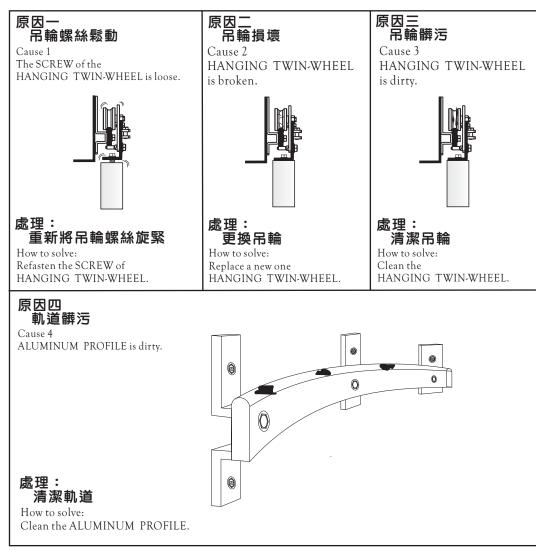
# Automatic Door Systems



http://www.kthtw.com e-mail: kth@kthtw.com 使用說明 OPERATION INSTRUCTION

# (III) TH-RH5/17/故障排除 TROUBLESHOOTING

狀況三 門扇運行有雜音The Door-Leaf sends out abnormal noise in operating.





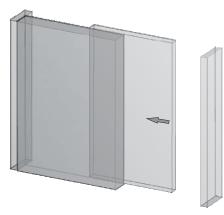
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# 平移門 SLIDING DOORS

### 本公司另有以下各類自動門配備,請洽本公司各經銷商

Our company has the following series of automatic door, please contact with our distributors/representations.

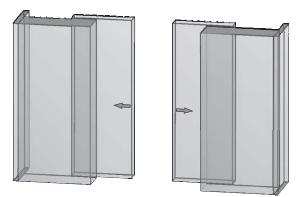
### 單扇平移門 SINGLE-WINGED



### 按裝方式請參考平移門按裝說明

Installation: Please in accordance with the instruction of Sliding Door.

### 雙扇平移門 BI-PARTING



按裝方式請參考平移門按裝說明 Installation: Please in accordance with the instruction of Sliding Door.



# / 雙扇走單/四扇走雙向門

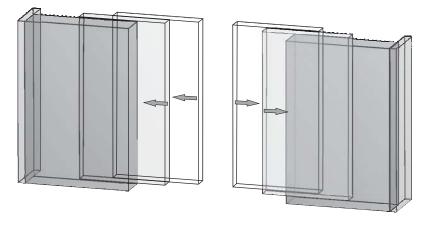
KIH)TH-RH5/

雙扇走單向門 Telescopic 2-winged Sliding Doors.



#### **四扇走雙向門** scopic 4-winged Sliding Da

Telescopic 4-winged Sliding Doors.

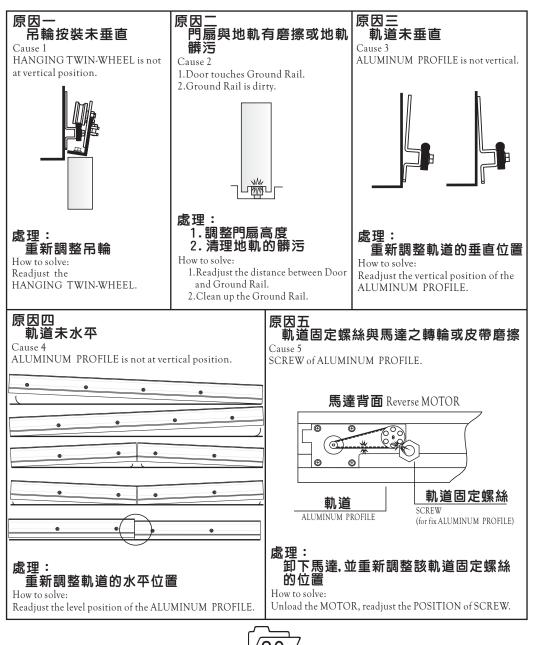


按裝方式請參考四扇走雙向門按裝說明 Installation: Please in accordance with the instruction of Telescopic 4-winged Sliding Doors.



