Automatic Door Systems



K-2S

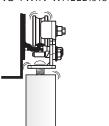
Single-winged / Bi-parting

使用說明 OPERATION INSTRUCTION

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

原因一 `吊輪螺絲鬆動

Cause 1 The SCREW of the HANGING TWIN-WHEEL is loose.

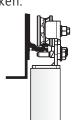


處理: 重新將吊輪螺絲旋緊

How to solve: Refasten the SCREW of HANGING TWIN-WHEEL.

原因二 吊輪損壞

Cause 2 HANGING TWIN-WHEEL is broken.

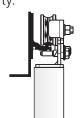


處理: 更換吊輪

How to solve: Replace a new one HANGING TWIN-WHEEL.

原因三 吊輪髒污 Cause 3

HANGING TWIN-WHEEL is dirty.

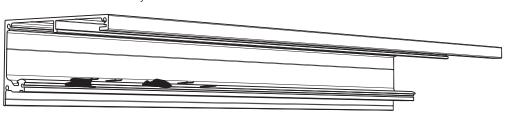


處理: 清潔吊輪

How to solve: Clean the HANGING TWIN-WHEEL.

原因四 軌道髒污

Cause 4 ALUMINUM PROFILE is dirty.



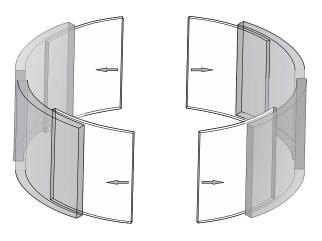
處理:

How to solve: Clean the ALUMINUM PROFILE.

本公司另有以下各類自動門配備,請洽本公司各經銷商

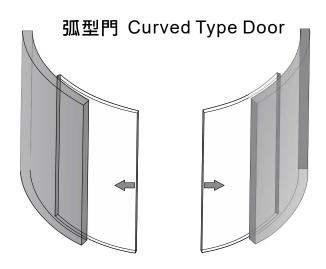
Our company has the following series of automatic door, please contact with our distributors/representations.

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.

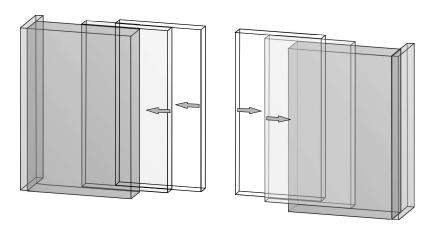


按裝方式請參考弧型門按裝說明

Installation: Please in accordance with the instruction of Curved Type Door.

四扇走雙向門

Telescopic 4-winged Sliding Doors.



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.

雙扇走單向門

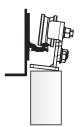
Telescopic 2-winged Sliding Doors.



按裝方式請參考雙扇走單向門按裝說明 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.

原因二 門扇與地軌有磨擦或地軌 髒污 原因一 . 吊輪按裝未垂直 Cause 1 HANGING TWIN-WHEEL is not Cause 2 at vertical position. 1. Door touches Ground Rail. 2. Ground Rail is dirty.



處理: 重新調整吊輪

How to solve: Readjust the HANGING TWIN-WHEEL.



處理: 1.調整門扇高度

2.清理地軌的髒污

How to solve: 1.Readjust the distance between Door

and Ground Rail.

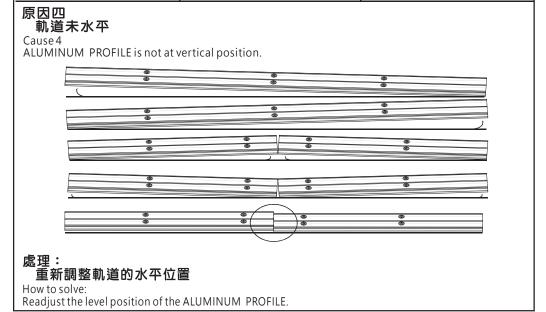
2. Clean up the Ground Rail.



重新調整軌道的垂直位置

How to solve:

Readjust the vertical position of the ALUMINUM PROFILE.



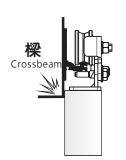


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狀況一 門扇無法開啟或關閉 Door can' the opened or closed.

原因一 門扇上方與橫樑接觸

Cause 1 Above the Door-Leaf touched with the crossbeam.



處理: 調整門扇與橫樑間隙

How to solve: Adjustment the interval between the Door-Leaf height and Crossbeam.

原因二 門扇與地軌接觸

Cause 2 The Door-Leaf touched with the Ground Guide Rail.



