

Automatic Door Systems



S-30

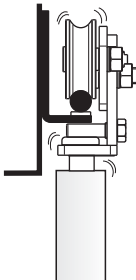
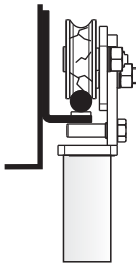
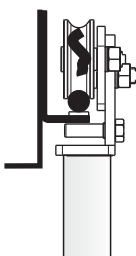
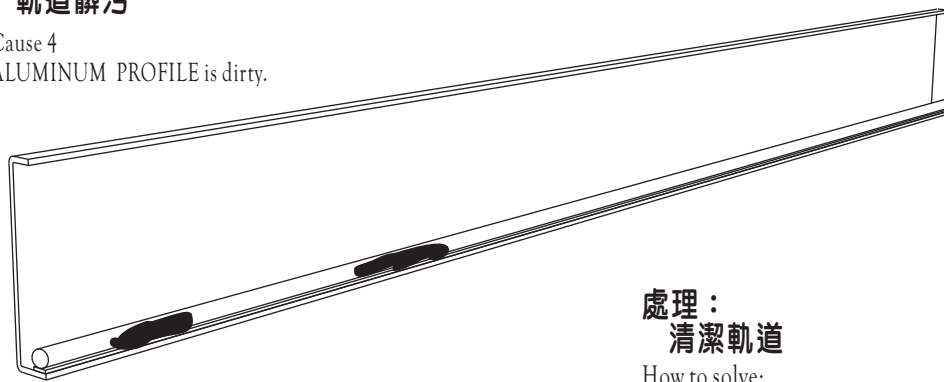
HEAVY-DUTY DOOR

使用說明

OPERATION INSTRUCTION

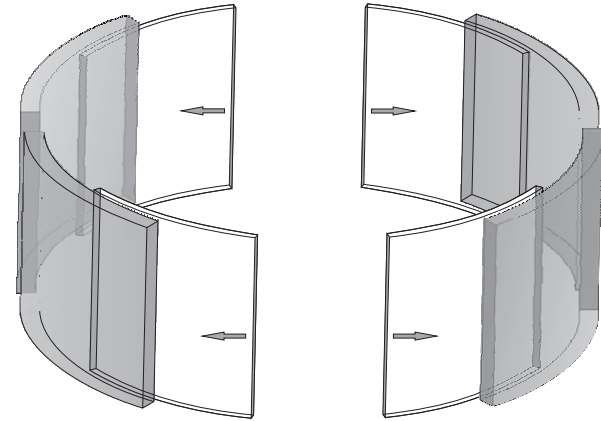
<http://www.kthtw.com>
e-mail: kth@kthtw.com

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

<p>原因一 吊輪螺絲鬆動</p> <p>Cause 1 The SCREW of the HANGING TWIN-WHEEL is loose.</p>  <p>處理： 重新將吊輪螺絲旋緊</p> <p>How to solve: Refasten the SCREW of HANGING TWIN-WHEEL.</p>	<p>原因二 吊輪損壞</p> <p>Cause 2 HANGING TWIN-WHEEL is broken.</p>  <p>處理： 更換吊輪</p> <p>How to solve: Replace a new one HANGING TWIN-WHEEL.</p>	<p>原因三 吊輪髒污</p> <p>Cause 3 HANGING TWIN-WHEEL is dirty.</p>  <p>處理： 清潔吊輪</p> <p>How to solve: Clean the HANGING TWIN-WHEEL.</p>
<p>原因四 軌道髒污</p> <p>Cause 4 ALUMINUM PROFILE is dirty.</p>  <p>處理： 清潔軌道</p> <p>How to solve: Clean the ALUMINUM PROFILE.</p>		

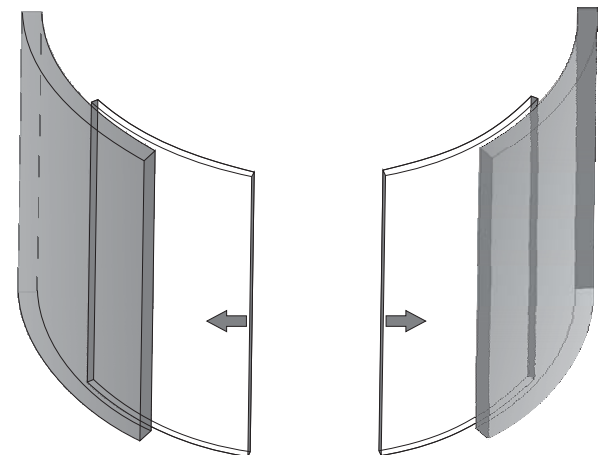
本公司另有以下各類自動門配備, 請洽本公司各經銷商
Our company has the following series of automatic door, please contact with our distributors/representations.

圓型門 Round type door



按裝方式請參考圓型門按裝說明
Installation: Please in accordance with the instruction of Round Type Door.

