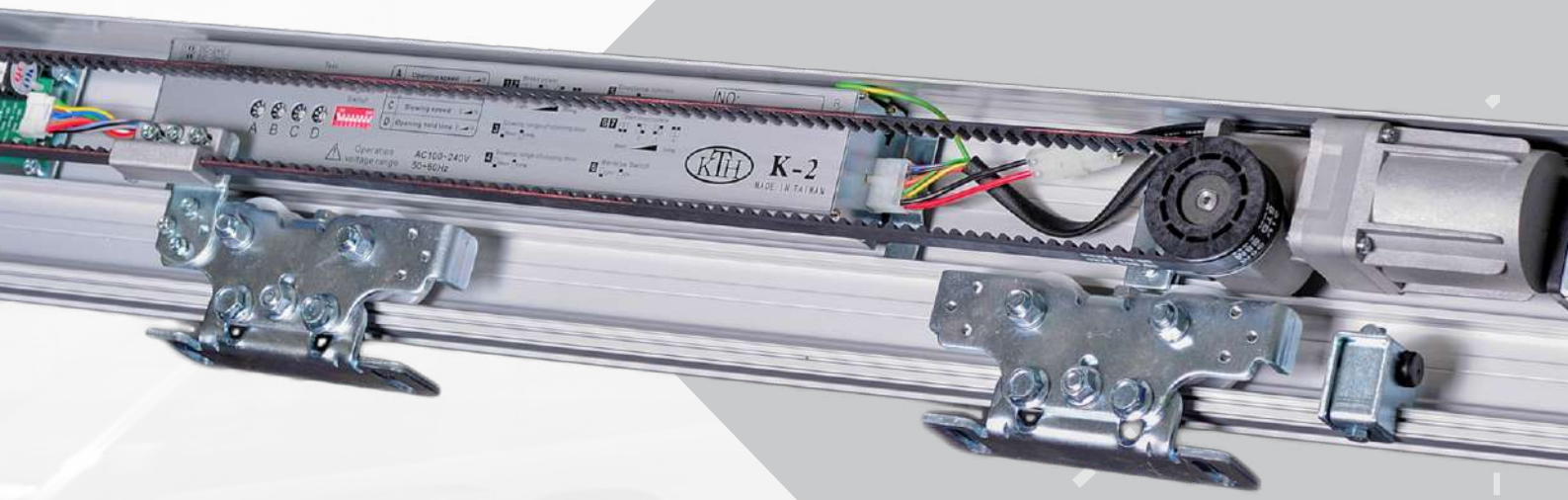
KTH K-2
AUTOMATIC DOOR SYSTEM



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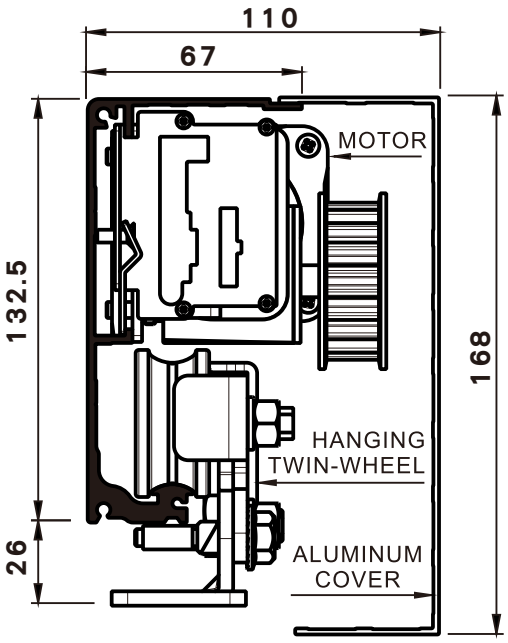
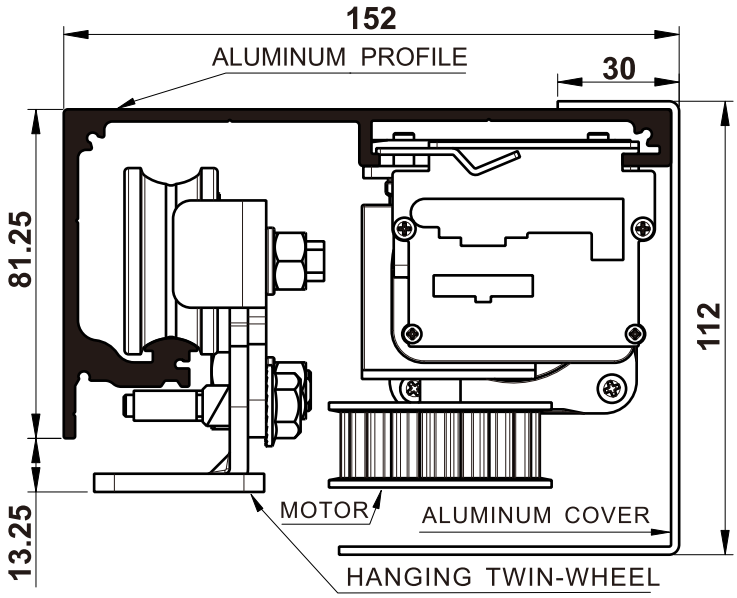
SPECIFICATION&PROFILE

