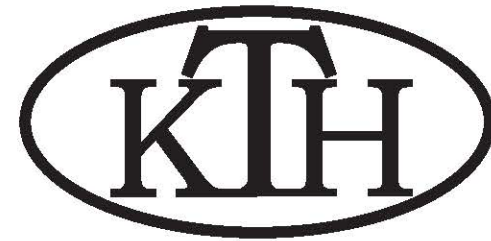


Automatic Door Systems



H-5

Single-winged / Bi-parting

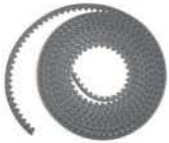
OPERATION INSTRUCTION



MICRO-CONTROLLER



BRUSHLESS DC MOTOR



RACK BELT



SENSORS (OPTIONAL DEVICE)



COMBINED TERMINAL BLOCK (OPTIONAL DEVICE)



BELT ROLLER

(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



BLOCK SCREW-8 PCS



GROUND WHEEL -2PCS (OPTIONAL PART)



SCREW-8 PCS

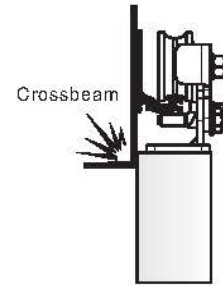


DOOR SCREW-8 PCS



Door cant 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.



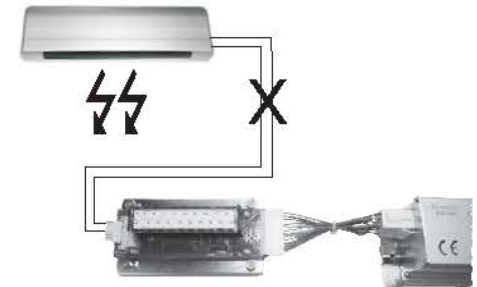
How to solve:
Put the Door-Leaf into the ALUMINUM PROFILE again.

Cause 4
Door-leaf does not horizontal.

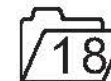


How to solve:
Adjust the Ground Guide Rail/Wheel position.

Cause 5
SENSOR is broken or disconnects to the MICRO-CONTROLLER.



How to solve:
1.If SENSOR is broken please change a new one.
2.Check SENSOR whether it connects to the MICRO-CONTROLLER.



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.
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.
	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	H-5	
MODEL	SINGLE-WINGED	BI-PARTING
DOOR WEIGHT	250kg X1 (door)	200kg X2 (door)
DOOR WIDTH	DW=500mm~1200mm	DW=500mm~2400mm
INSTALL WAY	Surface install	Surface install
MOTOR	DC24V 100W BRUSHLESS DC MOTOR	
CONTROL	STANDARD MICRO-CONTROLLER	
POWER CONSUMPTION	100W	
VOLTAGE	AC100V~240V	
ENVIRONMENTAL TEMPERATURE	-20℃~+50℃	
VOLUME	60decibel(max.)	
STARTING SPEED	600mm(second)	550mm X 2(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	

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.

