KTH H-5
AUTOMATIC DOOR SYSTEM

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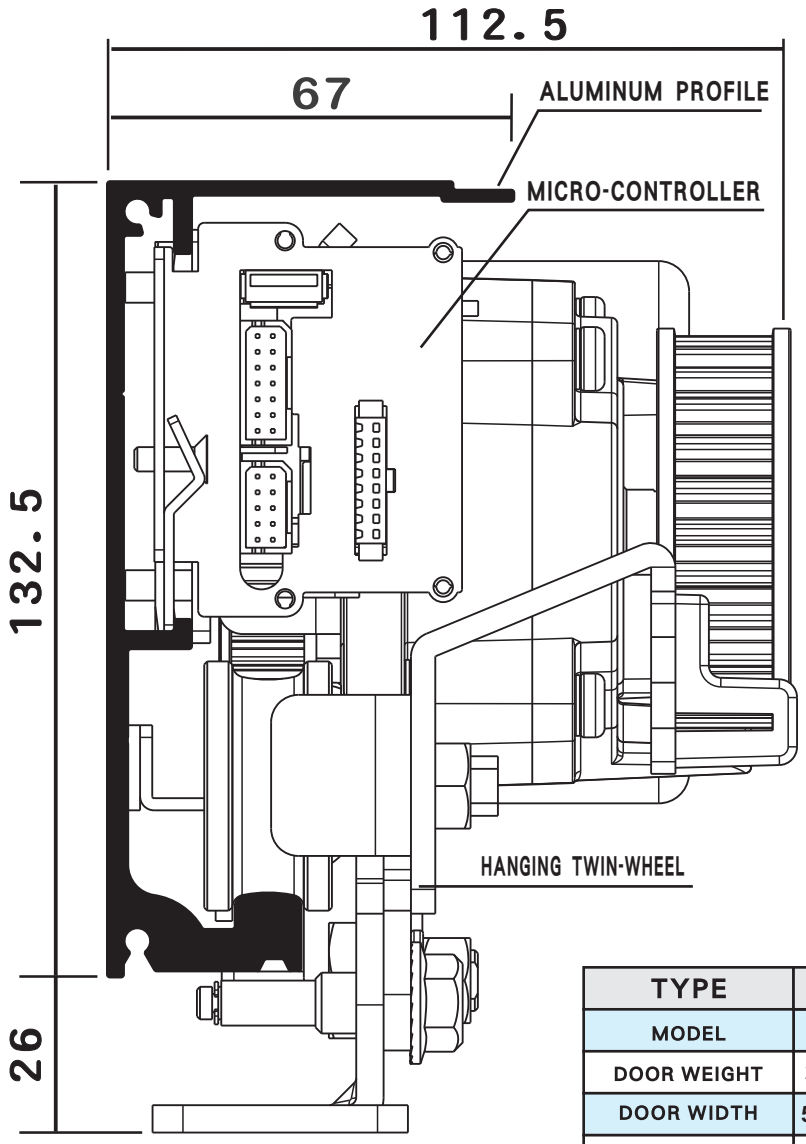
SPECIFICATION&PROFILE

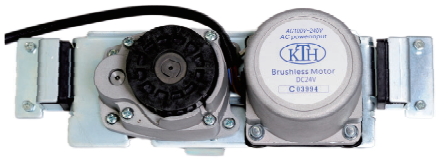


MEASURE : mm

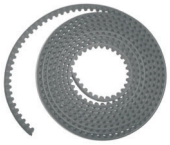
TYPE	H-5	
MODEL	SINGLE-WINGED	BI-PARTING
DOOR WEIGHT	250kg X1(DOOR)	200kg X2(DOOR)
DOOR WIDTH	500mm~1200mm	500mm~2400mm
INSTALL WAY	SURFACE INSTALL	SURFACE INSTALL
MOTOR	DC24V 120W BRUSHLESS DC MOTOR	
CONTROL	STANDARD MICRO-CONTROL	
POWER CONSUMPTION	100W	
VOLTAGE	AC100V~240V	
ENVIRONMENTAL TEMPERATURE	-20℃~+50℃	
VOLUME	60 DECIBEL(MAX.)	
STARTING SPEED	600mm/SEC.	550mm/SEC.
STARTING TIME	0~64sec.(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	3kg	