Standard



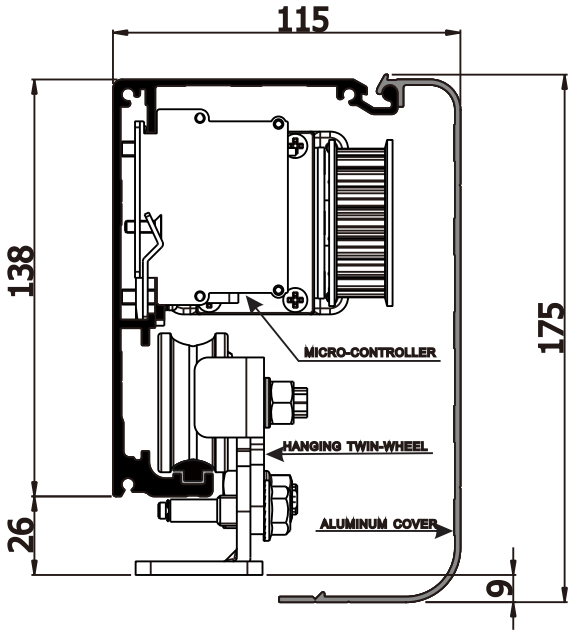
MEASURE:mm

Slim



MEASURE:mm

Noiseless



MEASURE:mm

TYPE	K-2	
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	60 decibel(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)	
TRACTION FORCE	3kg	

COMPONENTS

MICRO-CONTROLLER

COMBINED TERMINAL BLOCK (OPTIONAL DEVICE)

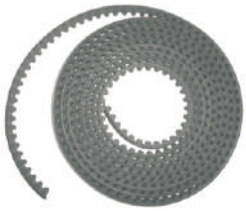
BELT ROLLER 1 PCS

DC WORM GEAR MOTOR

MICRO-CONTROLLER FOR EN16005

COMBINED TERMINAL BLOCK FOR EN16005

SENSORS (OPTIONAL DEVICE)



