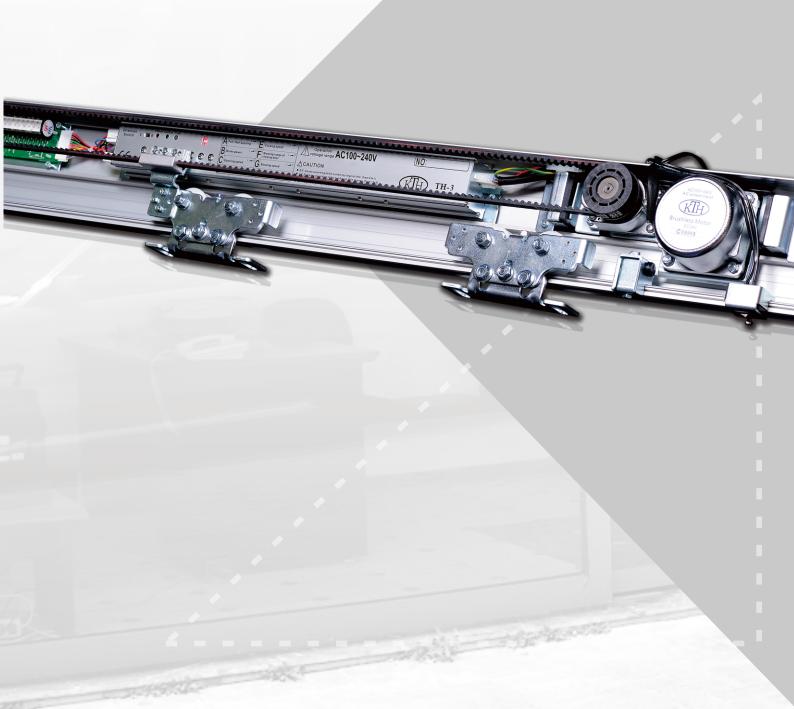
# **EXECUTION ATIC DOOR SYSTEM**

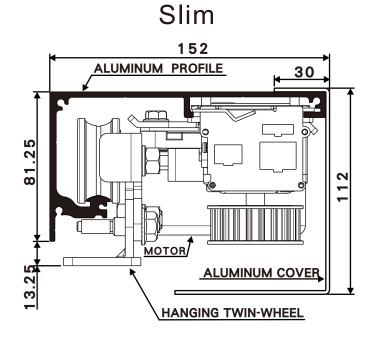


# TABLE OF CONTENTS

. SPECIFICATION&PROFILE1
COMPONENTS2
THE POSITION OF THE HANGING TWIN-WHEEL & INSTALL THE RACK BELT
LEGEND OF PART DRAWING4
5. TEST & ADJUST(STANDARD)5
CONNECTION6
ADJUST CONTROLLER7
8. TEST & ADJUST(EN16005)8
. ADJUST CONTROLLER-19
. ADJUST CONTROLLER-210
. WIRING DIAGRAM OF TH-100(STANDARD)11 WIRING DIAGRAM OF TH-100(EN16005)
TH-125 REMOTE CONTROL & TH-136 DIGITAL SWITCH12
. A-11 SAFETY BEAM & 3H-CH01 SENSOR13
. HR100-CT(EN-16005) SENSOR14
. TH-201&TH-200LK LOCK15
TH-135-FUNCTION KEY SWITCH16

