

# Automatic Door Systems



**AD-3E**

Single-winged / Bi-parting  
( EN16005 )

<http://www.kthtw.com>  
e-mail: [kth@kthtw.com](mailto:kth@kthtw.com)

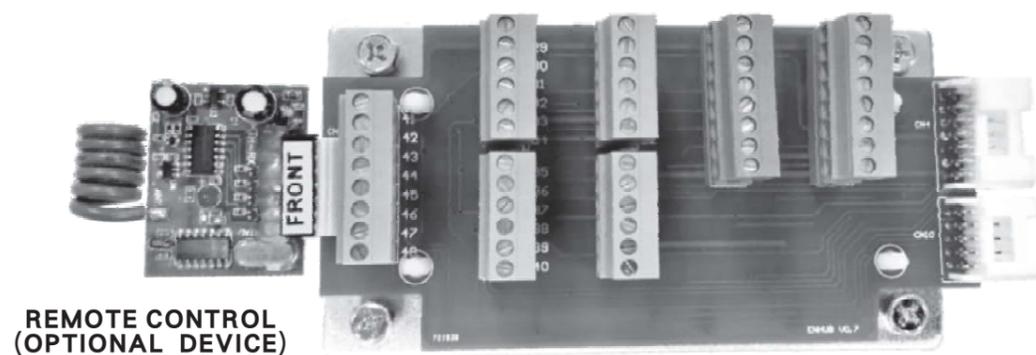
**OPERATION INSTRUCTION**



**(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.

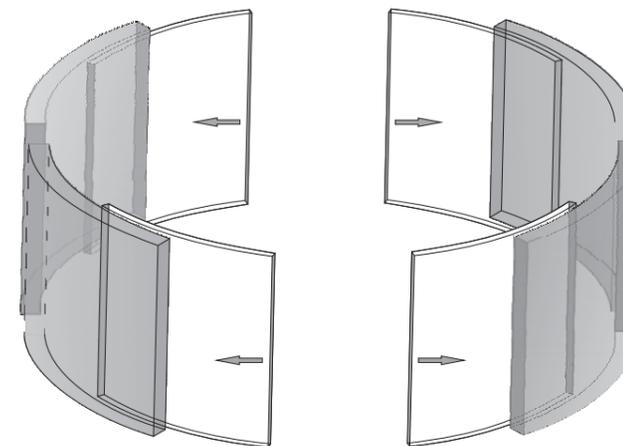
**Connection of Illustrations**



COMBINED TERMINAL BLOCK

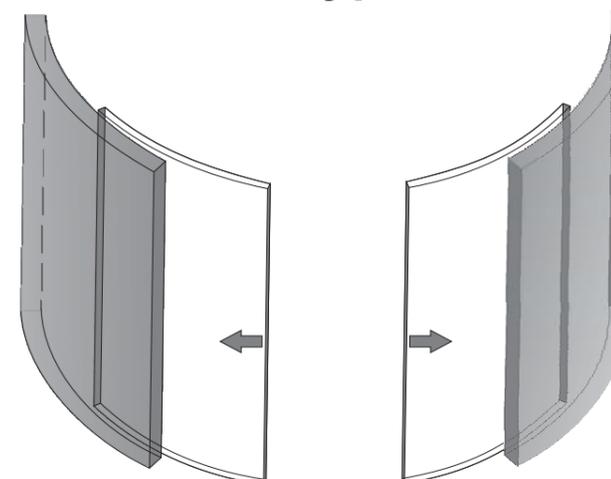
Our company has the following series of automatic door, please contact with our distributors/representations.

**Round type door**



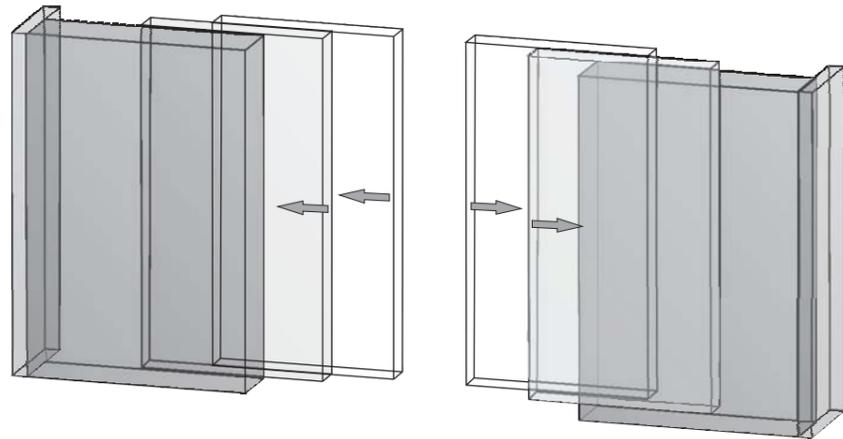
Installation: Please in accordance with the instruction of Round Type Door.

**Curved type door**



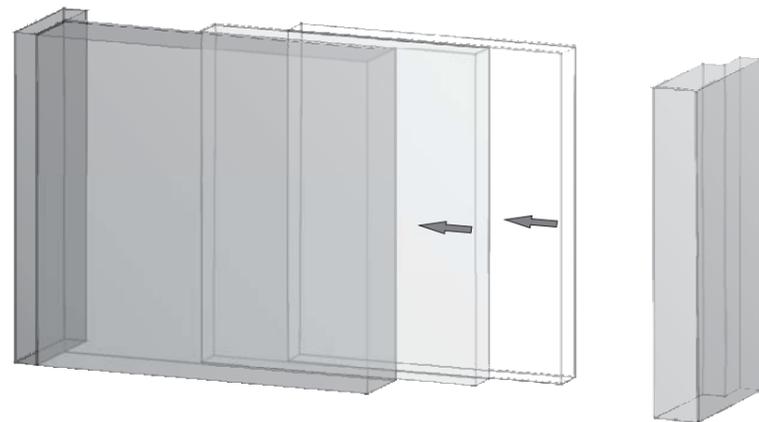
Installation: Please in accordance with the instruction of Curved Type Door.

### 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.

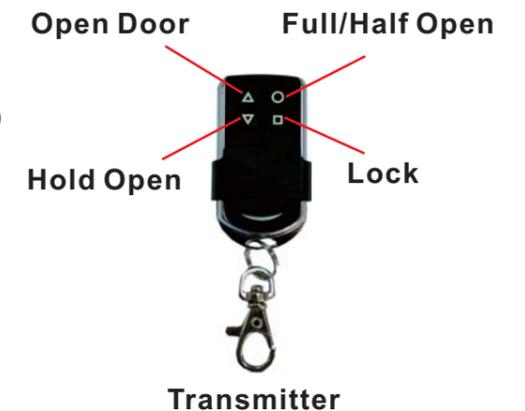
#### (B) Technical data :

##### 1 · Transmitter :

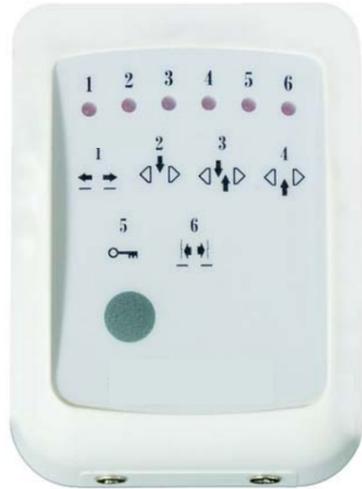
Power supply : GP 23A (12V)  
 Frequency : 433.92Mhz  
 Power consumption during operation : About 9mA (12V)  
 Stand by power consumption : 1uA  
 Transmit power : About - 15dbm