RACK BELT

(BI-PARTING) HANGERS & IRON PARTS

ACTIVE BRACE 1 PCS

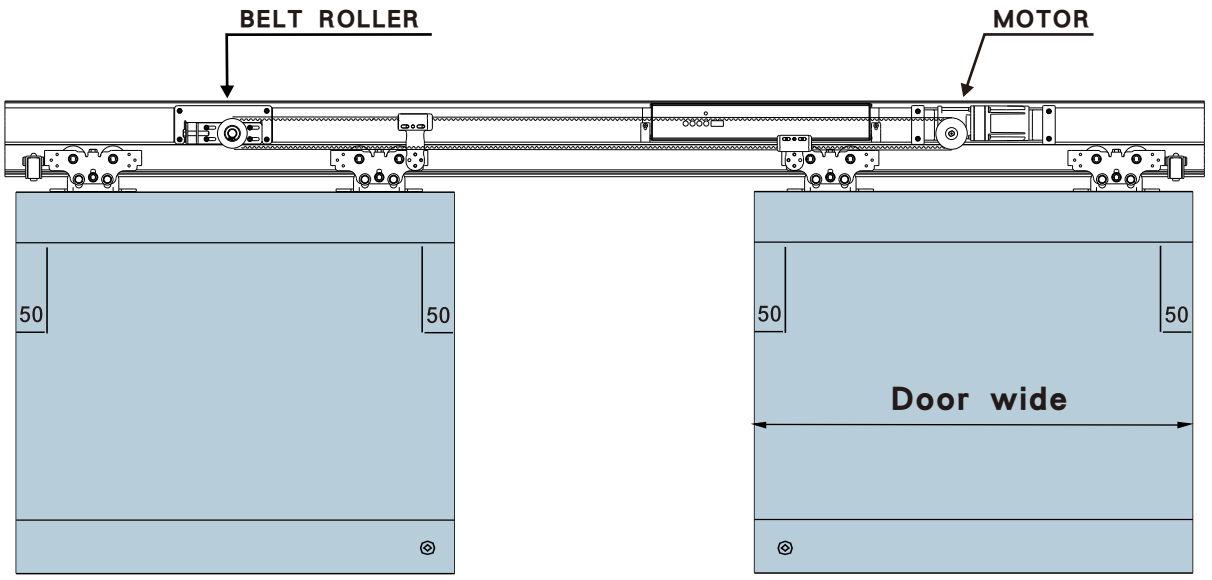
PASSIVE BRACE 1 PCS

HANGING BRACE-4 PCS

BELT BRACE

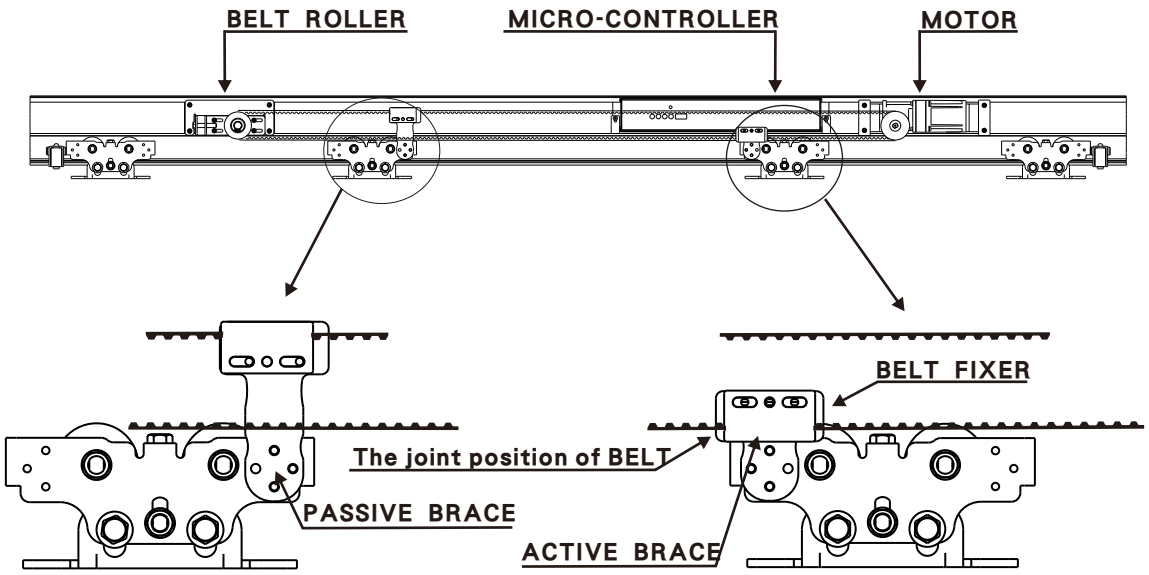
HANGING TWIN-WHEEL4 PCS

THE POSITION OF THE HANGING TWIN-WHEEL



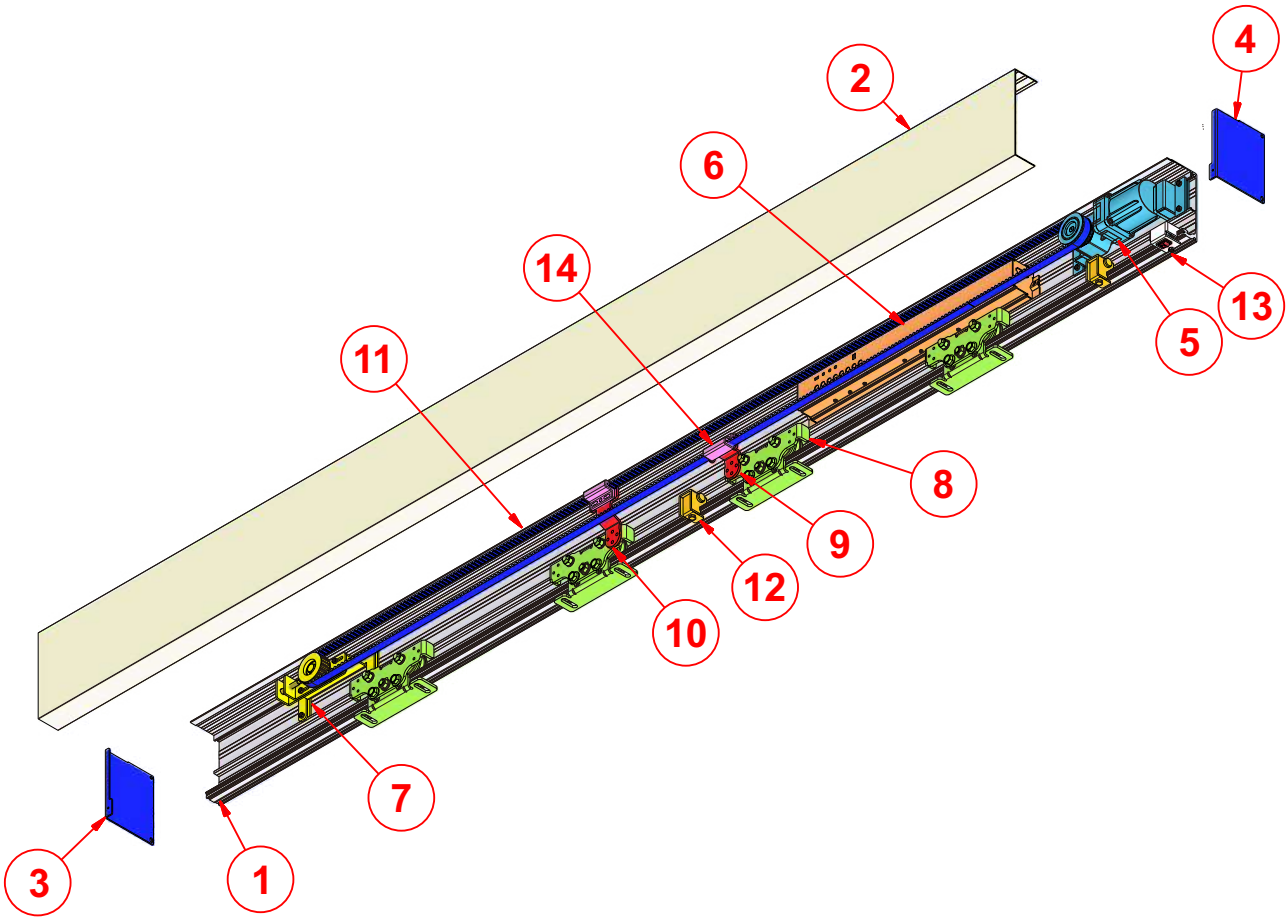
POSITION OF HANGING TWIN-WHEEL:
Two sides of Door-deaf keeps the distance of 50mm to make sure the safety of installation

