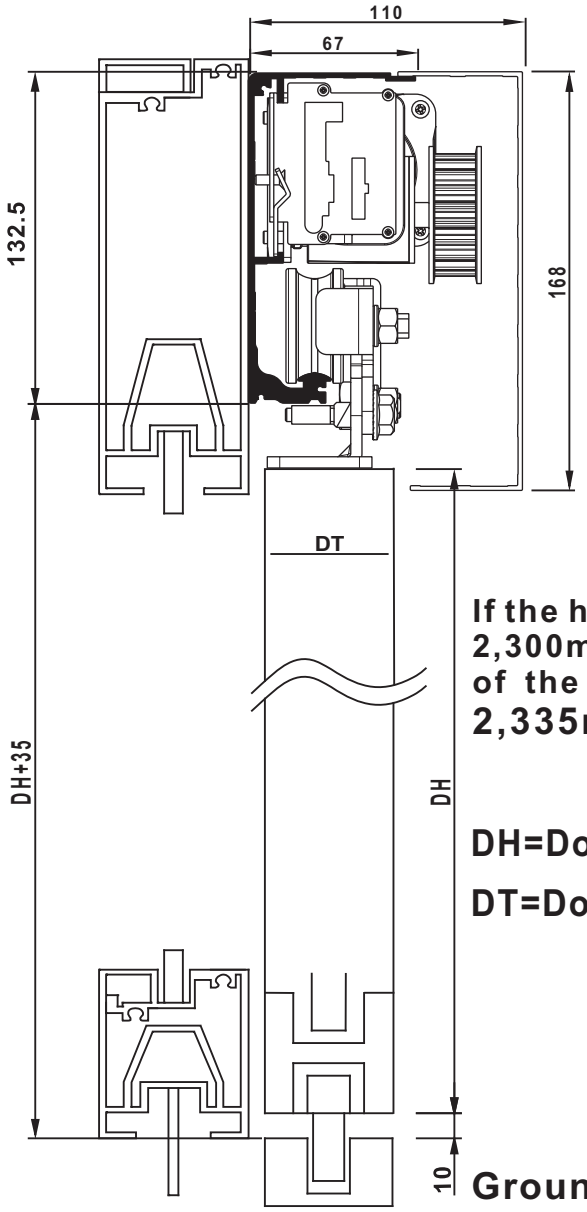


DIP Switch II

1 Electric lock switch

Fail Safe Fail Secure

2 ~ 4 Standby



MEASURE : mm

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)

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

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

When door works over 10 times, the controller will record the distance. If turn on the power again, the door will start detecting in slow speed and reach the correct distance.

A 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**.

B 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**.

C 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**.

