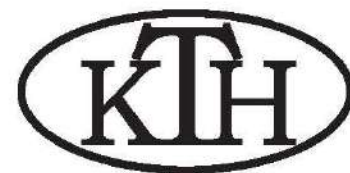


Automatic Door Systems



K-2S

Single-winged / Bi-parting

使用説明

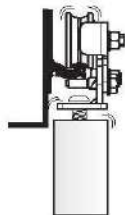
OPERATION INSTRUCTION

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

Cause1
The SCREW of the
HANGING TWIN-WHEEL is loose.



處理：

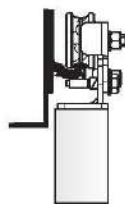
重新將吊輪螺絲旋緊

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

原因二

吊輪損壞

Cause2
HANGING TWIN-WHEEL
is broken.



處理：

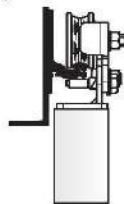
更換吊輪

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

原因三

吊輪髒污

Cause3
HANGING TWIN-WHEEL
is dirty.



處理：

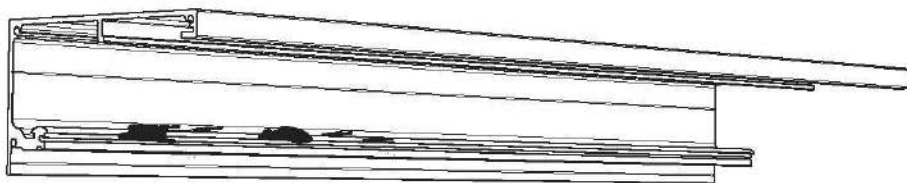
清潔吊輪

How to solve:
Clean the
HANGING TWIN-WHEEL.

原因四

軌道髒污

Cause4
ALUMINUM PROFILE is dirty.



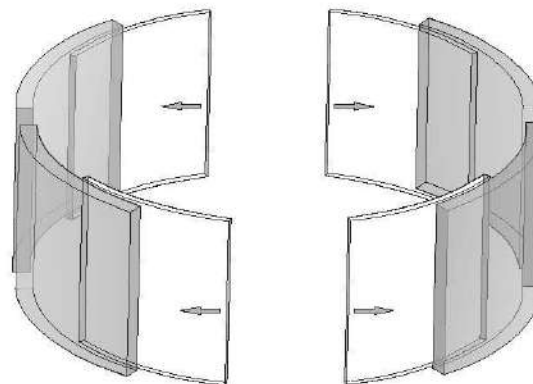
處理：

清潔軌道

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.

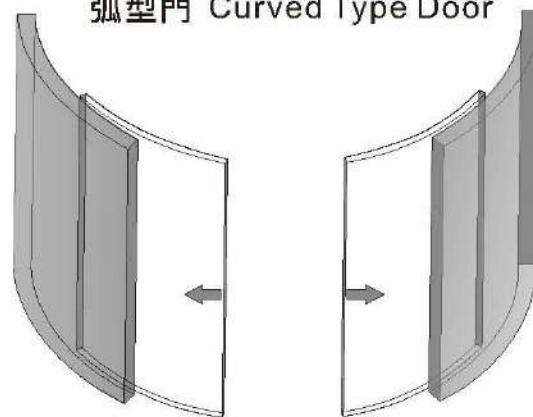
圓型門 Round type door



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.

弧型門 Curved Type Door

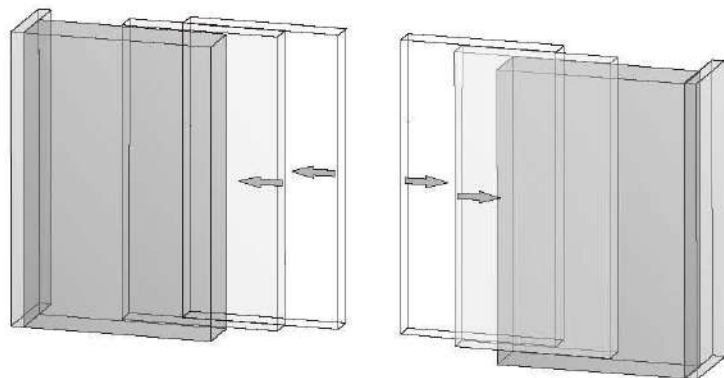


按裝方式請參考弧型門按裝說明

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

四扇走雙向門

Telescopic 4-winged Sliding Doors.