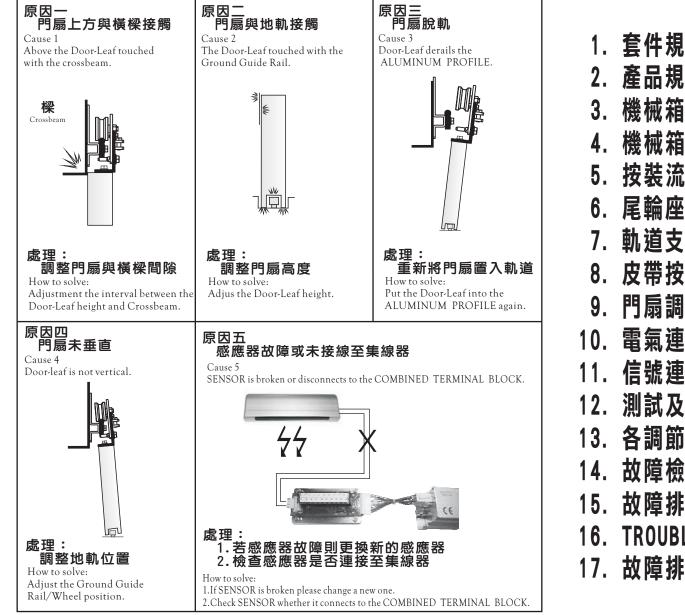
### 狀況二 門扇運行不順暢 Door-Leaf isn't smooth in operating.

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# (III) TH-RH5/17/ 故障排除 TROUBLESHOOTING

狀況一 門扇無法開啟或關閉 Door can't be opened or closed.



TH-RH5

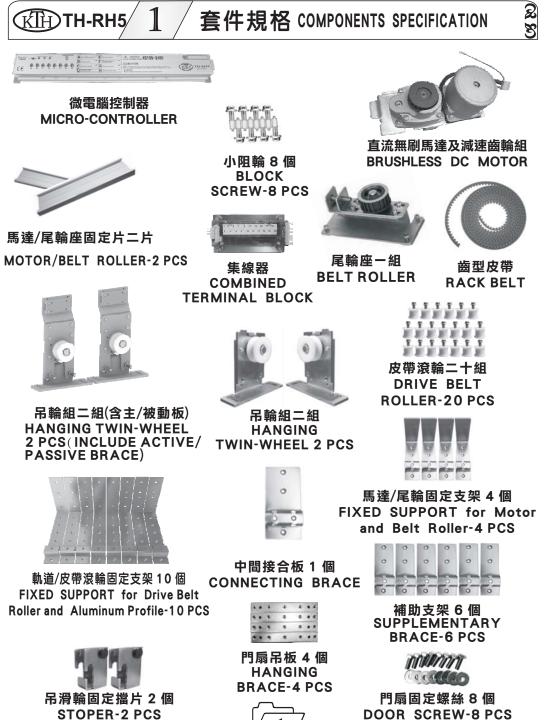
R 8

1 目録 TABLE OF CONTENTS

1.	套件規格	COMPONENTS SPECIFICATION
2.	產品規格	TECHNICAL SPECIFICATION
3.	機械箱剖	■ SECTIONAL DRAWINGP3
4.	機械箱高	度圖 INSTALLATION DRAWINGP4
5.	按裝流程	INSTALL PROCEDURE
6.	尾輪座按	装 INSTALL THE BELT ROLLER
7.	軌道支架	分佈圖 ALUMINUM PROFILE DRAWING
8.	皮帶按裝	INSTALL THE RACK BELTP8
9.	門扇調整	ADJUST THE DOOR-LEAF
0.	電氣連接	CONNECTIONP10
1.	信號連接	OUTPUT CONNECTP11
2.		整 TEST AND ADJUSTP13
3.	各調節旋	<b>鈕功能説明</b> ADJUSTMENTP14
4.	故障檢查	流程 BROKEN CHECKINGP16
5.	故障排除	<b>(繁體)</b>
6.	TROUBLES	SHOOTINGP18
7.	故障排除	(圖示) TROUBLESHOOTINGP19

