

# Automatic Door Systems



**K-2E**

Single-winged / Bi-parting  
( EN16005 )

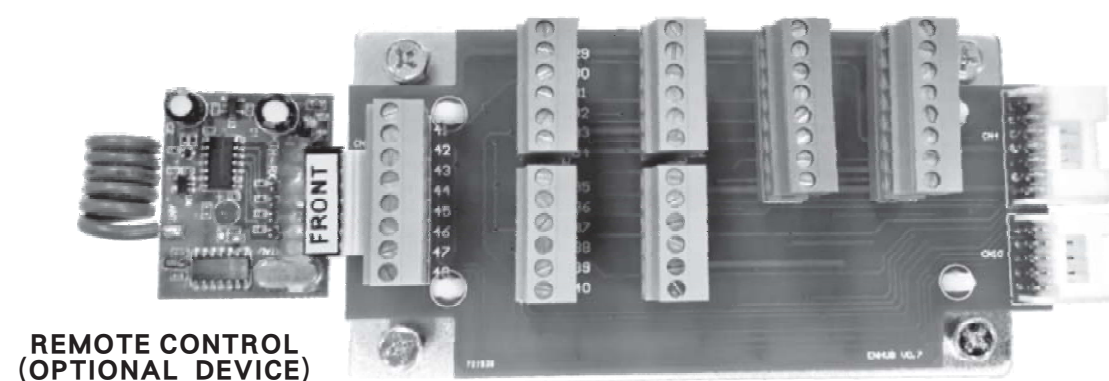
<http://www.kthtw.com>  
e-mail: kth@kthtw.com

**OPERATION INSTRUCTION**

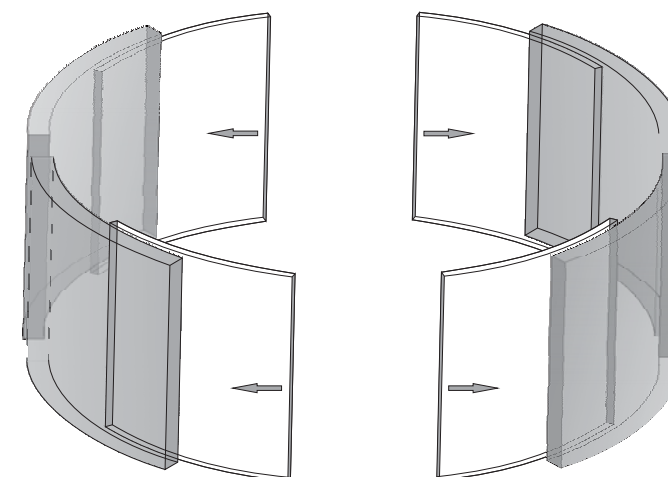


**(C) Operation:**

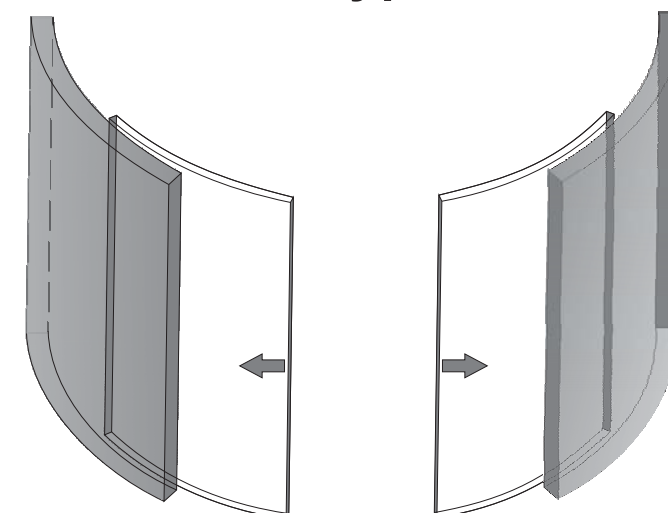
- 1、ARROW UP(▲): Open door for 1 cycle and auto close back again. Good for controlling people from coming in after office hours when put to LOCK mode.
- 2、ARROW DOWN(▼): Door in fully open position. Press another time it will go back to normal function.
- 3、SQUARE(■): Door permanently close or lock by electric lock. Press another time door is unlocked and go back to normal operation. Cannot be activated by sensor or press button. If using card access security system, has to put to LOCK mode. Coming in by card access system, going out by sensor or release press button.
- 4、ROUND(●): Door opens partially. Press another time and door goes back to normal operation and door can open fully.

**Connection of Illustrations****COMBINED TERMINAL BLOCK**

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

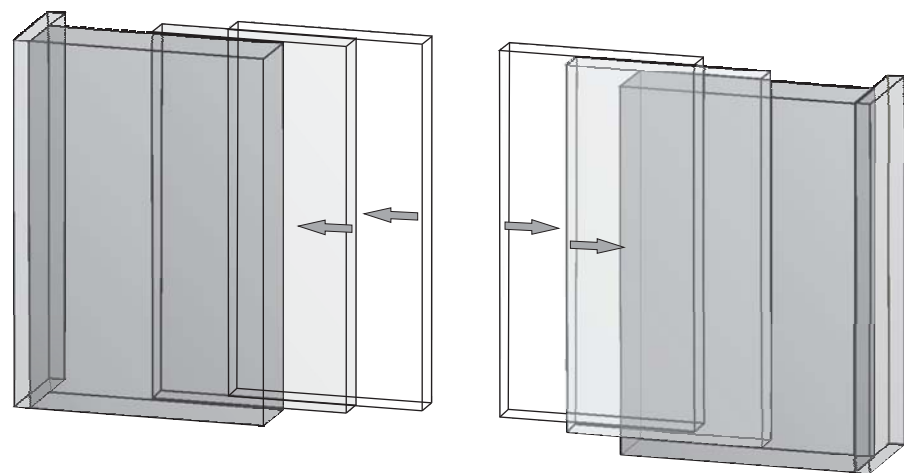
**Round type door**

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

**Curved type door**

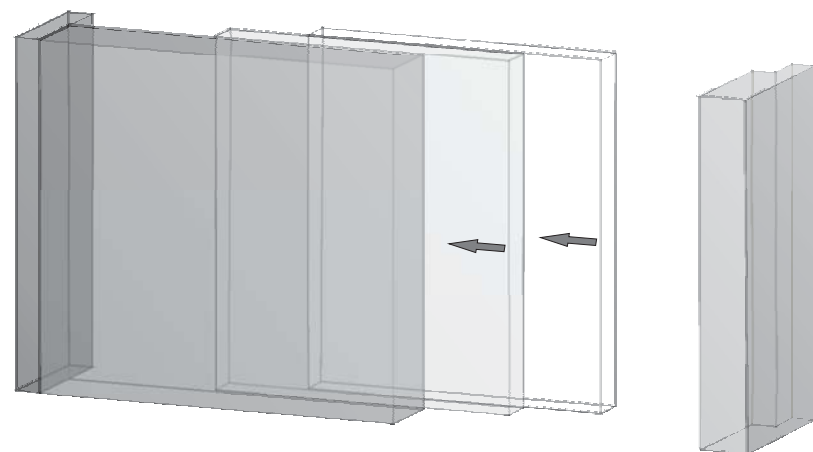
Installation: Please in accordance with the instruction of Curved Type Door.

## 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.

### (A) Action Instruction :

#### 1 、 Add another Transmitters :

Make sure Receiver power on and take one Transmitter which can control Receiver. Press the ● and ■ of Transmitter simultaneously and Indicator flash quickly about 9 seconds. When press ▲ and ▼ of new Transmitter simultaneously during flash, the Indicator will stop flash and add new Transmitter. The memory capacity of Receiver is “ 30 pieces ” of Transmitter.

**Note: Follow the instruction again to add another Transmitter Transmitter**

#### 2 、 Clearance other Transmitter :

Turn off the power for 10 seconds then turn on the power again. The Indicator will flash per second about 10 seconds. Then press four keys( ● , ■ , ▲ , ▼ ) of Sample Transmitter at the same time during flash and the Indicator will stop flash. After that, the Receiver will copy new code and remove the old code. All Transmitters couldn't control Receiver except the Sample Transmitter.

**Note: Follow the instruction again to add another Transmitter.**

#### 3 、 Stand by condition:

When the Receiver power on, the action Indicator will flash for 10 seconds. While press any key of Transmitter during flash, the Indicator will stop and enter stand by condition. If there are no input by pressing any key of Transmitter during flash, the Receiver will automatically enter stand by condition after 10 seconds.

#### 4 、 Memory function of the lock: after power on, the receiver keeps the original condition of lock.

(1)If the lock is ON before the receiver powers off , it will be ON after the power on.

(2)If the lock is OFF before the receiver powers off , it will be OFF after the power on.