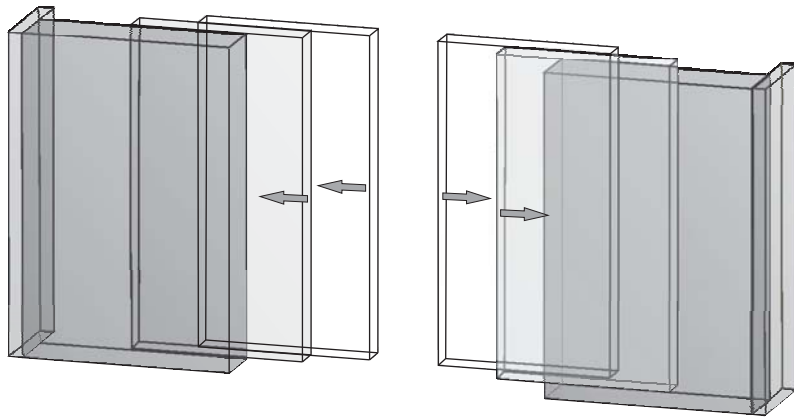
弧型門 Curved Type Door



按裝方式請參考弧型門按裝說明
Installation: Please in accordance with the instruction of Curved Type Door.

四扇走雙向門

Telescopic 4-winged Sliding Doors.

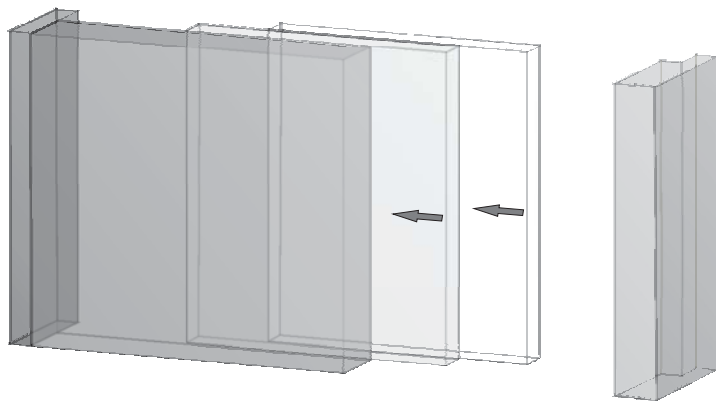


安裝方式請參考四扇走雙向門安裝說明

Installation: Please in accordance with the instruction of Telescopic 4-winged Sliding Doors.

雙扇走單向門

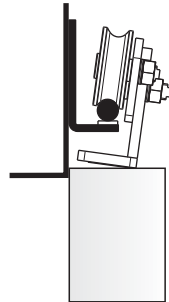
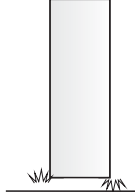
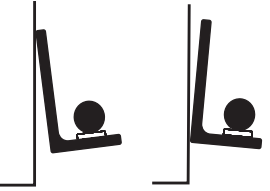
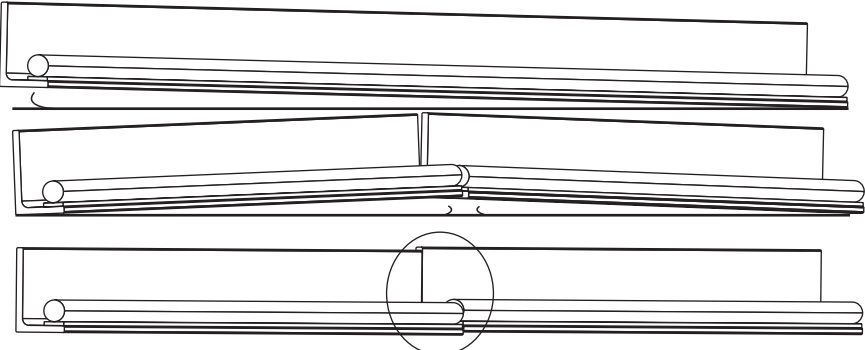
Telescopic 2-winged Sliding Doors.



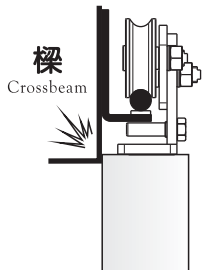

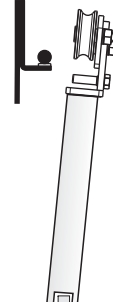
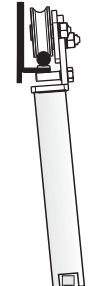

安裝方式請參考雙扇走單向門安裝說明

Installation: Please in accordance with the instruction of Telescopic 2-winged Sliding Doors.

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

<p>原因一 吊輪安裝未垂直 Cause 1 HANGING TWIN-WHEEL is not at vertical position.</p>  <p>處理： 重新調整吊輪</p> <p>How to solve: Readjust the HANGING TWIN-WHEEL.</p>	<p>原因二 門扇與地軌有磨擦或地軌髒污 Cause 2 1. Door touches Ground Rail. 2. Ground Rail is dirty.</p>  <p>處理： 1. 調整門扇高度 2. 清理地軌的髒污</p> <p>How to solve: 1. Readjust the distance between Door and Ground Rail. 2. Clean up the Ground Rail.</p>	<p>原因三 軌道未垂直 Cause 3 ALUMINUM PROFILE is not vertical.</p>  <p>處理： 重新調整軌道的垂直位置</p> <p>How to solve: Readjust the vertical position of the ALUMINUM PROFILE.</p>
<p>原因四 軌道未水平 Cause 4 ALUMINUM PROFILE is not at vertical position.</p>  <p>處理： 重新調整軌道的水平位置</p> <p>How to solve: Readjust the level position of the ALUMINUM PROFILE.</p>		

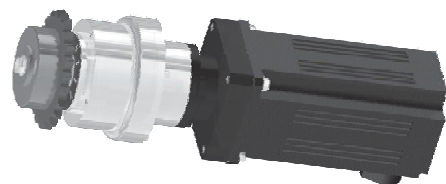
狀況一 門扇無法開啟或關閉 Door can't be opened or closed.