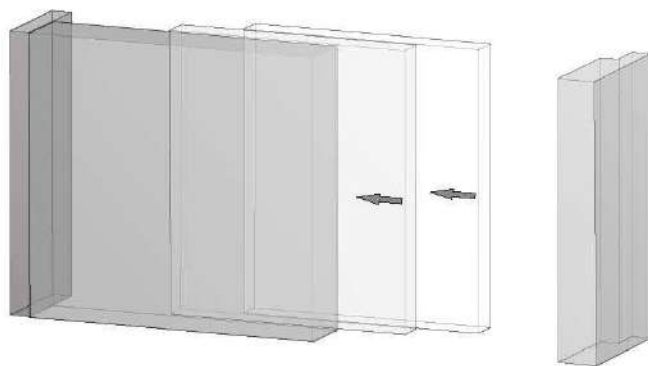


按裝方式請參考四扇走雙向門按裝說明

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

雙扇走單向門

Telescopic 2-winged Sliding Doors.



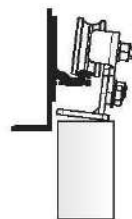
按裝方式請參考雙扇走單向門按裝說明

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.

原因一

吊輪按裝未垂直

Cause 1
HANGING TWIN-WHEEL is not at vertical position.處理：
重新調整吊輪How to solve:
Readjust the
HANGING TWIN-WHEEL.

原因二

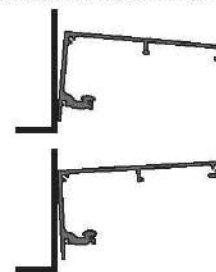
門扇與地軌有磨擦或地軌
髒污Cause 2
1. Door touches Ground Rail.
2. Ground Rail is dirty.

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.

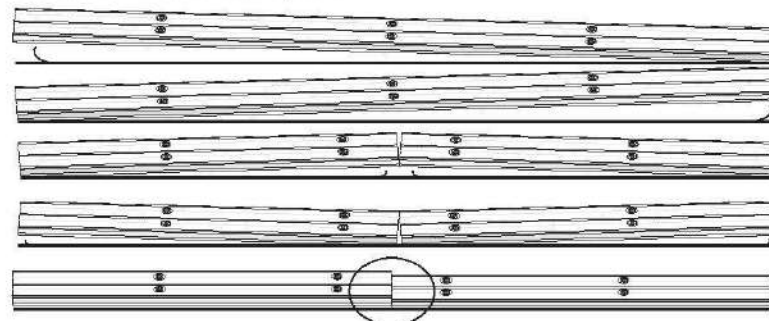
原因三

軌道未垂直

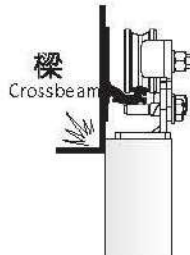
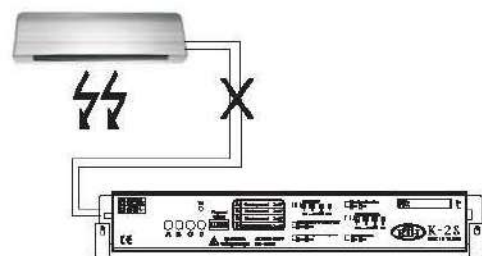
Cause 3
ALUMINUM PROFILE is not vertical.處理：
重新調整軌道的垂直位置How to solve:
Readjust the vertical position of the
ALUMINUM PROFILE.

原因四

軌道未水平

Cause 4
ALUMINUM PROFILE is not at vertical position.處理：
重新調整軌道的水平位置How to solve:
Readjust the level position of the ALUMINUM PROFILE.

