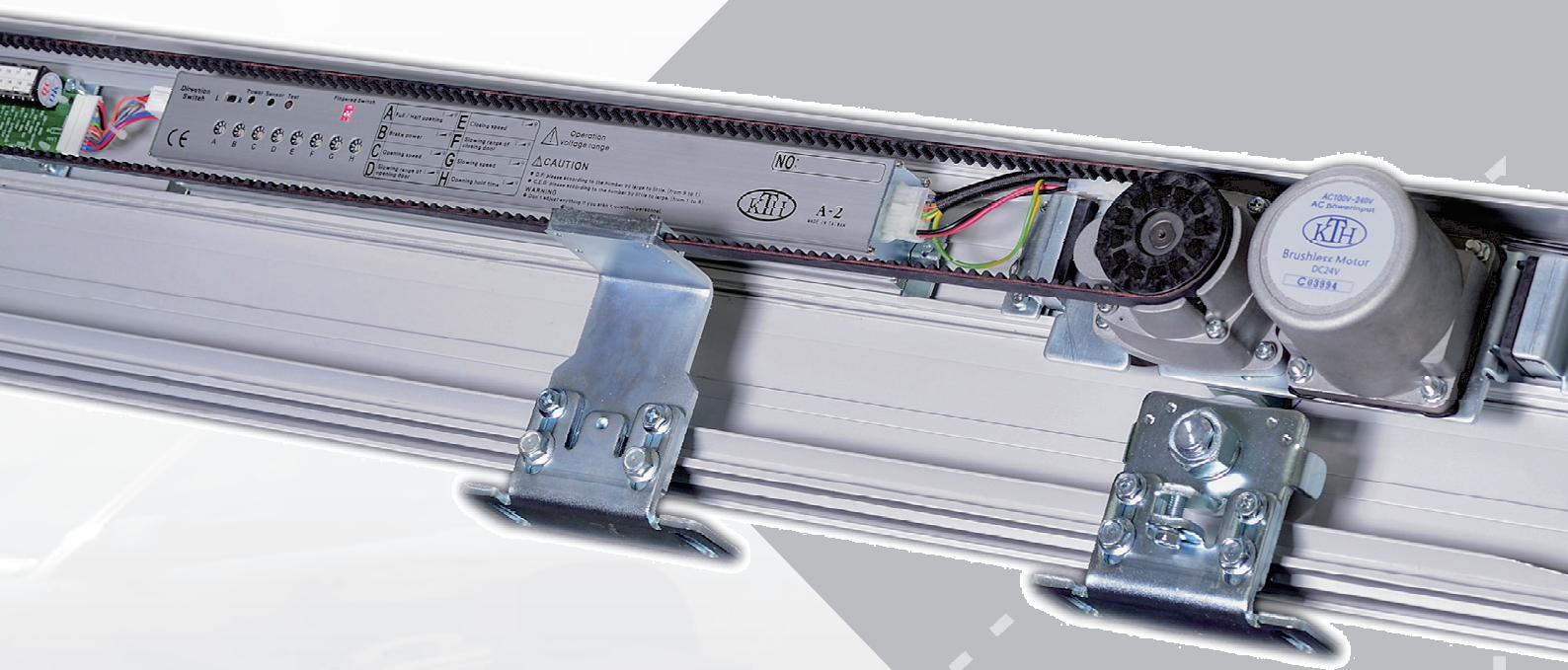


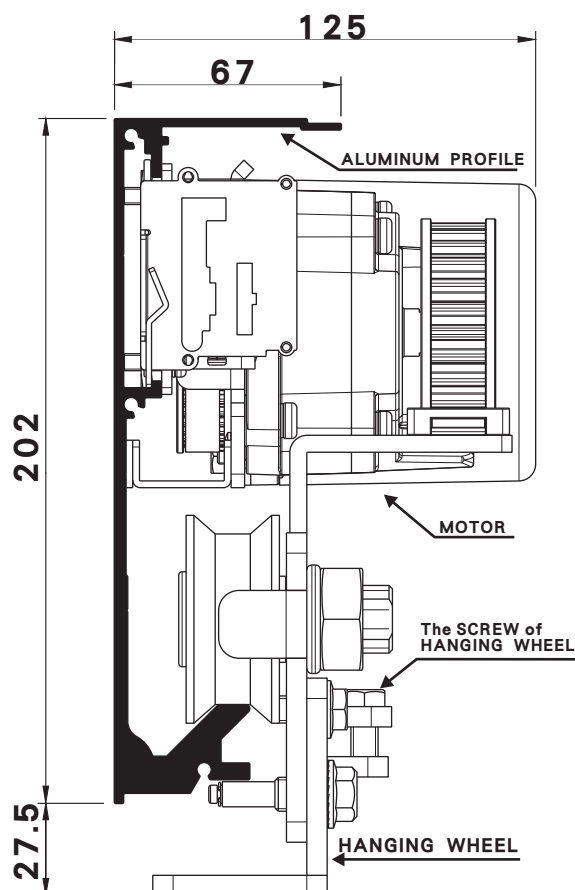
KTH A-2 **AUTOMATIC DOOR SYSTEM**



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SPECIFICATION&PROFILE



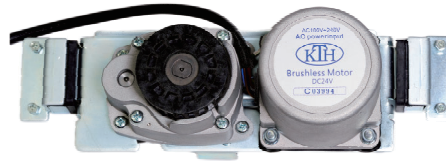
MEASURE : mm

TYPE	A-2
MODEL	STANDNARD: SINGLE-WINGED
DOOR WEIGHT	200kg X1(door)
DOOR WIDTH	DW=500mm~3000mm
INSTALL WAY	Surface install
MOTOR	DC24V 120W BRUSHLESS DC MOTOR
CONTROL	STANDARD MICRO-CONTROLLER
POWER CONSUMPTION	120w
VOLTAGE	AC100V~240V
ENVIRONMENTAL TEMPERATURE	-20℃~+50℃
VOLUME	60 decibel(max.)
STARTING SPEED	480mm /(second)
STARTING TIME	0~64sec.(regulable)
TRANSMISSION IMPORTANT CONDITION	RACK BELT S8M
OPEN DOOR RANGE	FULL/HALF-OPEN (regulable)
PFC POWER EFFICIENCY	0.95(AC100V/in AC100V Full load)
TRACTION FORCE	3.5 kg