<p>原因一 門扇上方與橫樑接觸</p> <p>Cause 1 Above the Door-Leaf touched with the crossbeam.</p>  <p>樑 Crossbeam</p> <p>處理： 調整門扇與橫樑間隙</p> <p>How to solve: Adjustment the interval between the Door-Leaf height and Crossbeam.</p>	<p>原因二 門扇與地軌接觸</p> <p>Cause 2 The Door-Leaf touched with the Ground Guide Rail.</p>  <p>處理： 調整門扇高度</p> <p>How to solve: Adjust the Door-Leaf height.</p>	<p>原因三 門扇脫軌</p> <p>Cause 3 Door-Leaf derails the ALUMINUM PROFILE.</p>  <p>處理： 重新將門扇置入軌道</p> <p>How to solve: Put the Door-Leaf into the ALUMINUM PROFILE again.</p>
<p>原因四 門扇未垂直</p> <p>Cause 4 Door-leaf is not vertical.</p>  <p>處理： 調整地軌位置</p> <p>How to solve: Adjust the Ground Guide Rail/Wheel position.</p>	<p>原因五 感應器故障或未接線至控制器</p> <p>Cause 5 SENSOR is broken or disconnects to the MICRO-CONTROLLER.</p>  <p>處理：</p> <ol style="list-style-type: none"> 1. 若感應器故障則更換新的感應器 2. 檢查感應器是否連接至控制器 <p>How to solve: 1.If SENSOR is broken please change a new one. 2.Check SENSOR whether it connects to the MICRO-CONTROLLER.</p>	

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微電腦控制器
MICRO-CONTROLLER



直流無刷馬達及行星齒輪組
250W BRUSHLESS DC MOTOR
(PLANETARY GEAR)



電源開關線組
POWER SWITCH



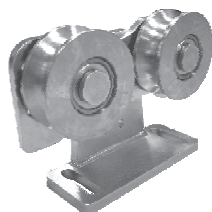
紅外線感應器(選配)
SENSORS (OPTIONAL DEVICE)



日製鏈條
ROLLER CHAIN



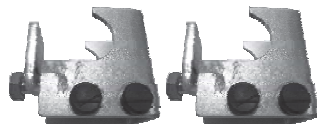
阻輪 4 個
BLOCK SCREW-4 PCS



吊輪組 4 組



尾輪座一組
BELT ROLLER



吊滑輪固定擋片 2 個
STOPER -2PCS (IN PROFILE)