### (B) Technical data :

#### 1 、 Transmitter:

Power supply : GP 23A (12V)

Frequency : 433.92Mhz

Power consumption during operation : About 9mA (12V)

Stand by power consumption : 1uA

Transmit power : About - 15dbm

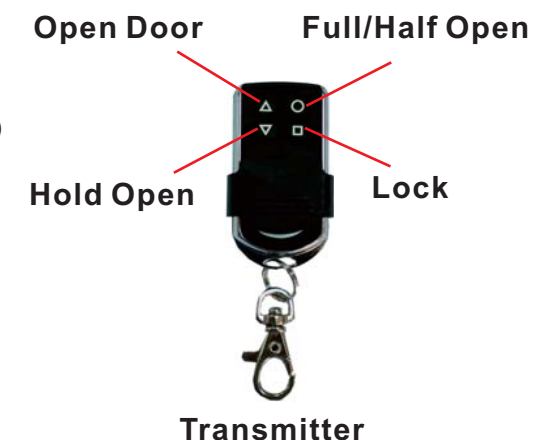
#### 2 、 Receiver :

Power supply : DC 7V - DC 14V(Standard: DC 12V)

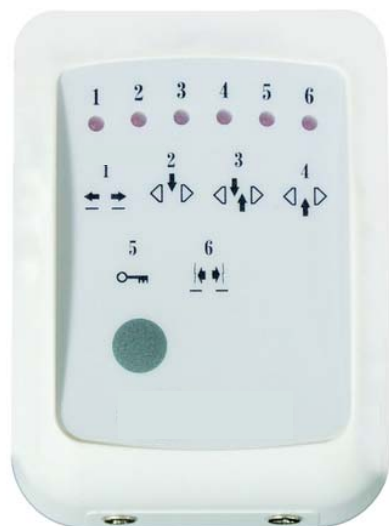
Frequency : 433.92Mhz

Stand by power consumption : About 6mA(12V)

Max output : 30mA



## FUNCTION SWITCH

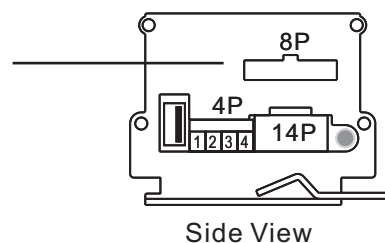
**Six press functions:**

- 1.DOOR OPEN
- 2.IN ONE-WAY
- 3.AUTO
- 4.OUT ONE-WAY
- 5.DOOR CLOSE
- 6.HALF OPEN

**Operation**

Press for 3 seconds to unlock buttons.  
When light flash, choose the needed  
functions. After 5 seconds, the light keeps  
go to finish setting.

## MICRO-CONTROLLER

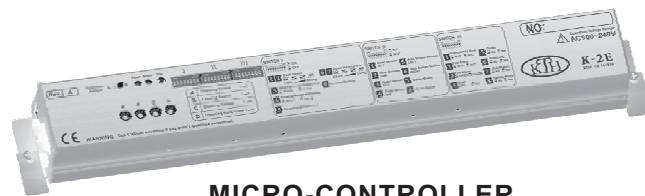
**Accessory Cable Notice:**

removable

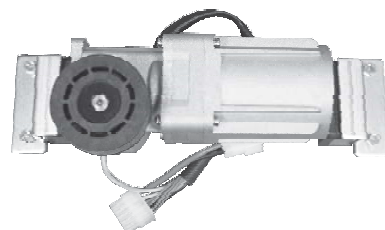


for MICRO-CONTROLLER

1. COMPONENTS SPECIFICATION.....	P1
2. LEGEND OF PART DRAWING.....	P2
3. TECHNICAL SPECIFICATION.....	P3
4. SECTIONAL DRAWING.....	P4
5. INSTALLATION DRAWING.....	P5
6. SAFETY DEVICE.....	P6
7. INSTALL PROCEDURE.....	P7
8. INSTALL THE BELT ROLLER & THE POSITION OF THE HANGING TWIN-WHEEL .....	P8
9. INSTALL THE RACK BELT & ADJUST THE DOOR-LEAF ...	P9
10. CONNECTION ( Electric ).....	P10
11. CONNECT ( Combined Terminal Block ).....	P11
12. CONNECT (Others).....	P12
13. CONNECT ( non monitored sensor ).....	P13
CONNECT ( monitored sensor1 ).....	P14
CONNECT ( monitored sensor2 ).....	P15
14. TEST AND ADJUST - 1.....	P16
TEST AND ADJUST - 2.....	P17
15. BROKEN CHECKING.....	P18
16. TROUBLESHOOTING.....	P19
17. TROUBLESHOOTING(ILLUSTRATED).....	P20
18. APPENDIX(1) FUNCTION SWITCH(Optional Device)...	P23
19. APPENDIX(2) REMOTE CONTROL(Optional Device)...	P24



MICRO-CONTROLLER



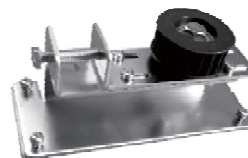
DC WORM GEAR MOTOR



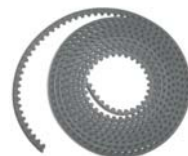
POWER SWITCH



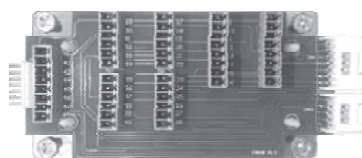
SENSORS  
(OPTIONAL DEVICE)



BELT ROLLER

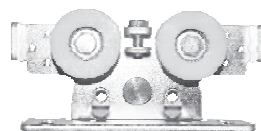


RACK BELT



COMBINED TERMINAL BLOCK

(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



IRON PARTS SACK



STOPER-2 PCS



WIRE CLAMP-5 PCS



BLOCK SCREW-8 PCS



GROUND WHEEL  
-2PCS



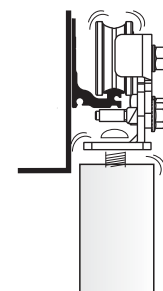
SCREW-8 PCS



DOOR SCREW-8 PCS

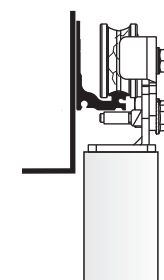
The Door-Leaf sends out abnormal noise in operating.

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



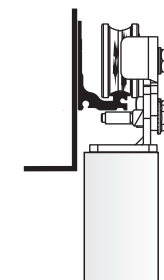
**How to solve:**  
Refasten the SCREW of  
HANGING TWIN-WHEEL.

**Cause 2**  
HANGING TWIN-WHEEL  
is broken.



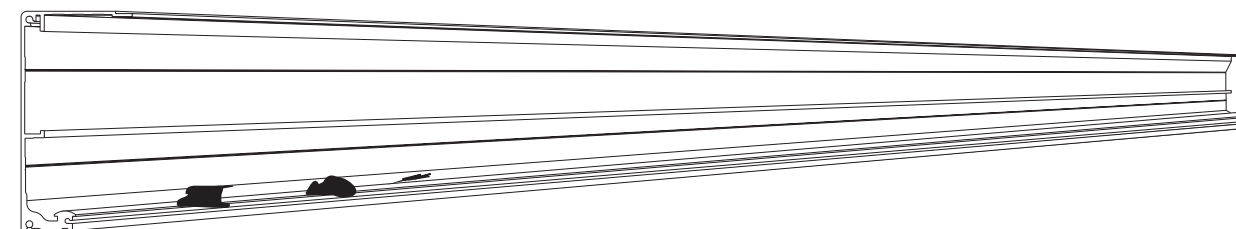
**How to solve:**  
Replace a new one  
HANGING TWIN-WHEEL.

**Cause 3**  
HANGING TWIN-WHEEL  
is dirty.



**How to solve:**  
Clean the  
HANGING TWIN-WHEEL.

**Cause 4**  
ALUMINUM PROFILE is dirty.

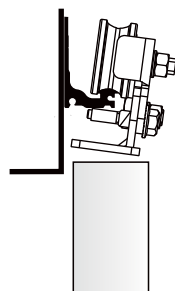


**How to solve:**  
Clean the ALUMINUM PROFILE.



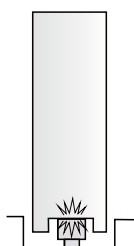
## Door-Leaf isn't smooth in operating.

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



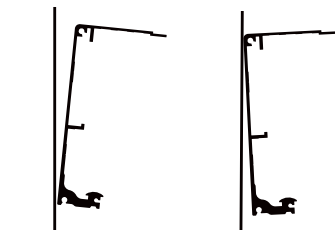
**How to solve:**  
Readjust the  
**HANGING TWIN-WHEEL.**

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



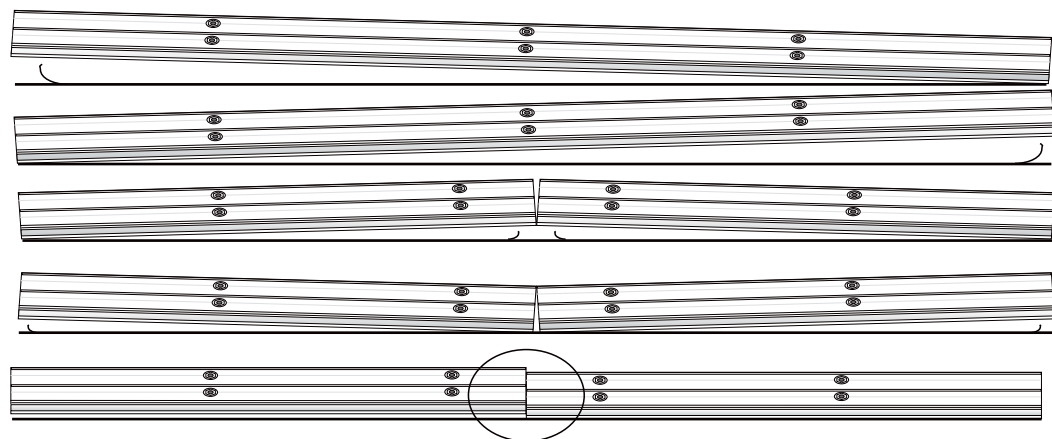
**How to solve:**  
1.Readjust the distance between  
Door and Ground Rail.  
2.Clean up the Ground Rail.

