

Automatic Door Systems



S-80

HEAVY-DUTY DOOR

使用説明

OPERATION INSTRUCTION

狀況三
門扇運行有雜音

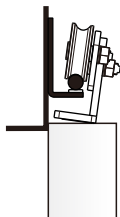
The Door-Leaf sends out abnormal noise in operating.

原因一 吊輪螺絲鬆動 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： 清潔軌道 How to solve: Clean the ALUMINUM PROFILE.		

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

原因一
吊輪安裝未垂直

Cause 1
HANGING TWIN-WHEEL is not at vertical position.

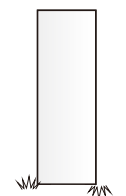


處理：
重新調整吊輪

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.



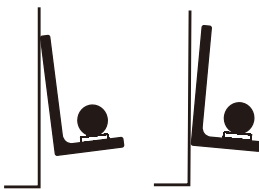
處理：

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.



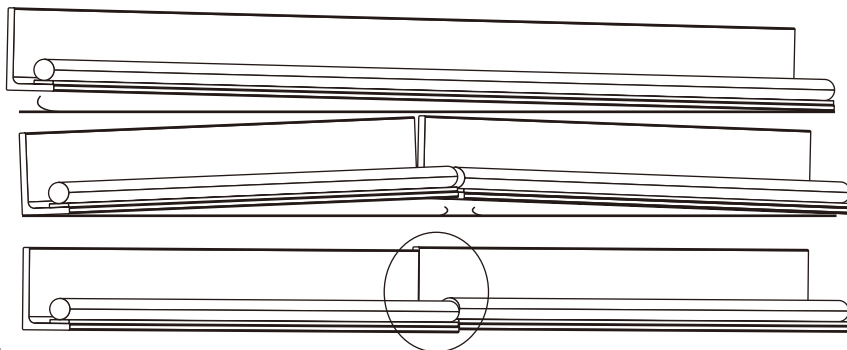
處理：

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.

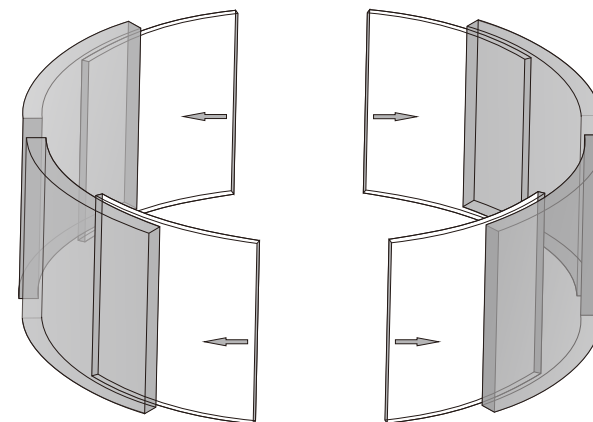


處理：
重新調整軌道的水平位置

How to solve:
Readjust the level position of the ALUMINUM PROFILE.

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.