R 8

#### 套件規格 COMPONENTS SPECIFICATION KIH)TH-RH5/



KIH TH-RH5/	16/	TROUBLESHOOTING
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PROBLEMS	REASONABLE	СНЕСК	HOW TO SOLVE
DOOR CAN'T BE MOVED.	1.No power.	Broken circuit.	Check the broken circuit position.
		The Power Switch is not opened.	Open the POWER SWITCH.
	2.The door is locked.	Door is locked and no movement action.	Open the DOOR LOCK.
	3.The sensor is broken.	Signal light is WORKING.	Check the MICRO-CONTROLLER.
		Signal light is OUT OF WORKING.	Check the CIRCUIT OF SENSOR or change a new one SENSOR.
SPEED	1.Speed is too slow.	Check the Speed at KNOB of MICRO-CONTROLLER.	Adjust the Speed of Open/Closed Door.
	2.Door runs into the obstructor, then cause the Door moving slow.	Installation problem or dirty.	Reinstall or clean the ALUMINUM PROFILE.
	3.Door is difficult to move.	Turn off the power.Use hand to move the Door, besides, check the Ground Guide Rail whether it is dirty.	Clean the Ground Guide Rail.
		Check the HANGING TWIN-WHEEL whether it is broken.	Change a new one.
		Check the Door Bolt in the door bottom whether it is loosen.	Fix the Door Bolt.
		Check whether the Ground Wheel is broken.	Change a new Ground wheel.
DOOR CAN'T FULL OPEN.	In the Half-Open way.	Check the Knob/Switch.	Turn on to Full Open.
DOOR CAN'T CLOSE.	1.In the Full-Open way.	The SENSOR keeps working.	Check wiring or change a new SENSOR.
	2.The Door opens suddenly while it is moving to close .	The SENSOR probably is installed with something wrong.	Adjust the SENSOR or change a new one.



# (正) TH-RH5 2 產品規格 TECHNICAL SPECIFICATION

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問題	可能原因	檢查方向	排除操作
無開門動作	1.無電源	電路斷路	檢查電路斷點
		電源開關未開	開啟電源開關
	2.門被鎖住	門鎖鎖住,控制器無 動作	開啟門鎖
	3.感應器故障	感應信號燈有動作	檢查控制器
		感應信號燈無動作	檢查感應器線路或更 換感應器
速度太慢	1.速度設置太慢	控制器速度調整	調整開門或關門速度
	2.門扇遇到阻礙 物,變成慢速	軌道施工不良或髒污	重新施工或清理軌道
	3.門扇滑動阻力 過大	關閉電源 , 用手使門 滑動並檢查地面導軌 是否有髒污	清理地面導軌
		吊滑輪磨損	更換吊滑輪
		檢查門扇底部的鎖閂 是否鬆動	固定好鎖閂
		檢查地面導輪是否已 損壞或鬆動	更換或重新固定地面 導輪
門扇 開不到底	處於半開模式	檢查全開/半開開關	切換至全開
門扇 不能關閉	1.門扇處於全開 狀況無法關閉	感應器信號燈持續亮 著	感應器線路檢查或更 換感應器
	2.門扇關到一半 隨卽開啟	感應器誤動作	調整或更換感應器