處理: 調整門扇高度

How to solve: Adjus the Door-Leaf height.

原因三 門扇脫軌

Cause 3 Door-Leaf derails the ALUMINUM PROFILE.



處理: 重新將門扇置入軌道

How to solve: Put the Door-Leafinto the ALUMINUM PROFILE again.

原因四 門扇未垂直

Cause 4 Door-leaf is not vertical.



處理: 調整地軌位置

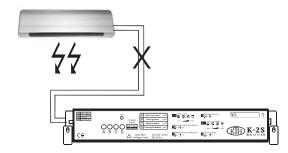
How to solve: Adjust the Ground Guide Rail/Wheel position.

原因五

感應器故障或未接線至控制器

Cause 5

SENSOR is broken or disconnects to the MICRO-CONTROLLER.



處理: 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

How to solve:

1.If SENSOR is broken please change a new one. 2.Check SENSOR whether it connects to the MICRO-CONTROLLER.

1.	套件規格	COMPONENTS SPECIFICATION	. P1
2.	產品規格	TECHNICAL SPECIFICATION	. P2
3.	機械箱剖	面圖 SECTIONAL DRAWING	. P3
4.	機械箱高	支圖 INSTALLATION DRAWING	. P4
5.	按裝流程	圖 INSTALL PROCEDURE	. P5
6.	尾輪座按	装 INSTALL THE BELT ROLLER	. P6
7.	吊滑輪位置	置圖 THE POSITION OF THE HANGING TWIN-WHEEL	. P7
8.	皮帶按裝	INSTALL THE RACK BELT	. P8
9.	門扇調整	ADJUST THE DOOR-LEAF	. P9
10.	電氣連接	CONNECTION	P10
		OUTPUT CONNECT	
		整 TEST AND ADJUST	
		鈕功能說明 ADJUSTMENT	
		流程 BROKEN CHECKING	
15.	故障排除	(繁體)	. P17
16.	TROUBL	ESHOOTING	. P18
17.	故障排除	(圖示)	. P19

集線器(選配) COMBINED

TERMINAL BLOCK

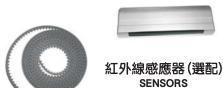
(OPTIONAL DEVICE)

16



(OPTIONAL DEVICE)

微電腦控制器 MICRO-CONTROLLER



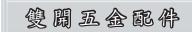
齒型皮帶 RACK BELT



DC **直流蝸桿馬達**BRUSHLESS DC MOTOR



尾輪座一組 BELT ROLLER



(BI-PARTING) HANGERS & IRON PARTS



吊輪組四組 HANGING TWIN-WHEEL4 PCS



主動板含皮帶夾 ACTIVE BRACE with BELT FIXER



被動板含皮帶夾 PASSIVE BRACE with BELT FIXER



門扇吊板 4 個 HANGING BRACE-4 PCS



五金包

吊滑輪固定擋片 2 個 STOPER-2 PCS



地輪 GROUND WHEEL -2PCS



束帶 5 個 CABLE TIE-5 PCS



螺絲 8 個 SCREW-8 PCS



小阻輪 8 個 BLOCK SCREW-8 PCS



門扇固定螺絲 8 個 DOOR SCREW-8 PCS



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.	Dooris locked and no movement action.	Open the DOOR LOCK.		
	3.The sensoris broken.	Signallightis WORKING.	Check the MICRO-CONTROLLER.		
		Signallightis 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.	Reinstallorcleanthe ALUMINUM PROFILE.		
	3.Dooris 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 itis 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.	Checkthe 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.	Adjustthe SENSOR or change a new one.		



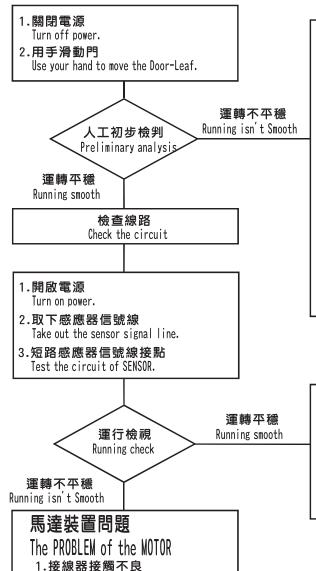
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問題	可能原因	檢查方向	排除操作		
無開門動作	1.無電源	電路斷路	檢查電路斷點		
		電源開關未開	開啟電源開關		
	2.門被鎖住	門鎖鎖住,控制器無動作	開啟門鎖		
	3.感應器故障	感應信號燈有動作	檢查控制器		
		感應信號燈無動作	檢查感應器線路或更 換感應器		
速度太慢	1.速度設置太慢	控制器速度調整	調整開門或關門速度		
	2.門扇遇到阻礙物,變成慢速	軌道施工不良或髒污	重新施工或清理軌道		
	3.門扇滑動阻力 過大	關閉電源 ,用手使門 滑動並檢查地面導軌 是否有髒污	清理地面導軌		
		吊滑輪磨損	更換吊滑輪		
		檢查門扇底部的鎖門 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 隨即開啟	感應器誤動作	調整或更換感應器		

