MKTH AD-3 AUTOMATIC DOOR SYSTEM

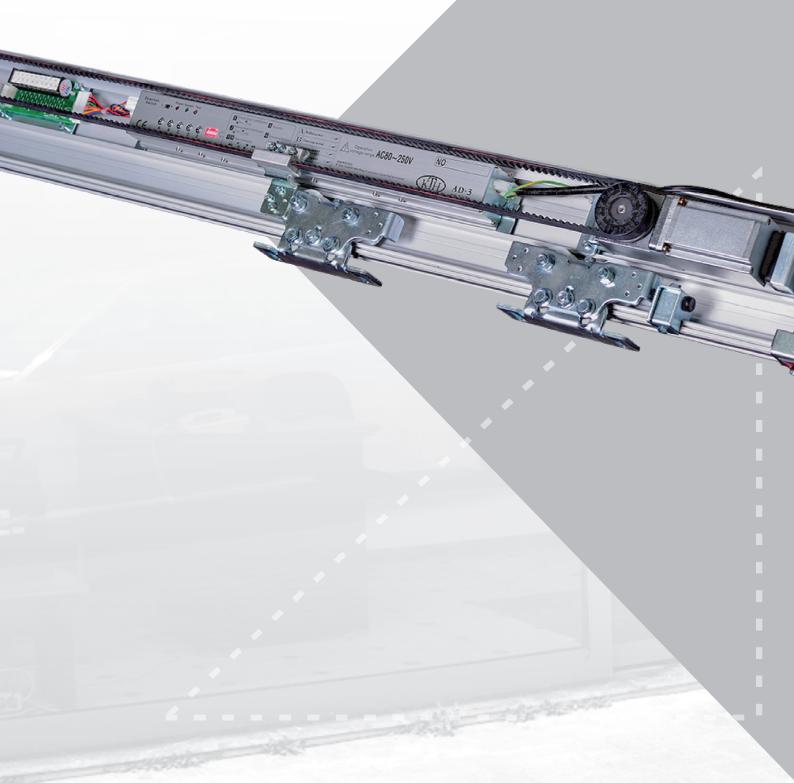


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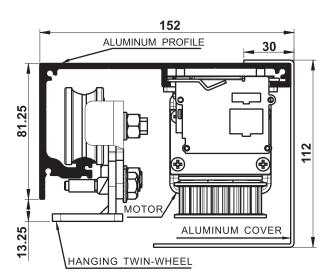
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SPECIFICATION&PROFILE

Standard

110 67 132.5 168 MICRO-CONTROLLER HANGING TWIN-WHEEL ALUMINUM COVER 26

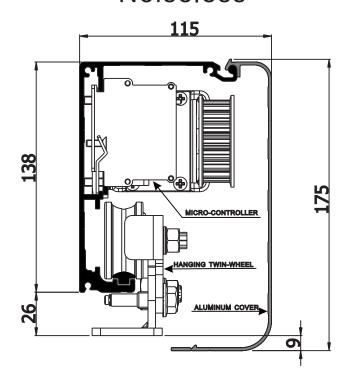
Slim



MEASURE: mm

MEASURE: mm

Noiseless



TYPE	AD-3		
MODEL	SINGLE-WINGED BI-PARTIN		
DOOR WEIGHT	150kgX1(door) 130kgX2(do		
DOOR WIDTH	DW=500mm~2500mm	DW=500mm~2500mm	
INSTALL WAY	Surface install	Surface install	
MOTOR	DC24V 75W WOR	M GEAR MOTOR	
CONTROL	USER-FRINEDLY MICRO-CONTROLLER		
POWER CONSUMPTION	75w		
VOLTAGE	AC100V~240V		
ENVIRONMENTAL TEMPERATURE	-20°C~+50°C		
VOLUME	60 decibel(max.)		
STARTING SPEED	600mm(second) 550mm X 2 (second		
STARTING TIME	0~64sec.(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	3.5 kg		

MEASURE: mm

COMPONENTS



MICRO-CONTROLLER



BELT ROLLER



BRUSHLESS DC MOTOR



COMBINED TERMINAL **BLOCK**



COMBINED TERMINAL **BLOCK FOR EN16005**



SENSORS (OPTIONAL DEVICE)