**Cause 3**  
**ALUMINUM PROFILE** is  
not vertical.



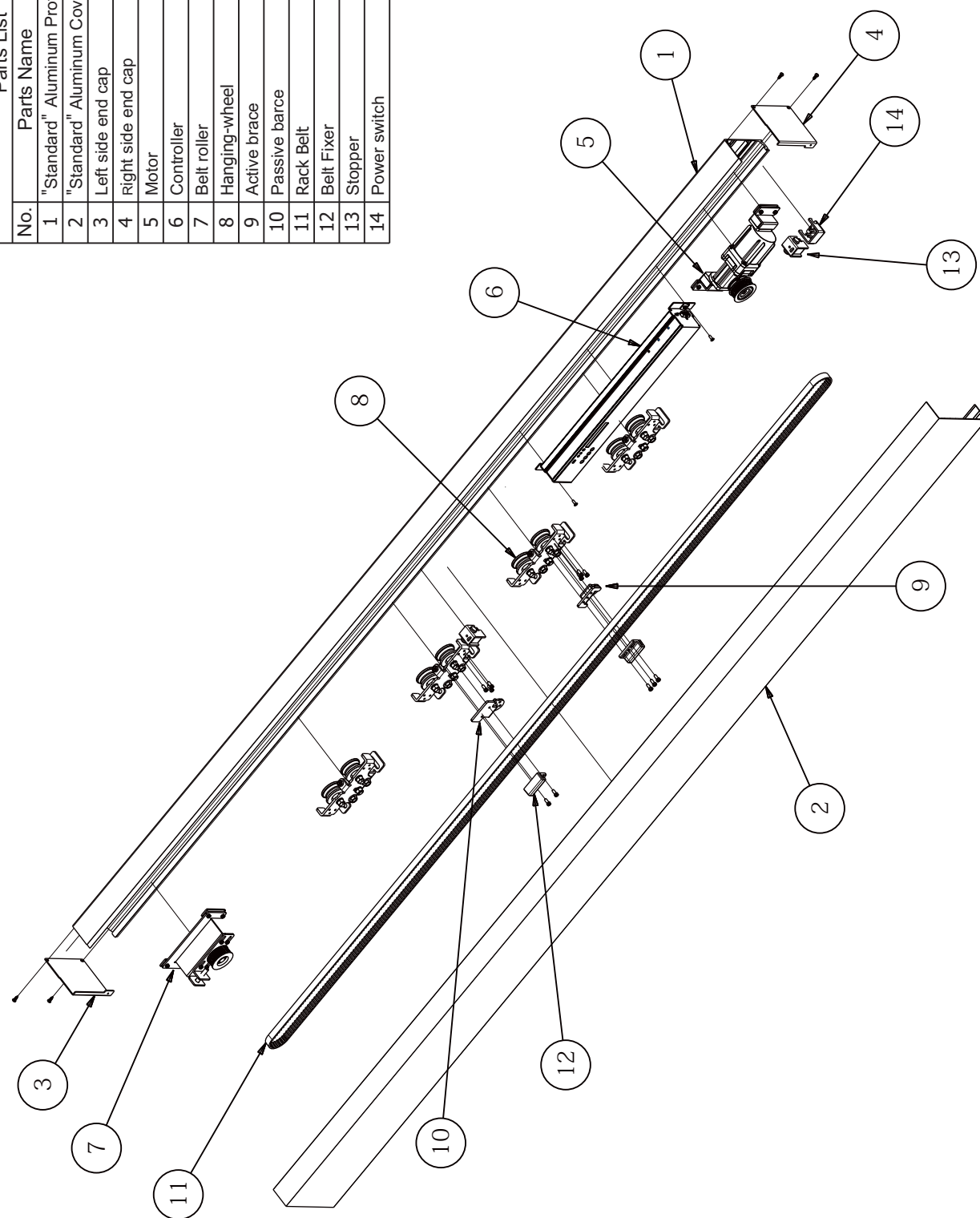
**How to solve:**  
Readjust the vertical position  
of the **ALUMINUM PROFILE.**

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



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

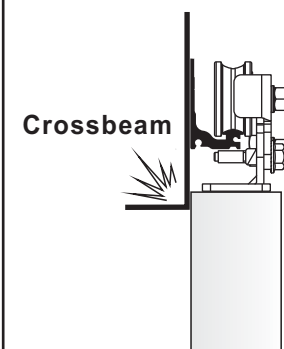
Parts List		
No.	Parts Name	Quantity
1	"Standard" Aluminum Profile	1
2	"Standard" Aluminum Cover	1
3	Left side end cap	1
4	Right side end cap	1
5	Motor	1
6	Controller	1
7	Belt roller	1
8	Hanging-wheel	4
9	Active brace	1
10	Passive barce	1
11	Rack Belt	1
12	Belt Fixer	2
13	Stopper	2
14	Power switch	1



TYPE	K-2E	
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)	
<b>PFC</b> POWER EFFICIENCY	0.95(in AC100V Full load)	
TRACTION FORCE	3 kg	

## Door can't be opened or closed.

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



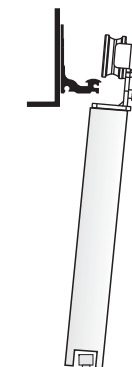
**How to solve:**  
Adjustment the interval between the Door-Leaf height and Crossbeam.

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



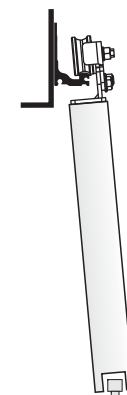
**How to solve:**  
Adjus the Door-Leaf height.

**Cause 3**  
Door-Leaf derails the ALUMINUM PROFILE.



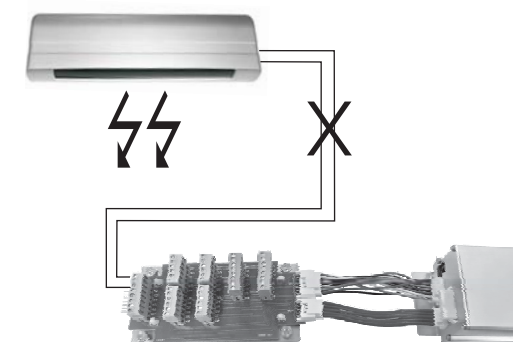
**How to solve:**  
Put the Door-Leaf into the ALUMINUM PROFILE again.

**Cause 4**  
Door-leaf is not vertical.



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

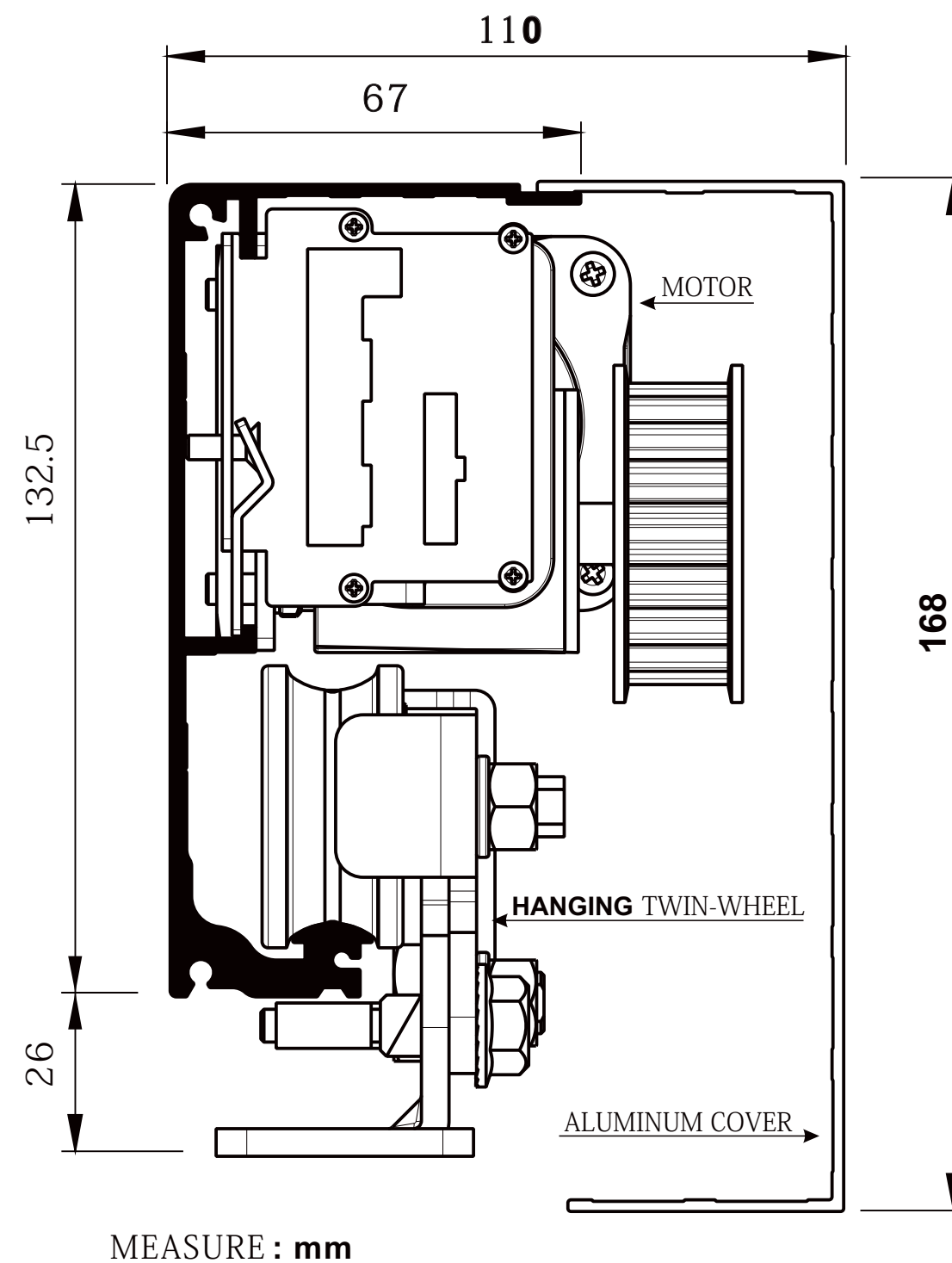
**Cause 5**  
SENSOR is broken or disconnects to the COMBINED TERMINAL BLOCK.