D 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

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

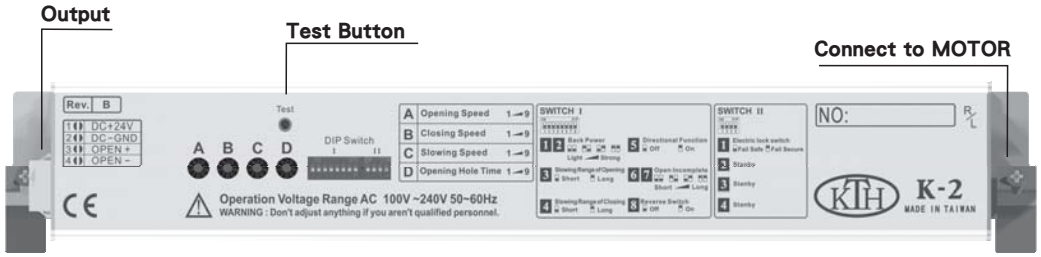
1.SYSTEM PROGRAM REMEMBER

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

2.ADJUST

The FACEPLATE of MICRO-CONTROLLER

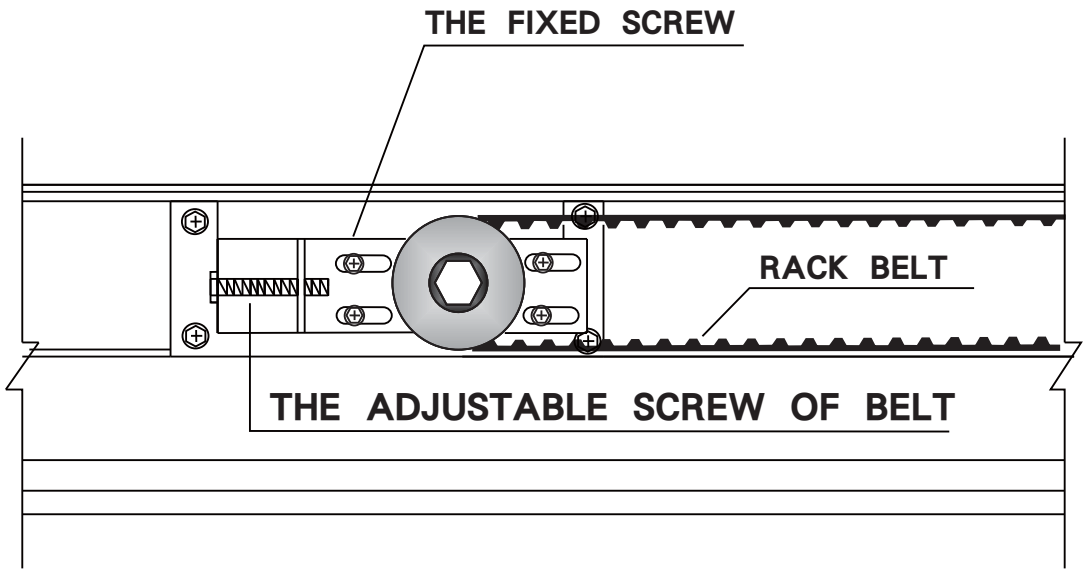
The FACEPLATE of MICRO-CONTROLLER



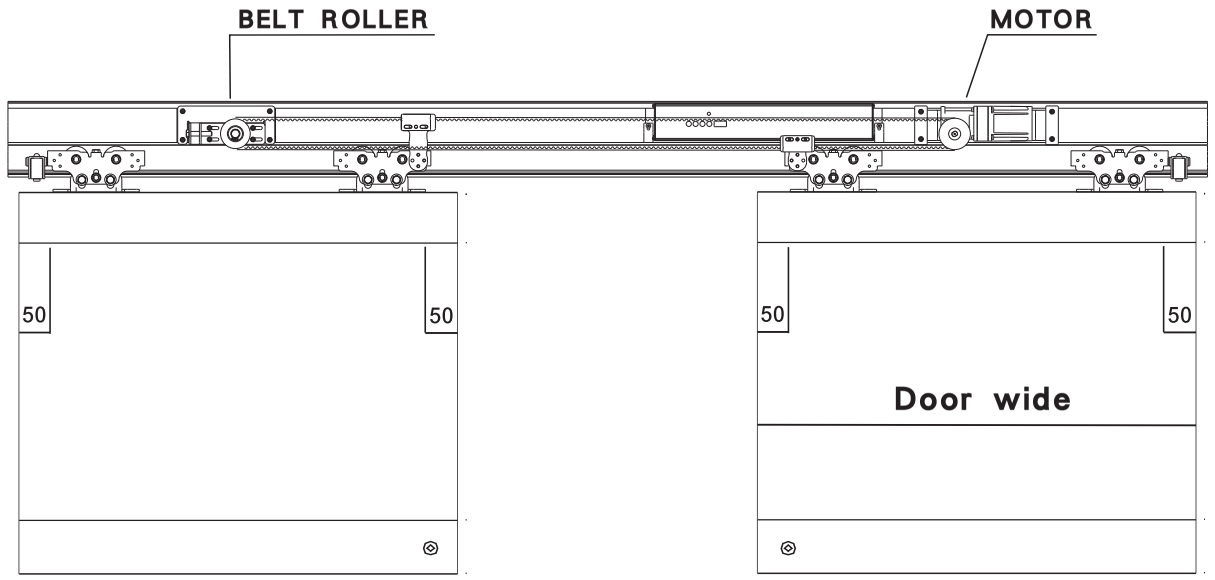
Red LED-Power is connected.

Green LED-Input the open door signal.