型號 TYPE	K-2S				
種類 MODEL	單向橫開式 SINGLE-WINGED	雙向橫開式 BI-PARTING			
門扇重量 DOOR WEIGHT	120kg X1扇(door)	100kg X2扇(door)			
門扇寬度 DOOR WIDTH	DW=500mm~2500mm	DW=500mm~2500mm			
按裝方式 INSTALL WAY	表面按裝 Surface install	表面按裝 Surface install			
馬達 MOTOR	DC24V 75W WORM GEAR MOTOR 直流無刷渦桿馬達				
控制器 CONTROL	微電腦化處理機控制器 MICRO-CONTROLLER				
消耗電量 POWER CONSUMPTION	75W				
電源電壓 VOLTAGE	AC100V~240V 皆可 (either AC100V~240V)				
環境溫度 ENVIRONMENTAL TEMPERATURE	- 20℃~+50℃				
噪音量 VOLUME	最大 60 分貝 60decibel(max.)				
開啟速度 STARTING SPEED	200~550mm/ 秒 (second)				
開啟時間 STARTING TIMES	可調 0 秒至 64 秒 0~64 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)				
手推開啟力量 TRACTION FORCE	3 kg				

200

單位:公釐 MEASURE mm:



Wiring connects fault. 2.控制器部件故障

Spare parts of the MICRO-CONTROLLER broken.

1.門和門側壁或橫樑間未校準 Check the distance between Door and Wall / Crossbeam.

2.吊輪磨損

HANGING TWIN-WHEEL is broken.

3.地面導軌髒污

The GROUND RAIL is dirty.

4.門扇扭曲變形

The Door-Leaf becomes deformed.

5.小阻輪間隙未校準

Check BLOCK SCREW whether need to adjust.

6.地面導輪損壞

The GROUND GUIDE WHEEL is damaged.

7.門鎖或門門故障

Check the LOCK whether it is broken.

8.機箱蓋未校準

Check the ALUMINUM COVER whether it isn't fixed.

9.機箱內有污垢

There is dirt inside the ALUMINUM PROFILE.

感應器問題

The PROBLEM of the SENSOR

1.感應器故障或工作不正常

Check the SENSOR whether it is broken.

2. 感應器電線斷路或短路

Check the SENSOR whether the wire is broken or short circuit.



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(64)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	32	64