COMPONENTS

MICRO-CONTROLLER



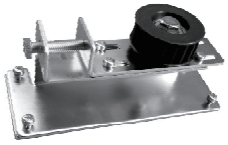
BRUSHLESS
DC MOTOR



RACK BELT

SENSORS
(OPTIONAL DEVICE)

COMBINED TERMINAL
BLOCK

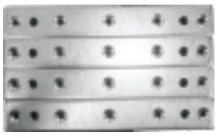


BELT ROLLER

(BI-PARTING)
HANGERS & IRON PARTS

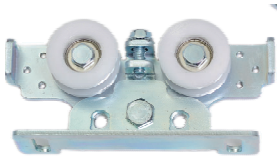
ACTIVE BRACE
with BELT FIXER

PASSIVE BRACE
with BELT FIXER



HANGING
BRACE-4 PCS

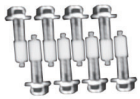
BELT BRACE



HANGING
TWIN-WHEEL 4 PCS

IRON PARTS SACK

STOPER-2 PCS



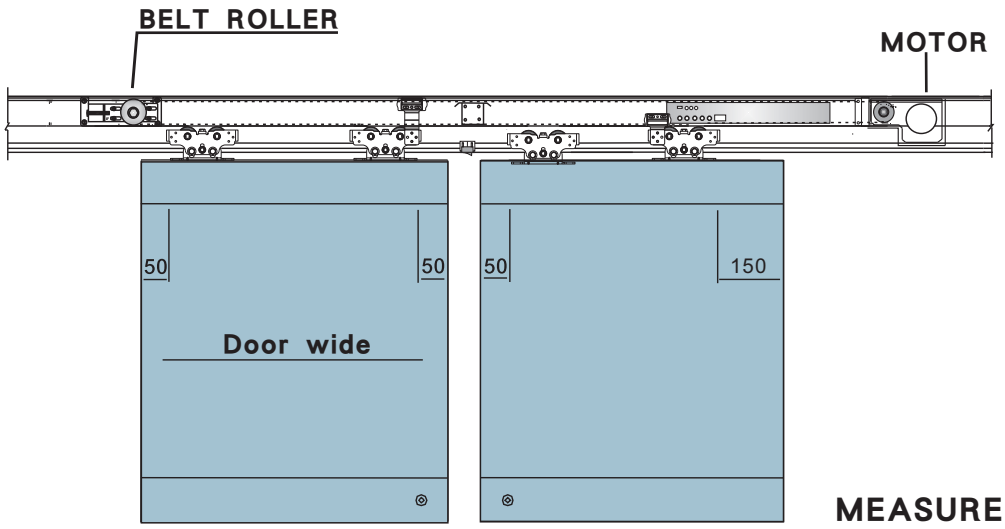
BLOCK SCREW-8 PCS

GROUND WHEEL
-2PCS
(OPTIONAL PART)