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

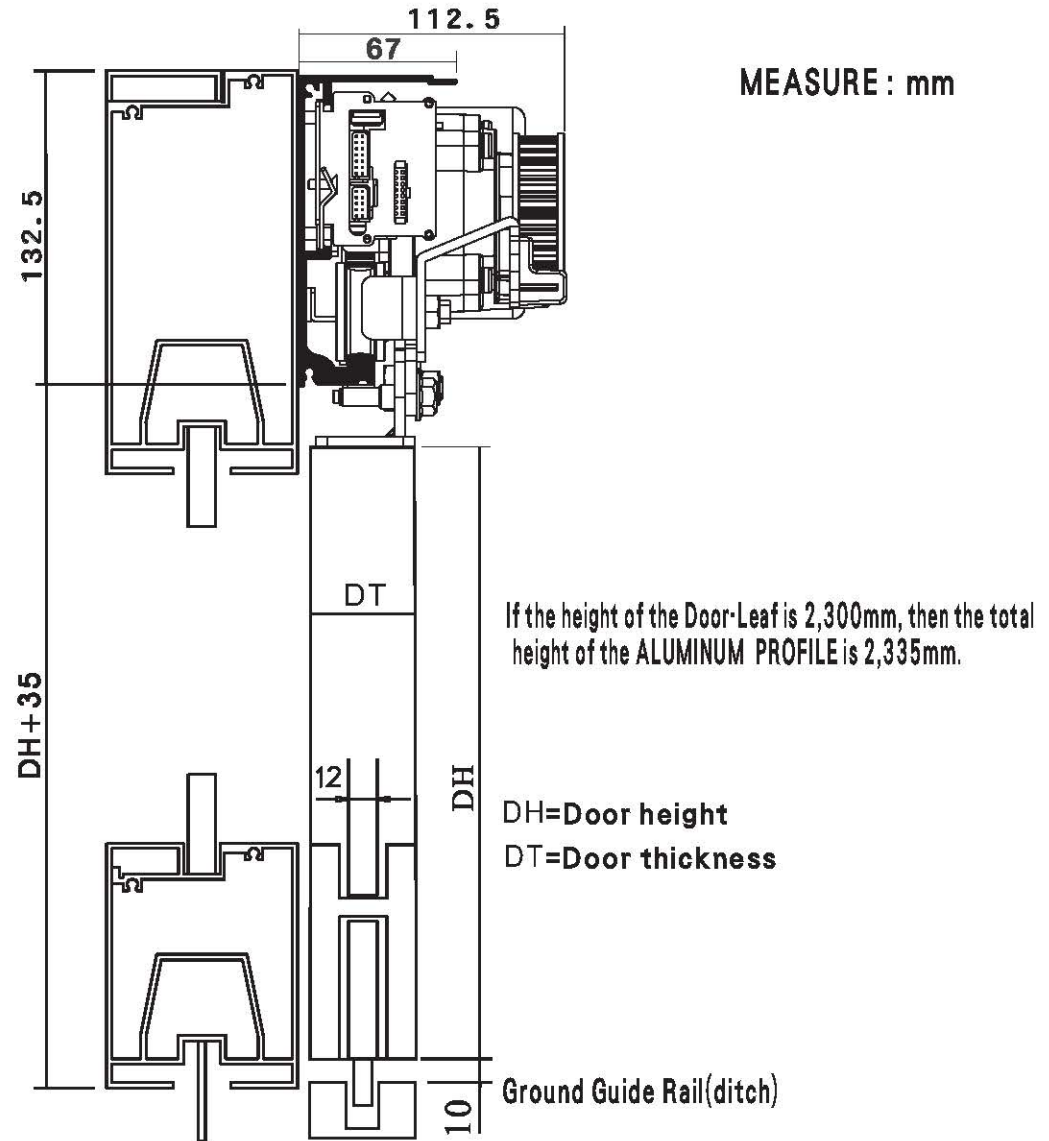
9 Adjust the SLOW SPEED
Higher number, faster speed.

CAUTION: please adjust the number one by one from low to high.

H 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



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

 **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.

 **C** The opening speed of the door

9 Adjust the OPEN SPEED
Higher number, faster speed.
CAUTION: please adjust the number one by one from low to high.

 **D** The slowing range of opening door

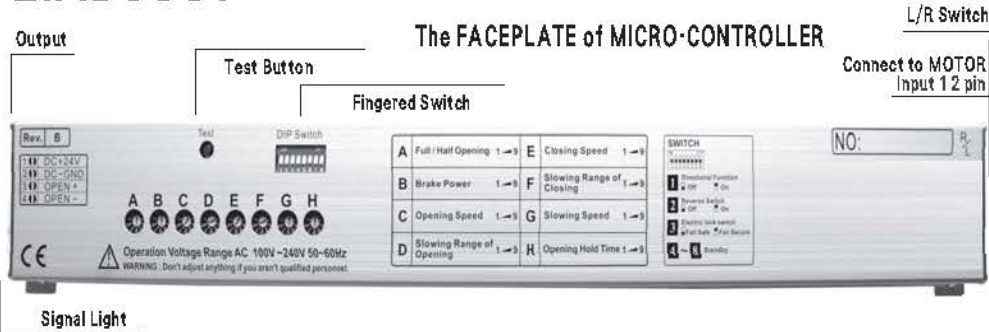
Adjust the SLOW RANGE of OPENING DOOR
Higher number, more range about the slow range at open door position.
CAUTION: please adjust the number one by one from high to low.

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/left(R/L).