##### 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**



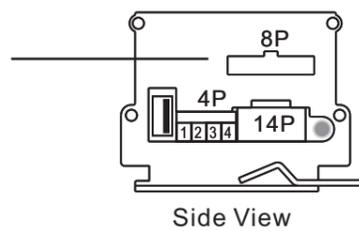
**Six press functions:**

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**



Front View

**Accessory Cable Notice:**



removable



for MICRO-CONTROLLER

1. COMPONENTS SPECIFICATION.....	P1
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4. SECTIONAL DRAWING.....	P4
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CONNECT ( monitored sensor1 ).....	P14
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14. TEST AND ADJUST - 1.....	P16
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18. APPENDIX(1) FUNCTION SWITCH(Optional Device)...	P23
19. APPENDIX(2) REMOTE CONTROL(Optional Device)...	P24



MICRO-CONTROLLER



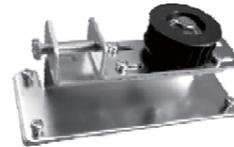
WORM GEAR MOTOR



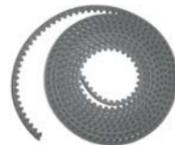
POWER SWITCH



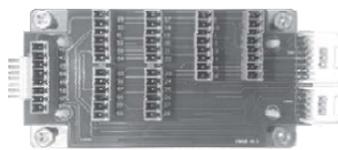
SENSORS (OPTIONAL DEVICE)



BELT ROLLER

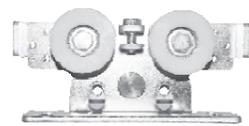


RACK BELT



COMBINED TERMINAL BLOCK

(BI-PARTING)HANGERS & IRON PARTS



HANGING TWIN-WHEEL 4 PCS



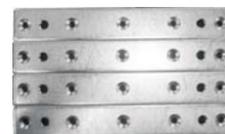
BELT BRACE



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



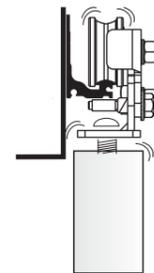
SCREW-8 PCS



DOOR SCREW-8 PCS

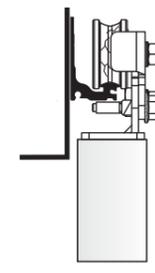
The Door-Leaf sends out abnormal noise in operating.

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



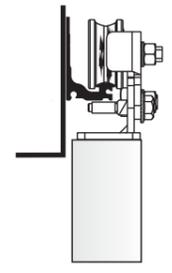
How to solve:  
Refasten the SCREW of HANGING TWIN-WHEEL.

Cause 2  
HANGING TWIN-WHEEL is broken.



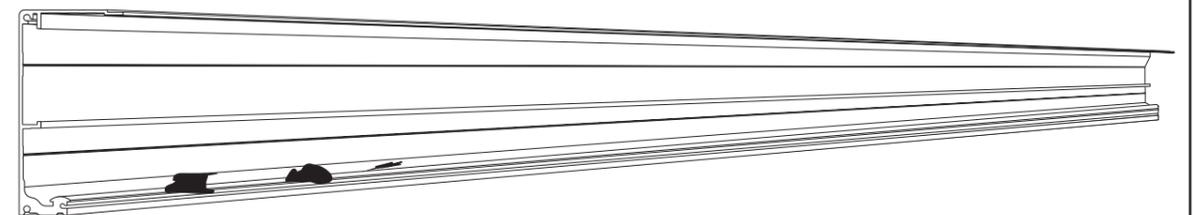
How to solve:  
Replace a new one HANGING TWIN-WHEEL.

Cause 3  
HANGING TWIN-WHEEL is dirty.



How to solve:  
Clean the HANGING TWIN-WHEEL.

Cause 4  
ALUMINUM PROFILE is dirty.

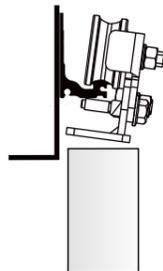


How to solve:  
Clean the ALUMINUM PROFILE.



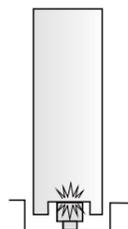
**Door-Leaf isn't smooth in operating.**

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



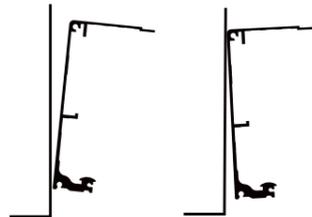
**How to solve:**  
Readjust the  
HANGING TWIN-WHEEL.

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



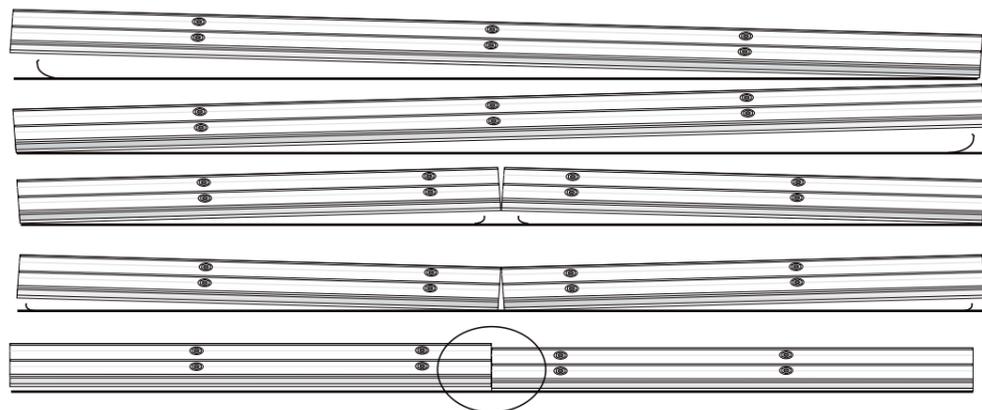
**How to solve:**  
1. Readjust the distance between  
Door and Ground Rail.  
2. Clean up the Ground Rail.