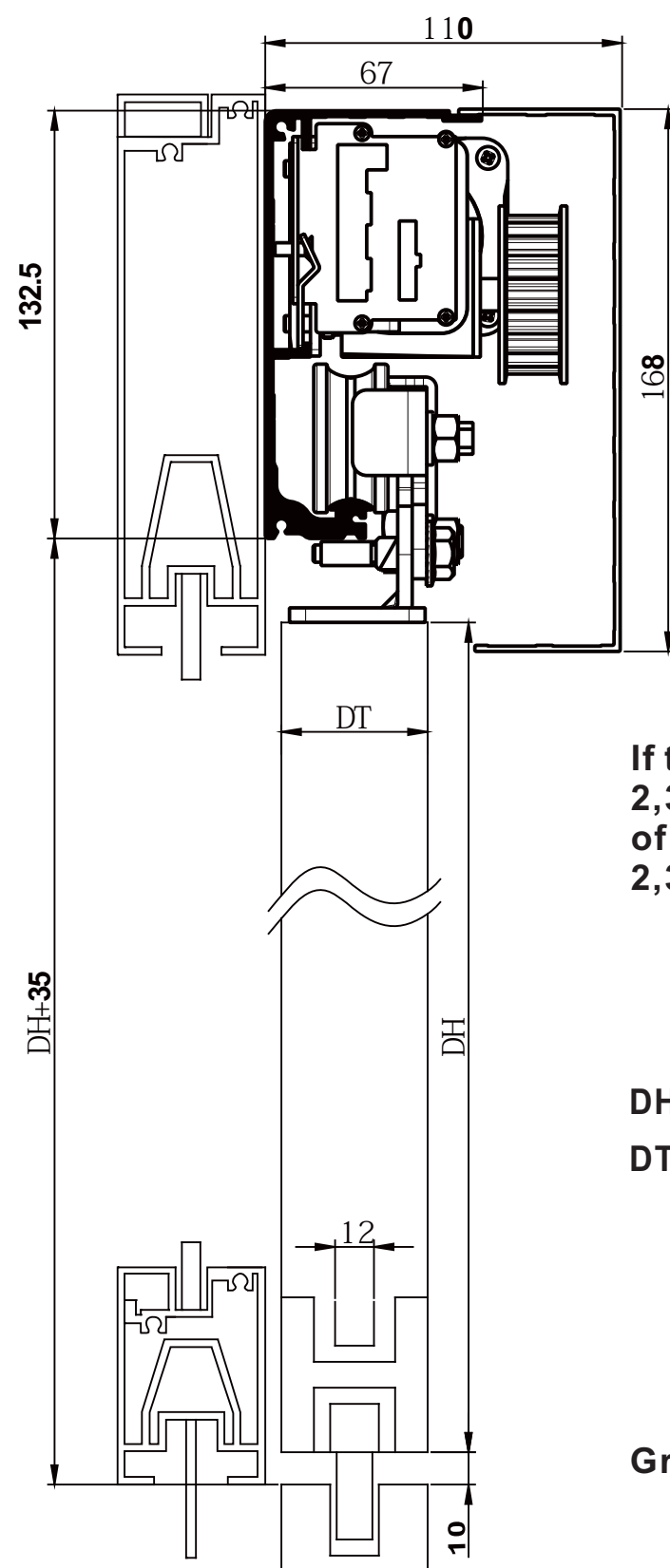


**How to solve:**  
1.If SENSOR is broken please change a new one.  
2.Check SENSOR whether it connects to the COMBINED TERMINAL BLOCK.



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.	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.



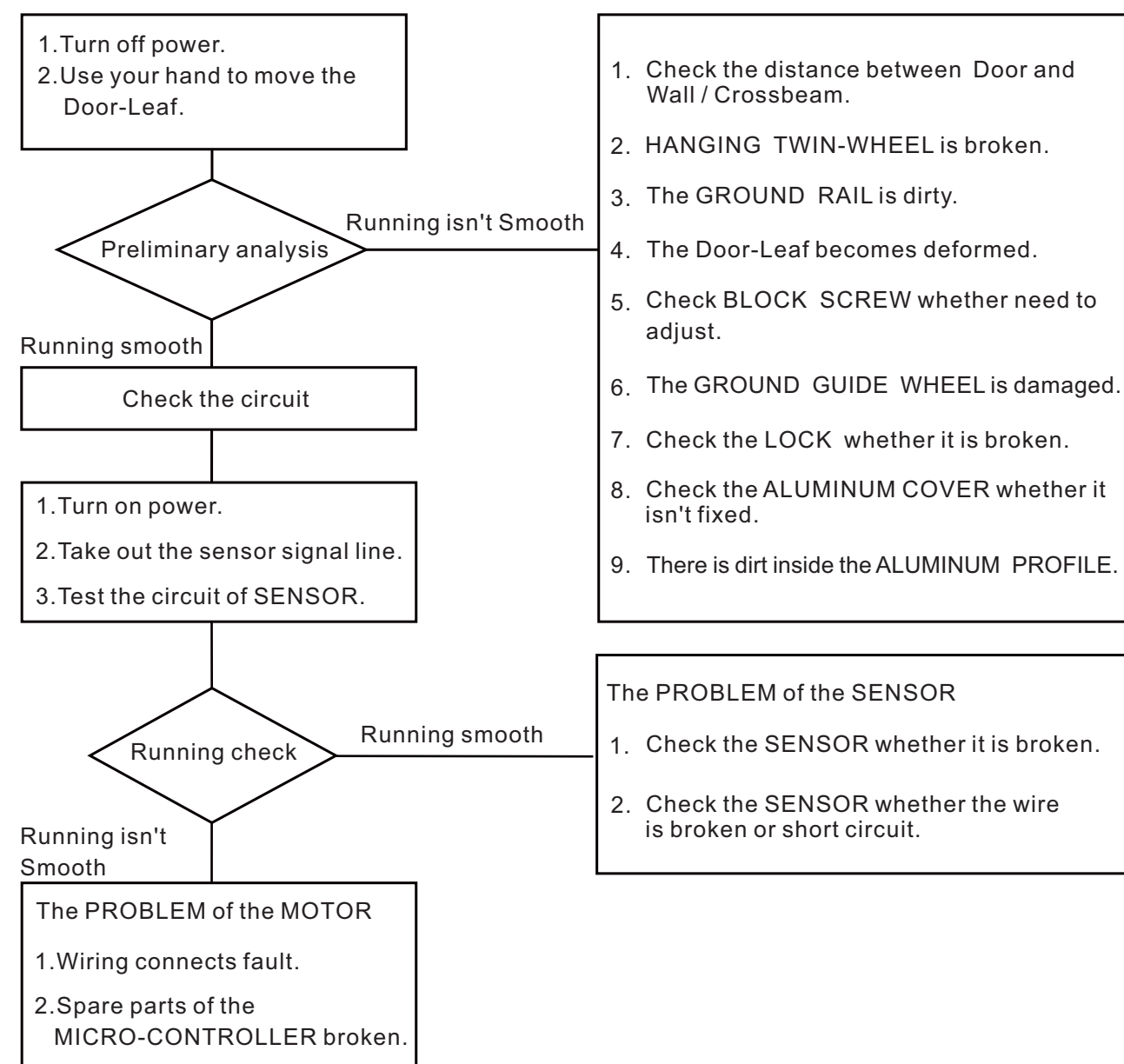


MEASURE : mm

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)



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 ange).