SCREW-8 PCS

DOOR SCREW-8 PCS

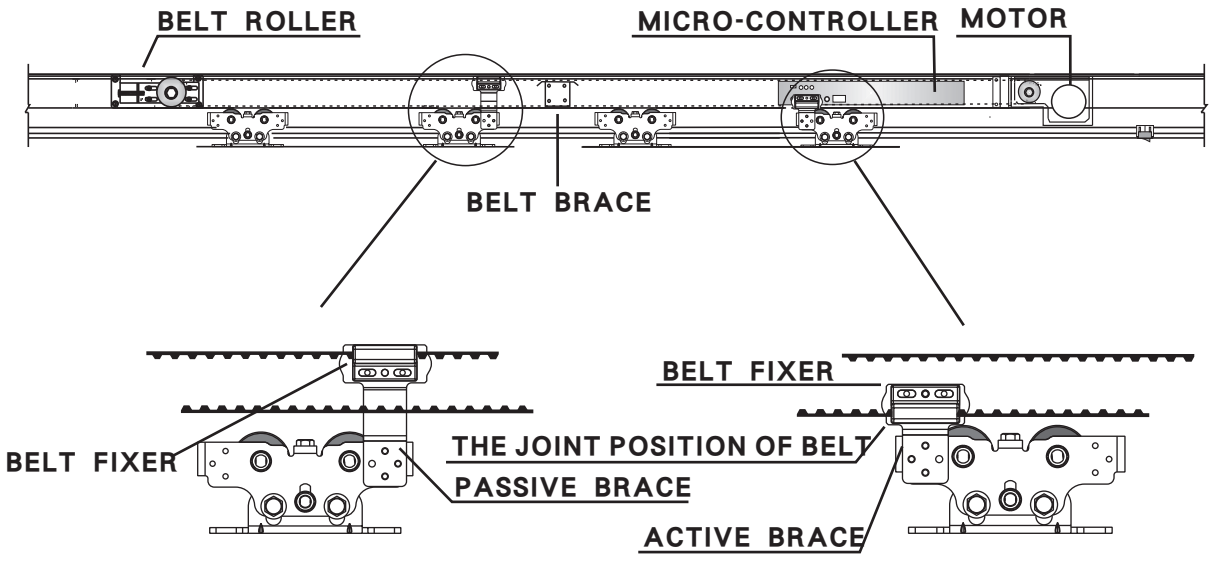
THE POSITION OF THE HANGING TWIN-WHEEL



MEASURE : mm

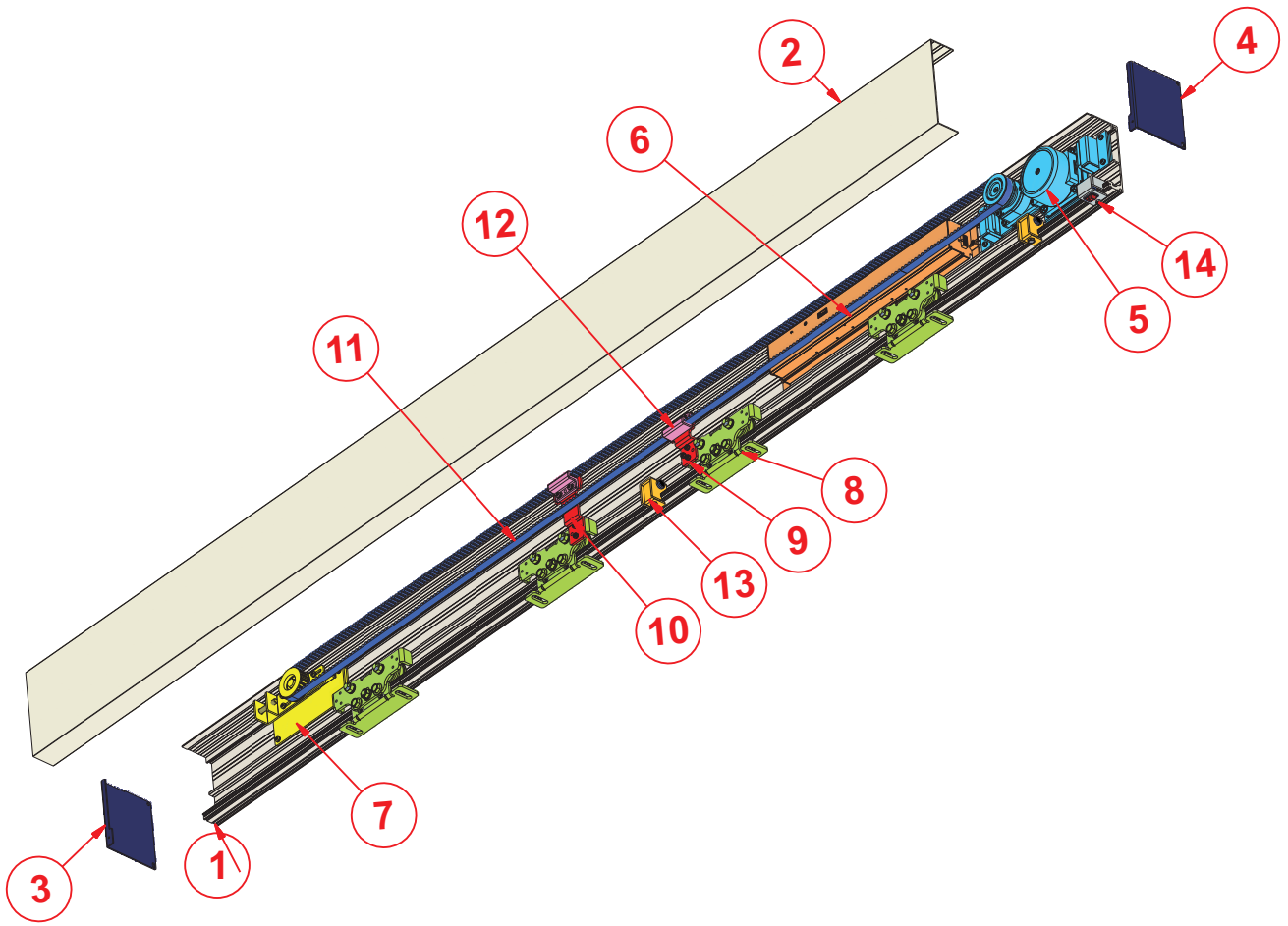
Inside the room, the distance between the "right side hanging-wheel" and "the edge of door" must be more than 150mm.