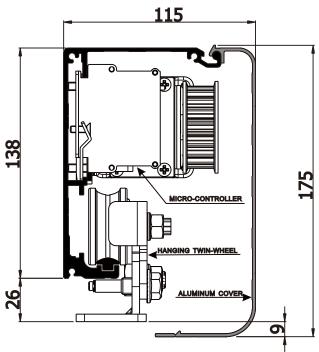
# SPECIFICATION&PROFILE

# Standard 110 67 132.5 168 MICRO-CONTROLLER HANGING TWIN-WHEE ALUMINUM COVER 26



**MEASURE**: mm

# Noiseless



TYPE	TH-3			
MODEL	SINGLE-WINGED	BI-PARTING		
DOOR WEIGHT	150kgX1(door)	130kgX2(door)		
DOOR WIDTH	DW=500mm~2500mm	DW=500mm~2500mm		
INSTALL WAY	Surface install	Surface install		
MOTOR	DC24V 75W BRUS	HLESS DC MOTOR		
CONTROL	STANDARD MICRO-CONTROLLE			
POWER CONSUMPTION	75w			
VOLTAGE	AC100V~240V			
ENVIRONMENTAL TEMPERATURE	-20°C~+50°C			
VOLUME	60 decibel(max.)			
STARTING SPEED	600mm(second) 5	50mm X 2 (second )		
STARTING TIMES	0~20 sec. (	regulable)		
TRANSMISSION IMPORTANT CONDITION	RACK BELT S8M			
OPEN DOOR RANGE	FULL/HALF-OPEN (regulable)			
PFC POWER EFFICIENCY	0.95(in AC100V Full load)			
TRACTION FORCE	31	кg		

**MEASURE**: mm

# COMPONENTS



**MICRO-CONTROLLER** 



COMBINED TERMINAL BLOCK



BRUSHLESS DC MOTOR

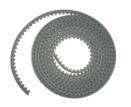


**BELT ROLLER** 





SENSORS (OPTIONAL DEVICE)



**RACK BELT** 

# (BI-PARTING) HANGERS & IRON PARTS



**ACTIVE BRACE** with BELT FIXER



PASSIVE BRACE with BELT FIXER



HANGING BRACE-4 PCS

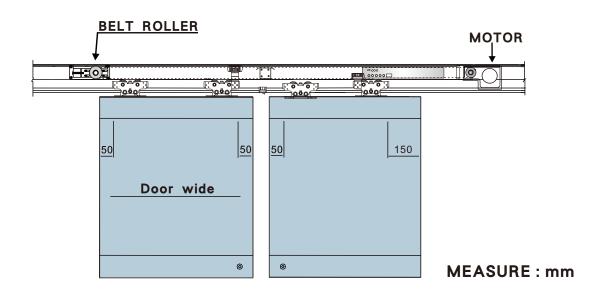


**BELT BRACE** 



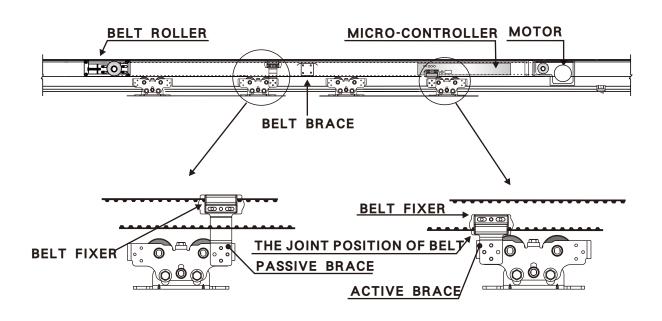
HANGING TWIN-WHEEL 4 PCS

#### THE POSITION OF THE HANGING TWIN-WHEEL



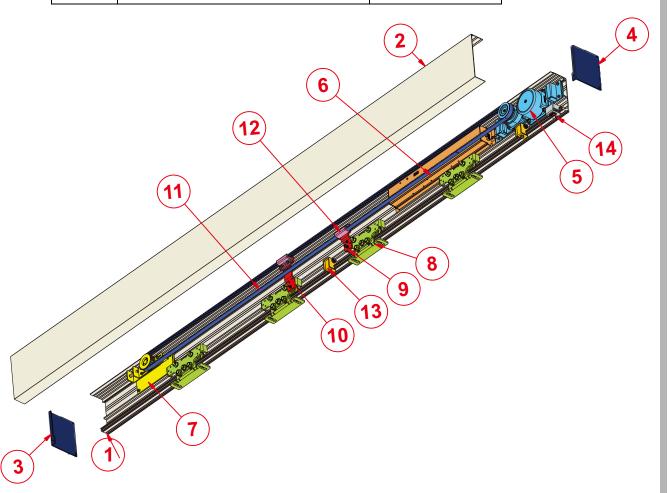
Inside the room, the distance between the "right side hanging-wheel" and "the edge of door" must be more than 150mm.