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



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

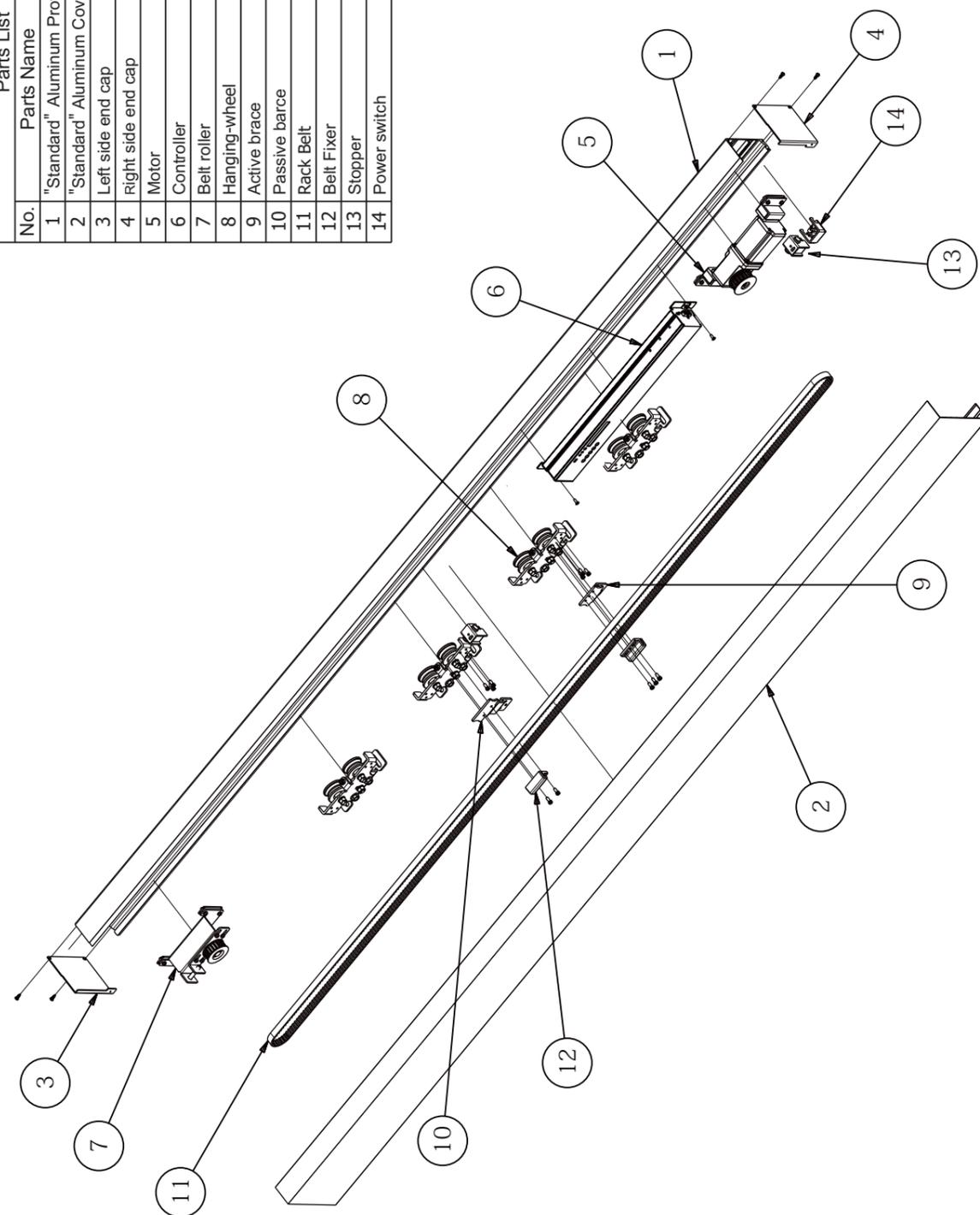
**Cause 4**  
ALUMINUM PROFILE is not at vertical position.



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

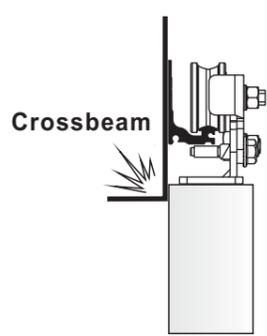
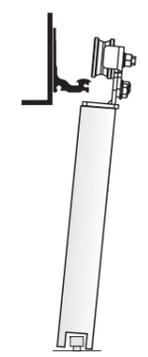
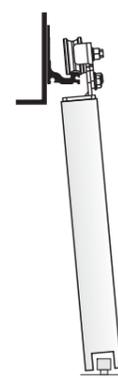
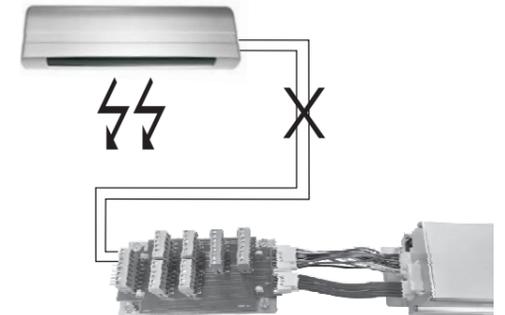


Parts List		Quantity
No.	Parts Name	
1	"Standard" Aluminum Profile	1
2	"Standard" Aluminum Cover	1
3	Left side end cap	1
4	Right side end cap	1
5	Motor	1
6	Controller	1
7	Belt roller	1
8	Hanging-wheel	4
9	Active brace	1
10	Passive barce	1
11	Rack Belt	1
12	Belt Fixer	2
13	Stopper	2
14	Power switch	1