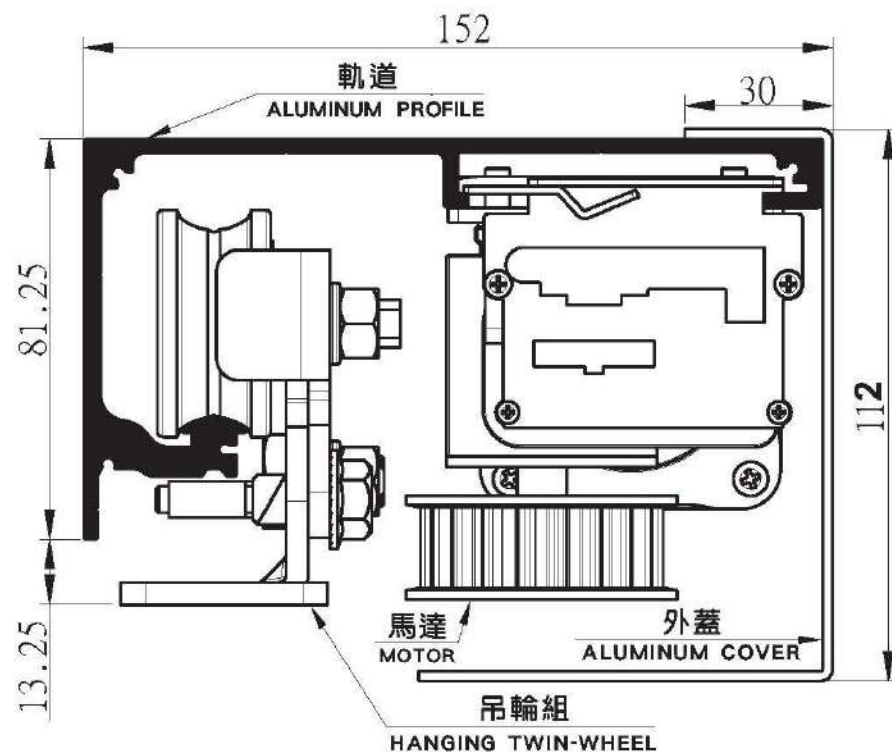
狀況一 門扇無法開啟或關閉 Door can't be opened or closed.

原因一 門扇上方與橫樑接觸 Cause1 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: Adjust the Door-Leaf height.	原因三 門扇脫軌 Cause3 Door-Leaf derails the ALUMINUM PROFILE.  處理： 重新將門扇置入軌道 How to solve: Put the Door-Leaf into the ALUMINUM PROFILE again.
原因四 門扇未垂直 Cause4 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.	

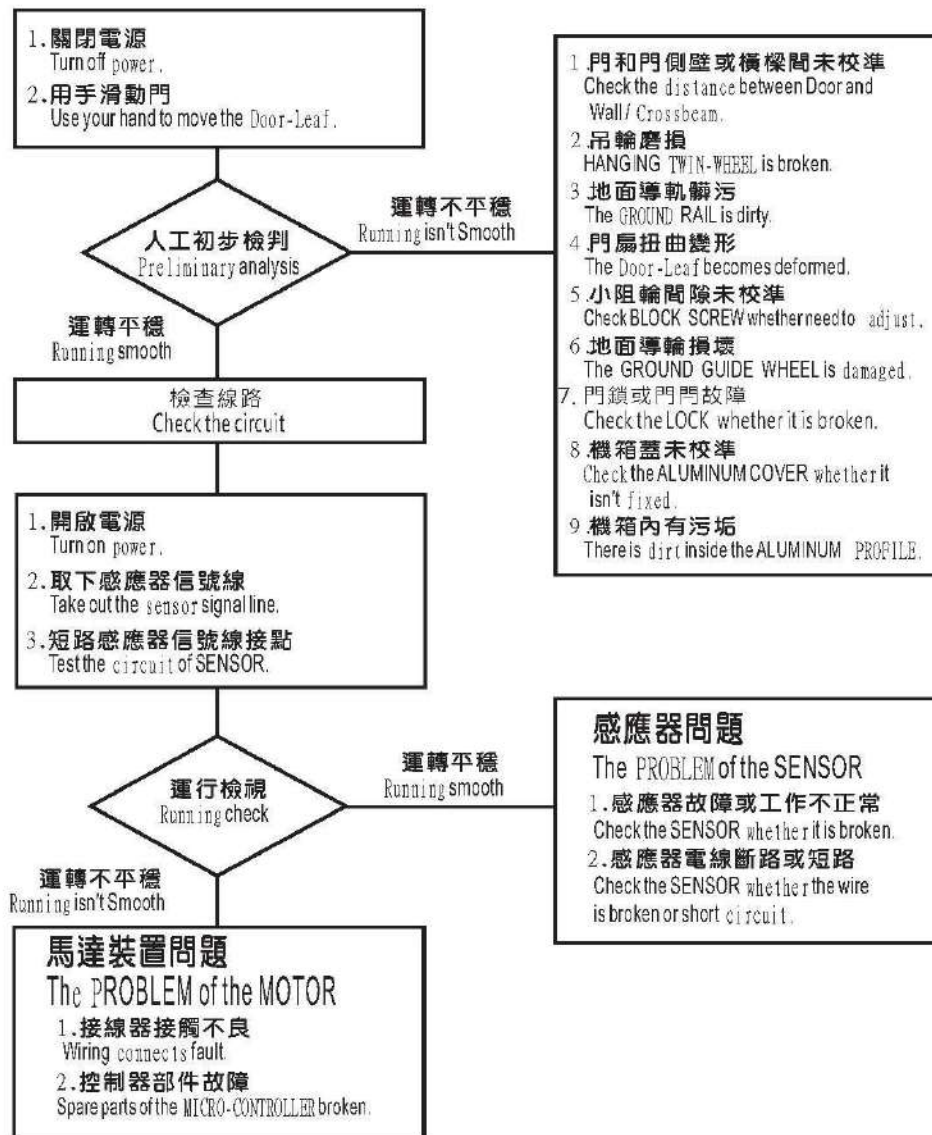
1. 套件規格	COMPONENTS SPECIFICATION	P1
2. 產品規格	TECHNICAL SPECIFICATION	P2
3. 機械箱剖面圖	SECTIONAL DRAWING	P3
4. 機械箱高度圖	INSTALLATION DRAWING	P4
5. 按裝流程圖	INSTALL PROCEDURE	P5
6. 尾輪座按裝	INSTALL THE BELT ROLLER	P6
7. 吊滑輪位置圖	THE POSITION OF THE HANGING TWIN-WHEEL	P7
8. 皮帶按裝	INSTALL THE RACK BELT	P8
9. 門扇調整	ADJUST THE DOOR-LEAF	P9
10. 電氣連接	CONNECTION	P10
11. 信號連接	OUTPUT CONNECT	P11
12. 測試及調整	TEST AND ADJUST	P13
13. 各調節旋鈕功能說明	ADJUSTMENT	P14
14. 故障檢查流程	BROKEN CHECKING	P16
15. 故障排除(繁體)		P17
16. TROUBLESHOOTING		P18
17. 故障排除(圖示)		P19