### Switch I

#### 1 2 Barke Power

Light Strong

#### 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.



### Switch II

#### 1 Inner Sensor ACT

☐ N/O ☐ N/C

#### 2 Inner Sensor SAF

☐ N/O ☐ N/C

#### 3 Outer Sensor ACT

☐ N/O ☐ N/C

#### 4 Outer Sensor SAF

☐ N/O ☐ N/C

#### 6 7 Open incomplete

Short Long

#### 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.

#### 5 Side Screen Sensor LEFT

☐ N/O ☐ N/C

#### 6 Side Screen Sensor Right

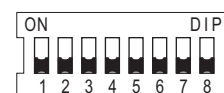
☐ N/O ☐ N/C

#### 7 Safely Beam

☐ N/O ☐ N/C

#### 8 Open Signal

☐ N/O ☐ N/C



### Switch III

#### 1 Emergency Stop

☐ N.O. ☐ N.C.

#### 2 Fire Alarm

☐ N.O. ☐ N.C.

#### 3 Fire Alarm

☐ OPEN ☐ CLOSE

#### 4 Inner

☐ No ☐ Yes

#### 5 Outer

☐ No ☐ Yes

#### 6 Side(Left)

☐ No ☐ Yes

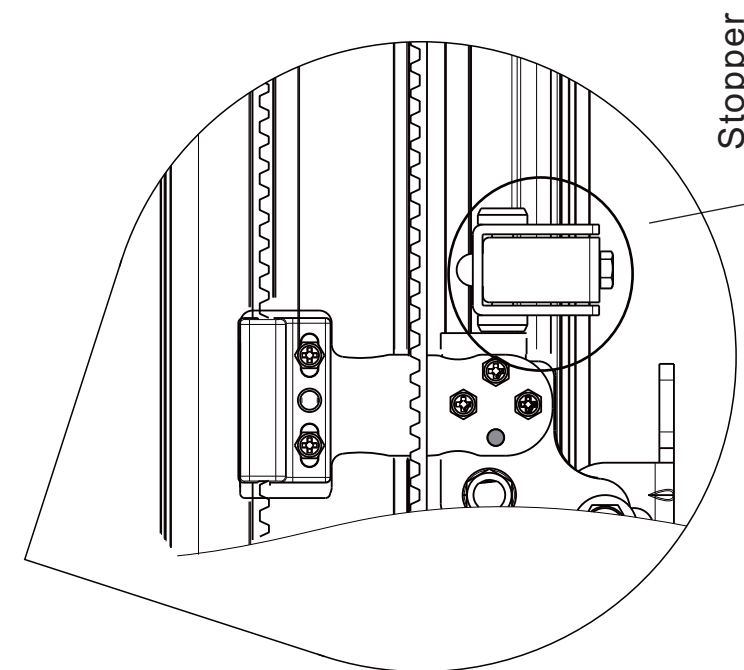
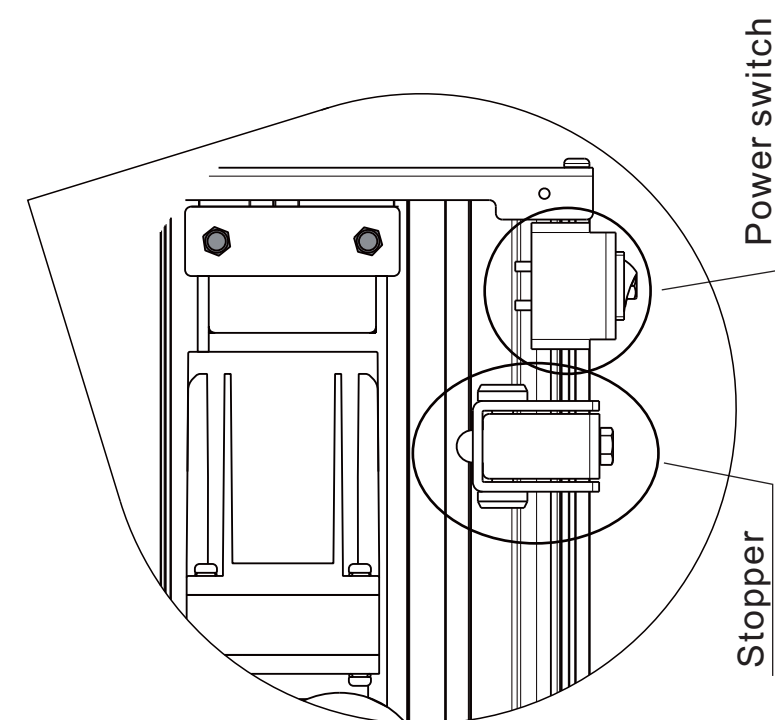
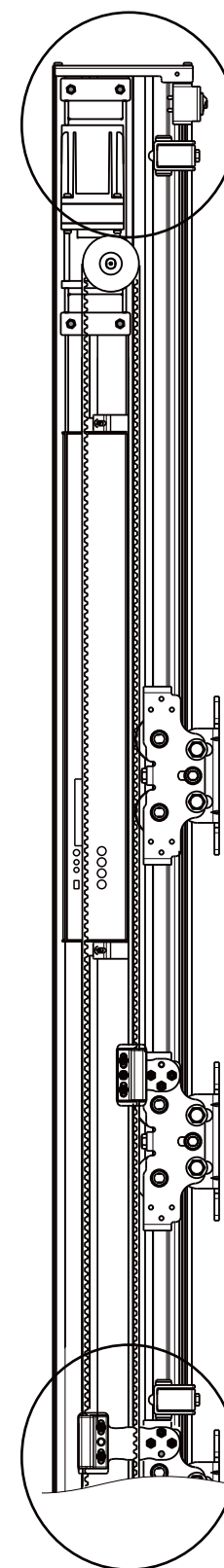
#### 7 Side(Right )

☐ No ☐ Yes

#### 8 Safety Beam

☐ No ☐ Yes

Fyi. (4)-(7) are for the function of Monitored Sensor.



**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

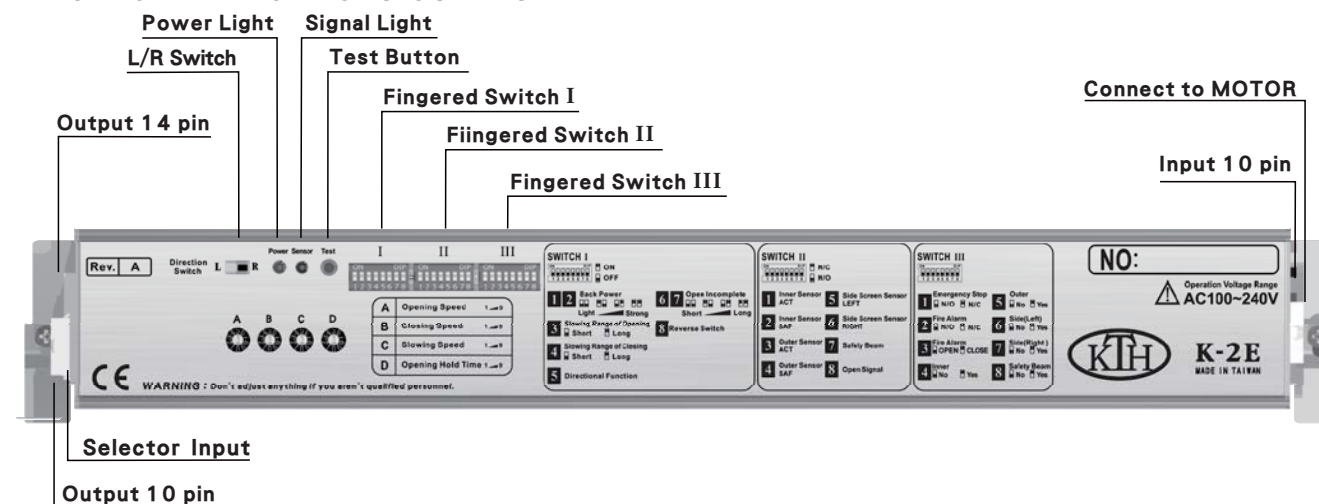
Before turn on the power, make sure the Door-Leaf can be smoothly moved, and the electric link is correct at first.

## 1.SYSTEM PROGRAM REMEMBER

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

## 2.ADJUST

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).