COMPONENTS



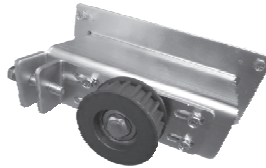
MICRO-CONTROLLER



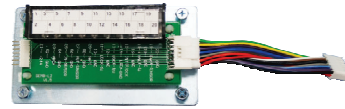
BRUSHLESS DC MOTOR



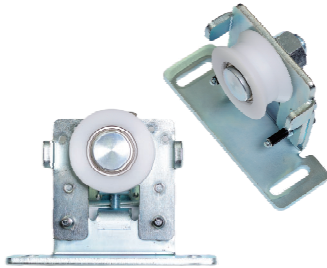
POWER SWITCH



BELT ROLLER



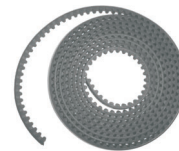
COMBINED TERMINAL BLOCK



HANGING WHEEL-2 PCS



**SENSORS
(OPTIONAL DEVICE)**



RACK BELT



HANGING BRACE-3 PCS



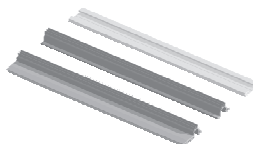
**STOPER -1PCS
(IN PROFILE)**



ACTIVE BRACE



BLOCK SCREW-4 PCS



**ROBBERS AND FIX TRACK
(OPTIONAL DEVICE)**

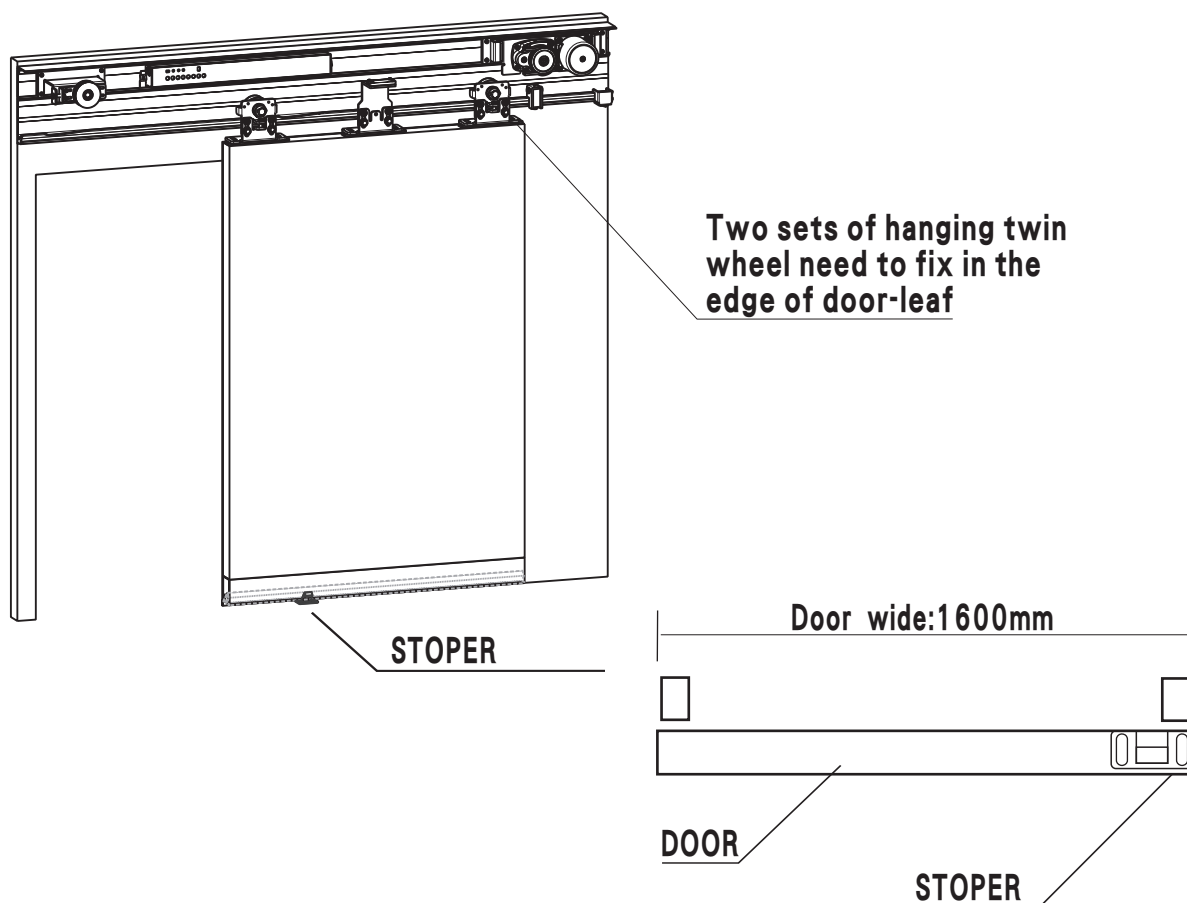


GROUND HOLDER

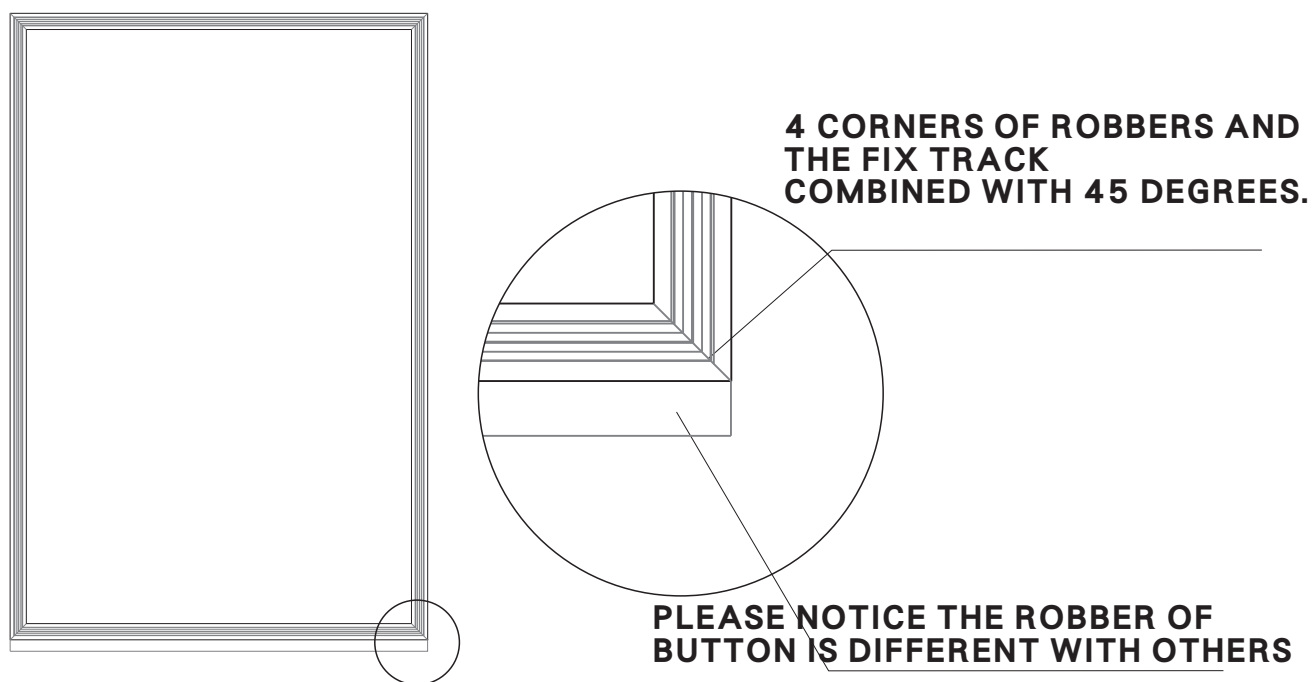


DOOR SCREW-6 PCS

THE POSITION OF THE HANGING TWIN-WHEEL

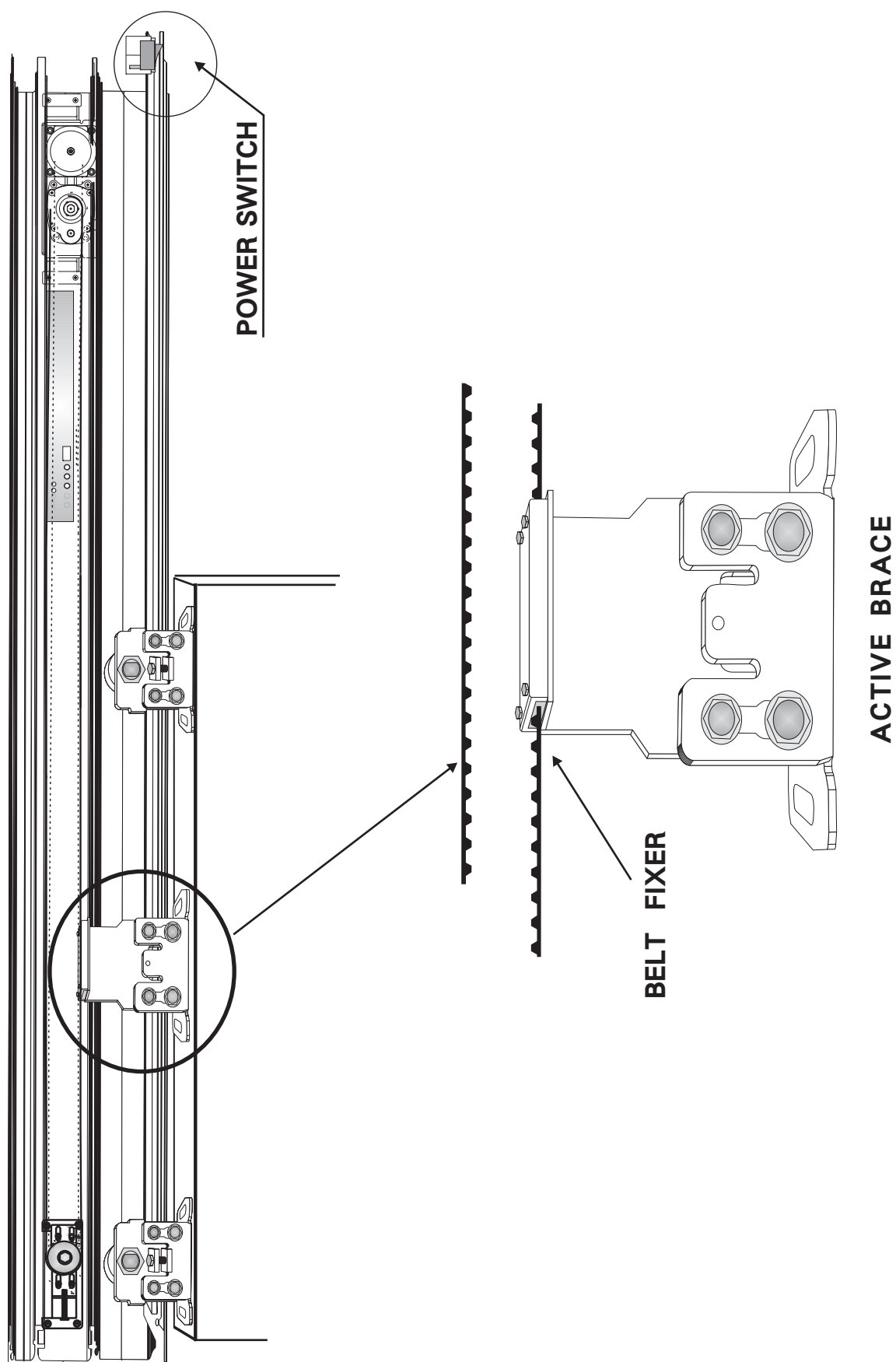