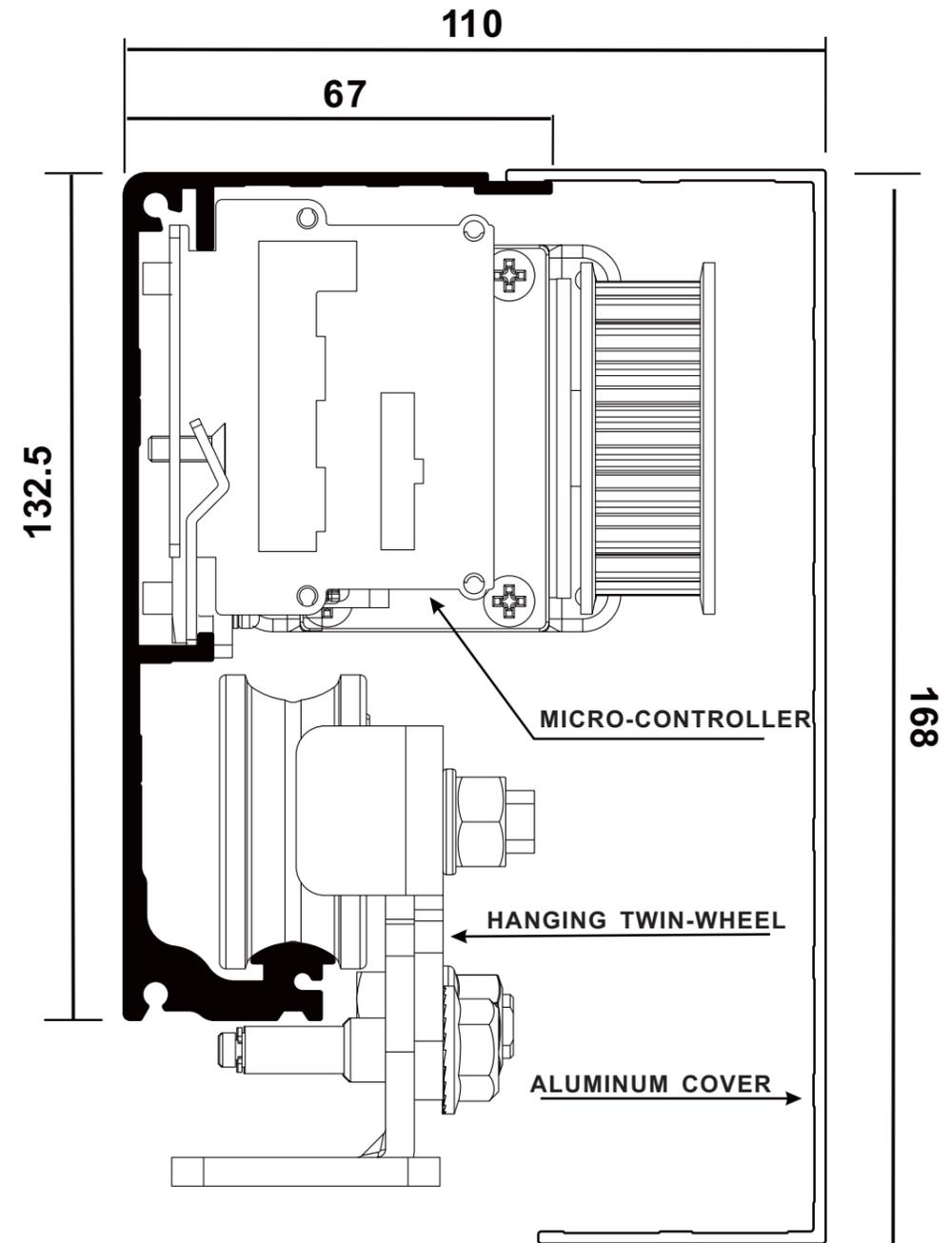


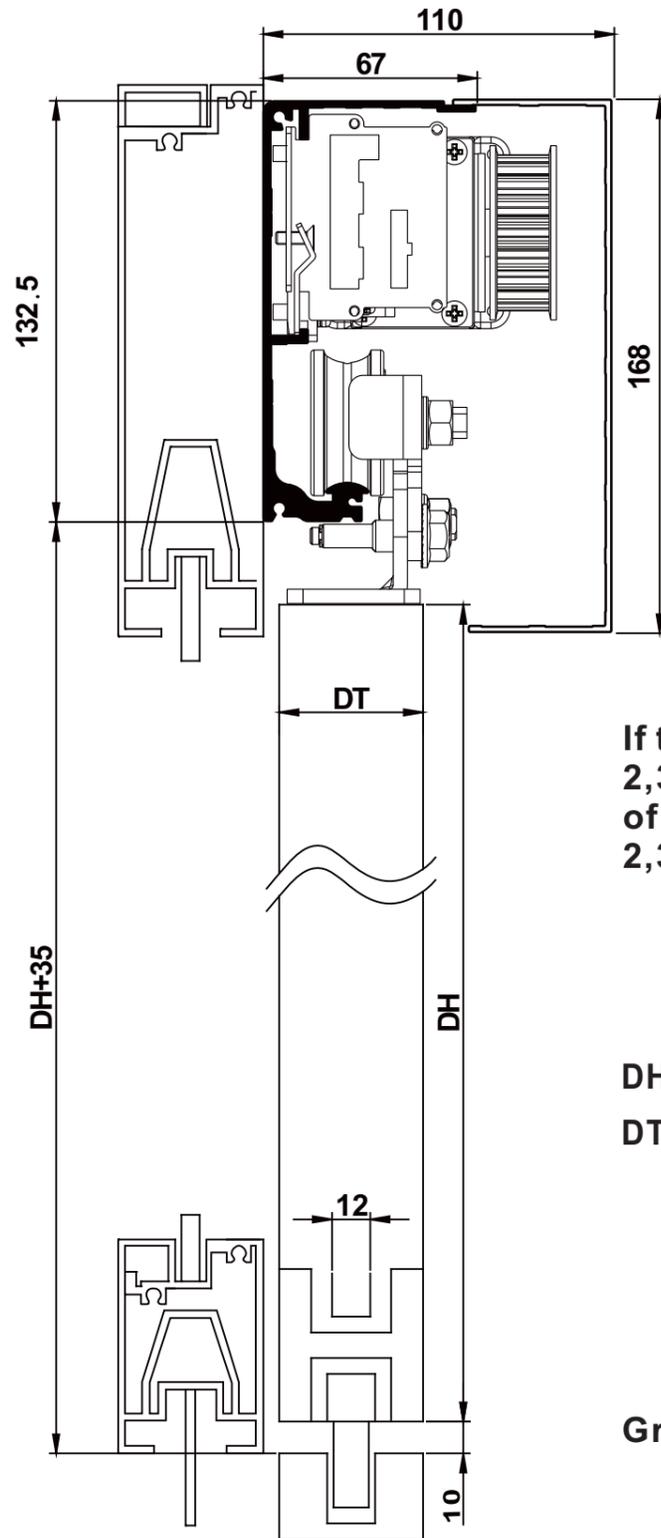
TYPE	AD-3E	
MODEL	SINGLE-WINGED	BI-PARTING
DOOR WEIGHT	150kg X1(door)	130kg X2(door)
DOOR WIDTH	DW=500mm~2500mm	DW=500mm~2500mm
INSTALL WAY	Surface install	Surface install
MOTOR	DC24V 75W WORM GEAR MOTOR	
CONTROL	USER-FRIENDLY MICRO-CONTROLLER	
POWER CONSUMPTION	75W	
VOLTAGE	AC100V~240V	
ENVIRONMENTAL TEMPERATURE	-20°C~+50°C	
VOLUME	60decibel(max.)	
STARTING SPEED	600mm(second)	600mm(second) X 2
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	3.5 kg	

Door can't be opened or closed.

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

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.



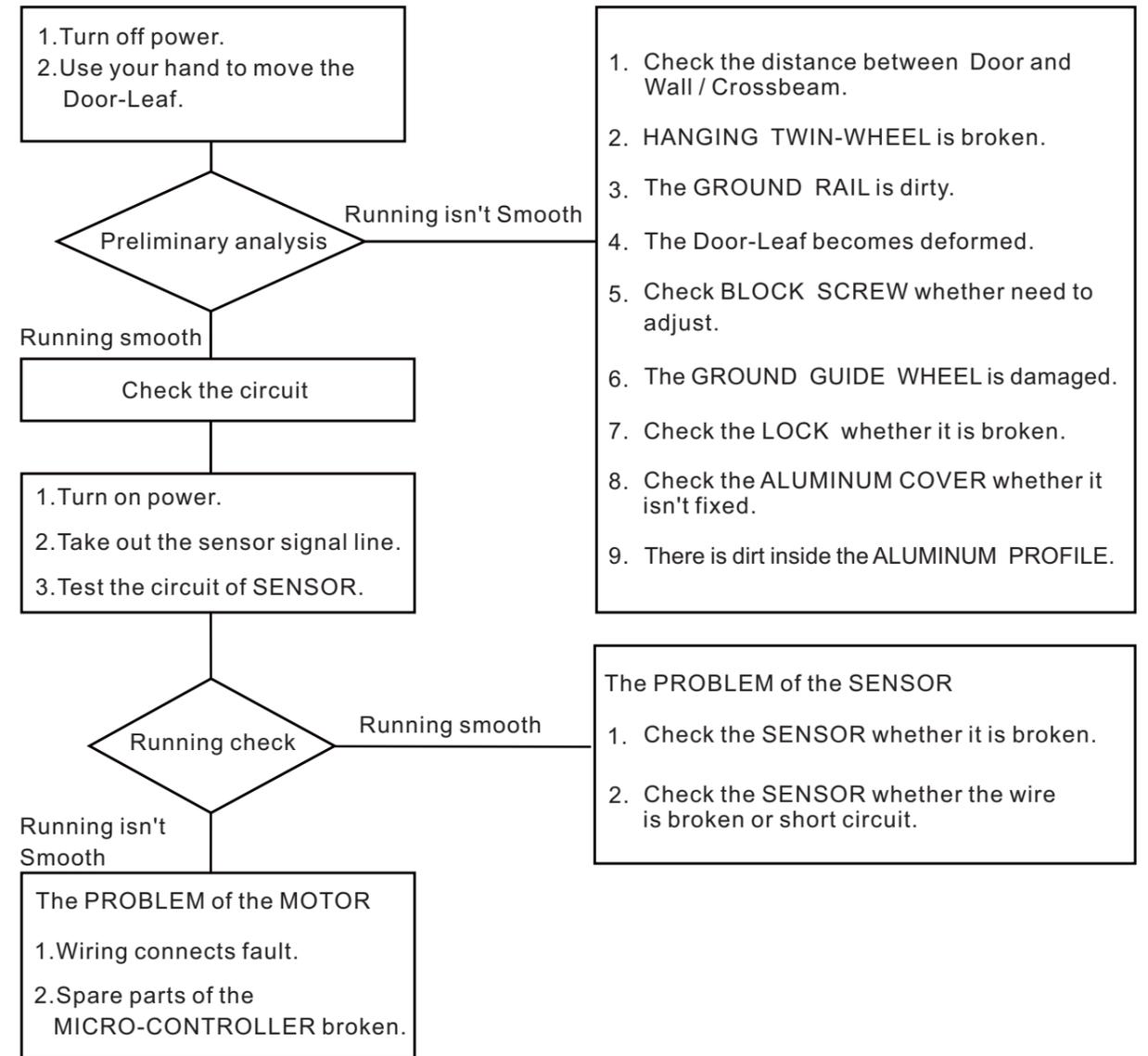


MEASURE : mm

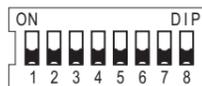
If the height of the Door-Leaf is 2,300mm, then the total height of the ALUMINUM PROFILE is 2,335mm.