主動板
ACTIVE BRACE

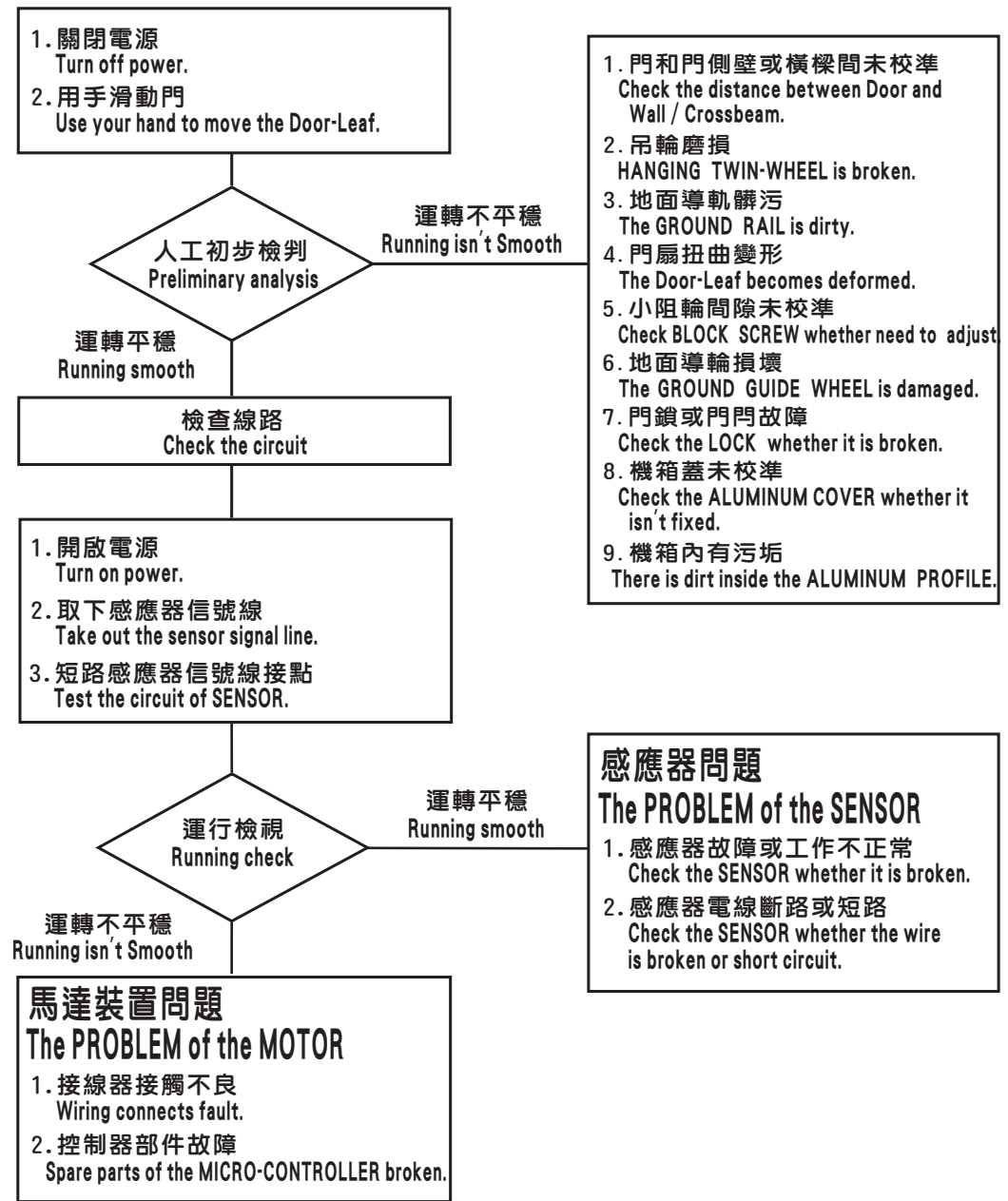
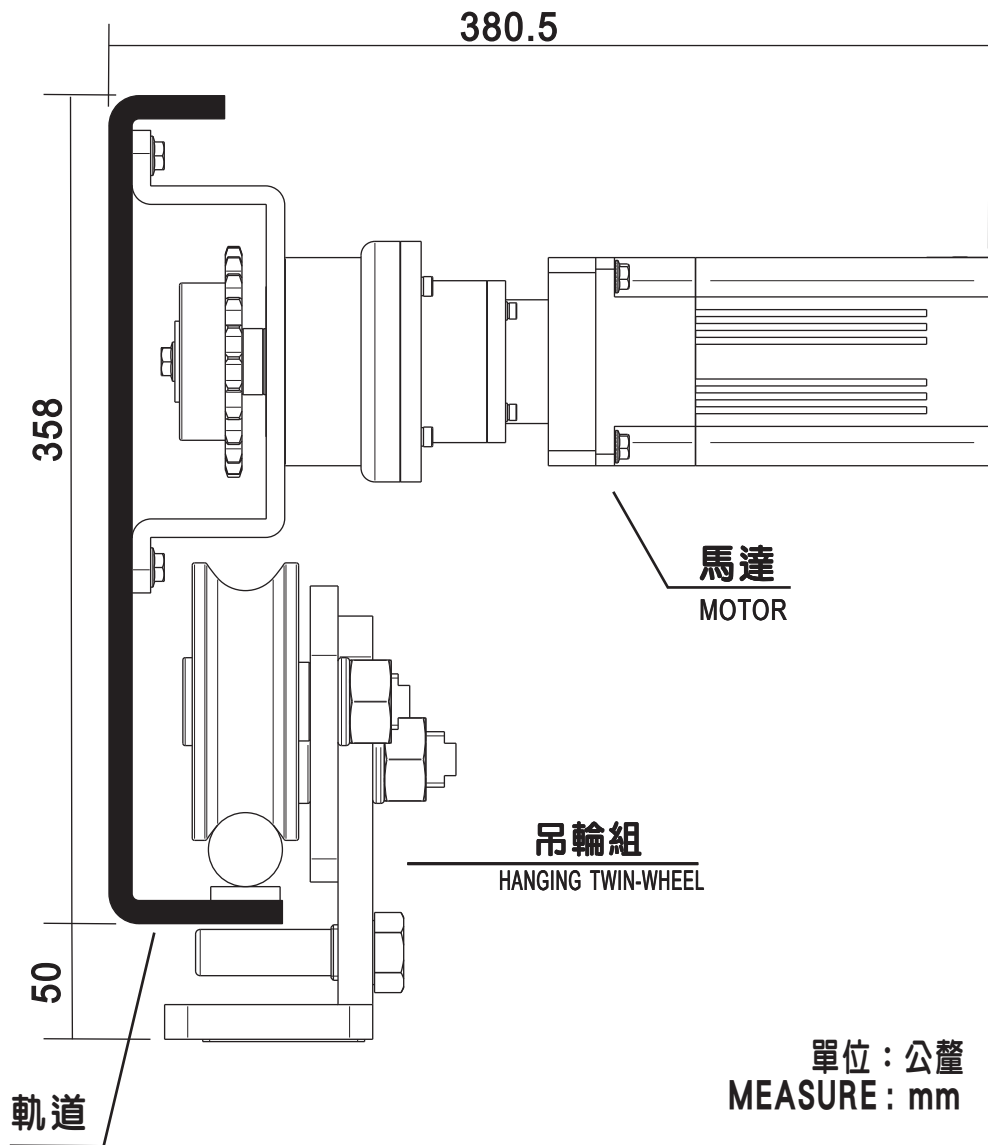


被動板
PASSIVE BRACE

PROBLEMS	REASONABLE	CHECK	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 causes 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.
	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.