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



### 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

CN8 Inner Sensor	1	TEST-	BROWN	TEST-	EN_HR100-CT (INNER)
	2	TEST+	GRAY	TEST+	
	3	COM	GREEN	COM	
	4	ACT	WHITE	ACT	
	5	COM	BLUE	COM	
	6	SAF	YELLOW	SAF	
	7	0V	BLACK	0V	
	8	24V	RED	24V	



EN\_HR100-CT  
Y-No.2 → "N.C."  
Y-No.4 → "LOW"

Controller  
II-No.2 → ☐ "N.C."  
III-No.4 → ☐ Yes "

CN7 Outer Sensor	9	TEST-	BROWN	TEST-	EN_HR100-CT (OUTER)
	10	TEST+	GRAY	TEST+	
	11	COM	GREEN	COM	
	12	ACT	WHITE	ACT	
	13	COM	BLUE	COM	
	14	SAF	YELLOW	SAF	
	15	0V	BLACK	0V	
	16	24V	RED	24V	



EN\_HR100-CT  
Y-No.2 → "N.C."  
Y-No.4 → "LOW"

Controller  
II-No.4 → ☐ "N.C."  
III-No.5 → ☐ Yes "

CN6 Side Sensor LEFT	17	TEST-	BROWN	TEST-	HR94D1-C1 (SIDE SCREEN) LEFT HAND
	18	TEST+	GRAY	TEST+	
	19	COM	BLUE	COM	
	20	SIDE	YELLOW	SIDE	
	21	0V	BLACK	0V	
	22	24V	RED	24V	



HR94D1-C1  
No.6 → "N.C."  
No.8 → "ON"

Controller  
II-No.5 → ☐ "N.C."  
III-No.6 → ☐ Yes "

CN5 Side Sensor RIGHT	23	TEST-	BROWN	TEST-	HR94D1-C1 (SIDE SCREEN) RIGHT HAND
	24	TEST+	GRAY	TEST+	
	25	COM	BLUE	COM	
	26	SIDE	YELLOW	SIDE	
	27	0V	BLACK	0V	
	28	24V	RED	24V	



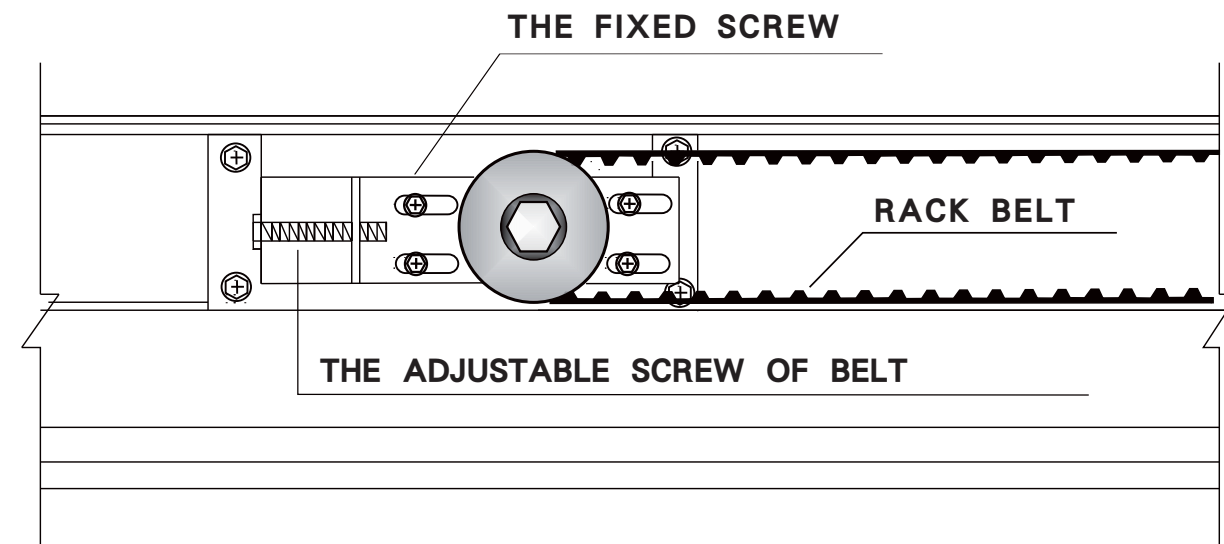
HR94D1-C1  
No.6 → "N.C."  
No.8 → "ON"

Controller  
II-No.6 → ☐ "N.C."  
III-No.7 → ☐ Yes "

CN3 SAFE Sensor	29	TEST-			SAFE SENSOR
	30	TEST+			
	31	COM		COM	
	32	SAFE		SAFE	
	33	0V		0V	
	34	24V		24V	

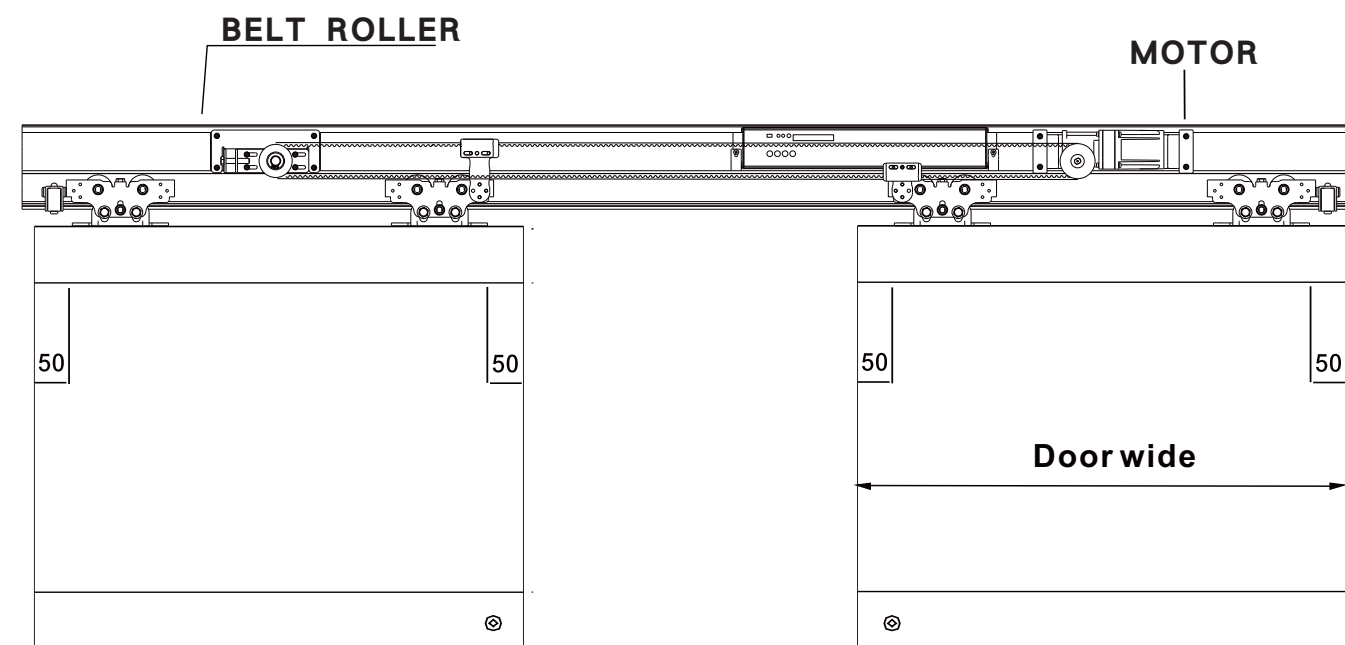
\*Please select the correct "N.C./N.O. position" for "Fingered Switch II" of Controller and "Dipswitches of Sensor".  
\*About the adjustment of "Fingered Switch II", please refer Page.17.

## INSTALL THE BELT ROLLER



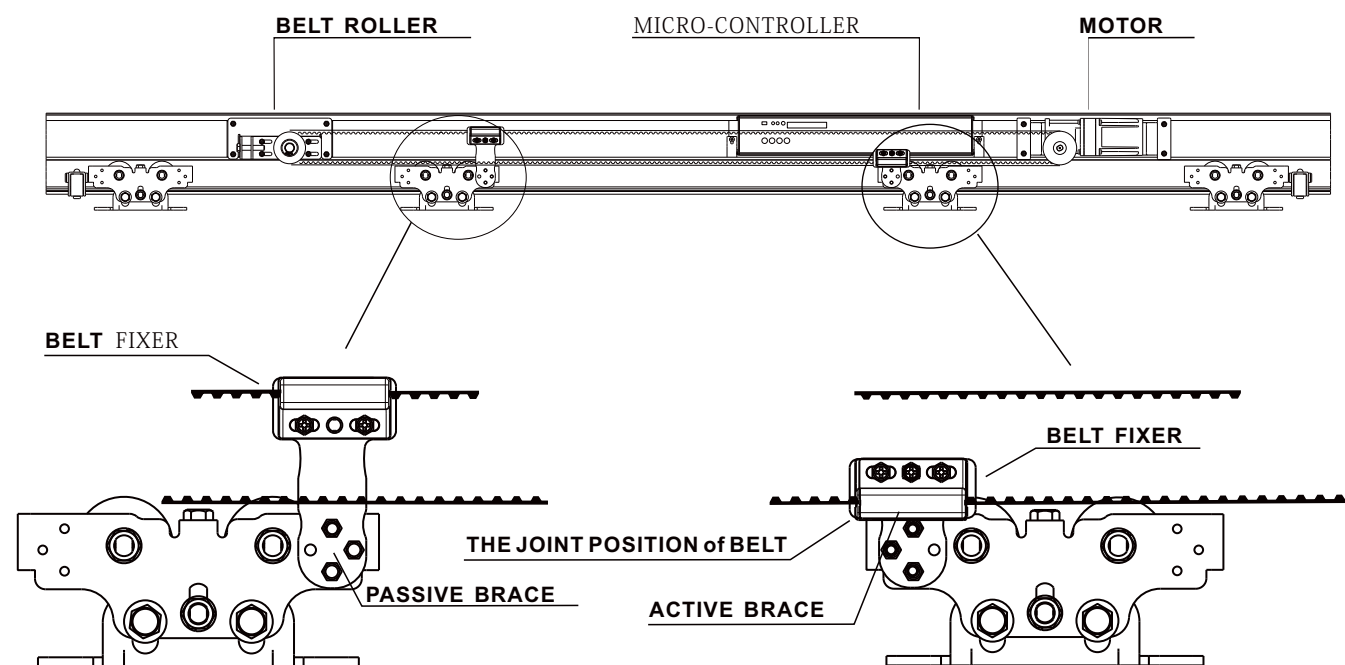
TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.