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 Slowing Range of Opening**

Short  Long

**2 Slowing range of closing**

Short  Long

**3 4 Open incomplete**

Long Short

**5 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.

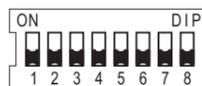
**6 Directional function**

OFF  ON

OFF: Normal mode.

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

**7 8 Standby**



**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

**5 Side Screen Sensor LEFT**  N/O  N/C

**6 Side Screen Sensor Right**  N/O  N/C

**7 Safety 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

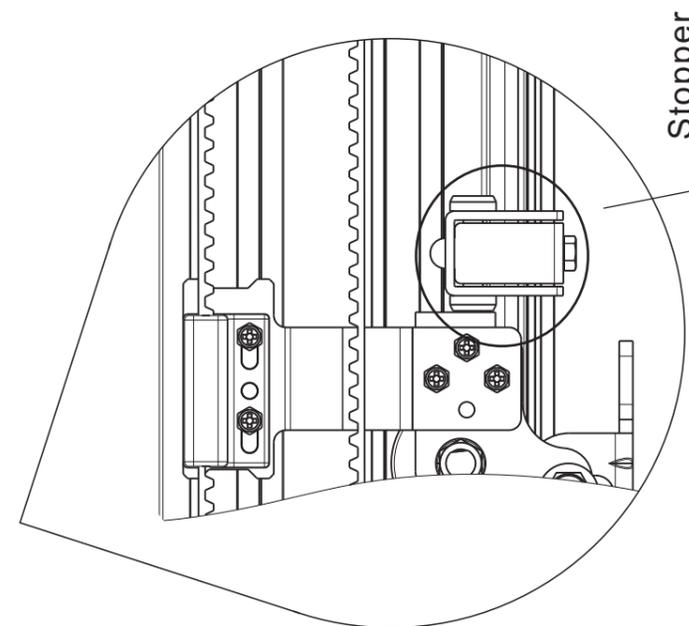
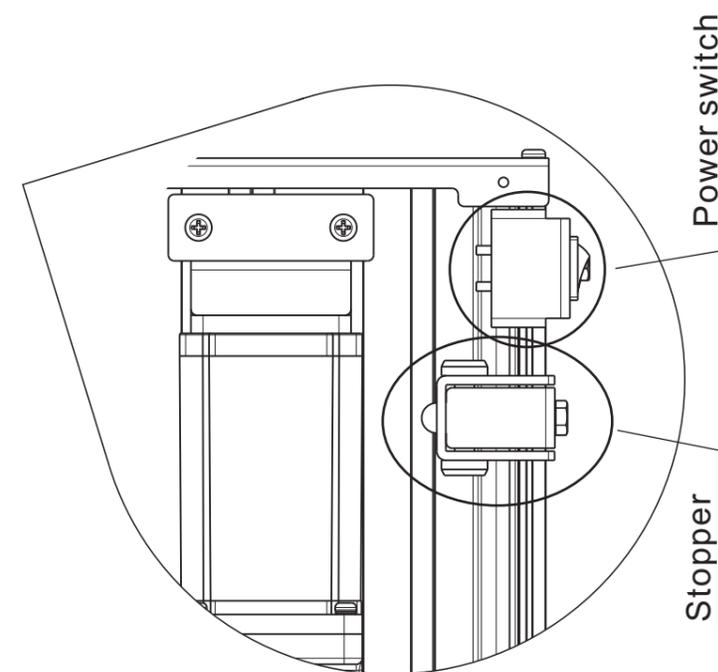
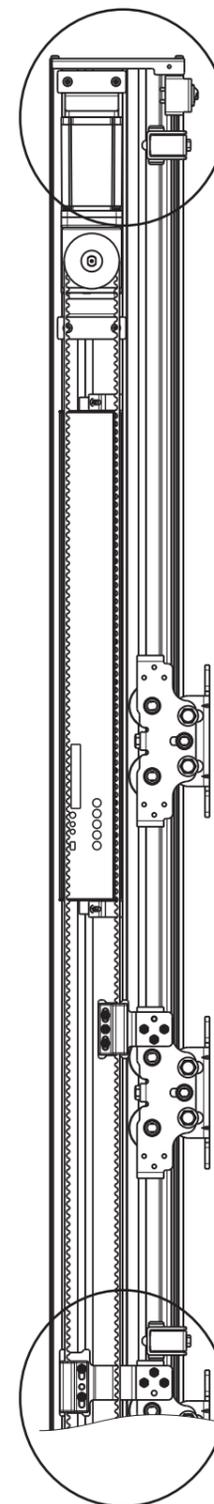
**5 Outer**  No  Yes