RACK BELT

(BI-PARTING) **HANGERS & IRON PARTS**



ACTIVE BRACE with BELT FIXER



PASSIVE BRACE with BELT FIXER



HANGING BRACE-4 PCS

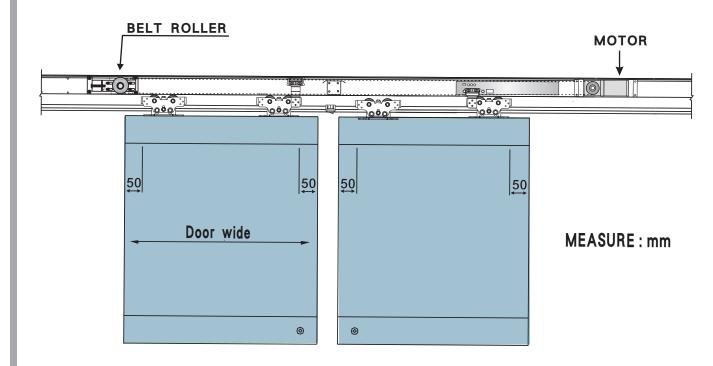


BELT BRACE



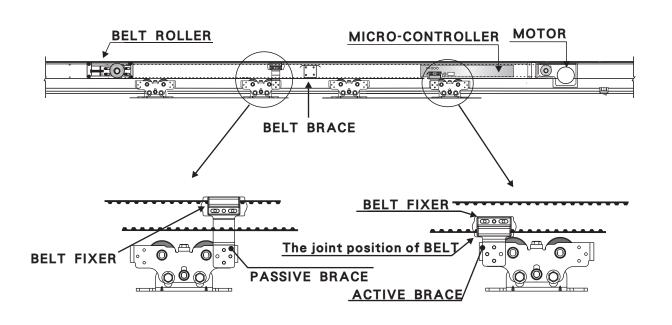
HANGING TWIN-WHEEL4 PCS

THE POSITION OF THE HANGING TWIN-WHEEL



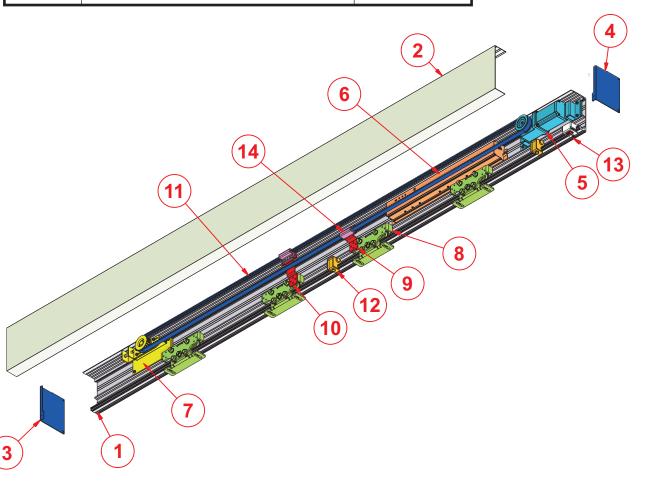
Inside the room, the distance between the HANGING TWIN-WHEEL and the RIM of DOOR must be more than 50mm.

INSTALL THE RACK BELT

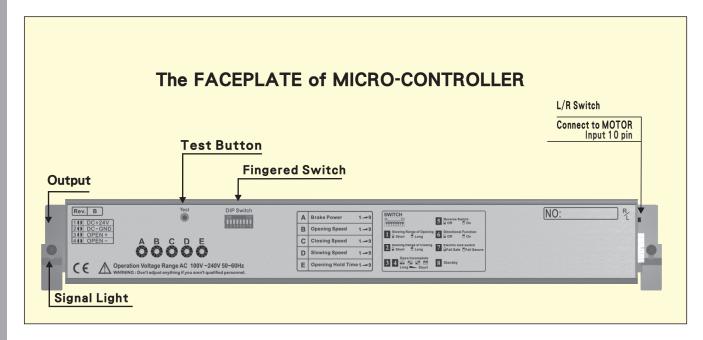


LEGEND OF PART DRAWING

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)



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

△ 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.



B The opening speed of the door

Adjust the OPEN SPEED. Higher number, faster speed. CAUTION: please adjust the number one by one from 1 oW to 1 igh.

ADJUST CONTROLLER-1

The closing speed of the door

Adjust the CLOSED SPEED. Higher number, faster speed. CAUTION: please adjust the number one by one from 1 OW to 1 1gh.

The slowing speed of the door

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

F 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



Fingered Switch

Slowing range of opening door

Short Long

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

Slowing range of closing door

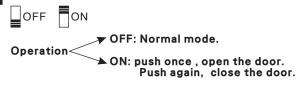
Short Long

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.

3 4 Open incomplete



6 Directional function

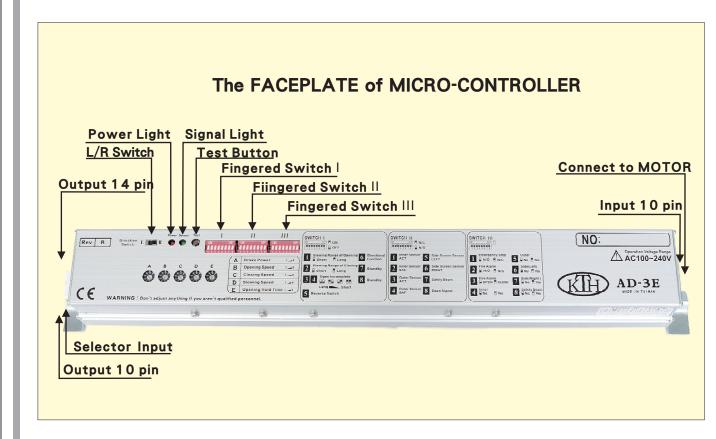


7 Electric lock switch



8 Standby

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 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.

