# **M** KTH AD-3 AUTOMATIC DOOR SYSTEM



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IN AUTOMATIC DOOR SYSTEM

### SPECIFICATION&PROFILE







Slim

MEASURE : mm





TYPE	AD-3		
MODEL	SINGLE-WINGED	<b>BI-PARTING</b>	
DOOR WEIGHT	150kgX1(door)	130kgX2(door)	
DOOR WIDTH	DW=500mm~2500mm	DW=500mm~2500mm	
INSTALL WAY	Surface install	Surface install	
MOTOR	DC24V 75W WOR	M GEAR MOTOR	
CONTROL	USER-FRINEDLY MI	CRO-CONTROLLER	
POWER CONSUMPTION	75	iw	
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	3.5 kg		

**MEASURE** : mm

1



2

### 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)

#### The FACEPLATE of MICRO-CONTROLLER

	Test Button			Connect to MOTOR Input 10 pin
Output	Finge	red Switch		
Rev. B 10) DC1-24V 20) DC-GND 30) OPEN- A B C C C A Operation Voltage Range A WARNING: Don't adjust anything I	ort DIP Switch	A Brake Power 1-9   B Opening Speed 1-9   C Closing Speed 1-9   D Slowing Speed 1-9   E Opening Hold Time 1-9	SWITCH     Sincere and the field on       Image: Sincere and	NO: P1

L/R Switch

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  $1\,\rm OW$  to  $h\,i\,g\,h.$ 

# ADJUST CONTROLLER-1

### **C** The closing speed of the door

Adjust the CLOSED SPEED. Higher number, faster speed. CAUTION: please adjust the number one by one from  $1\,0\,\text{W}$  to  $h\,i\,g\,h.$ 



#### **D** The slowing speed of the door

Adjust the SLOW SPEED. Higher number, faster speed. CAUTION: please adjust the number one by one from 1~ow to ~h~i~g~h.



### E 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 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.



#### **D** 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.



#### E 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).



# WIRING DIAGRAM OF TH-100(STANDARD)



### WIRING DIAGRAM OF TH-100(EN16005)



### The ILLUSTRATED of WIRING.

**REMOTE CONTROL** 



#### COMBINED TERMINAL BLOCK



**MICRO-CONTROLLER** COMBINED TERMINAL BLOCK

# 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	10.0
Current consumption	3VA Max.	
Response time	5 ms max.	
Min. sensible object	10.0 $\Phi$ Opaque object	
Control output	1a / Relay (3A/250VAC)	
Output status	NO/NC changeable	
Off delay	0.5s	* Fixed hole $:$ 12.5 $\Phi \pm$ 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.

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# 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



Door

2-Wings Door

### (III) KING TA HAN TECHNOLOGY CO., LTD

**3-Wings Door** 

TEL:+886-7-8413699

FAX:+886-7-8413711

ADD:(80673) 2F-1,#286-8,Sinya Rd., Cianjhen District, Kaohsiung City,

Taiwan

(III) AUTOMATIC DOOR SYSTEM