### **INSTALL THE RACK BELT**

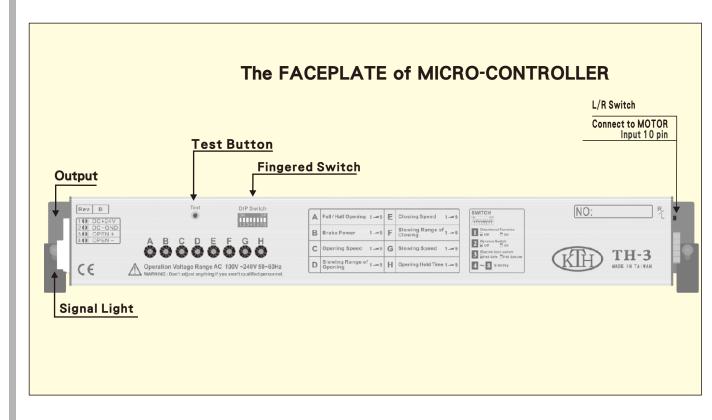


# LEGEND OF PART DRAWING

	Parts List					
No.	Parts Name	Quantity				
1	"Standard" Aluminum Profile	1				
2	"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	Belt Fixer	2				
13	Stopper	2				
14	Power switch	1				



# TEST & ADJUST(STANDARD)



#### 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).

# Fingered Switch-Pin 1-Directional Function

Operation OFF: Normal mode.

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

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

OFF: Normal mode, after power resumes, the Operation < Door-Leaf opens the door first. ON: suitable for Security System, after power

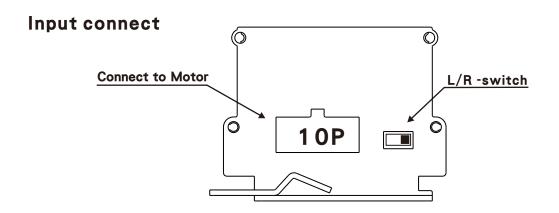
resumes, the Door-Leaf closes the door first.

## Fingered Switch-Pin 3- Electric Lock Switch

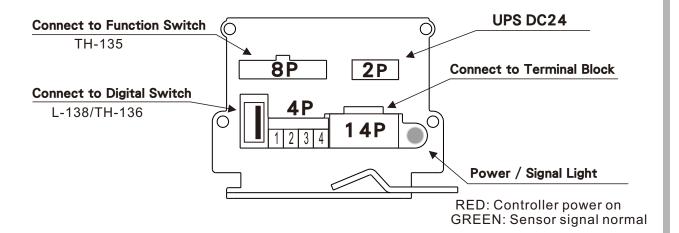
☐ Fail Safe 
☐ Fail Secure

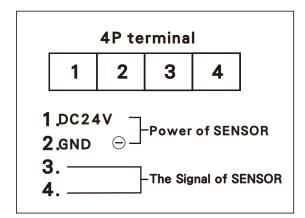


# **MICRO-CONTROLLER**



#### **Output connect**





#### 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.

F 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.

■ 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 

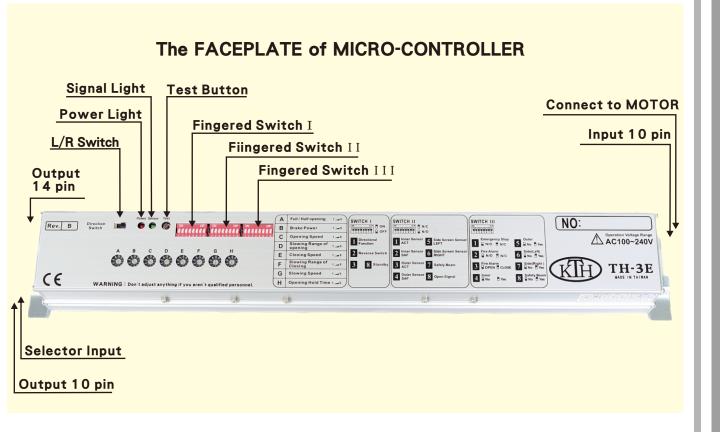
> Adjust the SLOW SPEED. Higher number, faster speed. CAUTION: please adjust the number one by one from low to high.