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



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

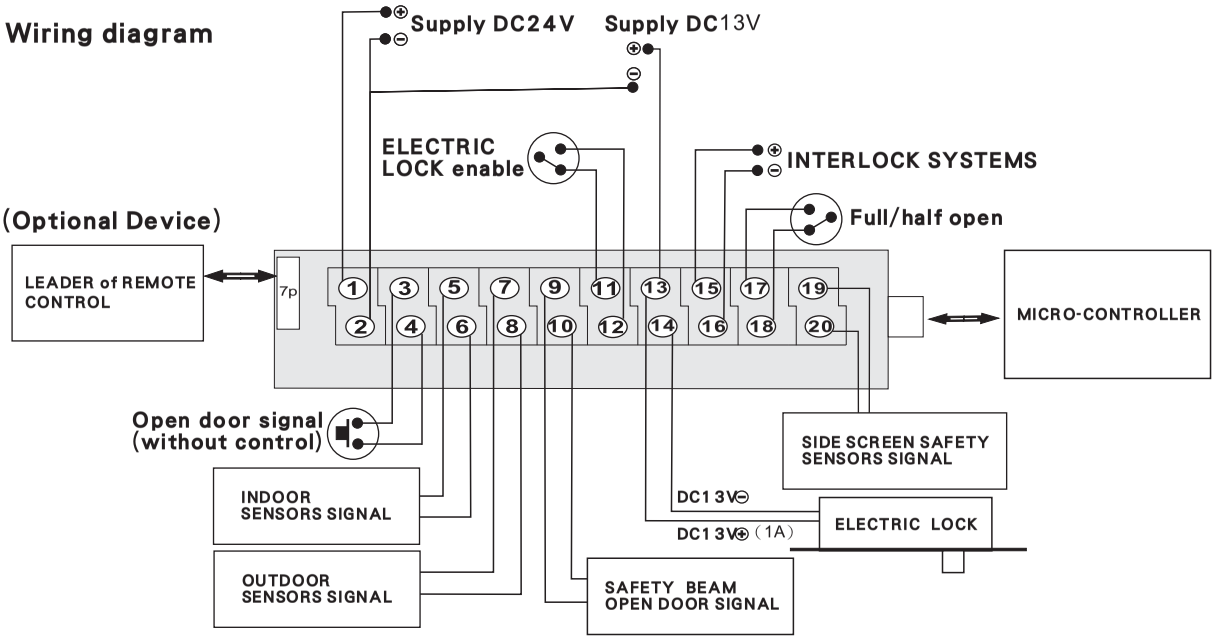


7

MEASURE : mm

Inside the room, the distance between the HANGING TWIN-WHEEL and the RIM of DOOR must be more than 50mm.

Wiring diagram



12

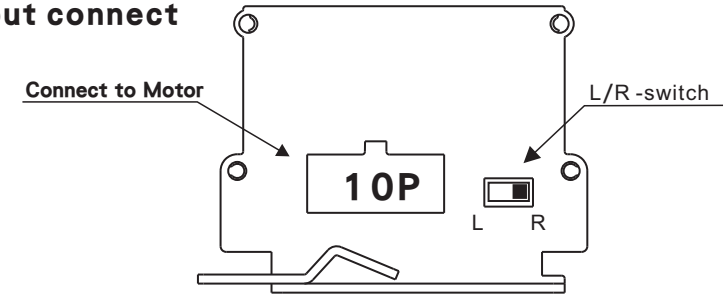
(A) The FUNCTION of the ELECTRIC LOCK will work when ⑪ and ⑫ are short circuit, then ⑬ and ⑭ will output DC13V for ELECTRIC LOCK after the door closes. ⑬ and ⑭ will not output DC13V if ⑪ and ⑫ are not short circuit.

(B) The SIGNAL of the SAFETY BEAM is controlled by ⑨ and ⑩. When door is opening and running, ⑨ and ⑩ keep to accept the signal, then the SAFETY BEAM will be working. ⑨ and ⑩ will not work when the door is closed, then the SAFETY BEAM will lose efficacy when the door is closed.

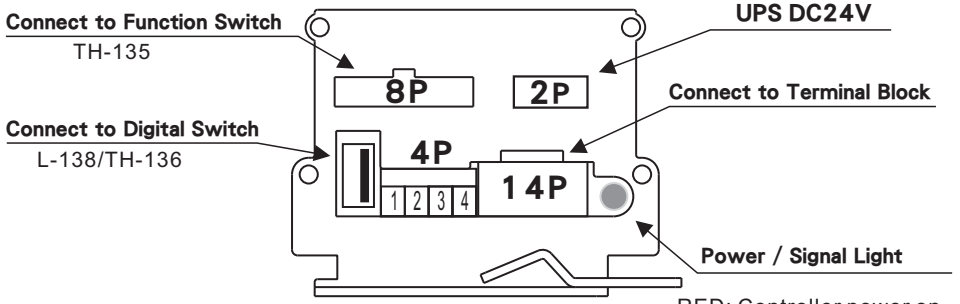
(C) The signal of Side Screen Safety Sensor is controlled by ⑲ and ⑳. Side Screen Safety Sensors are placed at the rear end of the door to prevent collisions during the opening movement of the moving leaves. When the signal activates, the moving leaves will become slowly, till the door opens fully, then close normally.