THE INSTALLATION OF THE ROBBERS AROUND THE DOOR PANEL



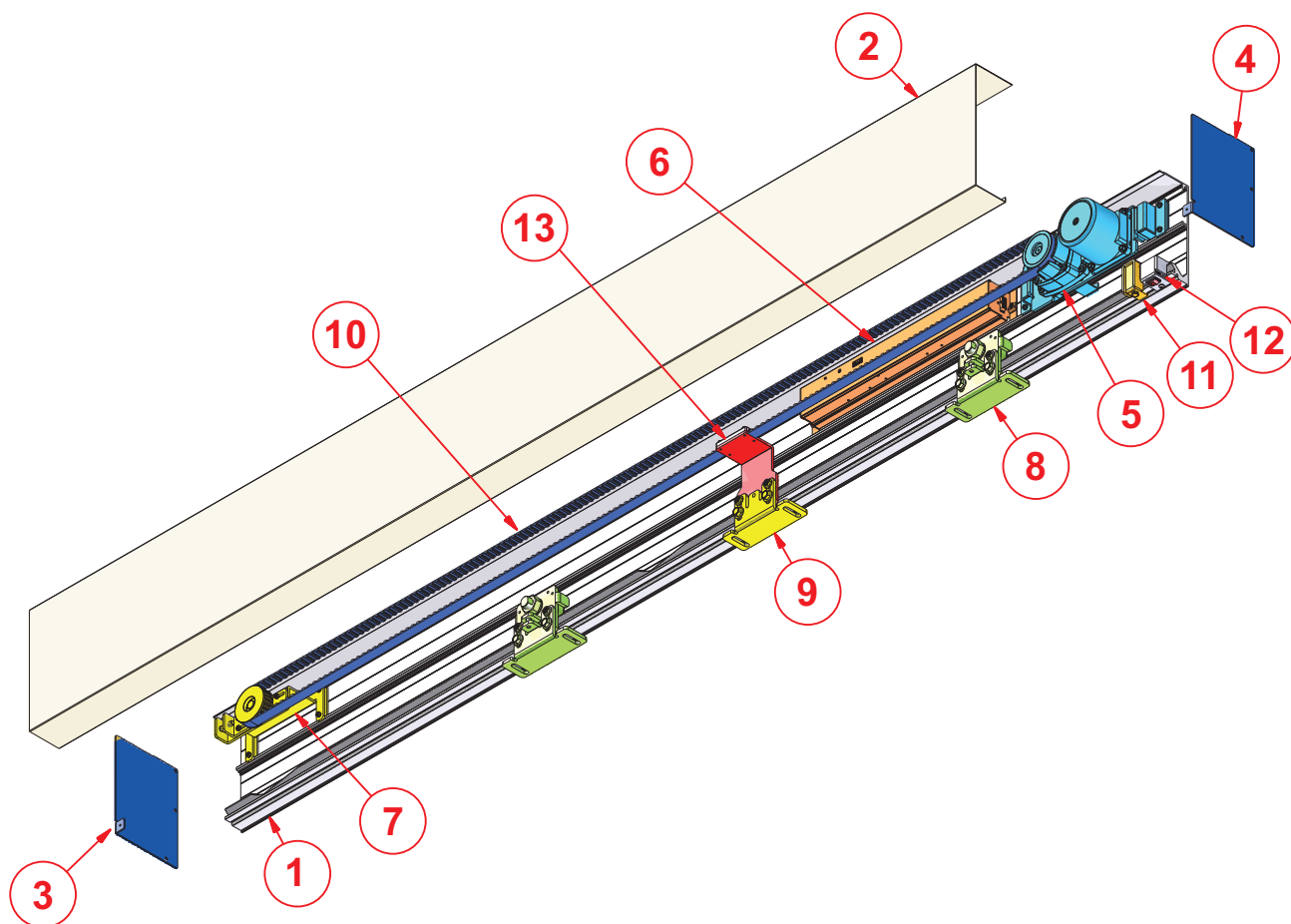
MEASURE : mm

■ INSTALL THE RACK BELT



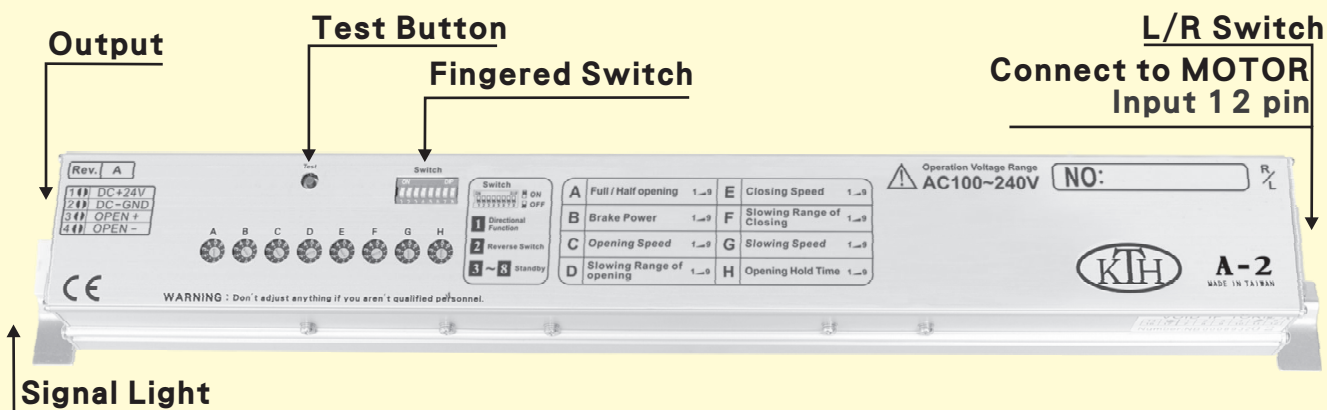
■ LEGEND OF PART DRAWING

Parts List		
No.	Parts Name	Quantity
1	"Air-tight" aluminum profile	1
2	"Stainless" aluminum cover(optional)	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	2
9	Active brace	1
10	Rack belt	1
11	Stopper	1
12	Power switch	1
13	Belt fixer	1



TEST AND 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/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

DIP Switch- Pin 4 ~ 8 - Standby

ADJUST CONTROLLER



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

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.