## THE POSITION OF THE HANGING TWIN-WHEEL

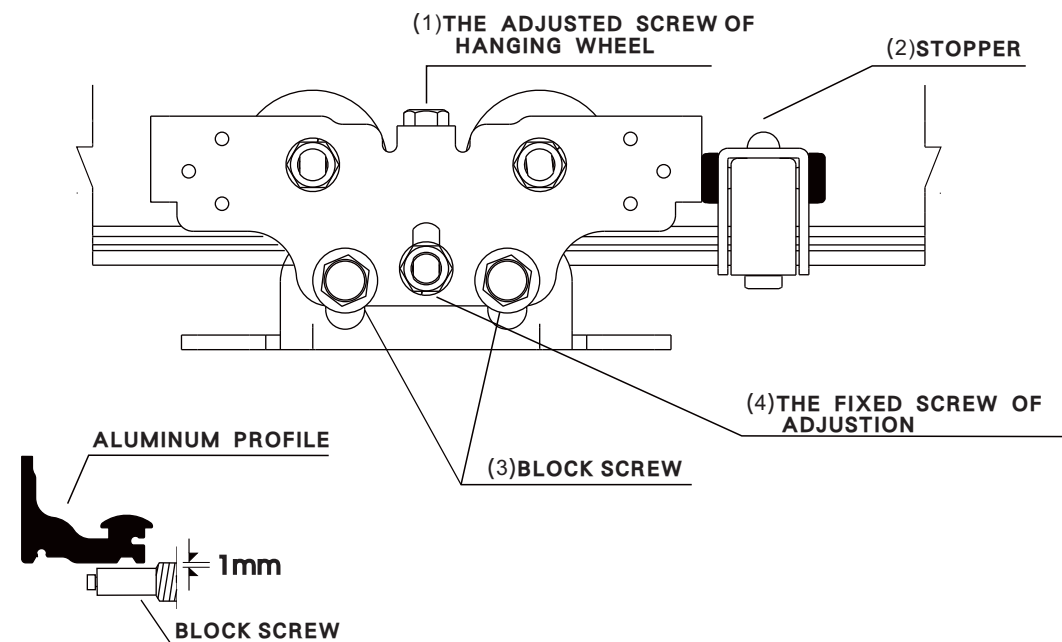


Inside the room, the distance between the HANGING TWIN-WHEEL and the RIM of DOOR must be more than 50mm.

## INSTALL THE RACK BELT



## ADJUST THE DOOR-LEAF



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

CN8 Inner Sensor	1	TEST-	BROWN	TEST-	SSR-3 (INNER)
	2	TEST+	GRAY	TEST+	
	3	COM	GREEN	COM	
	4	ACT	WHITE	ACT	
	5	COM	BLUE	COM	
	6	SAF	YELLOW	SAF	
	7	0V	BLACK	0V	
	8	24V	RED	24V	
CN7 Outer Sensor	9	TEST-	BROWN	TEST-	SSR-3 (OUTER)
	10	TEST+	GRAY	TEST+	
	11	COM	GREEN	COM	
	12	ACT	WHITE	ACT	
	13	COM	BLUE	COM	
	14	SAF	YELLOW	SAF	
	15	0V	BLACK	0V	
	16	24V	RED	24V	
CN6 Side Sensor LEFT	17	TEST-	BROWN	TEST-	HR94D1-C1 (SIDE SCREEN) LEFT HAND
	18	TEST+	GRAY	TEST+	
	19	COM	BLUE	COM	
	20	SIDE	YELLOW	SIDE	
	21	0V	BLACK	0V	
	22	24V	RED	24V	
CN5 Side Sensor RIGHT	23	TEST-	BROWN	TEST-	HR94D1-C1 (SIDE SCREEN) RIGHT HAND
	24	TEST+	GRAY	TEST+	
	25	COM	BLUE	COM	
	26	SIDE	YELLOW	SIDE	
	27	0V	BLACK	0V	
	28	24V	RED	24V	
CN3 SAFE Sensor	29	TEST-			SAFE SENSOR
	30	TEST+			
	31	COM		COM	
	32	SAFE		SAFE	
	33	0V		0V	
	34	24V		24V	

SSR-3 SENSOR  
X-No.6 → "N.C."  
Y-No.6 → "ON"

Controller  
II-No.2 → "N.C."  
III-No.4 → "Yes"

SSR-3 SENSOR  
X-No.6 → "N.C."  
Y-No.6 → "ON"

Controller  
II-No.4 → "N.C."  
III-No.5 → "Yes"

HR94D1-C1  
No.6 → "N.C."  
No.8 → "ON"

Controller  
II-No.5 → "N.C."  
III-No.6 → "Yes"

HR94D1-C1  
No.6 → "N.C."  
No.8 → "ON"

Controller  
II-No.6 → "N.C."  
III-No.7 → "Yes"

\*Please select the correct "N.C./N.O. position" for "Fingered Switch II" of Controller and "Dipswitches of Sensor".  
\*About the adjustment of "Fingered Switch II", please refer Page.17.



CN8 Inner Sensor	1	TEST-					
	2	TEST+					
	3	COM		GREEN		COM	
	4	ACT		WHITE		ACT	
	5	COM		BLUE		COM	
	6	SAF		YELLOW		SAF	
	7	0V		BLACK		0V	
	8	24V		RED		24V	

Controller

II-No.2 → "N.C."

CN7 Outer Sensor	9	TEST-					
	10	TEST+					
	11	COM		GREEN		COM	
	12	ACT		WHITE		ACT	
	13	COM		BLUE		COM	
	14	SAF		YELLOW		SAF	
	15	0V		BLACK		0V	
	16	24V		RED		24V	

Controller

II-No.4 → "N.C."

CN6 Side Sensor LEFT	17	TEST-					
	18	TEST+					
	19	COM		BLUE		COM	
	20	SIDE		YELLOW		SIDE	
	21	0V		BLACK		0V	
	22	24V		RED		24V	

Controller

II-No.5 → "N.C."

CN5 Side Sensor RIGHT	23	TEST-					
	24	TEST+					
	25	COM		BLUE		COM	
	26	SIDE		YELLOW		SIDE	
	27	0V		BLACK		0V	
	28	24V		RED		24V	

Controller

II-No.6 → "N.C."

CN3 SAFE Sensor	29	TEST-					
	30	TEST+					
	31	COM				COM	
	32	SAFE				SAFE	
	33	0V				0V	
	34	24V				24V	

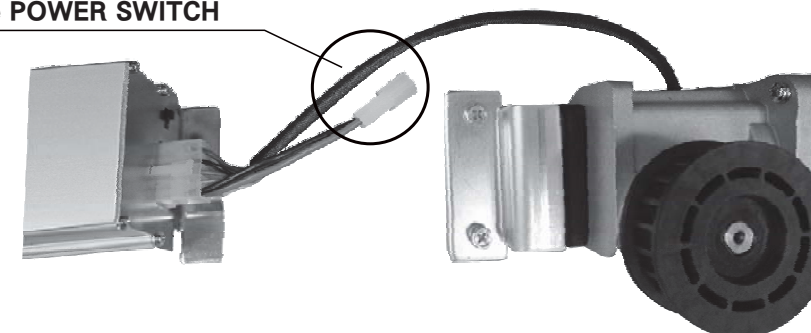
Controller

II-No.6 → "N.C."

\*Please select the correct "N.C./N.O. position" for "Fingered Switch II" of Controller and "Dipswitches of Sensor".  
\*About the adjustment of "Fingered Switch II", please refer Page.17.

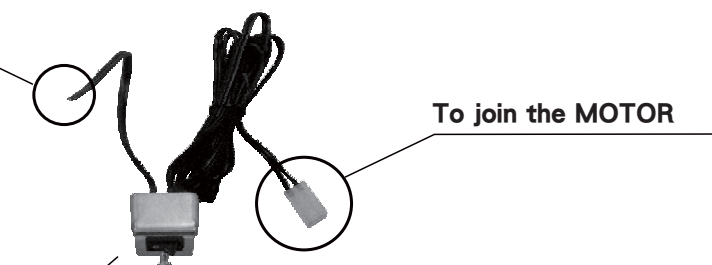
## ELECTRIC CONNECTION

To join the POWER SWITCH



The ILLUSTRATED of CONTROLLER and MOTOR.