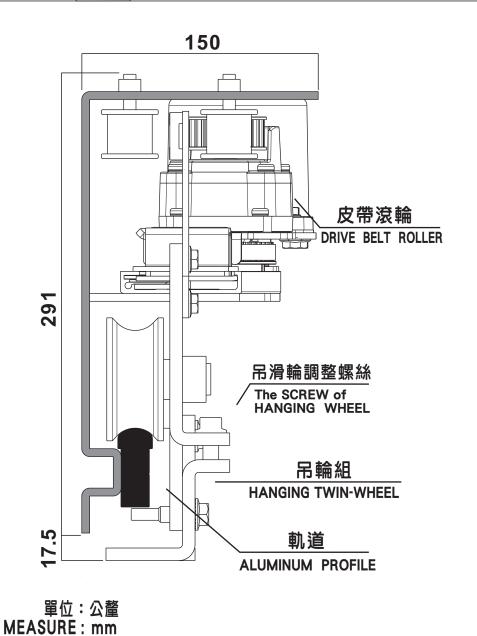
型號 TYPE	TH-RH5	
種類 M0DEL	單向橫開式 SINGLE-WINGED	雙向橫開式 BI-PARTING
門扇重 DOOR WEIGHT	250kg X1扇(door)	220kg X2扇(door)
門扇寬度 DOOR WIDTH	DW=500mm~3000mm	DW=500mm~3000mm
按裝方式 INSTALL WAY	表面按裝 Surface install	表面按裝 Surface install
馬達 MOTOR	DC24V120W直流無刷馬達 DC24V120WBRUSHLESS DC MOTOR	
控制器 CONTROL	微電腦化處理機控制器 STANDARD <b>MICRO-CONTROLLER</b>	
消耗電 POWER CONSUMPTION	120W	
電源電壓 VOLTAGE	AC100V~240V皆可(either AC100V~240)	
環境溫度 ENVIRONMENTAL TEMPERATURE	-20°C~+50°C	
噪音 VOLUME	最大 60 分貝 60decibel(max.)	
開啟速度 STARTING SPEED	600mm/秒(second)	550mm/秒(second)
開啟時間 STARTING TIMES	可調 0 秒至 20 秒 0~20 sec. (regulable)	
傳動要件 TRANSMISSION IMPORTANT CONDITION	齒形皮帶 RACK BELT S8M	
開門幅度 OPENING DOOR RANGE	全開/半開 可調整距離 FULL/HALF-OPEN(regulable)	
PFC 功率因素 POWER EFFICIENCY	0.95(AC100V全載時/in AC100V Full load)	
手推開啟力 TRACTION FORCE	6.5kg	