INSTALL THE RACK BELT

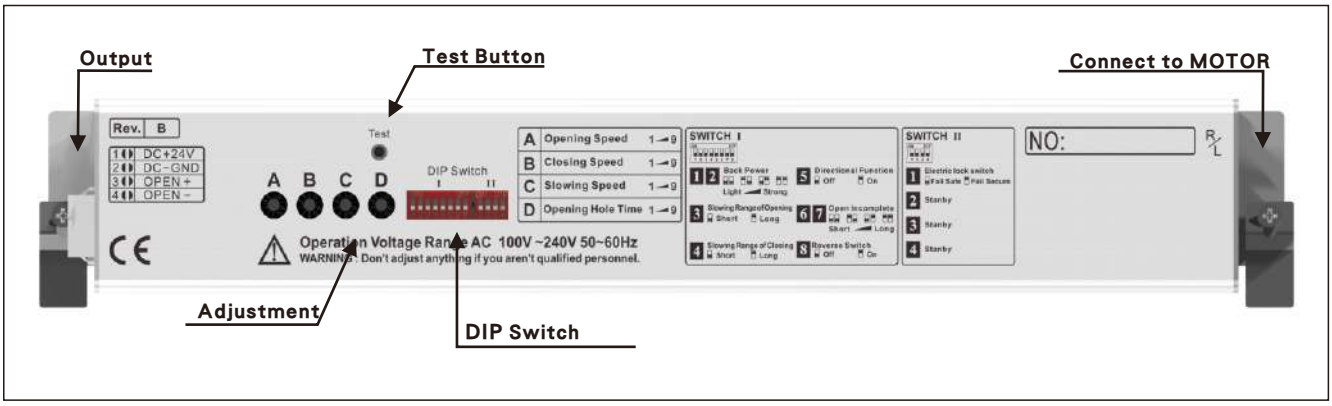


LEGEND OF PART DRAWING

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 brace	1
11	Rack Belt	1
12	Stopper	2
13	Power switch	1
14	Belt Fixer	2



TEST & ADJUST(STANDARD)



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.

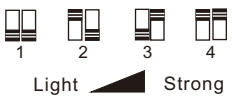
D Opening hold time

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

DIP Switch I

1 2 Brake power

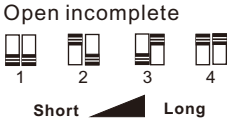


3 Slowing range of opening door
Short Long

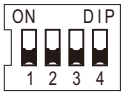
4 Slowing range of closing door
Short Long

5 Directional function
OFF ON
Operation — OFF: Normal mode.
ON: push once , open the door. Push again, close the door.

6 7 Open incomplete



8 Reverse Switch: in order to control opening and closing direction of the Door-Leaf after power resumes.
OFF ON
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 II

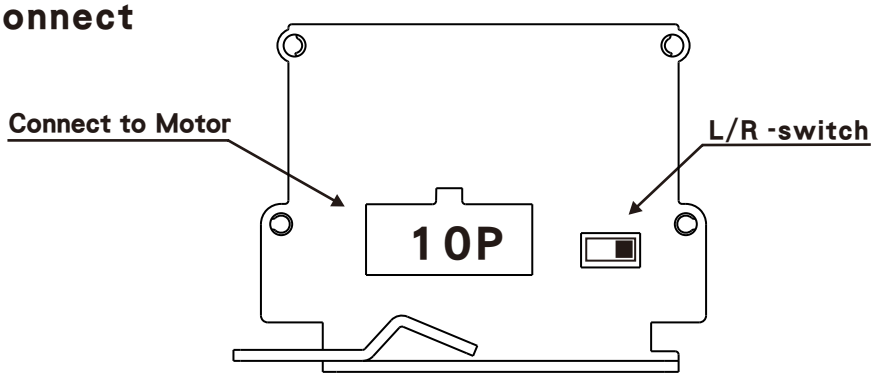
1 Electric lock switch
Fail Safe Fail Secure