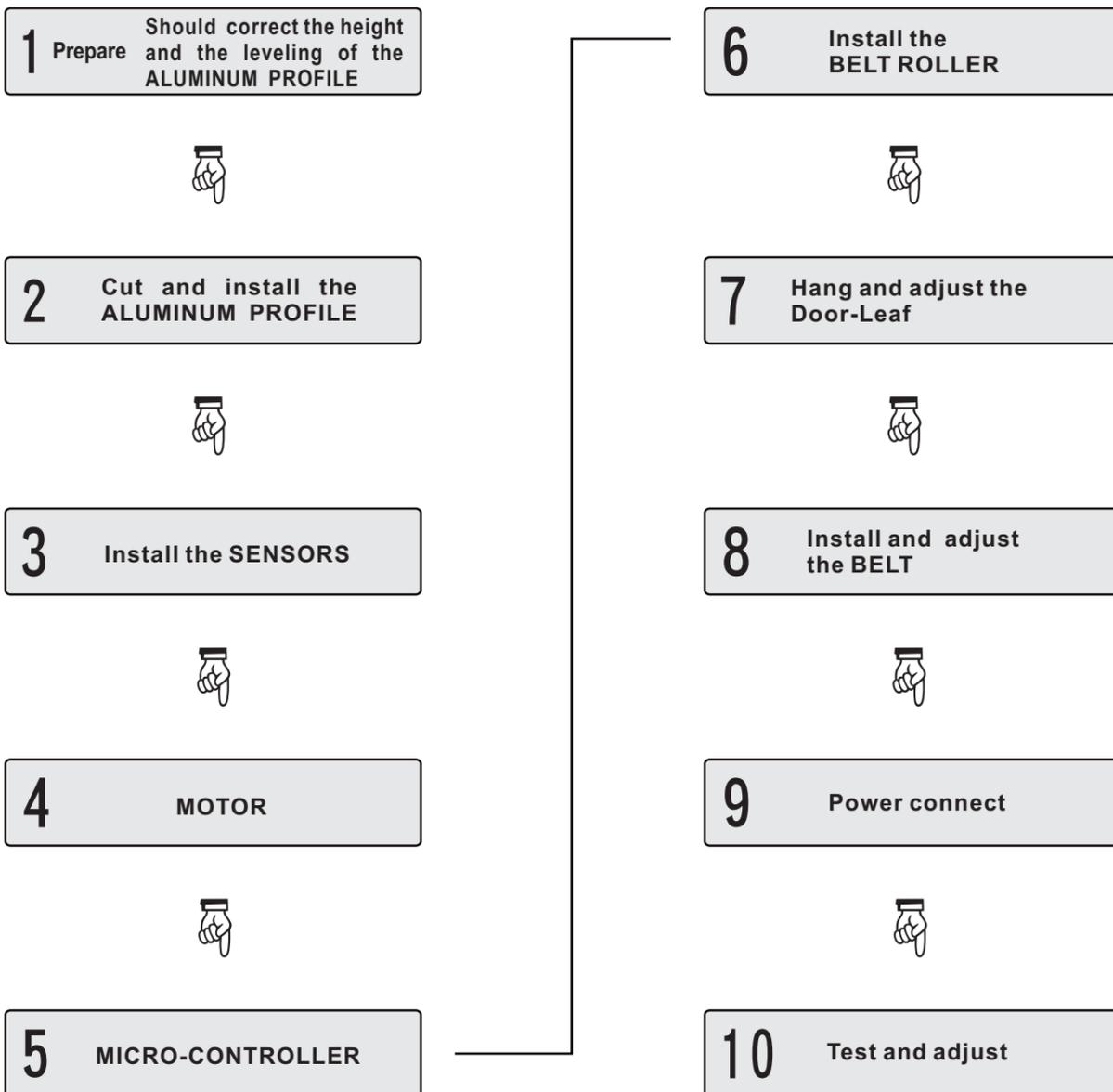
**6 Side(Left)**  No  Yes

**7 Side(Right)**  No  Yes

**8 Safety Beam**  No  Yes

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





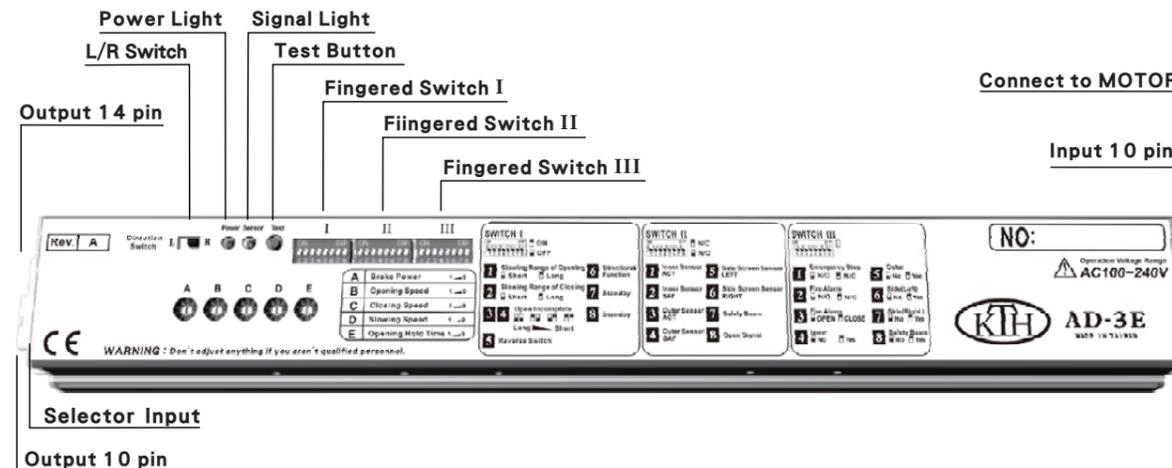
Before turn on the power, make sure the Door-Leaf can be smoothly moved, and the electric link is correct at first.

**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 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.
- 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

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	

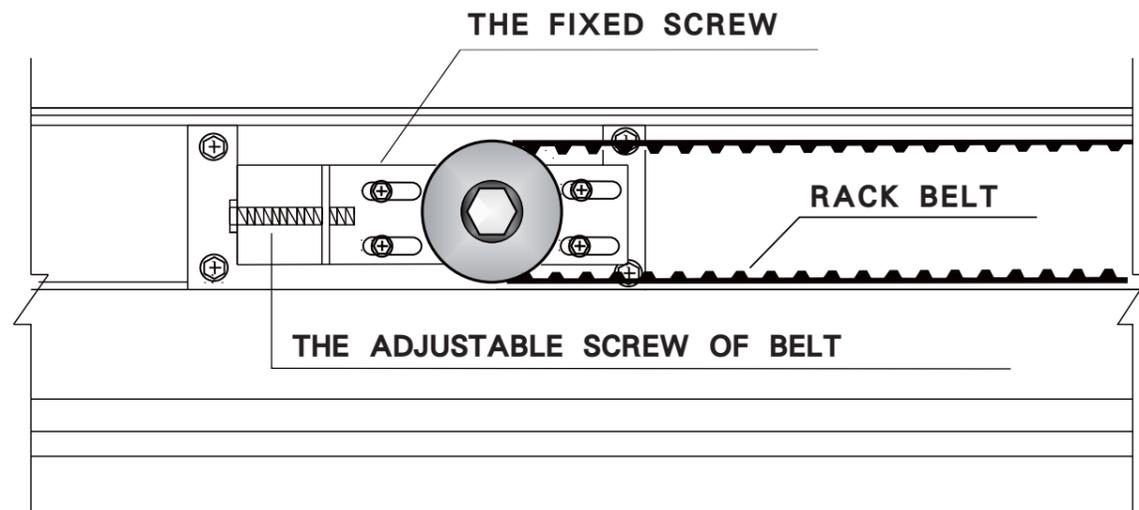
HR94D1-C1  
No.6 → "N.C."  
No.8 → "ON"

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	

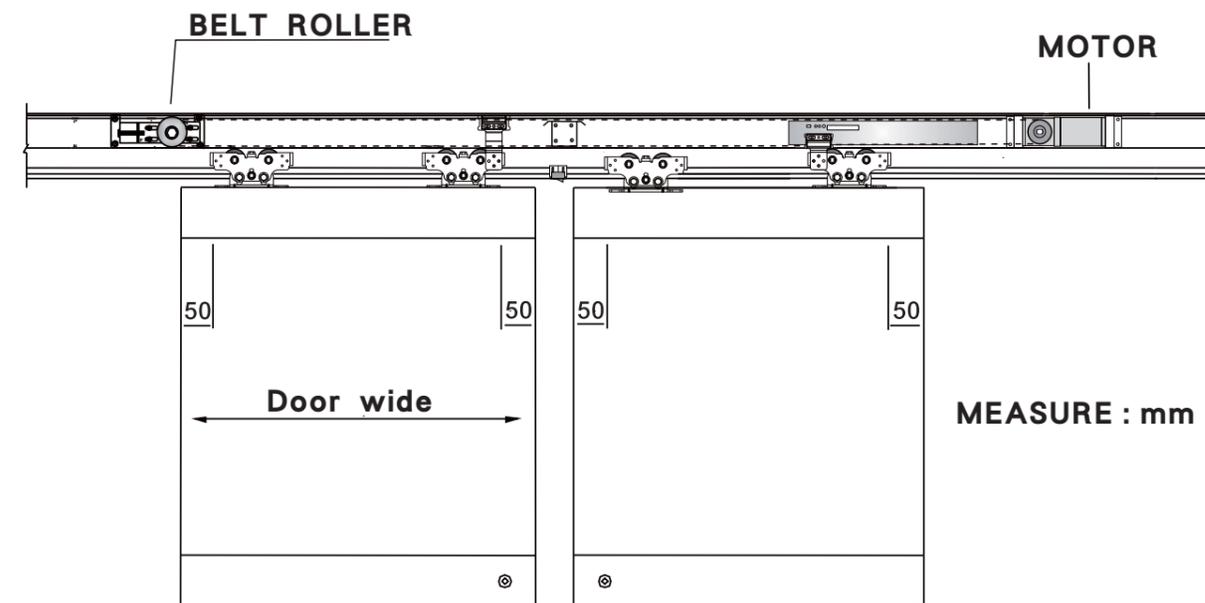
\*Please select the correct "N.C./N.O." position for "Fingered Switch II" of Controller and "Dipswitches of Sensor".  
\*About the adjustment of "Fingered Switch II", please refer Page.17.