指撥開關 Fingered Switch



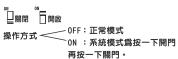
□開門慢速距離設定

。"_ □開門慢速距離爲短 □開門慢速距離爲長

□ 關門慢速距離設定

□ 關門慢速距離爲短 □ 關門慢速距離爲長

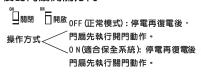
□ 定向開關

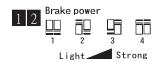


□ 半開門扇距離設定



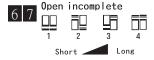
□ 反向開關:為了控制停電再復電 ⁸ 後的門扇開關方向。

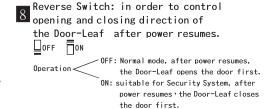


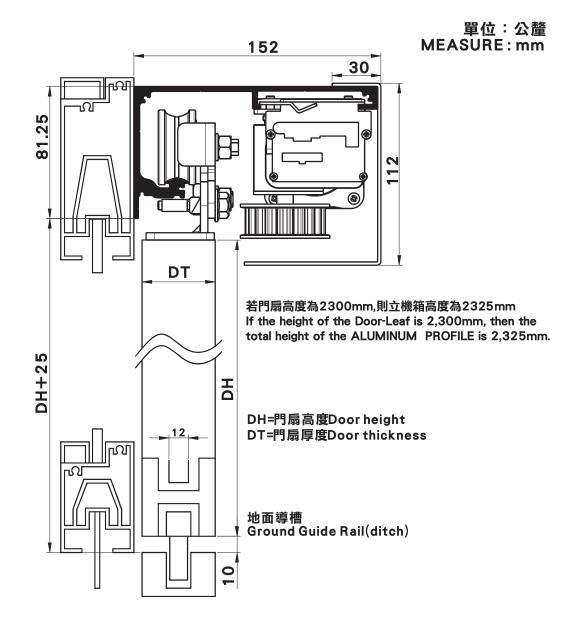


- Slowing range of opening door Short Long
- Slowing range of closing door









3

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

切割/按裝機械箱 Cut and install the ALUMINUM PROFILE

各感應器按裝 Install the SENSORS

馬達部件 MOTOR

控制器部件 MICRO-CONTROLLER

尾輪座部件 Install the BELT ROLLER

懸掛/調整門扇 Hang and adjust the Door-Leaf

皮帶按裝調整 Install and adjust the BELT

電氣連接 Power connect

測試及調整 Test and adjust 若使用者調整改變自動門的速度、距離與煞車力時,本控制器會自動調校, 經由三次以上行程後,達至使用者所調整之目標。

When USER regulates the Speed the Range and the Brake; it will start to accord what USER sets after twice running.

當門機自行運轉達十次以上時,本控制器將會自動記憶行程距離,下次重新 開啟電源時,在第一次慢速行程後,門扇將直接達至使用者所調整之目標。

When door works over 10 times, the controller will record the distance. If turn on the power again, the door will start detecting in slow speed and reach the correct distance.

A 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.

B 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 CLOSE D SPEED. Higher number, faster speed. CAUTION: please adjust the number one by one from low to high.

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.

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。

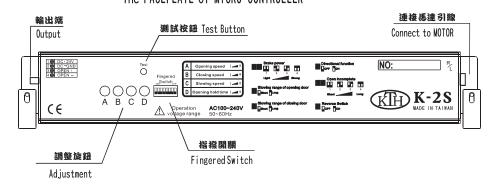
Before turn on the power, make sure the Door-Leaf can be smoothly moved, and the electric link is correct at first.

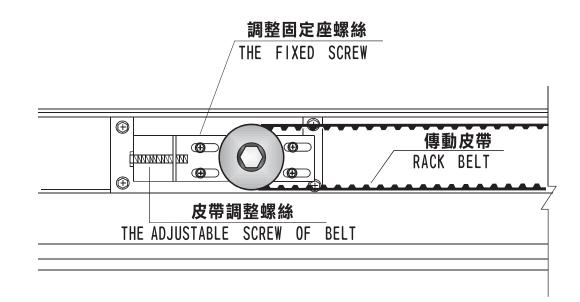
1.系統行程記憶 SYSTEM PROGRAM REMEMBER

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,門扇開閉位置即予以固定。 After turn on the power, the MICRO-CONTROLLER will remember the distance and the range.

2.調整 ADJUST

控制器面板圖 The FACEPLATE of MICRO-CONTROLLER





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.

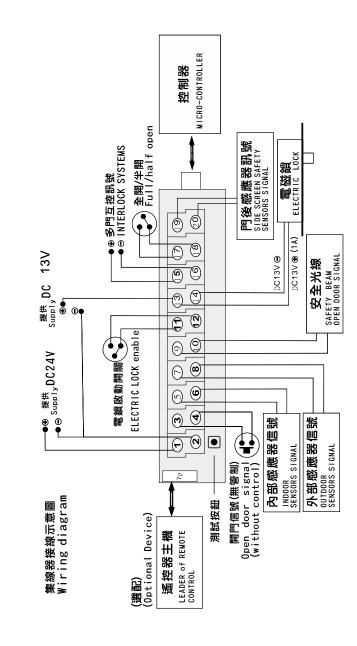
K-2S

側吊滑輪座按裝時須與門扇邊緣距離約50mm,

以確保門愿安裝之安全性

POSITION OF HANGING TWIN-WHEEL

Two sides of Door-deaf keeps the distance of 50mm to make sure the safety of installation



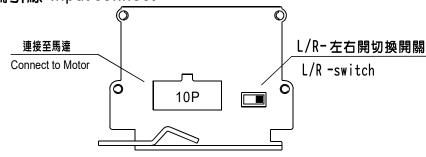
(A)11號與12號端子短路時,電鎖功能隨之啟動且當門屬關閉後, 13 號與 14號端子輸出 DC13V 供電磁鎖使用。若是 11號與12號 端子沒有短路,則13號與 14號端子不會輸出 DC13V。 The FUNCTION of the ELECTRIC LOCK will work when ① and @ are short circuit , then ⑩ and ⑭ will output DC13V for ELECTRIC LOCK after the door closes. ⑩ a nd ⑭ will not output DC13V if ⑪ and ⑫ are not short circuit. (B)9號與10號端子做為安全光線信號控制;當門扇開啟或運行當中,9號與10號端子保持在接受信號狀態中,當門扇關閉後則9號與 10號端子變成不接受信號,安全光線隨即關閉,保持門禁。

The SIGNAL of the SAFETY BEAM is controlled by ⑤and ⑩. When door is opening and running, ⑨ and ⑩keep to accept the signal, then the SAFETY BEAM will be working. ⑨ and ⑩ will not work when the door is closed, then the SAFETY BEAM will lose efficacy when the door is closed.