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
		檢查門扇底部的鎖門是否鬆動	固定好鎖門
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. 門扇關到一半隨即開啟	感應器誤動作	調整或更換感應器

型號 TYPE	S-30	
種類 MODEL	單向橫開式 SINGLE-WINGED	雙向橫開式 BI-PARTING
門扇重量 DOOR WEIGHT	2000kg X1扇(door)	1500kg X2扇(door)
門扇寬度 DOOR WIDTH	DW=1M~6M	DW=1M~12M
按裝方式 INSTALL WAY	表面按裝 Surface install	表面按裝 Surface install
馬達 MOTOR	DC24V 250W 直流無刷馬達(行星齒輪) DC24V 250W BRUSHLESS DC MOTOR(PLANETARY GEAR)	
控制器 CONTROL	微電腦化處理機控制器 STANDARD MICRO-CONTROLLER	
消耗電量 POWER CONSUMPTION	250W	
電源電壓 VOLTAGE	AC100V~240V皆可(either AC100V~240V)	
環境溫度 ENVIRONMENTAL TEMPERATURE	-20°C~+50°C	
噪音量 VOLUME	最大 60 分貝 60decibel(max.)	
開啟速度 STARTING SPEED	130mm/秒(second)	100mm X 2/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	日製鏈條 40-1R ROLLER CHAIN	
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)	
關電時可手動開門 WHEN POWER IS OFF,CAN USE HAND TO OPEN THE DOOR		



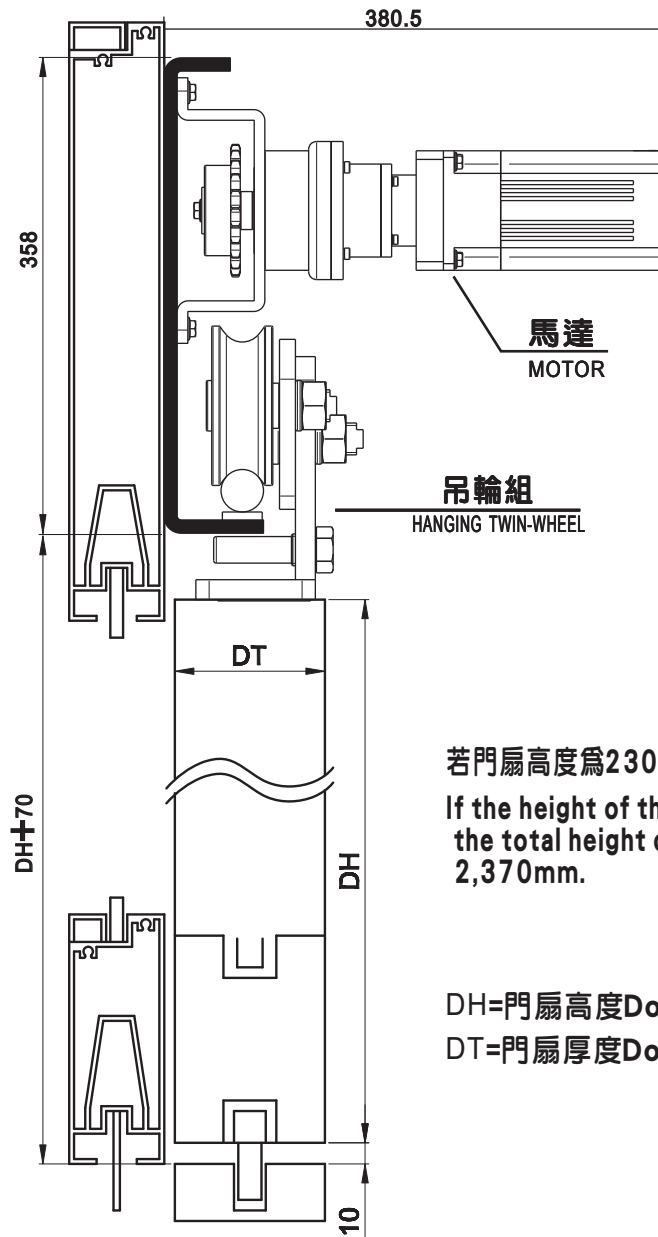
E 關門速度調節旋鈕 The closing speed of the door
 可調整門扇關閉時行進速度，數字越大，速度越快。初始調整時，請將數字由小而大，逐次調整。
Adjust the CLOSED SPEED
 Higher number, faster speed.
CAUTION: please adjust the number one by one from low to high.

F 關門慢速距離調節旋鈕 The slowing range of closing door
 可調整門扇關閉時慢速距離，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 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 慢速速度調節旋鈕 The slowing speed of the door
 當門扇慢速行進時，可調整慢速速度，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 SLOW SPEED
 Higher number, faster speed.
CAUTION: please adjust the number one by one from low to high.

H 開放時間調節旋鈕 Opening hold time
 調整門扇開放時間，數字越大，門扇停留時間越長，在最小(0)秒和最大(20)秒之間調整。
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



單位：公釐
 MEASURE: mm

若門扇高度為2300mm，則立機箱高度為2370mm
 If the height of the Door-Leaf is 2,300mm, then the total height of the ALUMINUM PROFILE is 2,370mm.

DH=門扇高度Door height
 DT=門扇厚度Door thickness

1 準備 機箱高度/水平確認
Prepare Should correct the height and the leveling of the ALUMINUM PROFILE



2 切割/安裝機械箱
Cut and install the ALUMINUM PROFILE



3 各感應器安裝
Install the SENSORS



4 馬達部件
MOTOR



5 控制器部件
MICRO-CONTROLLER

6 尾輪座部件
Install the BELT ROLLER



7 懸掛/調整門扇
Hang and adjust the Door-Leaf



8 鏈條安裝調整
Install and adjust the ROLLER CHAIN



9 電氣連接
Power connect



10 測試及調整
Test and adjust



A 半開位置調節旋鈕 Full/Half opening

全開/半開接點ON時，半開功能隨即動作，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，其煞車力量可自由調整，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。當門扇重量小於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.