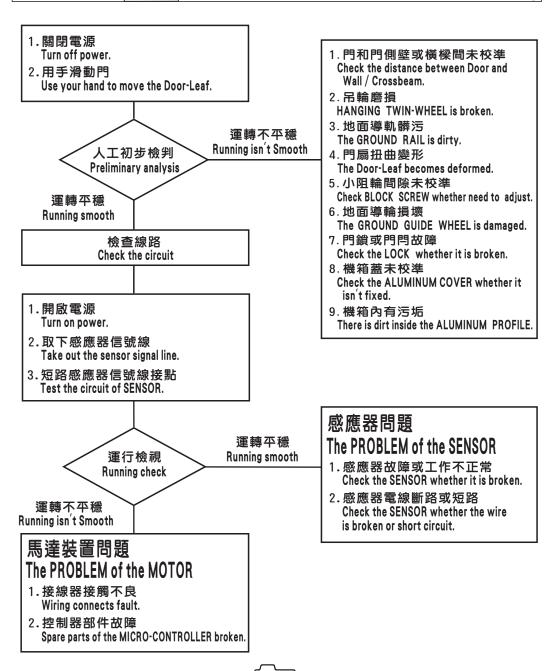


# (TH) TH-RH5 3 機械箱剖面圖 SECTIONAL DRAWING 8

(IIII) TH-RH5/14/故障檢查流程 BROKEN CHECKING

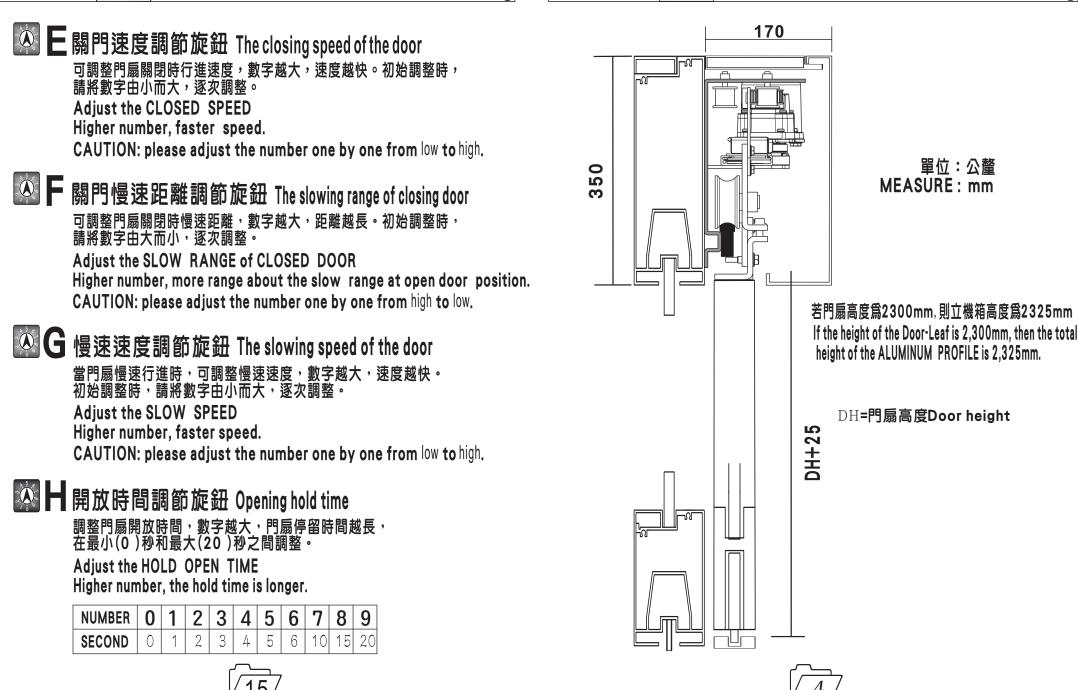
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创于TH-RH5 13 各調節旋鈕功能說明 ADJUSTMENT 8



KTH TH-RH5/

4

機械箱高度圖 INSTALLATION DRAWING 👷





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# (III) TH-RH5/13/各調節旋鈕功能說明 ADJUSTMENT<sup>2</sup> 3

🙆 🗚 半開位置調節旋鈕 Full/Half opening 全開/半開接點ON時,半開功能隨卽動作,此時可藉由調節旋鈕設 定門扇開啟位置,數字越大,開啟幅度越寬。 Adjust the RANGE of the HALF OPEN DISTANCE. Higher number, wider range. 🙆 B 煞車力調節旋鈕 Brake power 門扇開啟時,其煞車力 可自由調整,門扇較輕時,所需煞車力 較小;門扇較重時,所需之煞車力相對較大。可由調節旋鈕調整 煞車力至適當大小。當門扇重 小於50kg時,請調於0~2。 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開門速度調節旋鈕 The opening speed of the door 可調整門扇開啟時行進速度,數字越大,速度越快。初始調整時, 請將數字由小而大,逐次調整。 Adjust the OPEN SPEED Higher number, faster speed. CAUTION: please adjust the number one by one from low to high. D開門慢速距離調節旋鈕 The slowing range of opening door 可調整門扇開啟時慢速距離,數字越大,距離越長。初始調整時, 請將數字由大而小,逐次調整。 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.





# 创 TH-RH5 12 測試及調整 TEST AND ADJUST

電源開關開啟前,先手動開門和關門,確認門扇能夠平滑移動,並確認電氣連接無誤後, 方可供電。

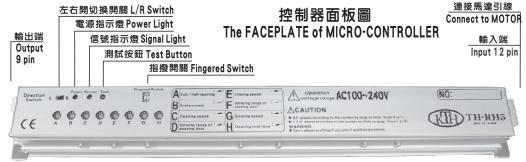
28

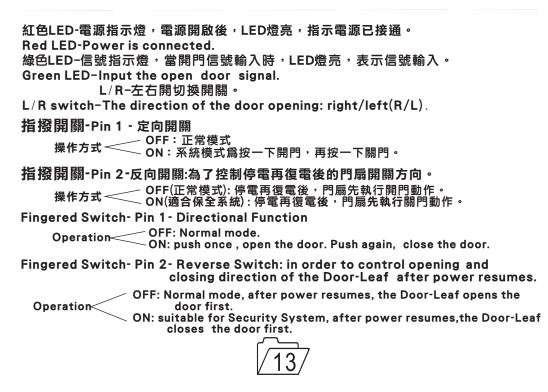
Before turn on the power, make sure the Door-Leaf can be smoothly moved, and the electric link is correct at first.