INSTALL THE RACK BELT



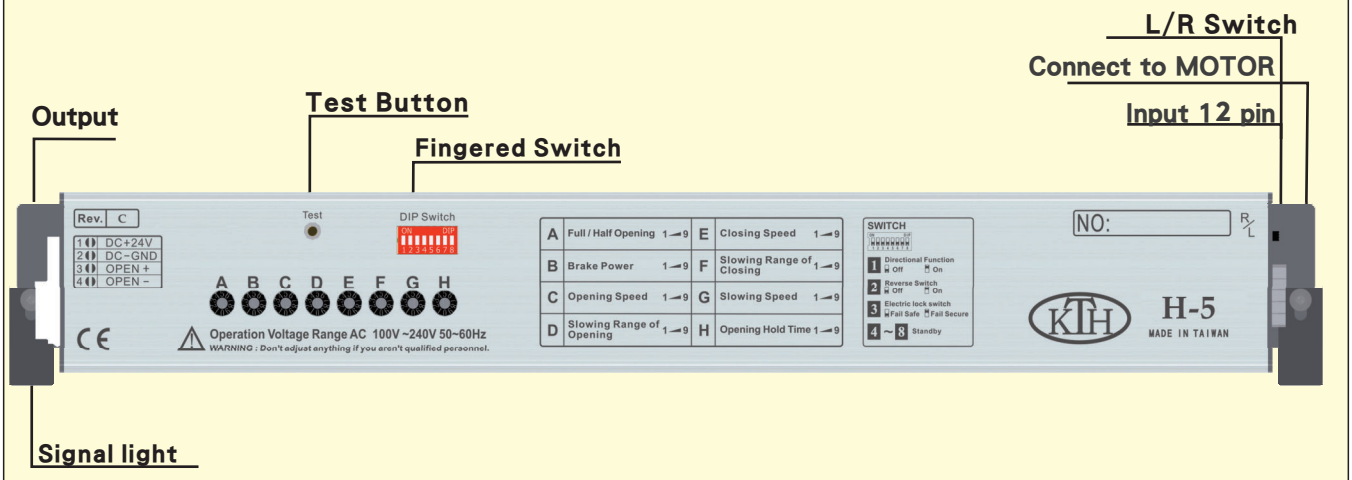
LEGEND OF PART DRAWING

Parts List		
No.	Parts Name	Quantity
1	"Standard" 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	4
9	Active brace	1
10	Passive brace	1
11	Rack Belt	1
12	Belt Fixer	2
13	Stopper	2
14	Power switch	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
- **OFF: Normal mode.**
- **ON: push once , open the door. Push again,close the door.**

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

Operation
- **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- Pin 3 - Electric lock switch

Fail Safe Fail Secure

Fingered Switch-Pin4 ~ Pin 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.