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

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



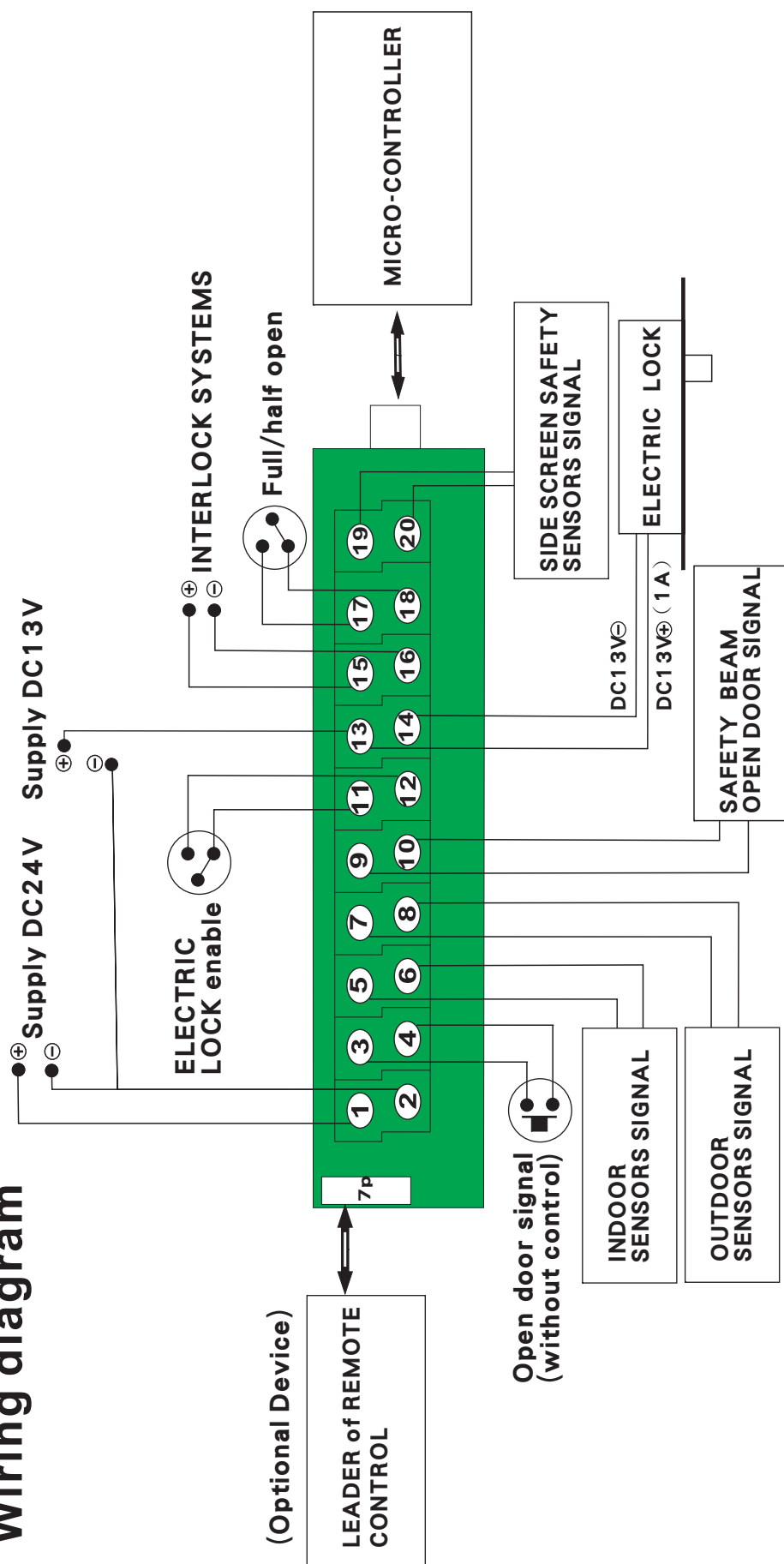
H Opening hold time

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	32	64

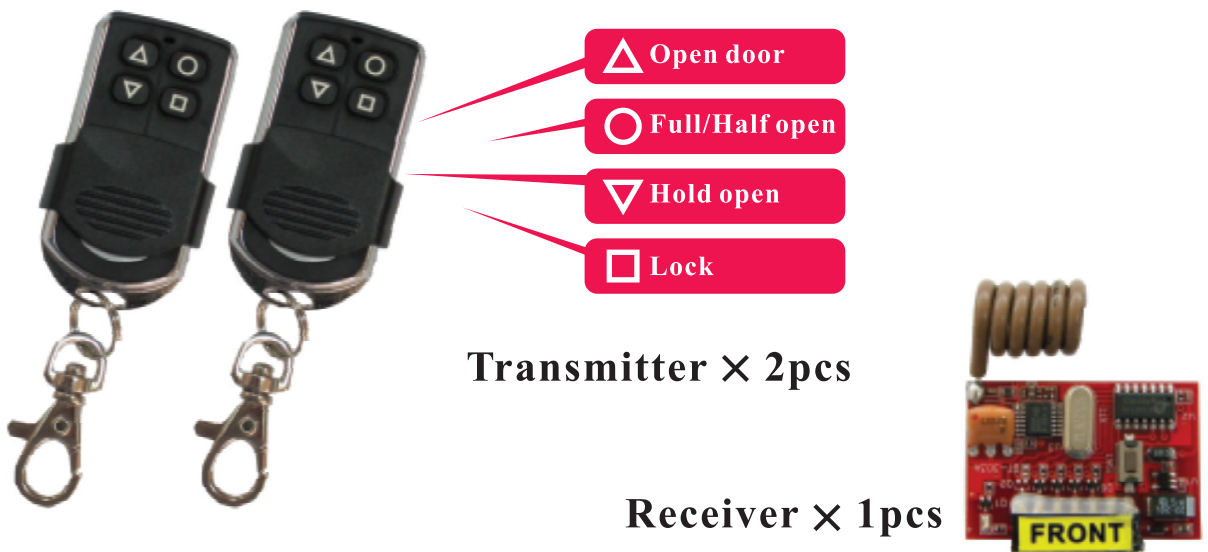
WIRING DIAGRAM OF TH-100(STANDARD)

Wiring diagram



■ TH-125 (NEW)-REMOTE CONTROL

1. Transmitter is 20 bit digital code that is much safety and use fix-frequency component to transmit signal. The frequency of transmitter won't be affected by battery consumption and outside environment.
2. Wireless receiver use super-heterodyne from U.S.A..
The receiver is stably, anti-interference, no extra-wave.
3. Control unit is 8 bit single chip. The order is accurate and action is correct.



■ TH-136-MULTIFUNCTION DIGITAL SWITCH

1. Particular Memory Mode according different sessions to work.
2. Safety Alarm by itself to avoid danger happening.
3. Optional Language for easier operate in your location
4. Date and Time setting
5. Easy to install and program.