2 ~ 4 Standby

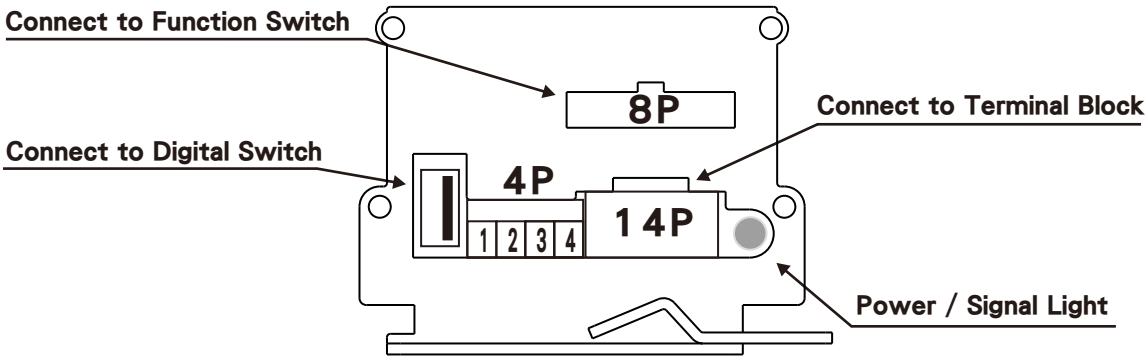
CONNECTION

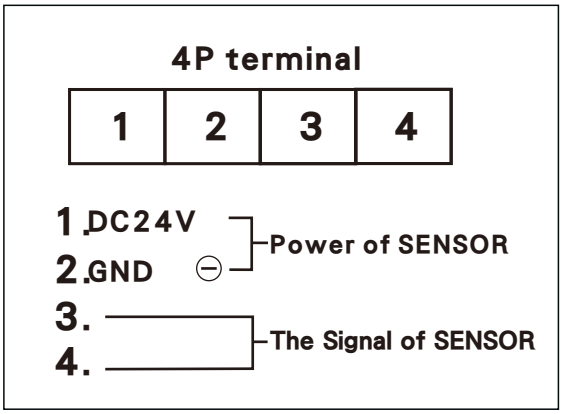
MICRO-CONTROLLER

Input connect

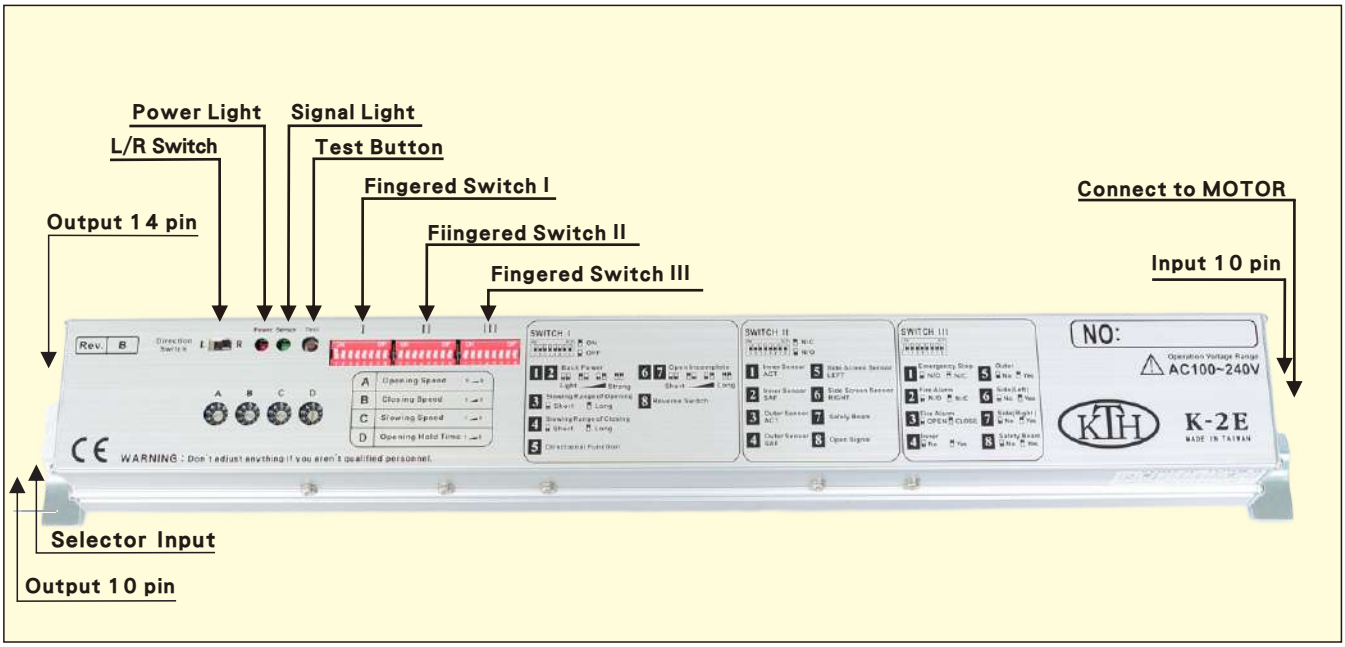


Output connect





TEST & ADJUST(EN16005)



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).

ADJUST CONTROLLER-1

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.

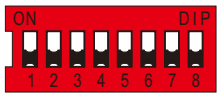
D Opening hold time

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

ADJUST CONTROLLER-2

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

6 7 Open incomplete

Short ◢ Long

3 Slowing Range of Opening

Short Long

4 Slowing range of closing

Short Long

5 Directional function

OFF ON

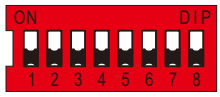
OFF: Normal mode.
ON: Push once , open the door.
Push again, close the door.

8 Reverse Switch:

in order to control opening and closing direction of the Door-Leaf after power resumes.

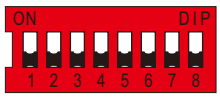
OFF ON

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.