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
		感應器故障	檢查控制器
速度太慢	3.感應器故障	感應信號燈有動作	檢查感應器線路或更換感應器
		感應信號燈無動作	檢查感應器線路或更換感應器
	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	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°C~+50°C	
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 0~64sec. (regulable)	
傳動要件 TRANSMISSION IMPORTANT CONDITION	齒形皮帶 S8M RACK BELT	
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	



單位:公釐
MEASURE mm:



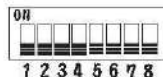


D 開放時間調節旋鈕 Opening hold time

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	32	64

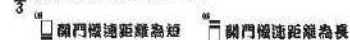


指撥開關 Fingered Switch

1 2 煞車力量設定



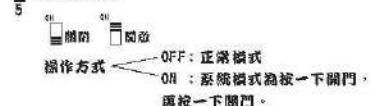
3 開門慢速距離設定



4 關門慢速距離設定



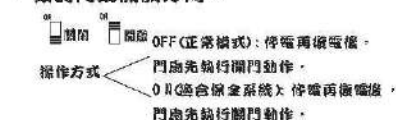
5 定向開關



6 7 半開門扇距離設定



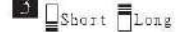
8 反向開關:為了控制停電再復電後 的門扇開關方向。



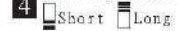
1 2 Brake power



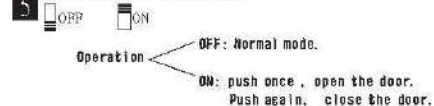
3 Slowing range of opening door



4 Slowing range of closing door



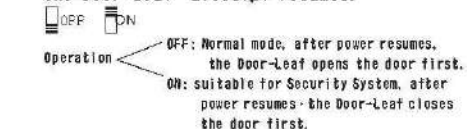
5 Directional function



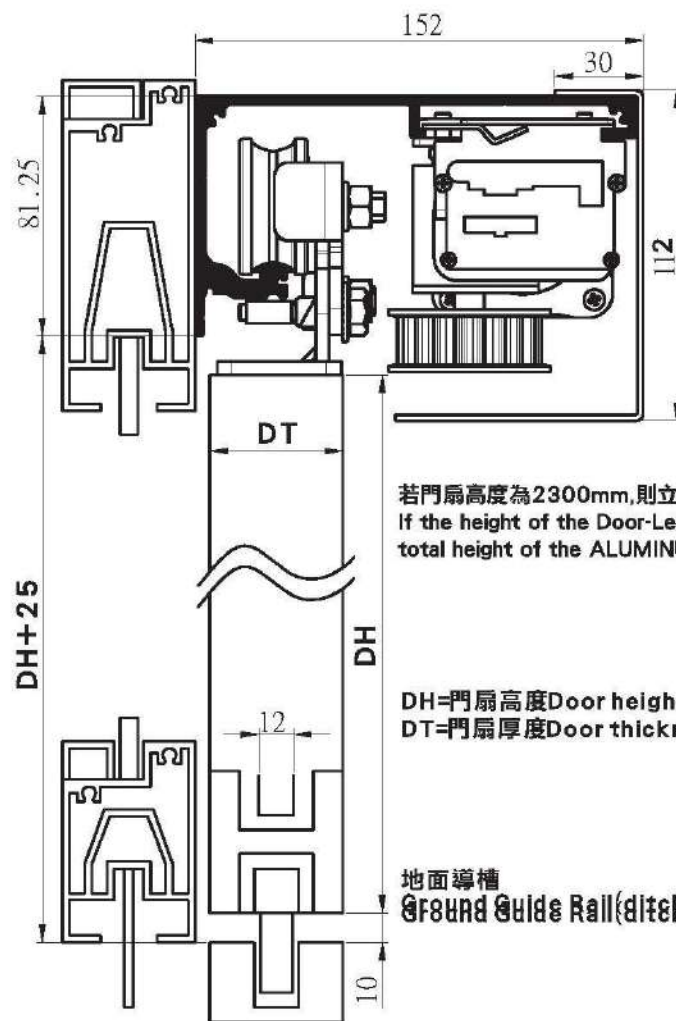
6 7 Open incomplete



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



單位：公釐
MEASURE: mm



若門扇高度為2300mm,則立機箱高度為2325mm
If the height of the Door-Leaf is 2,300mm, then the
total height of the ALUMINUM PROFILE is 2,325mm.

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

地面導槽
Ground Guide Rail (ditch)



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 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



C 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.

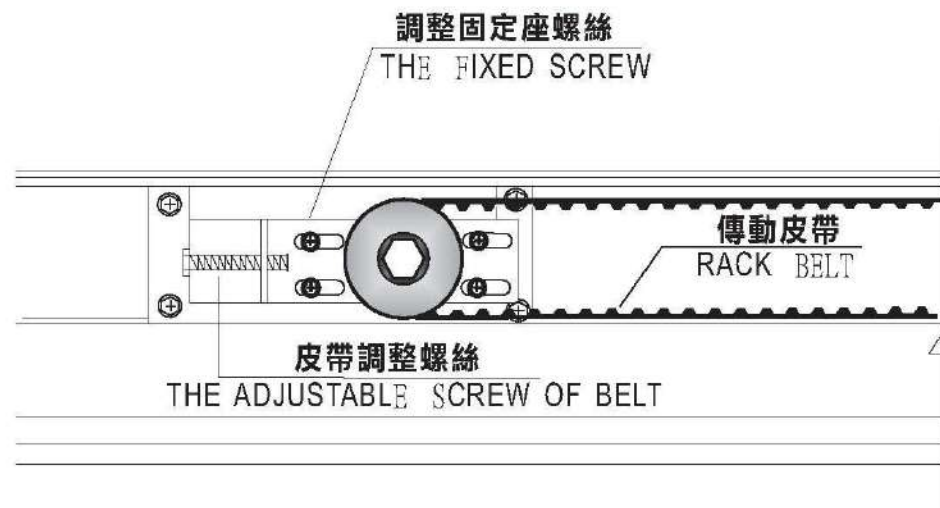
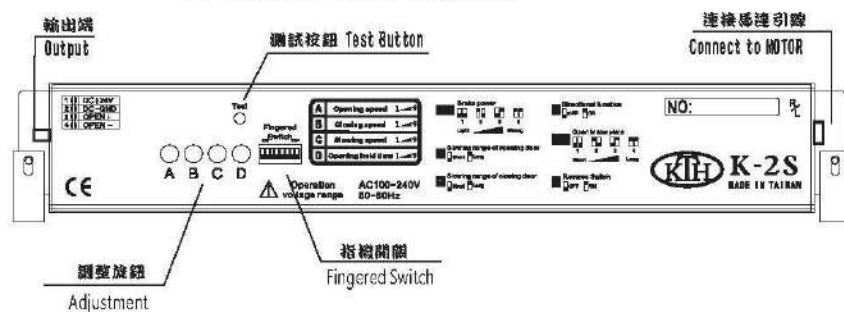
1. 系統行程記憶 SYSTEM PROGRAM REMEMBER