6. Beautiful and clear LCD panel
7. With buttons lock-on function

VOLUME	124.5X80X38.5(mm)
NET WEIGHT	0.46kg
ACCESSORIES	One piece of 5M cable



■ A-11-SAFETY BEAM



Product	Amplifier	Sensor head
Model	A-11	SC-6M
Power supply	DC24V	<p>* Fixed hole : 12.5 Φ \pm 0.2</p>
Current consumption	3VA Max.	
Response time	5 ms max.	
Min. sensible object	10.0 Φ Opaque object	
Control output	1a / Relay (3A/250VAC)	
Output status	NO/NC changeable	
Off delay	0.5s	
Operating circumstance	- 20°C ~ +80°C ; 35% ~ 85% RH	

■ 3H-CH01-INFRARED RAY SENSOR



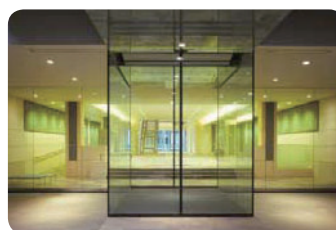
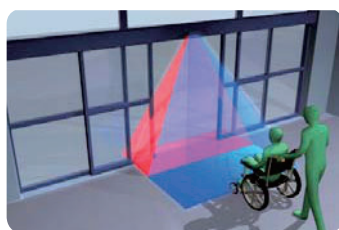
1. Small sensor on the market that combines door activation with pedestrian safety in one product.
2. Double curtain of infrared safety beams protects pedestrians from dangerous automatic door movements.
3. Accurately adjustable detection area reduces false door activations in busy urban environments.
4. Intelligent software along with internal sensor self monitoring ensures safe and reliable operation in all installation environments.