#### 1.系統行程記憶 SYSTEM PROGRAM REMEMBER 當電源開啟後,控制系統從門的關閉位置至開啟位置低速行進,確認並記憶行程距離,經 由內部微電腦處理器自動設定後,門扇開閉位置卽予以固定。

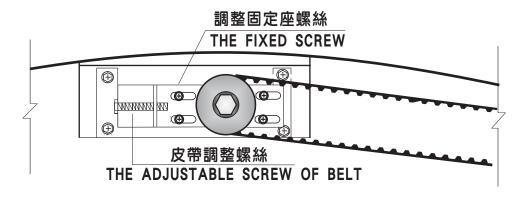
After turn on the power, the MICRO-CONTROLLER will remember the distance and the range.

#### 2.調整 ADJUST



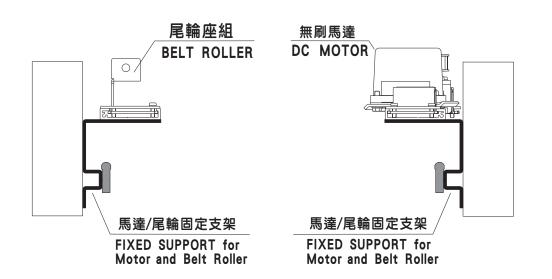






#### 皮帶張力可由皮帶調整螺絲做調整,調整完畢後, 須擰緊調整固定座螺絲。

TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.



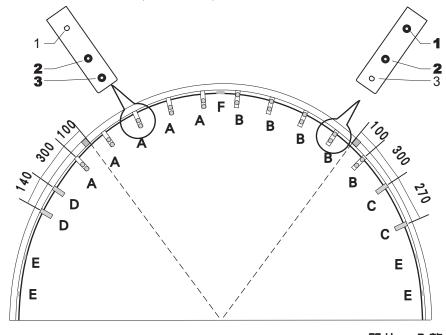




#### A.馬達端皮帶輪安裝孔位置

A. Position of drive belt roller (Near Motor)

B. 尾輪端皮帶輪安裝孔位 B.Position of drive belt roller (Near Belt-Roller)



- A. 爲馬達端軌道與皮帶滾輪固定架
- B. 爲尾輪端軌道與皮帶滾輪固定架

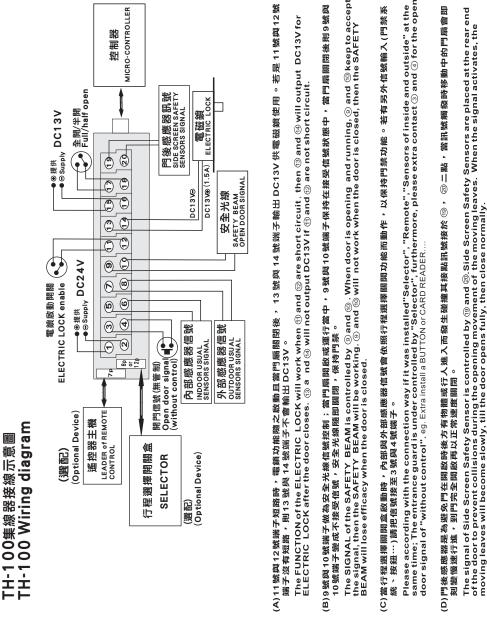
單位:公釐 MEASURE:mm

- C. 爲馬達固定架
- D. 爲尾輪固定架
- E. 爲軌道補支架
- F. 爲軌道中間接合支架

(A),(B),(C),(D),(E),(F)are different FIXED SUPPORT for different function and position.