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.

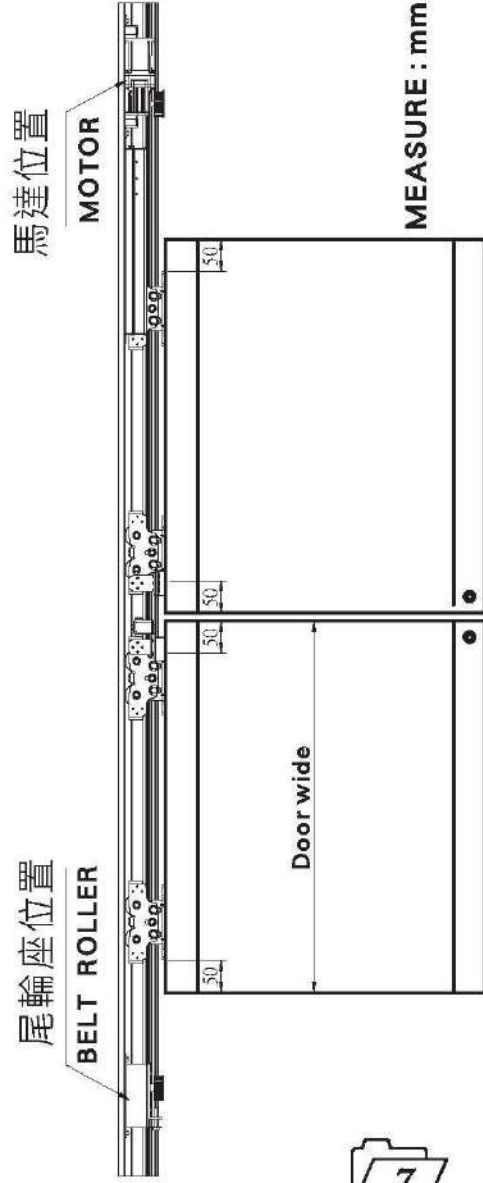
2 調整 ADJUST

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。

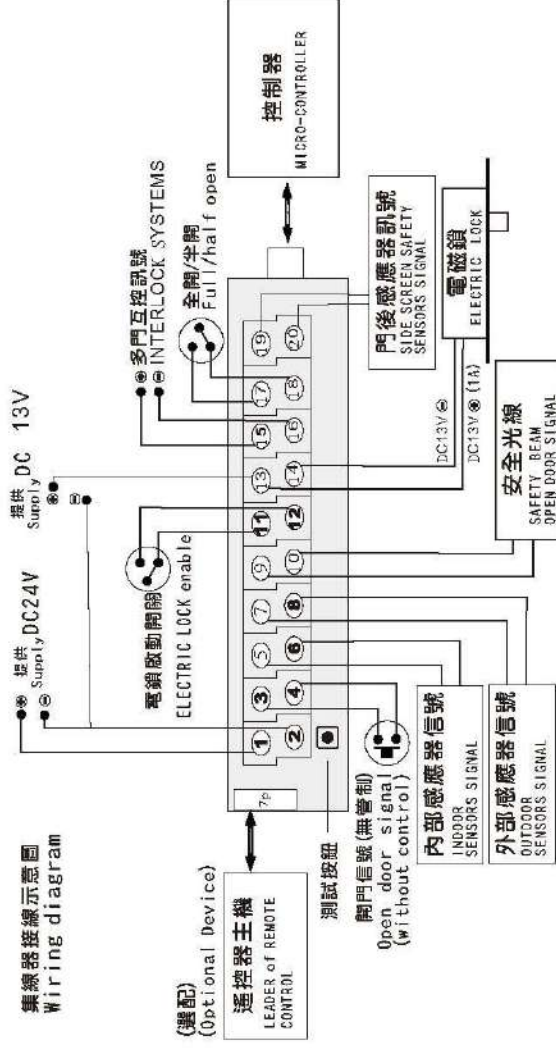
TENSION of BELT can be adjusted by the ADJUSTABLE SCREW of BELT, after that, must tighten the FIXED SCREW of BELT.