Switch II

1	Inner Sensor ACT	N/O N/C	5	Side Screen Sensor LEFT	N/O N/C
2	Inner Sensor SAF	N/O N/C	6	Side Screen Sensor Right	N/O N/C
3	Outer Sensor ACT	N/O N/C	7	Safely Beam	N/O N/C
4	Outer Sensor SAF	N/O N/C	8	Open Signal	N/O N/C



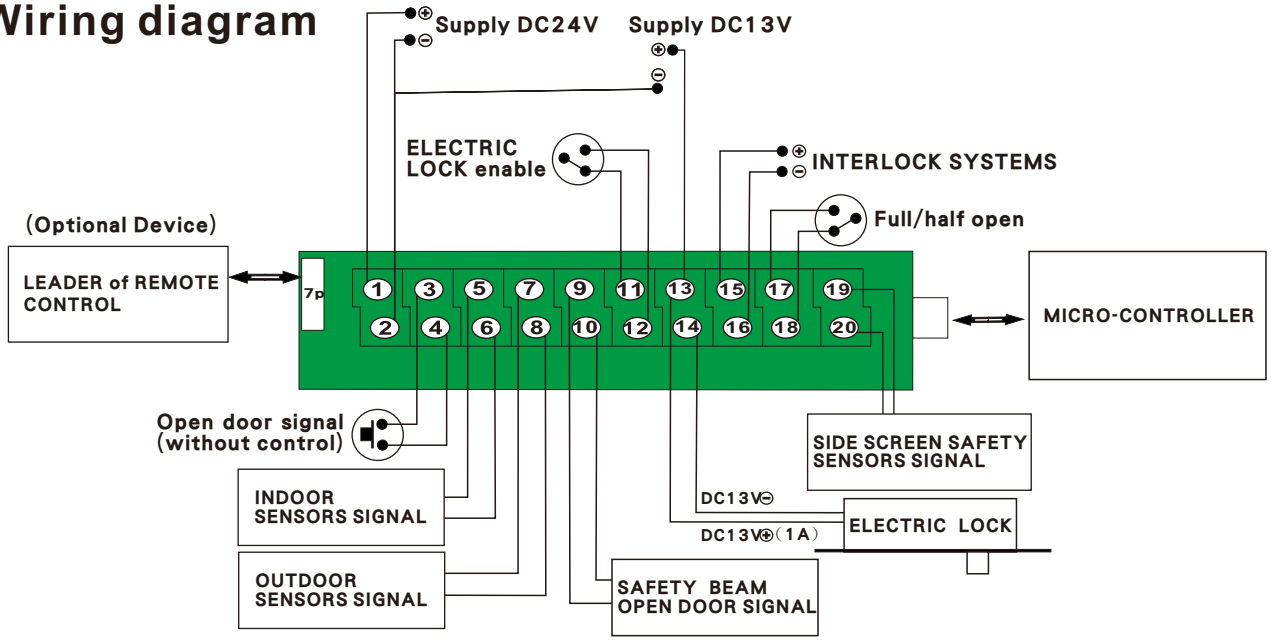
Switch III

1	Emergency Stop	N.O. N.C.	5	Outer	No Yes
2	Fire Alarm	N.O. N.C.	6	Side(Left)	No Yes
3	Fire Alarm	OPEN CLOSE	7	Side(Right)	No Yes
4	Inner	No Yes	8	Safety Beam	No Yes

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

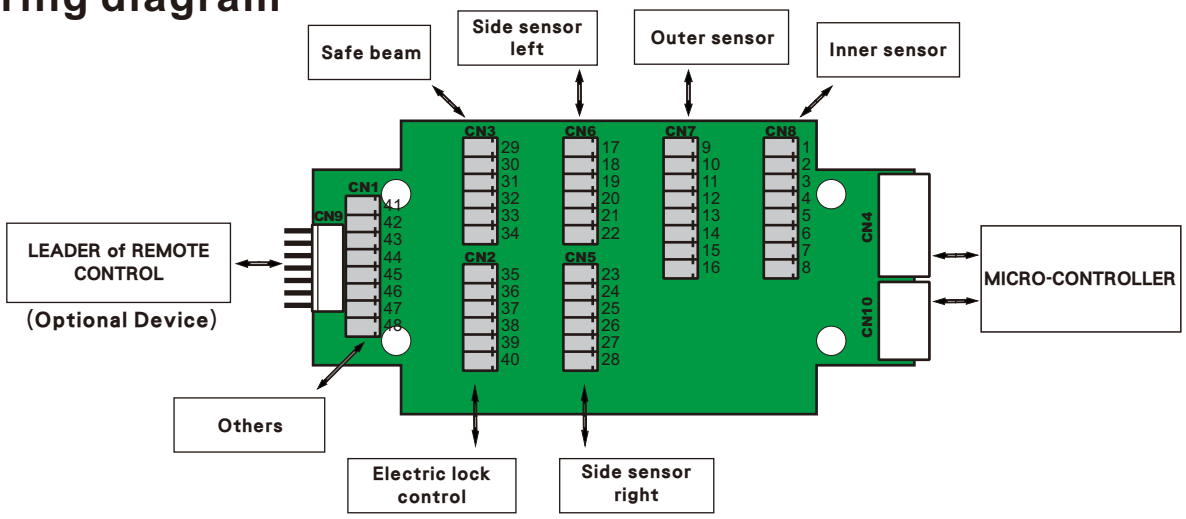
WIRING DIAGRAM OF TH-100(STANDARD)