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

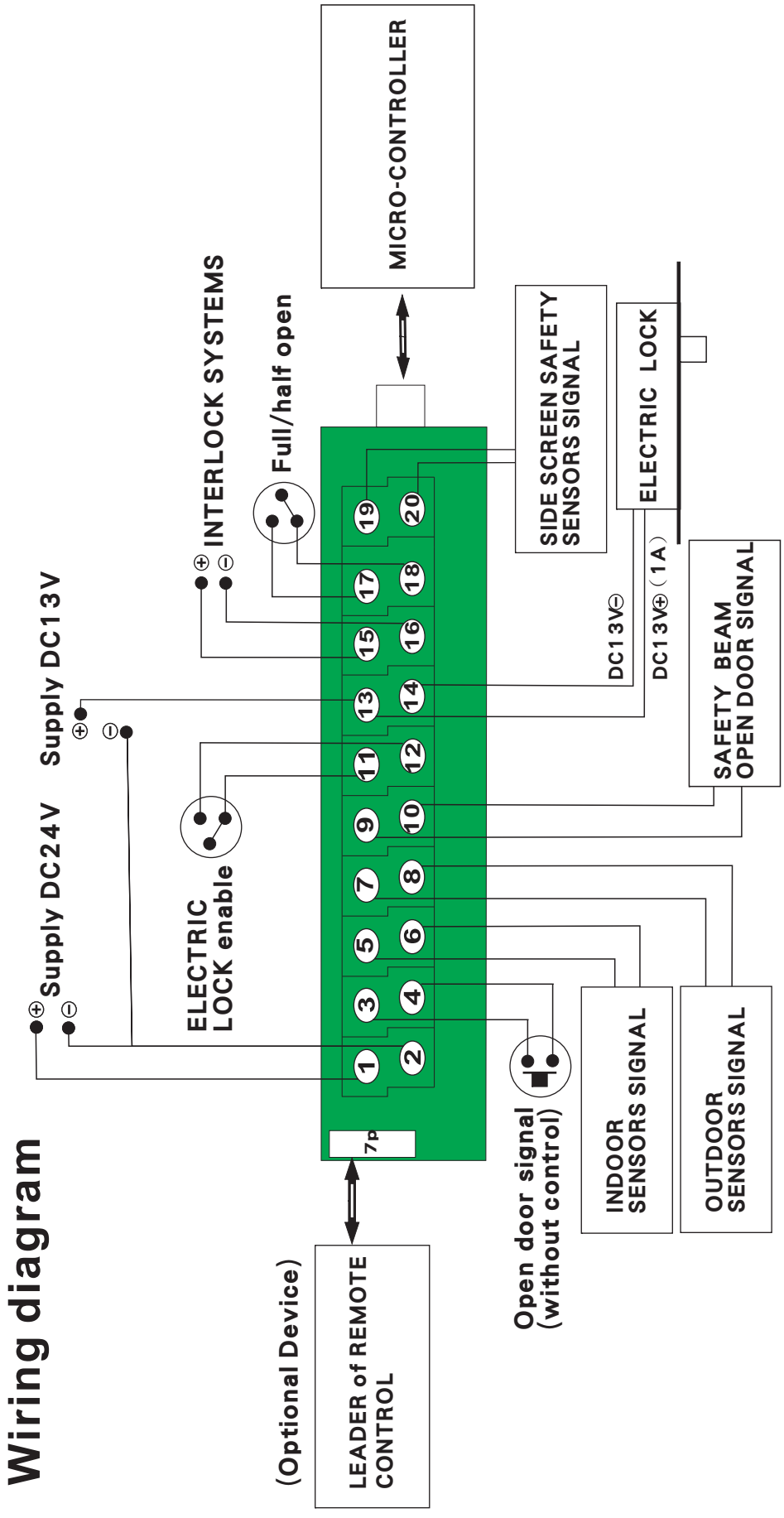
Adjust the SLOW SPEED
Higher number, faster speed.
CAUTION: please adjust the number one by one from low to high.

H Opening hold time

Adjust the HOLD OPEN TIME
Higher number, the hold time is longer.