二側吊滑輪座按裝時須與門扇邊緣距離約50mm，以確保門扇安裝之安全性。

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號端子短接時，電鎖功時之啟動且當門扇關閉後，13號與14號端子輸出DC13V供電鎖使用。若是11號與12號端子沒有短接，則13號與14號端子不會輸出DC13V。

The FUNCTION of the ELECTRIC LOCK will work when ⑪ and ⑫ are short circuit, then ⑬ and ⑭ will output DC13V for the ELECTRIC LOCK after the door closes. ⑬ and 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；當門扇關閉或運行途中，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號端子變成不接收信號，安全光線即關閉，保持門鎖。

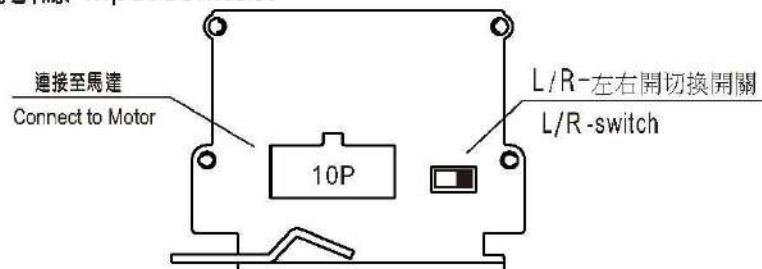
The SIGNAL of the SAFETY BEAM is controlled by ⑨ and ⑩. When door is opening and running, ⑨ and ⑩ keep to accept the signal, then the SAFETY BEAM will be working. ⑨ and ⑩ will not work when the door is closed, then the SAFETY BEAM will lose efficacy when the door is closed.

(C) 門後感應器是將避免門在開啟時候有物體或行人進入而產生碰撞其接點訊號發放，⑮、⑯二點，實則感應器移動中的門扇會即感應進行發，到門完全關閉處則以正常速度關閉。

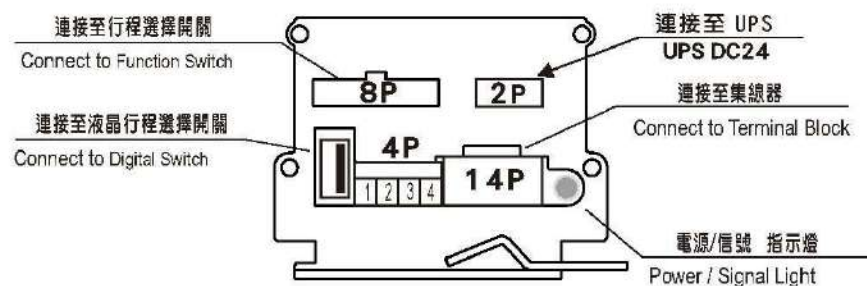
The signal of Side Screen Safety Sensor is controlled by ⑮ and ⑯. Side Screen Safety Sensors are placed at the rear end of the door to prevent collisions during the opening movement of the moving leaves. When the signal activates, the moving leaves will become slowly, till the door opens fully, then close normally.