Wiring diagram



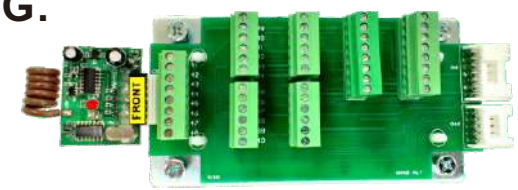
WIRING DIAGRAM OF TH-100(EN16005)

Wiring diagram

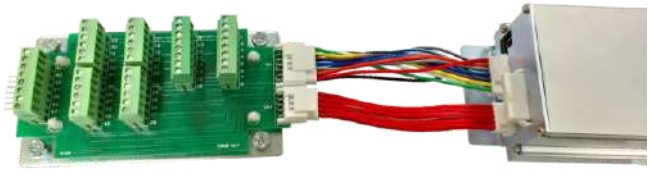


The ILLUSTRATED of WIRING.

REMOTE CONTROL (OPTIONAL DEVICE)



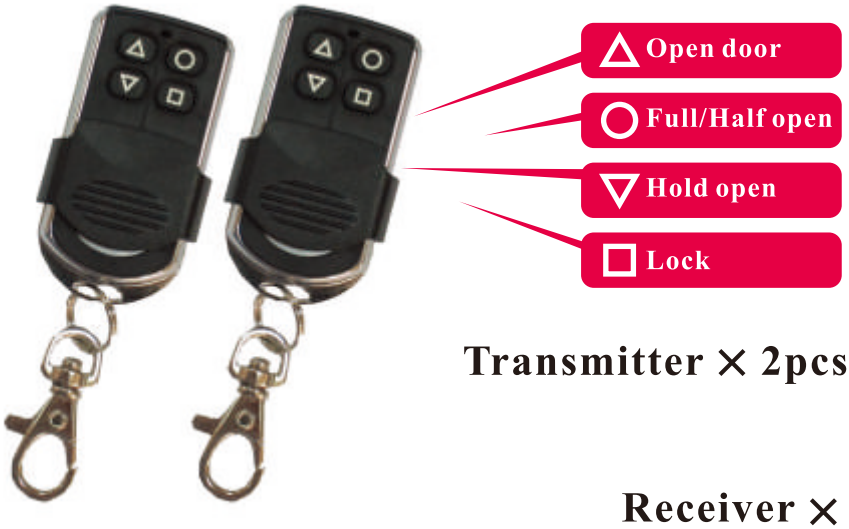
COMBINED TERMINAL BLOCK



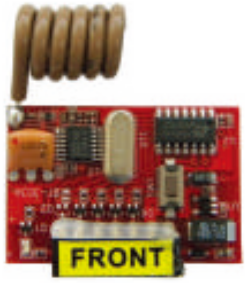
COMBINED TERMINAL BLOCK MICRO-CONTROLLER

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



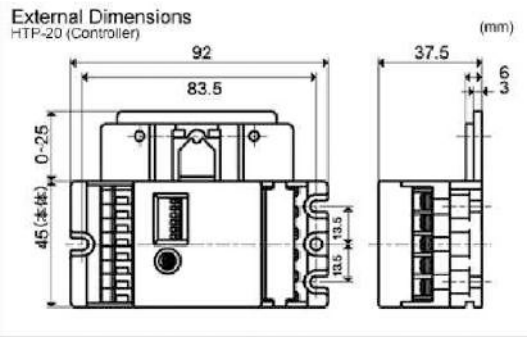
Receiver × 1pcs

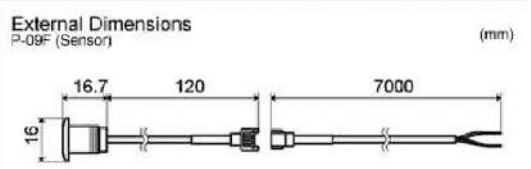
TH-136-MULTIFUNCTION DIGITAL SWITCH

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

HTP-21C-SAFETY BEAM(HOTRON)





1. Beam sensor consisting of a controller and a single or dual set of infrared beams.
2. No need to use tools for wiring connection with compact controller.
3. Available to select penetration set-up or direct reflection set-up by setting switch.
4. Blink(under penetration setting), ON or OFF of LED tells you about the most suitable setting of volume adjustment by microcomputer control.

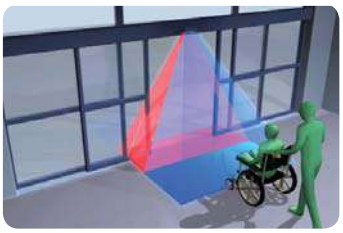
HR942D-INFRARED RAY SENSOR

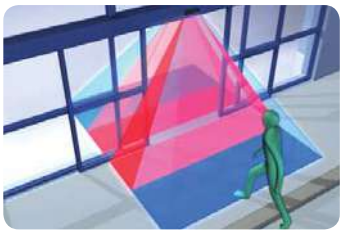
1. The sensor body can be angled at up to 10° to ensure timely detection of fast moving traffic.
2. Presence timer settings adjustable to 2, 15 60 and 180 seconds.
3. The sensor microprocessor automatically takes countermeasures against adverse conditions such as falling snow and strong sunrays and electrical noise.
4. Quick installation and easy to adjust.
5. Active area is very specific with high degree of adjustment flexibility.
6. 12-24V AC-DC operations, Normal Open relay.
7. Simple design to suit with every Automatic Door.