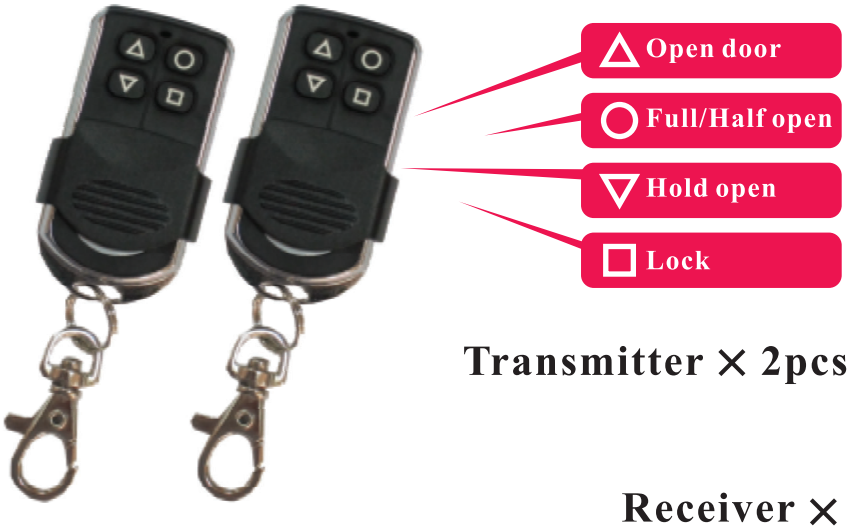
NUMBER	0	1	2	3	4	5	6	7	8	9
SECOND	0	1	2	3	4	5	6	10	32	64

WIRING DIAGRAM OF TH-100(STANDARD)

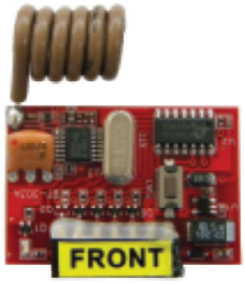


TH-125 (NEW)-REMOTE CONTROL

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.



Transmitter × 2pcs



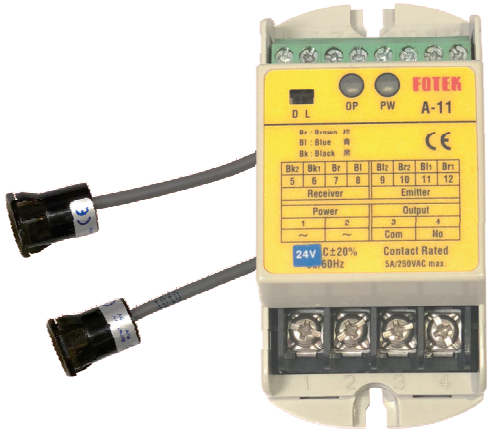
Receiver × 1pcs

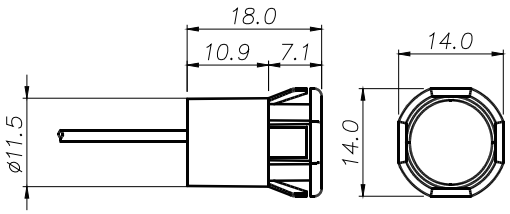
TH-136-MULTIFUNCTION DIGITAL SWITCH

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	
Current consumption	3VA Max.	
Response time	5 ms max.	
Min. sensible object	10.0Φ Opaque object	
Control output	1a / Relay（3A/250VAC）	
Output status	NO/NC changeable	
Off delay	0.5s	
Operating circumstance	– 20℃ ～ +80℃；35% ～ 85% RH	

＊ Fixed hole：12.5Φ±0.2

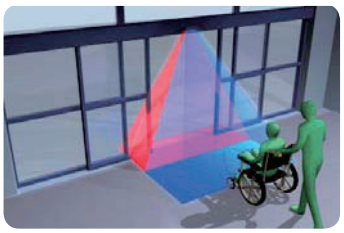
3H-CH01-INFRARED RAY SENSOR

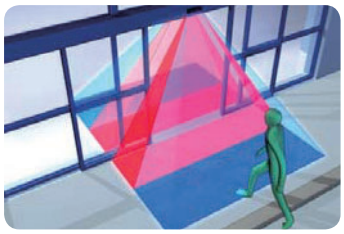
1. Small sensor on the market that combines door activation with pedestrian safety in one product.
2. Double curtain of infrared safety beams protects pedestrians from dangerous automatic door movements.
3. Accurately adjustable detection area reduces false door activations in busy urban environments.
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 pedstian door activation and unprecedented safety at mounting heights of up to 3m