微電腦控制器 MICRO-CONTROLLER

輸入端引線 Input connect

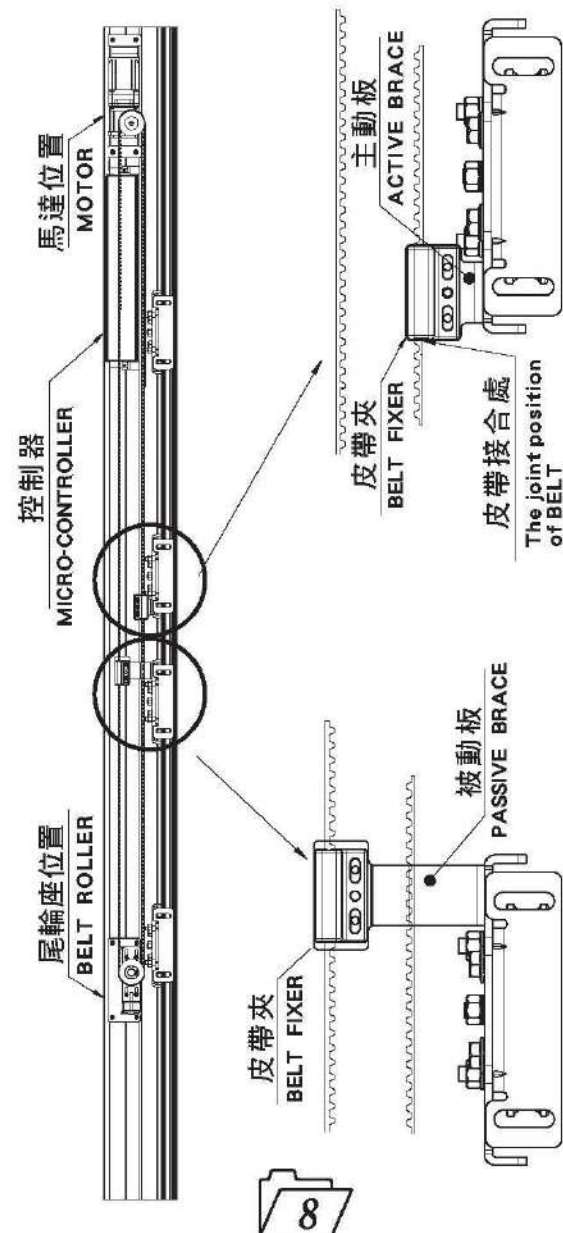


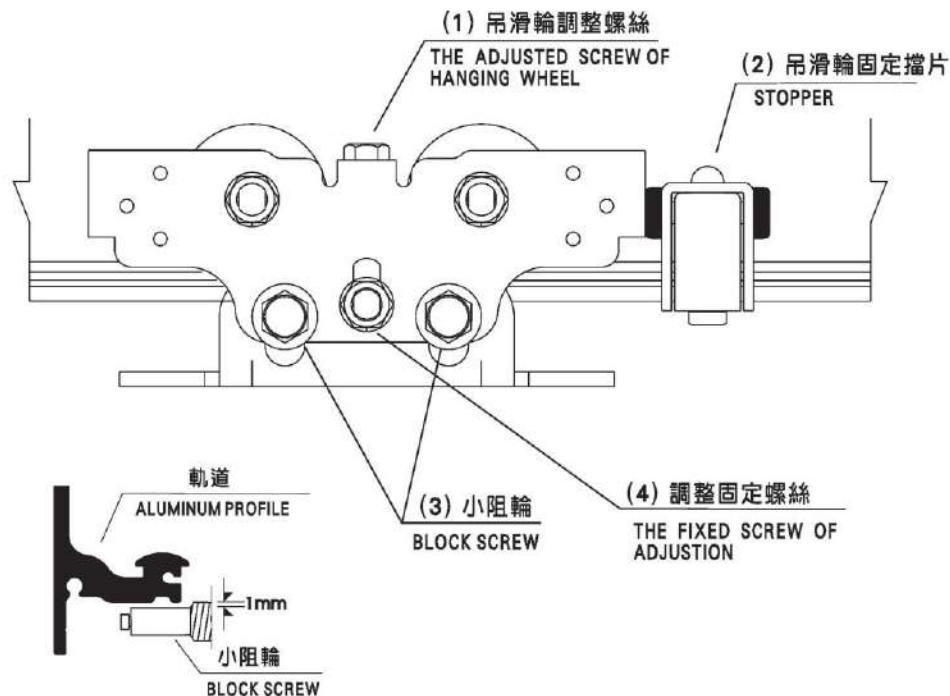
輸出端引線 Output connect

4P 插頭
4P terminal

1	2	3	4
---	---	---	---

1. DC24V⊕ } 感應器電源
Power of SENSOR
2. GND ⊖ }
3. _____ } 感應器信號端子
The signal of SENSOR
4. _____ }





- A** 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).
- B** 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 **A**.
- C** 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意圖
The ILLUSTRATED of CONTROLLER and MOTOR.

供給電源輸入端
AC100V~240V 皆可
Powersupply (input)
Either AC100V~240V



連接至馬達端
To join the MOTOR

電源開關
POWER SWITCH



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.