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。
 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，門扇關閉位置即予以固定。

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

2. 調整 ADJUST



紅色LED - 電源指示燈，電源開啟後，LED燈亮，指示電源已接通。
 Red LED - Power is connected.

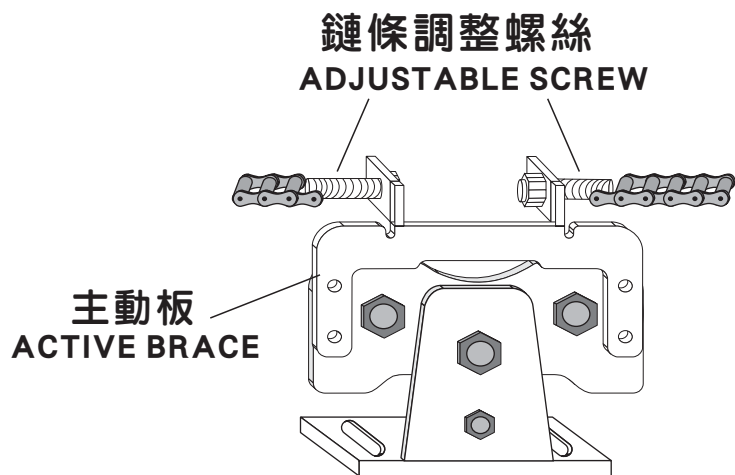
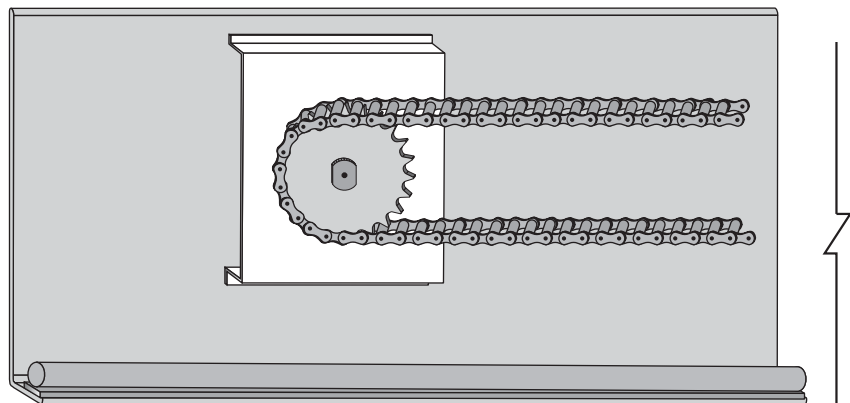
綠色LED - 信號指示燈，當開門信號輸入時，LED燈亮，表示信號輸入。
 Green LED - Input the open door signal.

L/R - 左右開切換開關。

L/R switch - The direction of the door opening: right/lift(R/L).

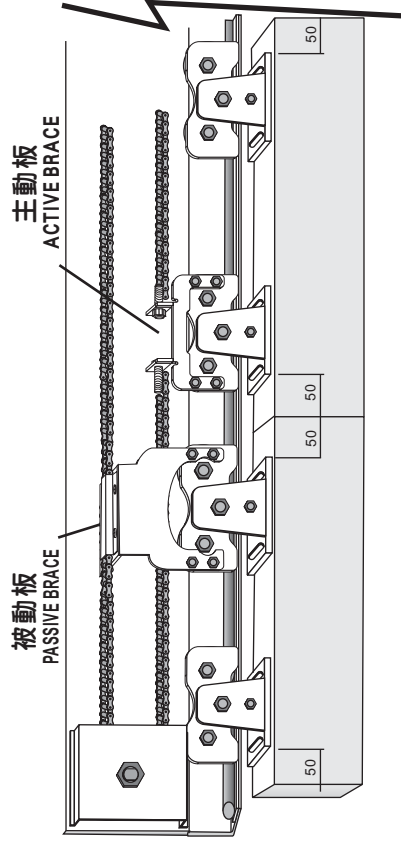
指撥開關 - Pin 1 為 ON時，系統模式為按一下開門，再按一下關門。
 Pin 2 預留。

Fingered Switch - When the pin 1 is ON, push once : open the door. Push again: close the door.
 Pin 2 is standby.



鏈條張力可由鏈條調整螺絲做調整，調整完畢後，須擰緊調整固定座螺絲。

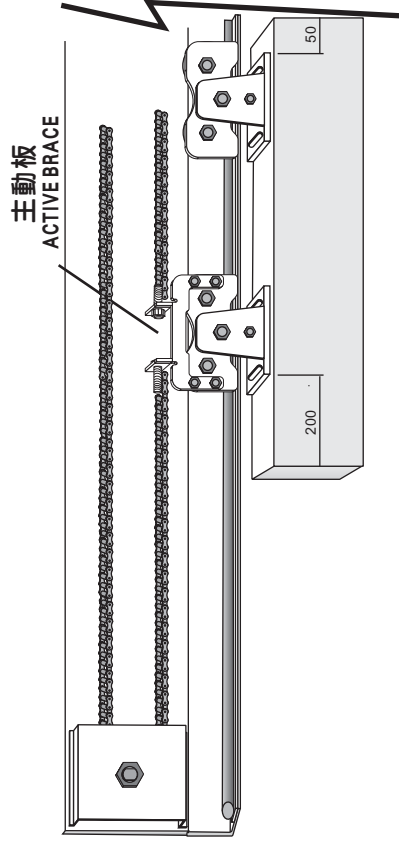
TENSION of ROLLER CHAIN can be adjusted by the ADJUSTABLE SCREW of ROLLER CHAIN, after that, must tighten the FIXED SCREW of BELT.