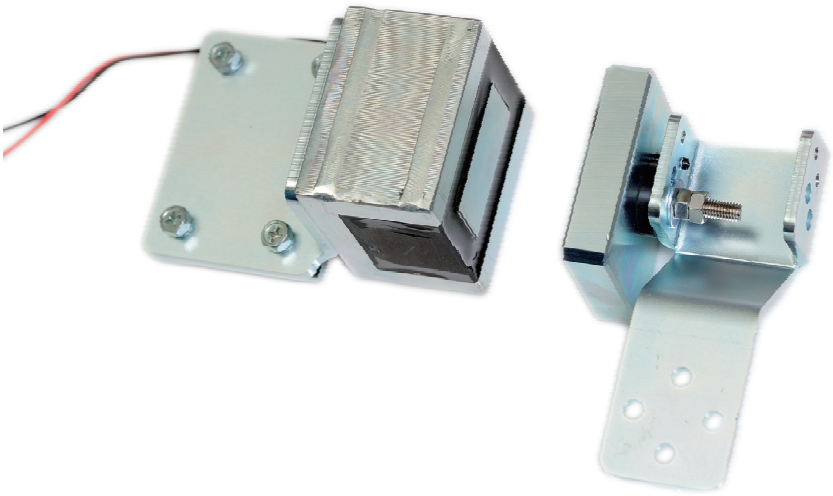
- **Energy Efficient**
  Intelligent unidirectional detection ability reduces door hold open time by 20% and building energy loss by 6% in a standard installation.

- **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

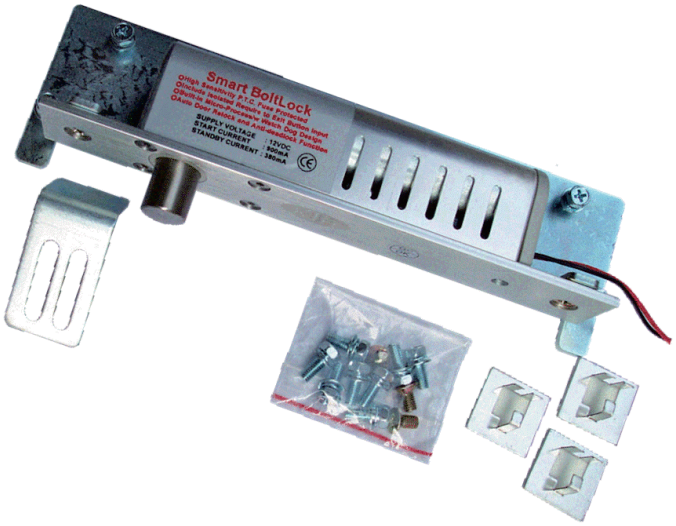


1.Main subject molded integrally and it can simplify installation procedures

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.

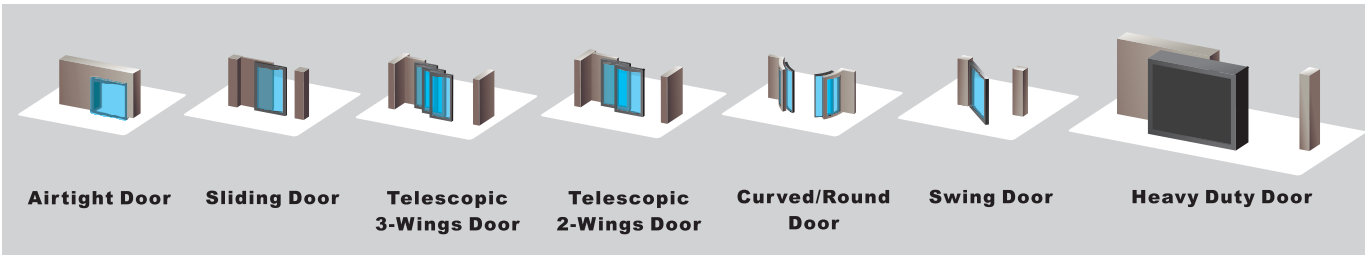
2.Tough and durable. There is no problems about the lock be lodged.

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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