INSTALL THE BELT ROLLER



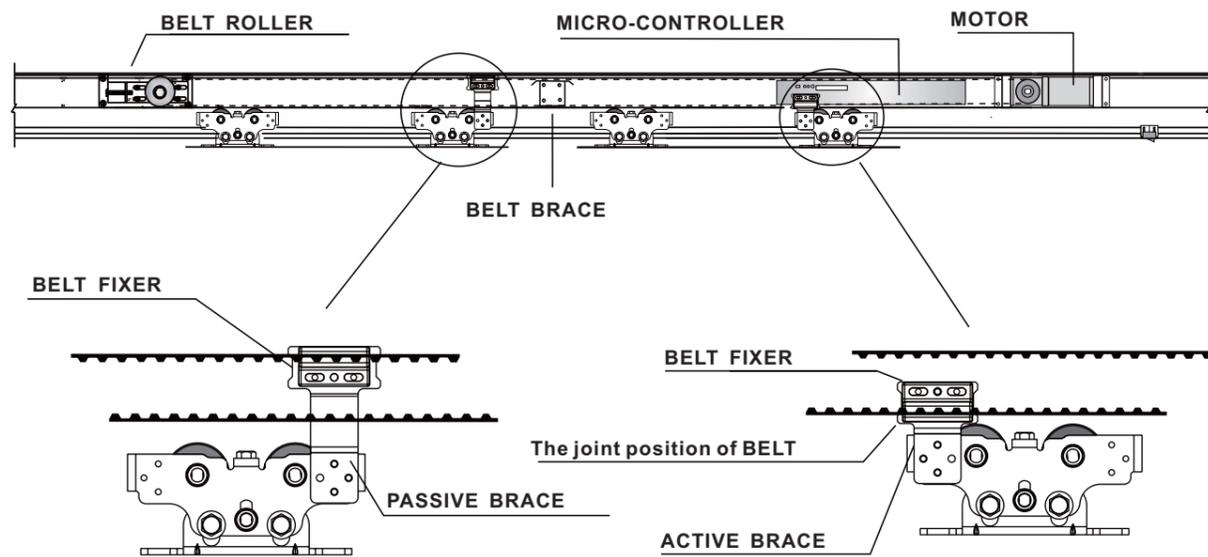
TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.

THE POSITION OF THE HANGING TWIN-WHEEL

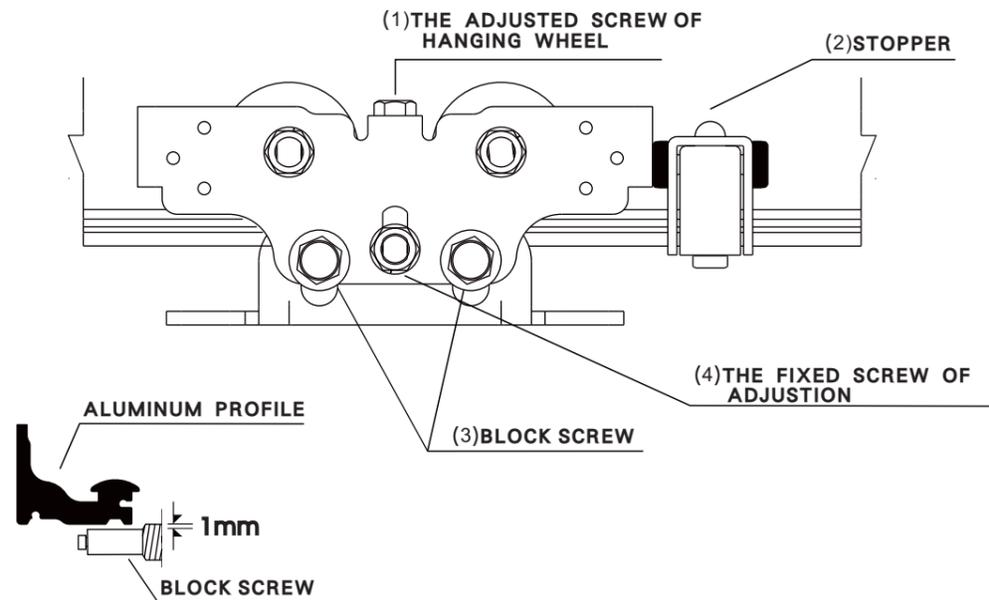


Inside the room, the distance between the HANGING TWIN-WHEEL and the RIM of DOOR must be more than 50mm.

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)	SSR-3 SENSOR X-No.6 → "N.C." Y-No.6 → "ON"	Controller II-No.2 → "N.C." III-No.4 → "Yes"
	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)	SSR-3 SENSOR X-No.6 → "N.C." Y-No.6 → "ON"	Controller II-No.4 → "N.C." III-No.5 → "Yes"
	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	HR94D1-C1 No.6 → "N.C." No.8 → "ON"	Controller II-No.5 → "N.C." III-No.6 → "Yes"
	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	HR94D1-C1 No.6 → "N.C." No.8 → "ON"	Controller II-No.6 → "N.C." III-No.7 → "Yes"
	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			

\*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-	GREEN	COM	HOTRON HR100-2 (INNER)
	2	TEST+			
	3	COM			
	4	ACT			
	5	COM			
	6	SAF			
	7	0V			
	8	24V			

CN7 Outer Sensor	9	TEST-	GREEN	COM	HOTRON HR100-2 (OUTER)
	10	TEST+			
	11	COM			
	12	ACT			
	13	COM			
	14	SAF			
	15	0V			
	16	24V			

CN6 Side Sensor LEFT	17	TEST-	BLUE	COM	HOTRON HR94 (SIDE SCREEN) LEFT HAND
	18	TEST+			
	19	COM			
	20	SIDE			
	21	0V			
	22	24V			

CN5 Side Sensor RIGHT	23	TEST-	BLUE	COM	HOTRON HR94 (SIDE SCREEN) RIGHT HAND
	24	TEST+			
	25	COM			
	26	SIDE			
	27	0V			
	28	24V			

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

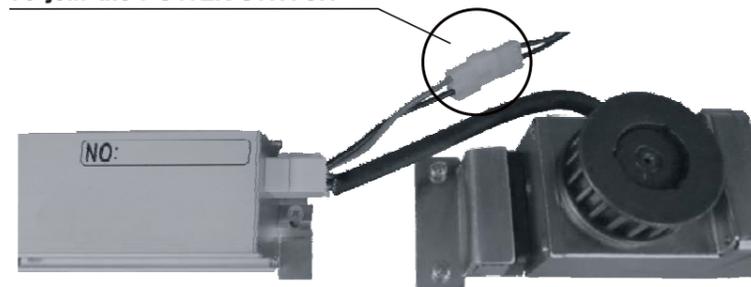


Controller II-No.2 → "N.C."  
Controller II-No.4 → "N.C."  
Controller II-No.5 → "N.C."  
Controller II-No.6 → "N.C."

\*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.

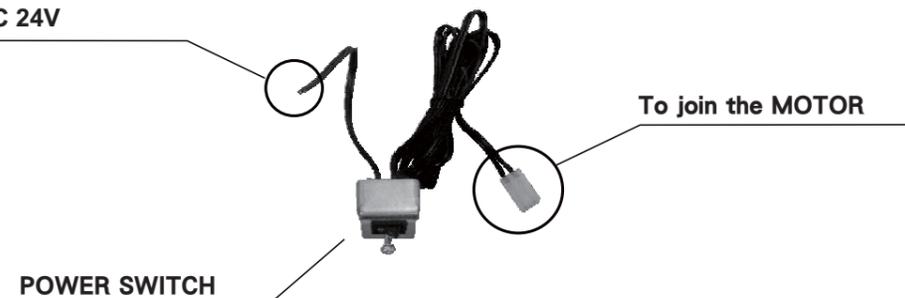
### ELECTRIC CONNECTION

To join the POWER SWITCH



The ILLUSTRATED of CONTROLLER and MOTOR.