DIP Switch- Pin 1 - Directional Function

Operation $\left\{ \begin{array}{l} \text{OFF: Normal mode.} \\ \text{ON: push once, open the door. Push again, close the door.} \end{array} \right.$

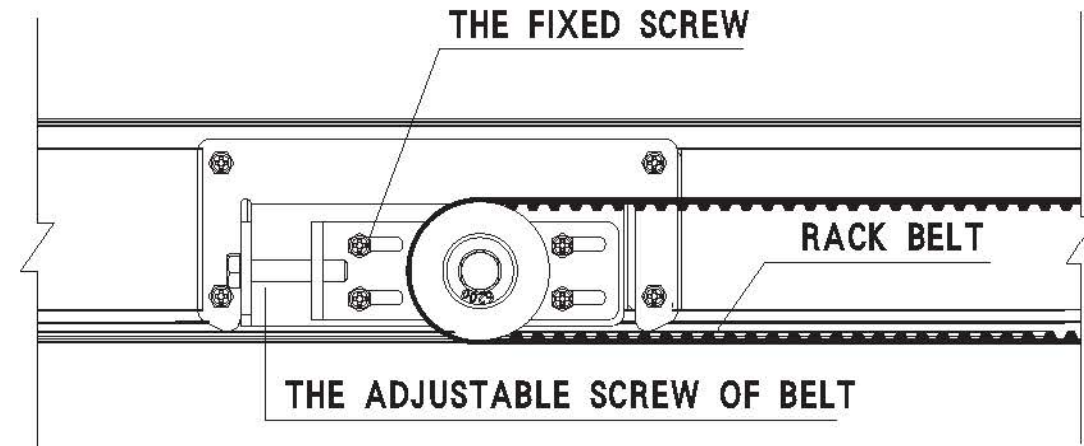
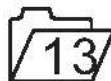
DIP Switch- Pin 2- Reverse Switch: in order to control opening and closing direction of the Door-Leaf after power resumes.

Operation $\left\{ \begin{array}{l} \text{OFF: Normal mode, after power resumes, the Door-Leaf opens the door first.} \\ \text{ON: suitable for Security System, after power resumes, the Door-Leaf closes the door first.} \end{array} \right.$