雙開
Bi-parting

單位：公釐
MEASURE : mm

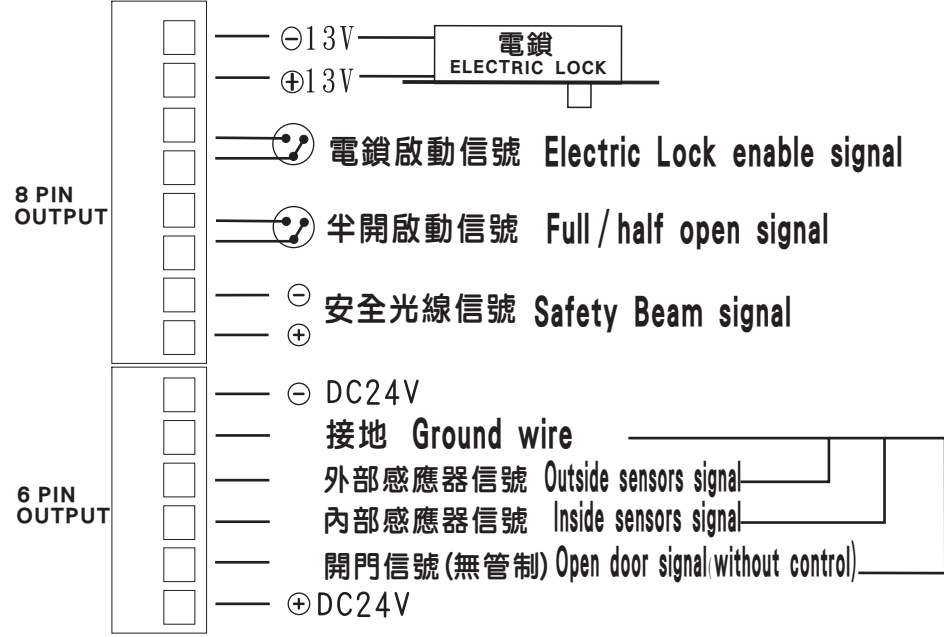
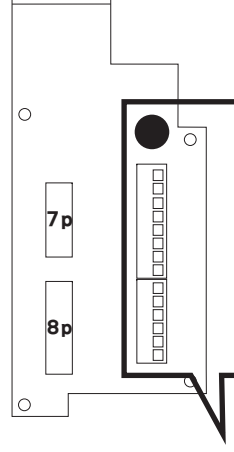
門扇各邊緣與吊滑輪間應保持至少50mm以上，以確保門扇能夠開啟至最大位置。
In order to open to the largest position. Please leave 50mm between the edge of door leaves and hangers



單開
Single-winged

門扇邊緣與左側吊滑輪間應保持至少200mm以上，以確保門扇能夠開啟至最大位置。
In order to open to the largest position. Please leave 200mm between the edge of door leaf and left hanger.

電氣連接 Connection



電氣連接 Connection

連接至遙控器主機
Connect to Remote Control

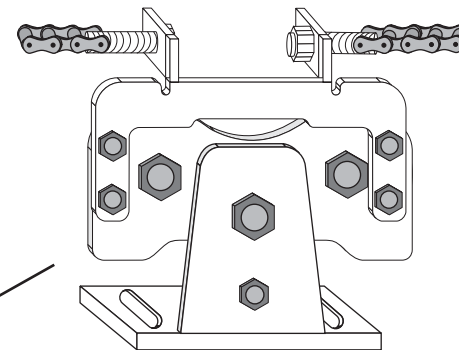
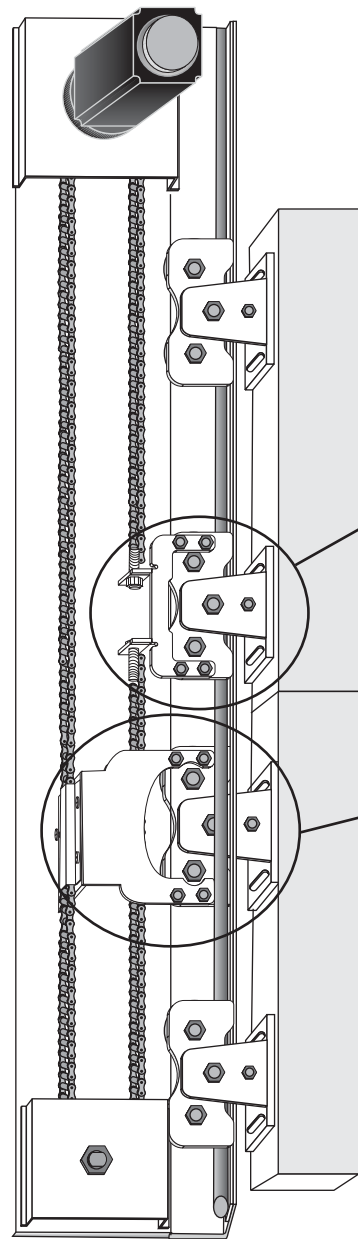
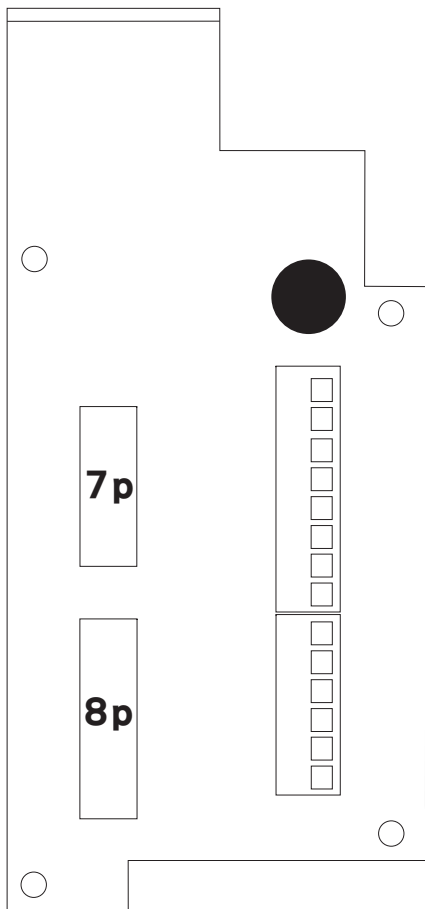