MICRO-CONTROLLER

Input connect

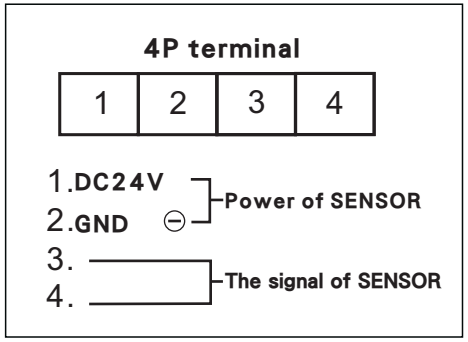


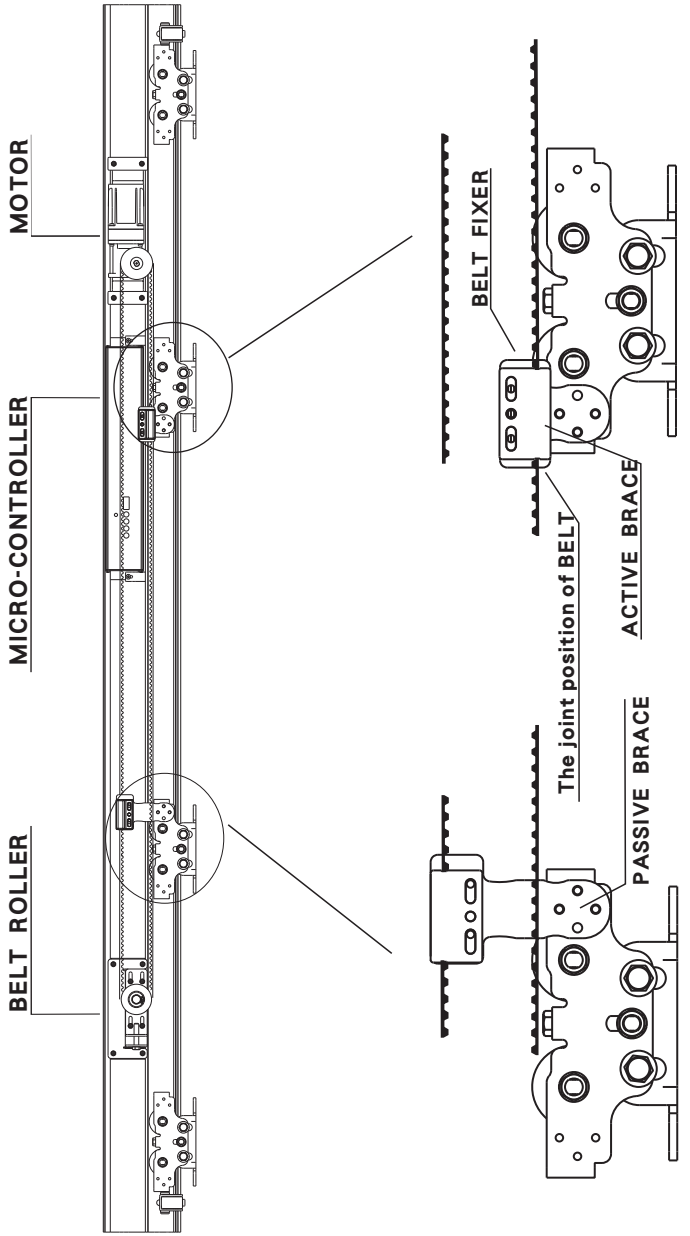
Output connect

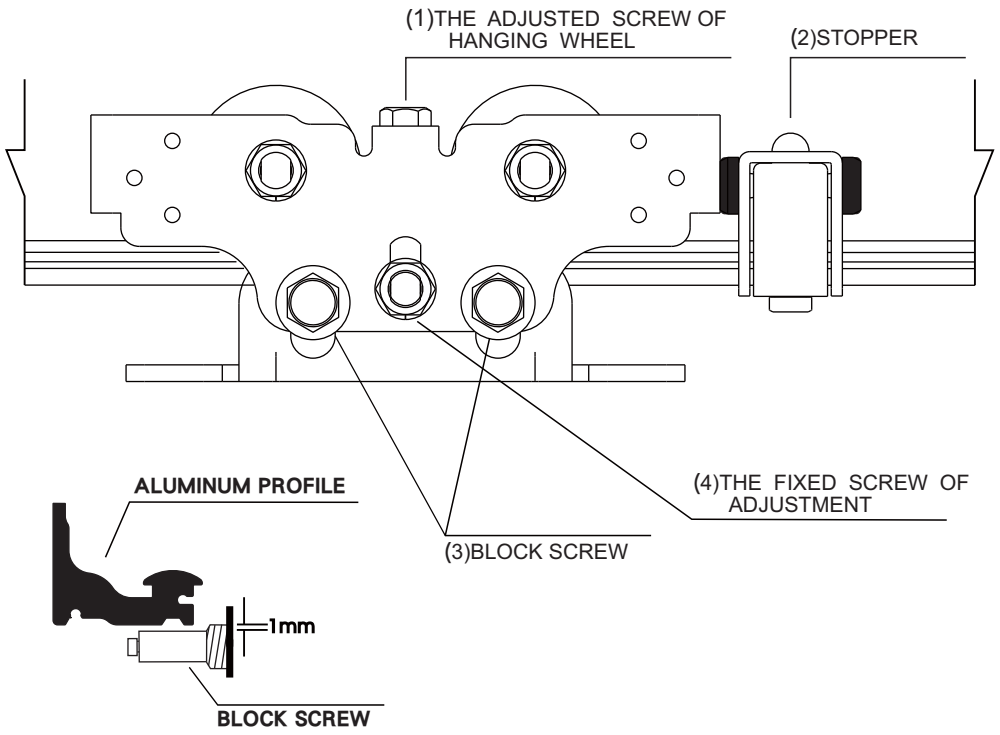


RED: Controller power on
GREEN: Sensor signal normal

Please according with the connection way
if it was installed "Function switch","Remote",
"Sensors of inside and outside"