DIP Switch- Pin 3 - Electric lock switch

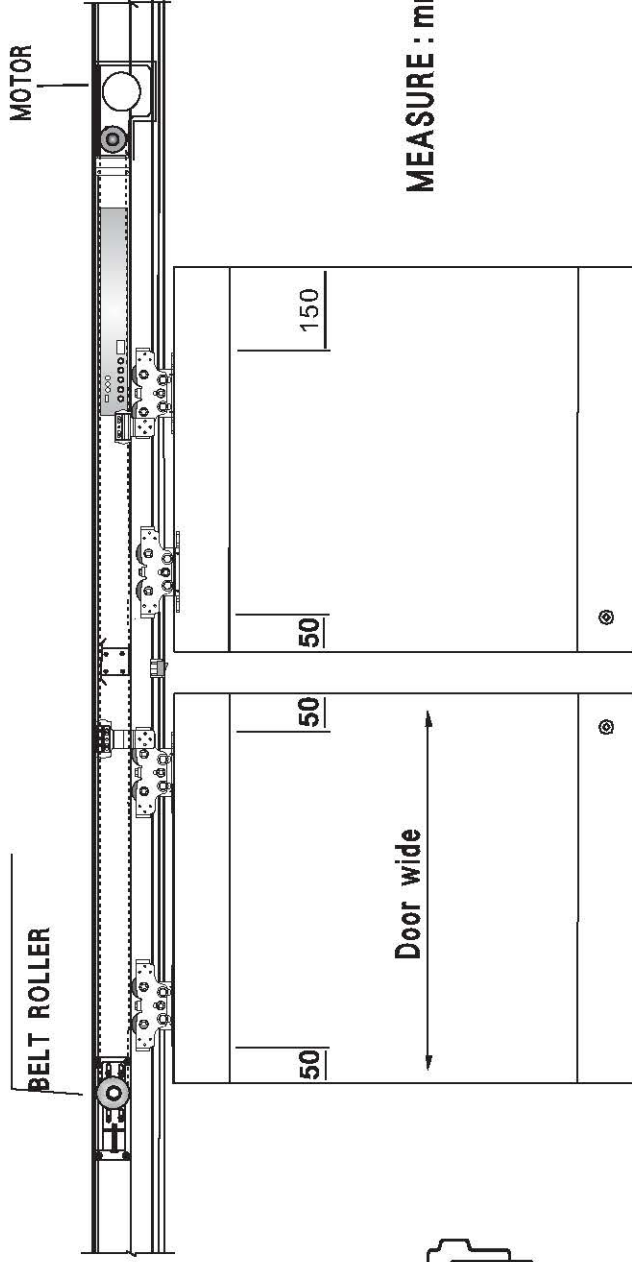
Fail Safe Fail Secure

Fingered Switch-Pin4 ~ Pin 8 - Standby

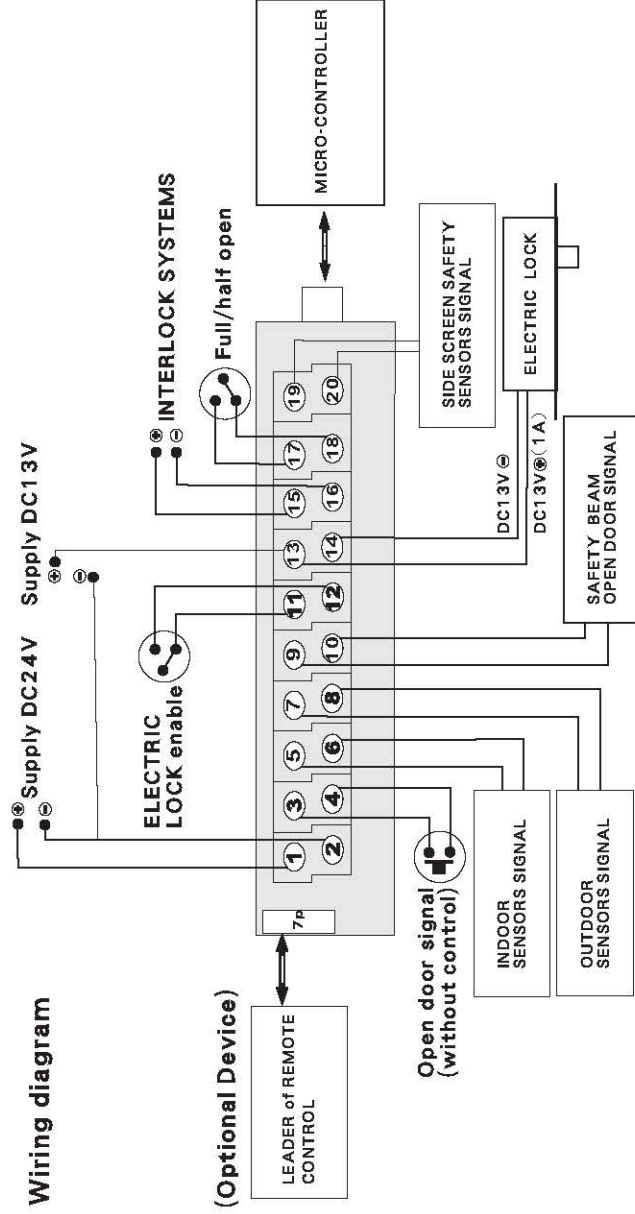


TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.





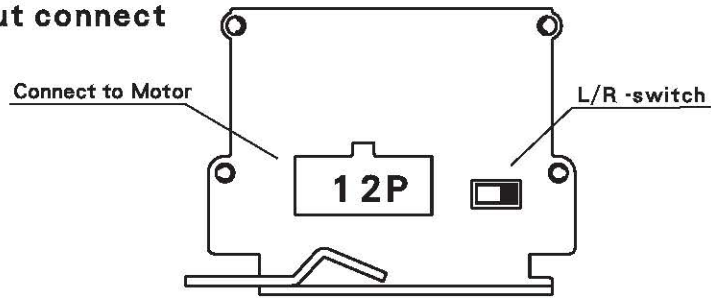
Inside the room, the distance between the “right side hanging-wheel” and “the edge of door” must be more than 150mm.



- (A) The FUNCTION of the ELECTRIC LOCK will work when ① and ② are short circuit, then ③ and ④ will output DC13V for ELECTRIC LOCK after the door closes. ③ and ④ will not output DC13V if ⑩ and ⑪ are not short circuit.
- (B) The SIGNAL of the SAFETY BEAM is controlled by ⑤ and ⑬. When door is opening and running, ⑤ and ⑬ keep to accept the signal, then the SAFETY BEAM will be working. ⑥ and ⑭ 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 ⑮ and ⑯. 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