Power supply (input)  
Either AC100V~240V



POWER SWITCH

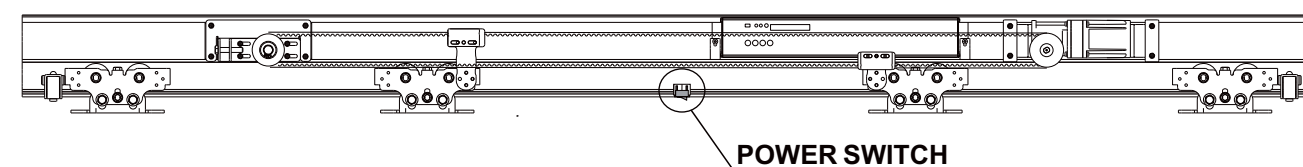


Warning

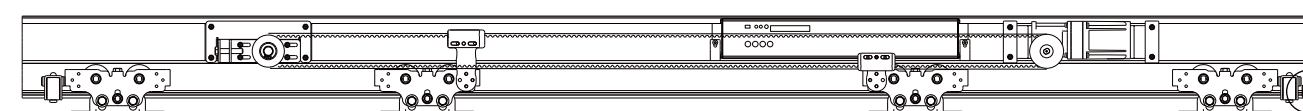
Please confirm WHETHER the SENSOR VOLTAGE is the same as the power supply. If different between them, need to add the TRANSFORMER, otherwise the SENSOR would be burned.

## POWER SWITCH

It can be installed at the MIDDLE of the ALUMINUM PROFILE or the SIDE.

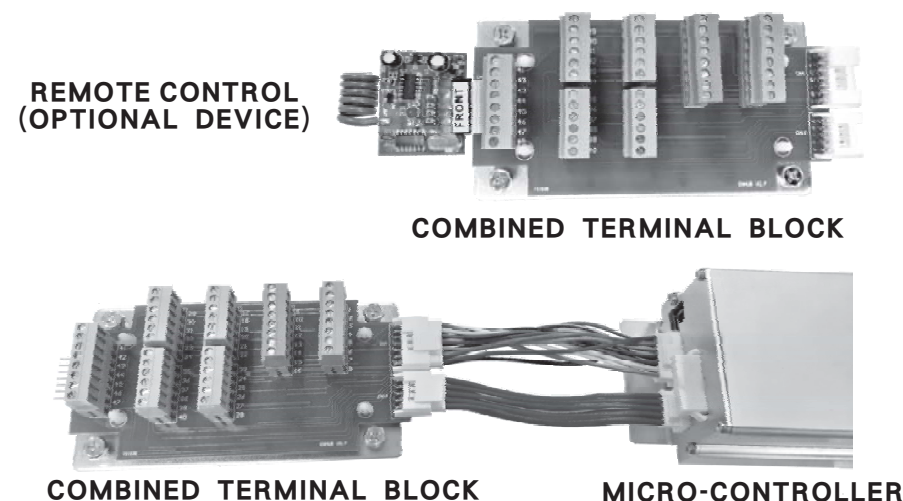


POWER SWITCH

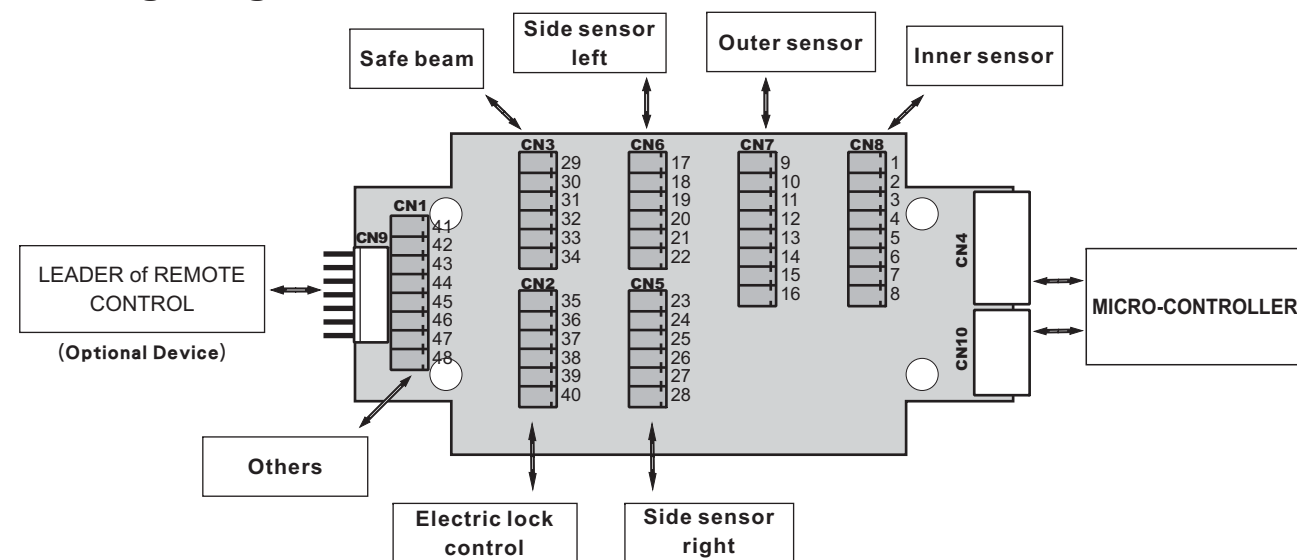


POWER SWITCH

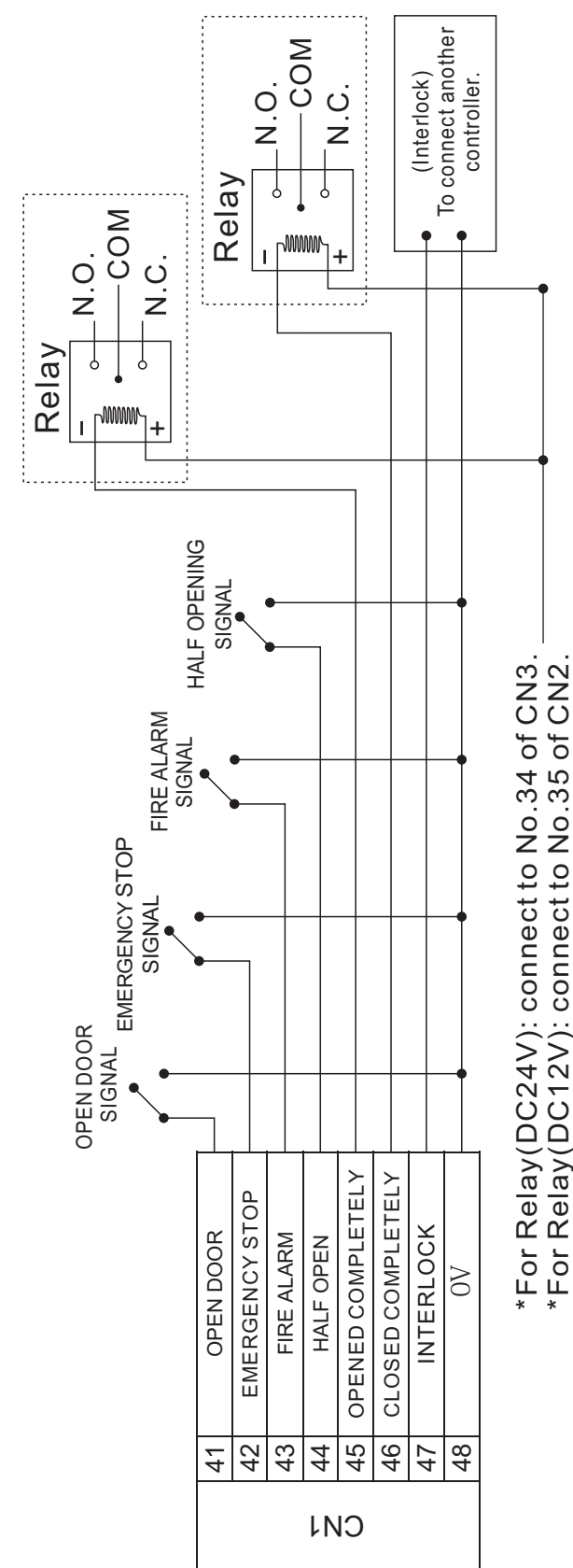
## The ILLUSTRATED of WIRING.



## Wiring diagram



- (A) No.39 and No.40 of Terminal block CN2 are for ELECTRONIC LOCK enable ; No.35 provides power +12V ; No. 36 provides N.O. (Normal Open) contact ; No. 37 provides N.C. (Normal Close) contact. Only when No.38 and No.39 short circuit No.36 and No.37 will have functions.
- (B) The SIGNAL of the SAFETY BEAM is controlled by CN3 terminal block. When door is opening and running, CN3 terminal block keeps receiving the signal, then the SAFETY BEAM will be working. CN3 terminal block 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 CN5 and CN6. 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 with normally speed.



\* For Relay(DC24V): connect to No.34 of CN3.

\* For Relay(DC12V): connect to No.35 of CN2.



**Warning**

\*Relay it should be with built in diode.

\*Relay Suggested model: OMRON MY2N-J-D2-J (It's arranged by customers)