at the same time will have functions.



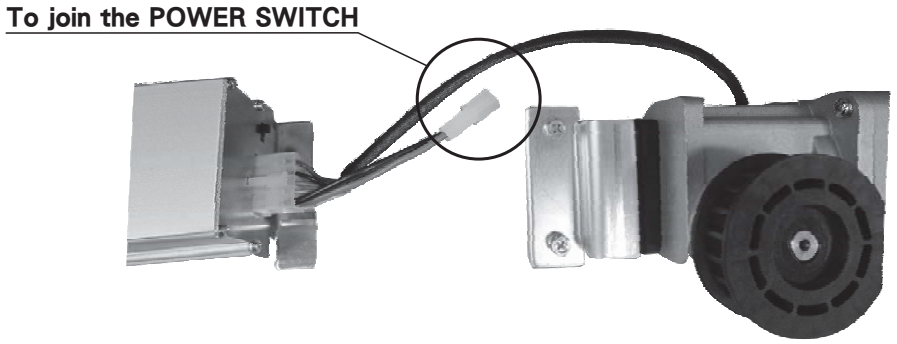




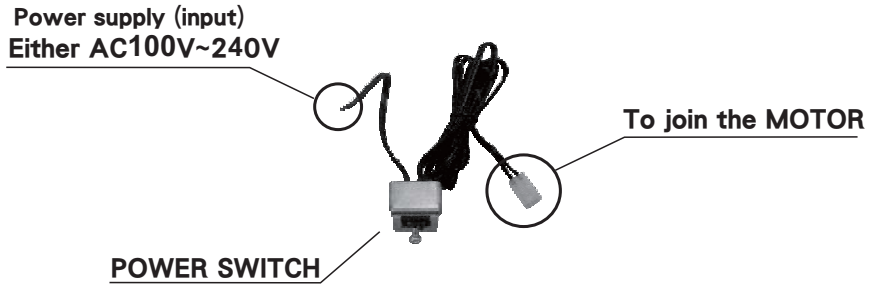
Ⓐ When Door-Leaf height and interval need to adjust, loose (3) & (4) at first, then adjust (1).

Ⓑ Need to fasten (3) & (4)after adjust Ⓐ .

Ⓒ 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.