7p

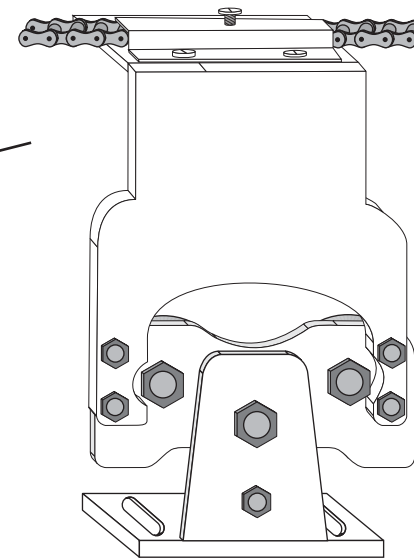
連接至行程選擇開關
Connect to Function Switch



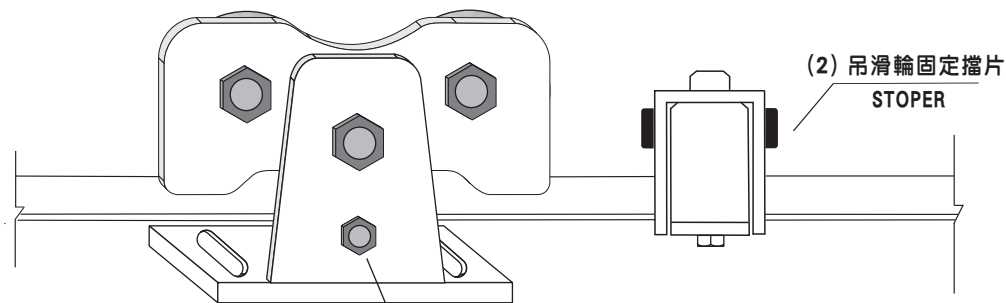
8p



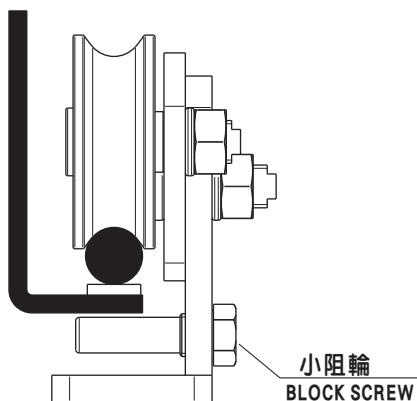
主動板
ACTIVE BRACE



被動板
PASSIVE BRACE

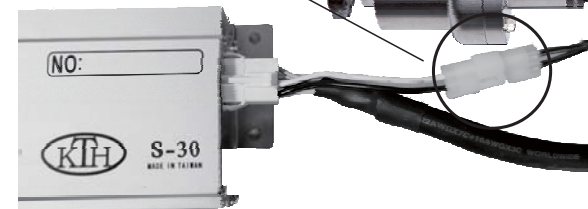


(1) 小阻輪
BLOCK SCREW



- A** 門扇按裝後，鎖上小阻輪，防止門扇脫落。
After install the Door-Leaf, fasten (1) to prevent Door-Leaf from falling off.
- B** 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.

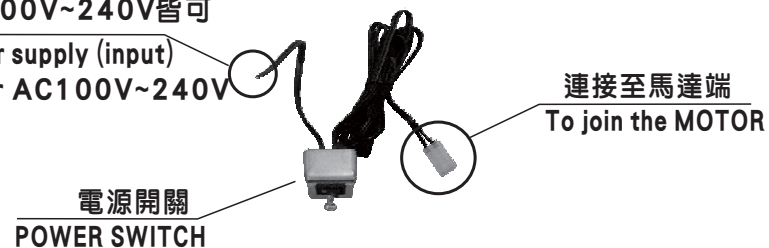
連接至電源開關端
To join the POWER SWITCH



控制器與馬達連接示圖
The ILLUSTRATED of CONTROLLER and MOTOR.

供給電源輸入端
AC100V~240V皆可

Power supply (input)
Either AC100V~240V



警告
Warning

請確認感應器所標示之電壓是否與供給電源相同，若與供給電源電壓不同時，則感應器需另行加裝變壓裝置否則感應器極易燒毀，連接完畢後，請再確認一次。

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.