Power supply (input)  
Either DC 24V

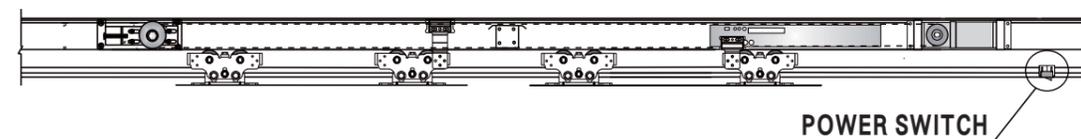
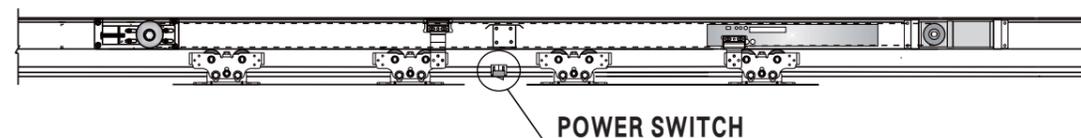


**Warning**

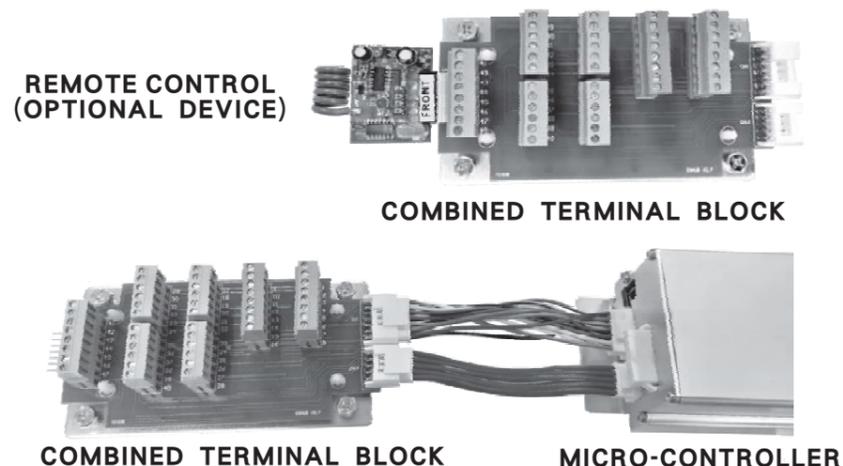
Please confirm WHETHER the SENSOR VOLTAGE is the same as the power supply. If different between them, need to add the TRANSFORMER, otherwise the SENSOR would be burned.

### POWER SWITCH

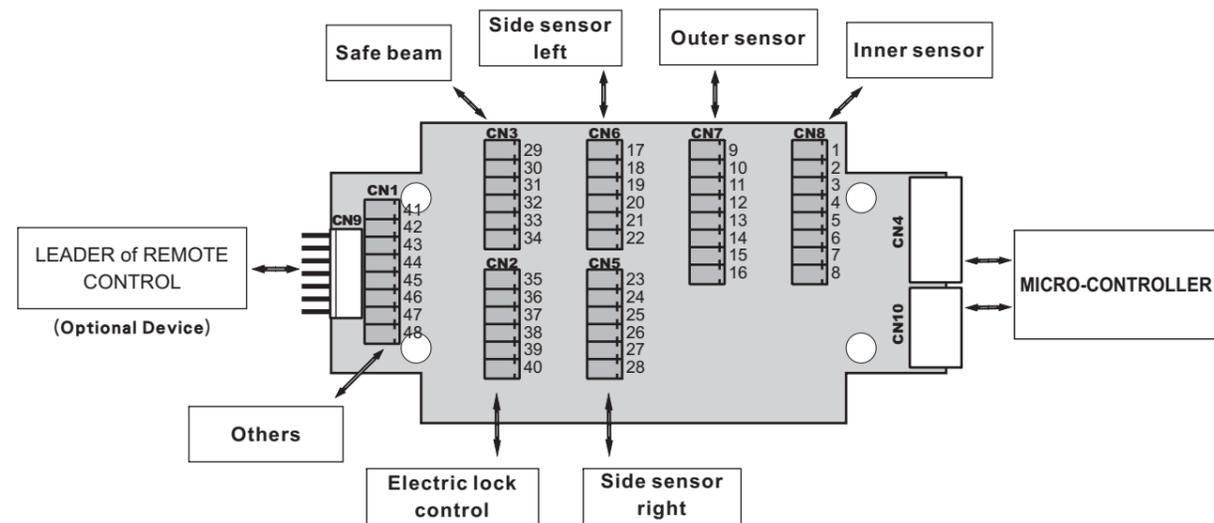
It can be installed at the MIDDLE of the ALUMINUM PROFILE or the SIDE.



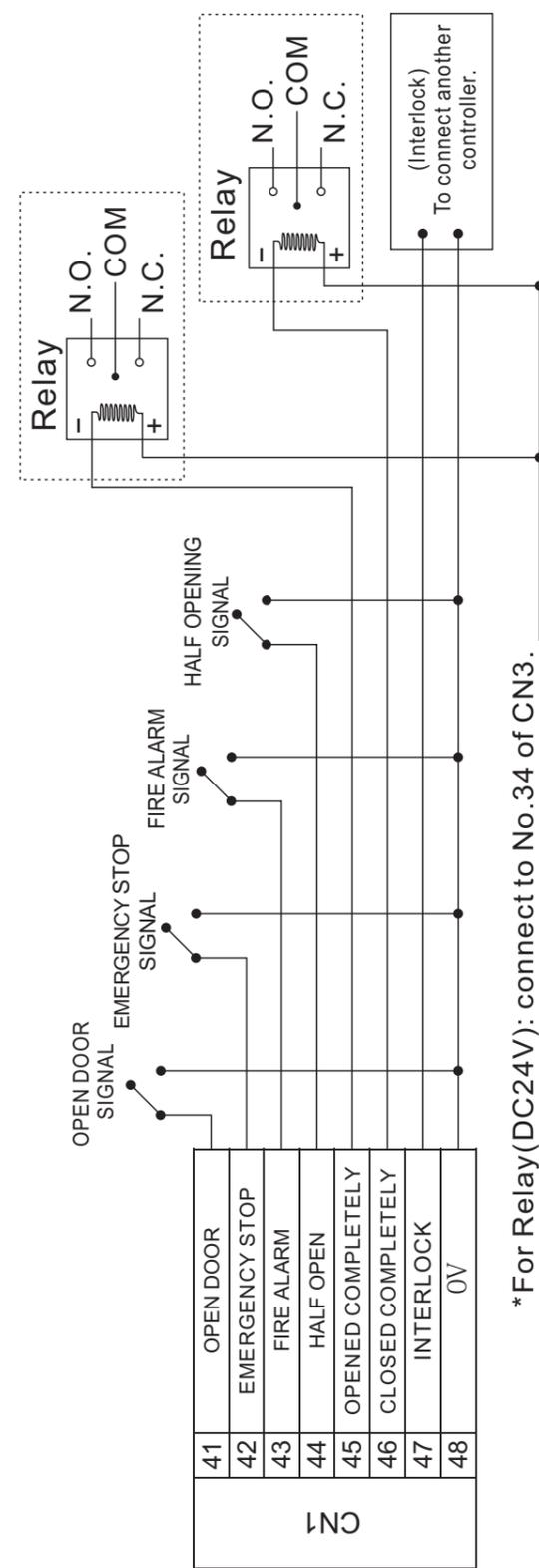
The ILLUSTRATED of WIRING.



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)