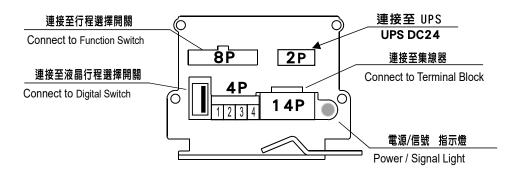
(C) 門後感應器是為避免門在開啟時後方有物體或行人進入而發生碰撞其接點訊號接於 ⑤,⑥二點,當訊號觸發時移劃中的門扇會即刻變慢速行進,到門完全開啟再以正常速度關閉。 到變慢速行進,到門完全開啟再以正常速度關閉。 The signal of Side Screen Safety Sensor is controlled by ⑥ and ⑥. Side Screen Safety Sensors are placed at the rear end of the door to prevent collisions during the opening movement of the moving leaves. When the signal activates, the moving leaves will become slowly, till the door opens fully, then close normally.

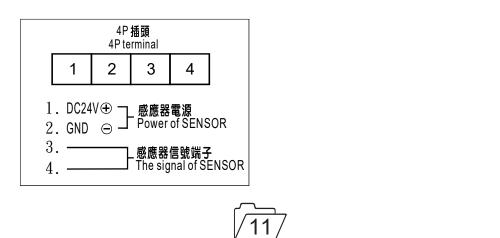
S S

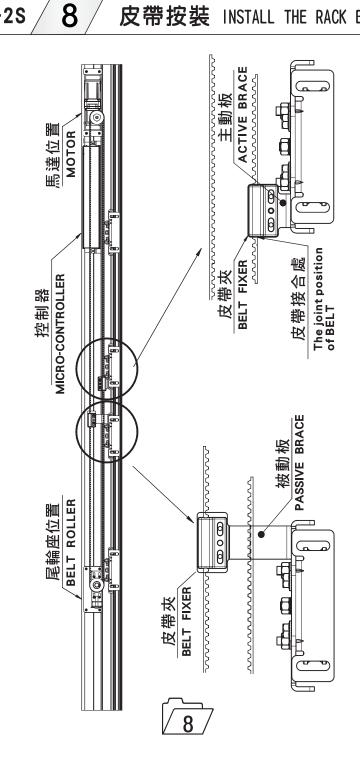
(III) K-2S



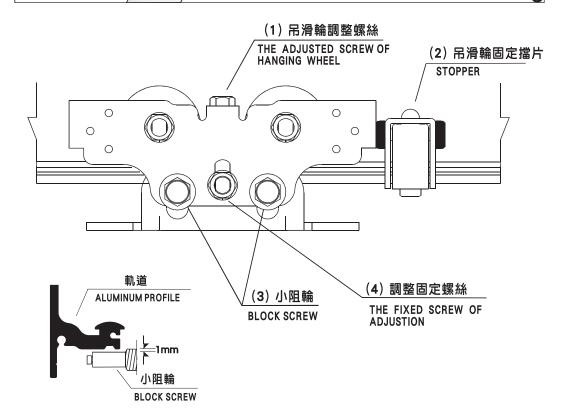
輸出端引線 Output connect



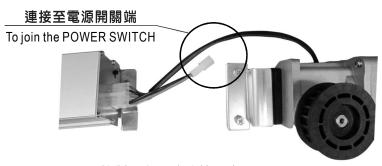




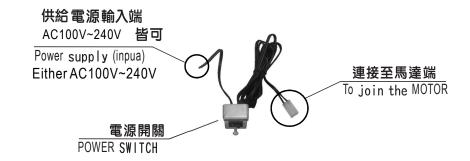
2



- 當門扇的高度與間隙需調整時,首先鬆開小阻輪與調整固定螺絲,旋轉吊滑輪調整螺絲。 When Door-Leaf height and interval need to adjust, loose (3) & (4) at first, then adjust (1).
- 調整完畢後,必須擰緊小阻輪與調整固定螺絲。 Need to fasten (3) & (4) 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.



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





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.