HR100-CT-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

HR94D1-C1- MONITORED SAFETY(HOTRON)

Monitored Sliding Door Side Screen or Door Threshold Pedestrian Safety Sensor.

ACCESSORY FOR EN16005 OPERATORS

Versatile and simple to set up, the HR94D1-C1 protects pedestrians from the dangers of both opening and closing sliding doors at mounting heights of up to 3m

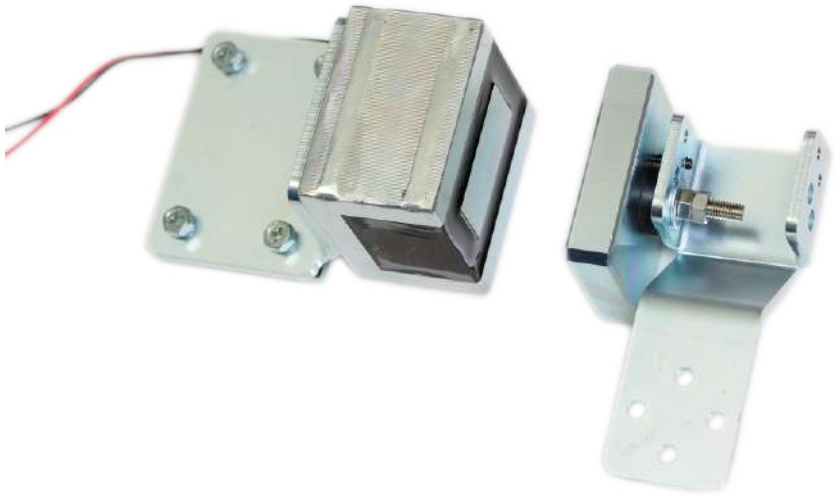
- **Sliding Door Side Screen Pedestrian Safety**
  Protect pedestrians from the dangerous leading door edge during door open cycles with a dense curtain of infrared safety

- **Door Threshold Pedestrian Safety**
  Safeguard pedestrians from hazardous door closures due to a shallow but wide infrared safety curtain that is monitored once per door cycle

- **Solid & Reliable**
  Avoid the risk of loss or damage to individual sensor parts through a one piece sensor body construction

- **Simple to Install**
  Install with ease without the need for a remote control thanks to comprehensive instructions printed on the sensor body

TH-201-MEGNETIC LOCKS

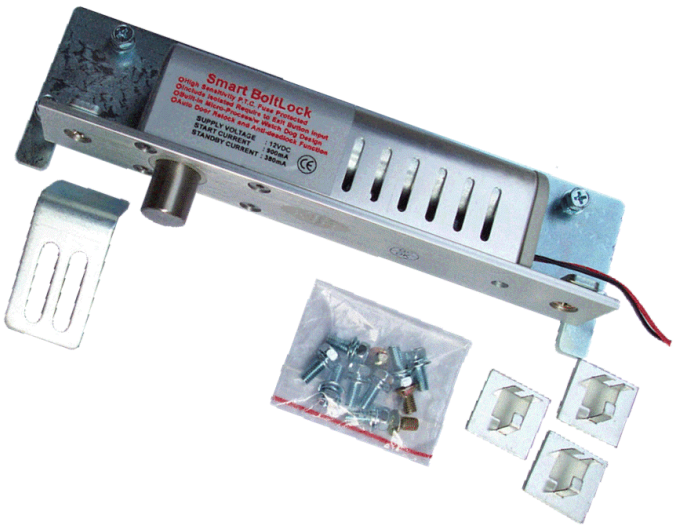


1.Main subject molded integrally and it can simplify installation procedures

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.

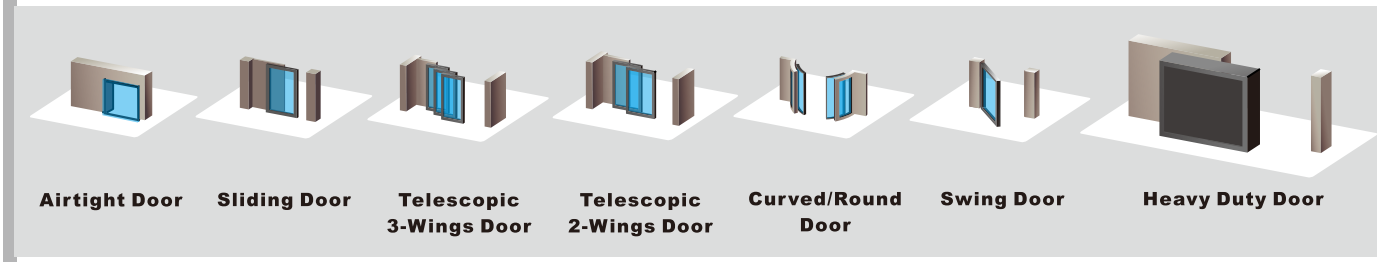
2.Tough and durable. There is no problems about the lock be lodged.

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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FAX:+886-7-8413711

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