- (A):for Drive Belt Roller and Aluminum-Profile(Near Motor)
- (B):for Drive Belt Roller and Aluminum-Profile(Near Belt-Roller)
- (C):for Motor
- (C):for Belt-Roller
- (E):for Aluminum-Profile and wall (if need)
- (F):In the middle place, for connect two pieces of Aluminum-Profile

38 信號連接 CONNECTION (TH-100 OPTIONAL DEVICE) KIH TH-RH5/



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# (III) TH-RH5 11 信號連接 OUTPUT CONNECT

# 各電氣配件連接示意圖 The ILLUSTRATION of WIRING.

### 控制器與集線器連接示意圖

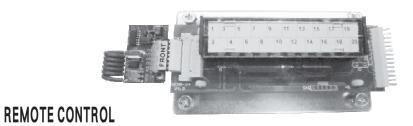


COMBINED TERMINAL BLOCK

MICRO-CONTROLLER

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### 集線器與遙控器連接示意圖

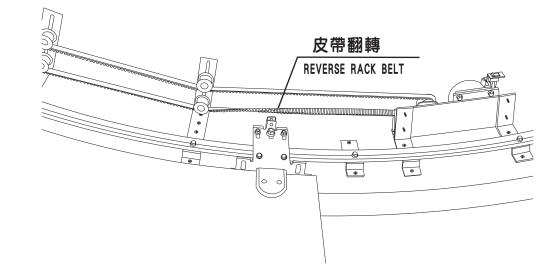


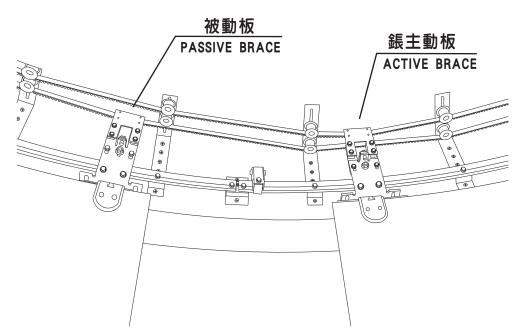
COMBINED TERMINAL BLOCK

/11/

(III) TH-RH5 8 皮帶按裝 INSTALL THE RACK BELT

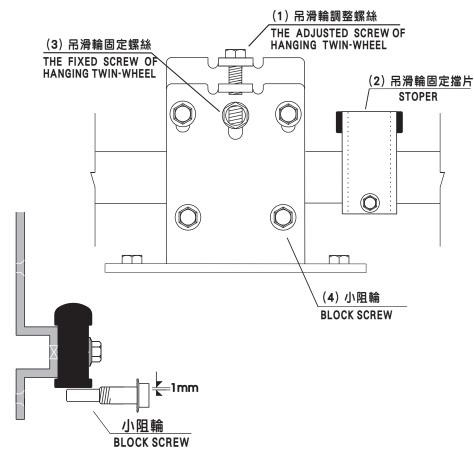
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#### 當門扇的高度與間隙需調整時,首先鬆開吊滑輪與門扇固定螺絲,將調整墊片 放入需要調整的位置。

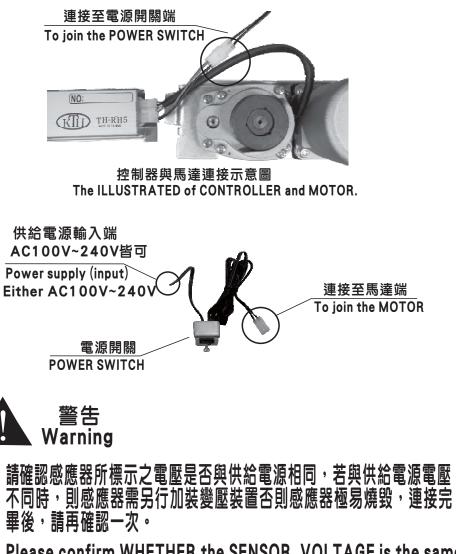
When Door-Leaf height and interval need to adjust, loose (3) at first, then put (1) to where you need to adjust.

調整完畢後,必須擰緊吊滑輪固定螺絲。
Need to fasten (3) after adjust

●門扇開關位置確認後,按置吊滑輪固定擋片,確保開門位置不變。 Install above-mentioned (2) after make sure the DOOR OPEN POSITION.



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Please confirm WHETHER the SENSOR VOLTAGE is the same as the power supply. If different between them, need to add the TRANSFORMER, otherwise the SENSOR would be burned.