**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	15	20

# TEST AND 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 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 numberfrom 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.

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.

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	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 range).



#### Switch I

1	Dire	ctiona	I fun	ction
---	------	--------	-------	-------

3 ~ 8 Standby

OFF ON

OFF: Normal mode.

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

# 2 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.

# ON DIP 1 2 3 4 5 6 7 8

# Switch II

	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

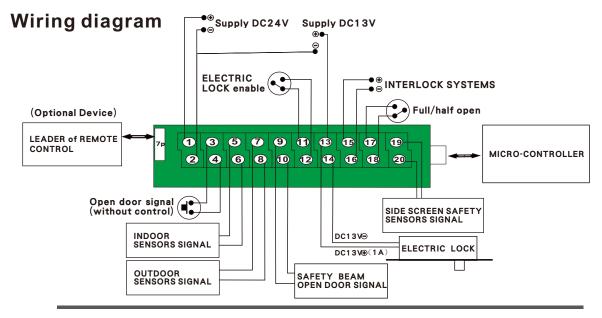


#### Switch III

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

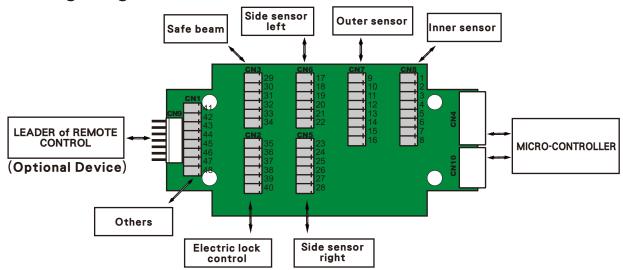
Fyi. (4)-(7) are for the function of Monitored Sensor.

# WIRING DIAGRAM OF TH-100(STANDARD)



# WIRING DIAGRAM OF TH-100(EN16005)

#### Wiring diagram



The ILLUSTRATED of WIRING.



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.



## ■ 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	40.0		
Current consumption	3VA Max.	18.0		
Response time	5 ms max.			
Min. sensible object	10.0    ◆ Opaque object	11.5		
Control output	1a / Relay (3A/250VAC)			
Output status	NO/NC changeable			
Off delay	0.5s	* Fixed hole : $12.5 \oplus \pm 0.2$		
Operating circumstance	- 20°C ~ +80°C : 35% ~ 85% RH			

# 3H-CH01-INFRARED RAY SENSOR



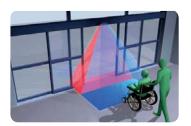
- 1. Small sensor on the market that combines door activation with pedestrian safety in one product.
- 2. Double curtain of infrared safety beams protects pedestrians from dangerous automatic door movements.
- 3. Accurately adjustable detection area reduces false door activations in busy urban environments.
- 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)

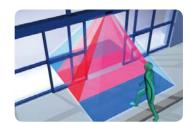
Advanced Unidirectional Detection Sensor with Monitored Safety and Unique"Door Learn" Ability



Pioneering super sensor offers 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

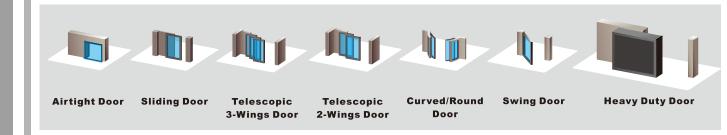
2. IN ONE-WAY

3. AUTO

4. OUT ONE-WAY

5. DOOR CLOSE

6. FULL/HALF



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