B 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.

C 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 speed of the door

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

Opening hold time

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

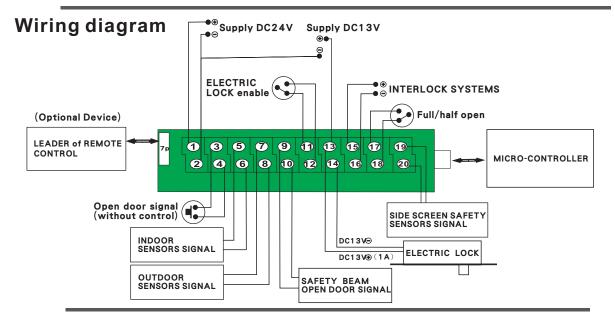
NUMBER	0	1	2	3	4	5	6	7	8	9
SECOND	0	1	2	3	4	5	6	10	32	64

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).

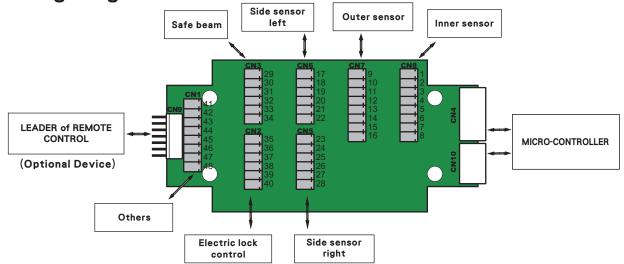
Switch I	
1 Slowing Range of Opening Short Long	5 Reverse Switch: in order to control opening and closing direction of the Door-Leaf after power resumes.
2 Slowing range of closing Short Long	OFF: Normal mode, after power resumes, the
3 4 Open incomplete Long Short	Door-Leaf opens the door first. ON: suitable for Security System, after power resumes the Door-Leaf closes the door first. 6 Directional function
	- _
	OFF ON
	OFF: Normal mode. ON: Push once , open the door. Push again, close the door.
	7 8 Standby
Switch II	
1 Inner Sensor N/O N/C	5 Side Screen Sensor N/O N/C LEFT
2 Inner Sensor N/O N/C SAF	6 Side Screen Sensor N/O N/C Right
3 Outer Sensor ☐ N/O ☐ N/C ACT	7 Safely Beam N/O N/C
4 Outer Sensor ☐ N/O ☐ N/C SAF	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 Se	ensor.

■ WIRING DIAGRAM OF TH-100(STANDARD)



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.



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	14.0			
Control output	1a / Relay (3A/250VAC)				
Output status	NO/NC changeable				
Off delay	0.5s	* Fixed hole : 12.5 ⊕ ±0.2			
Operating circumstance	- 20°C ~ +80°C ∶ 35% ~ 85% RH				

■ 3H-CH01-INFRARED RAY SENSOR



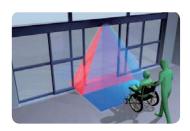
- 1. Small sensor on the market that combines door activation with pedestrian safety in one product.
- 2. Double curtain of infrared safety beams protects pedestrians from dangerous automatic door movements.
- 3. Accurately adjustable detection area reduces false door activations in busy urban environments.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

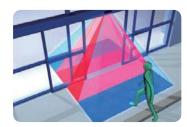
Advanced Unidirectional Detection Sensor with Monitored Safety and Unique"Door Learn" Ability



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

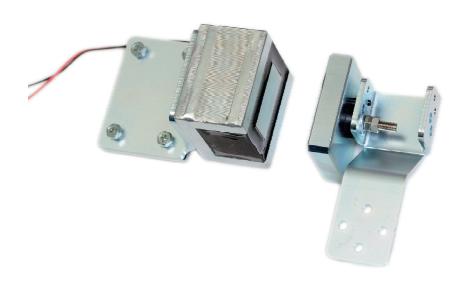
Flexibility to adjust the door activation and pedestrian safety detection zones independently makes the HR100-CT the ideal sensor for every sliding door installation

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

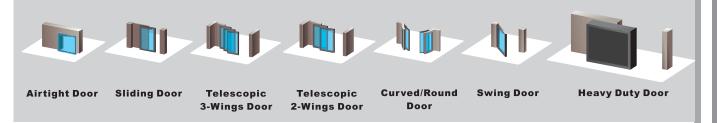
2. IN ONE-WAY

3. AUTO

4. OUT ONE-WAY

5. DOOR CLOSE

6. FULL/HALF



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