■ HR100-CT(EN16005)-ACTIVATION+MONITORED SAFETY(HOTRON)

Advanced Unidirectional Detection Sensor with Monitored Safety and Unique "Door Learn" Ability



Pioneering super sensor offers pedestrian door activation and unprecedented safety at mounting heights of up to 3m



● **Energy Efficient**

Intelligent unidirectional detection ability reduces door hold open time by 20% and building energy loss by 6% in a standard installation.

● **Unparalleled Pedestrian Safety**

Unique ability to memorize door motion allows the infrared safety curtain to be focused inside the moving door leaf resulting in unparalleled pedestrian safety.

● **Versatile**

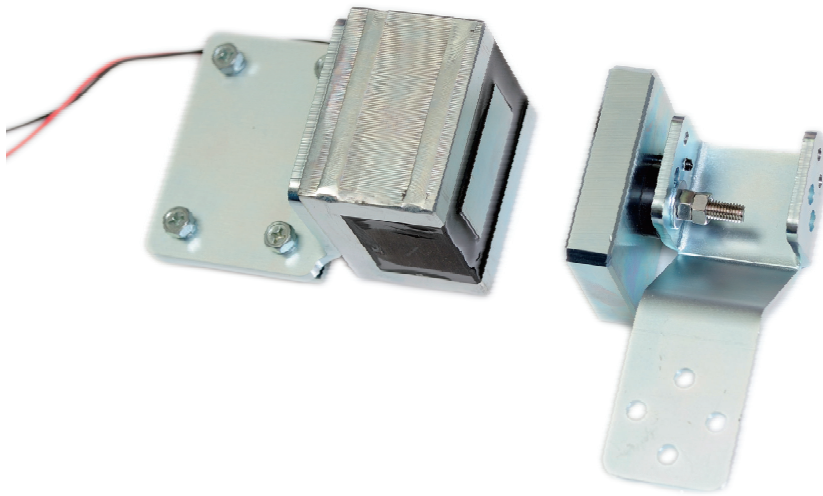
Flexibility to adjust the door activation and pedestrian safety detection zones independently makes the HR100-CT the ideal sensor for every sliding door installation

● **Ease of Installation**

All the information necessary to install the HR100-CT sensor is printed on the sensor body

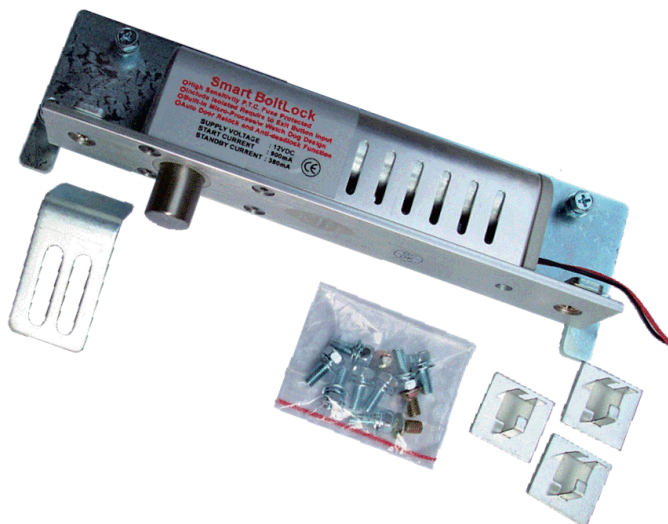
EN16005 is the regulations of power operated pedestrian door sets in all CEN member countries

TH-201-MEGNETIC LOCKS



1. Main subject molded integrally and it can simplify installation procedures
2. Use aluminum alloy frame, strong crashworthy
3. Compact size, it can follow the installation (door type, sliding type)

TH-200LK-ELECTRIC BOLT



1. Don't increase the temperature while it running and working.
2. Tough and durable. There is no problems about the lock be lodged.

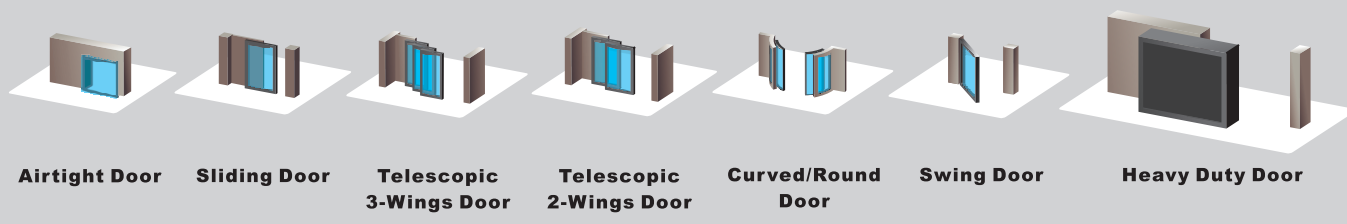
TH-135-FUNCTION KEY SWITCH



- 1.It's is suitable any Door Operator of KTH.
- 2.Easy to install and adjust.

• SIX PRESS FUNCTION

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



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