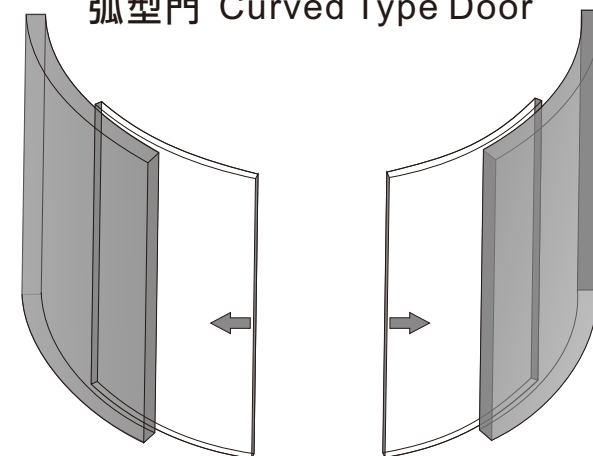
圓型門 Round type door



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

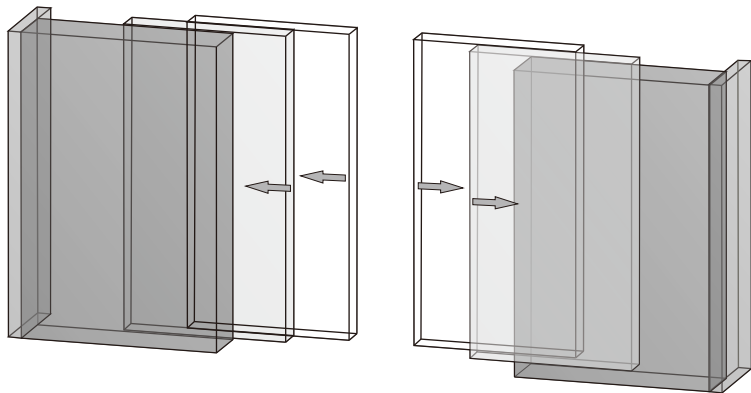


按裝方式請參考弧型門按裝說明

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

四扇走雙向門

Telescopic 4-winged Sliding Doors.

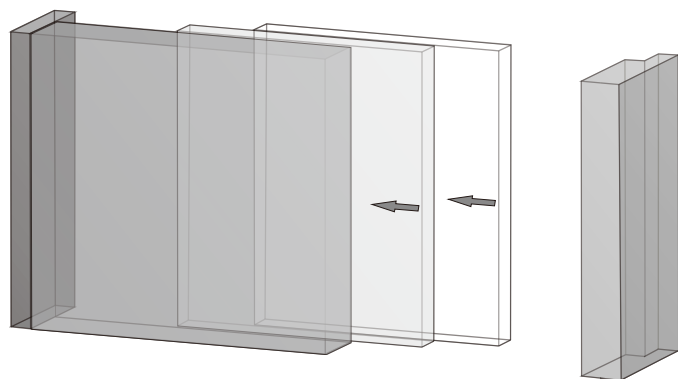


按裝方式請參考四扇走雙向門按裝說明

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.

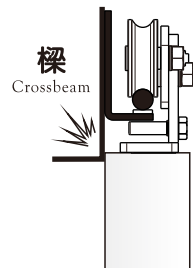
狀況一 門扇無法開啟或關閉 Door can't be opened or closed.

原因一

門扇上方與橫樑接觸

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:

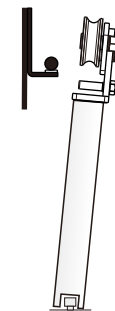
Adjust the Door-Leaf height.

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-Leaf into 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:

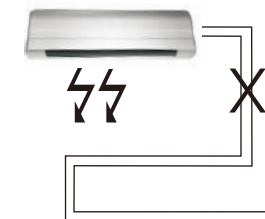
Adjust the Ground Guide Rail/Wheel position.

原因五

感應器故障或未接線至集線器

Cause 5

SENSOR is broken or disconnects to the COMBINED TERMINAL BLOCK.



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集線器

How to solve:

- 1.If SENSOR is broken please change a new one.
- 2.Check SENSOR whether it connects to the COMBINED TERMINAL BLOCK.

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 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.

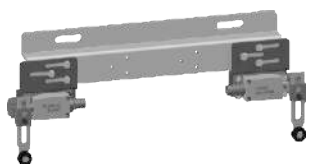
1. 套件規格	COMPONENTS SPECIFICATION	P1
2. 產品規格	TECHNICAL SPECIFICATION	P2
3. 機械箱剖面圖	SECTIONAL DRAWING	P3
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配電箱
DISTRIBUTION BOX



馬達齒輪組
MOTOR
(PLANETARY GEAR)



微動開關
單開4個 雙開8個
MICRO SWITCH
4 PCS for SINGLE-WINGED
8 PCS for BI-PARTING



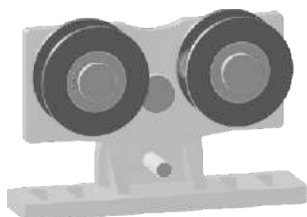
阻輪 單開2個 雙開4個
BLOCK SCREW
2 PCS for SINGLE-WINGED
4 PCS for BI-PARTING



日製鏈條
ROLLER CHAIN



滑動板
SLIDING PANEL



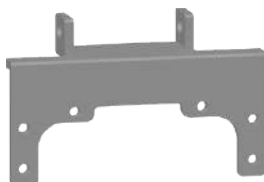
吊輪組 單開2組 雙開4組
HANGING TWIN WHEEL
2 PCS for SINGLE-WINGED
4 PCS for BI-PARTING



尾輪座一組
BELT ROLLER



吊滑輪固定擋片 單開2個 雙開4個
STOPER (IN PROFILE)
2 PCS for SINGLE-WINGED
4 PCS for BI-PARTING

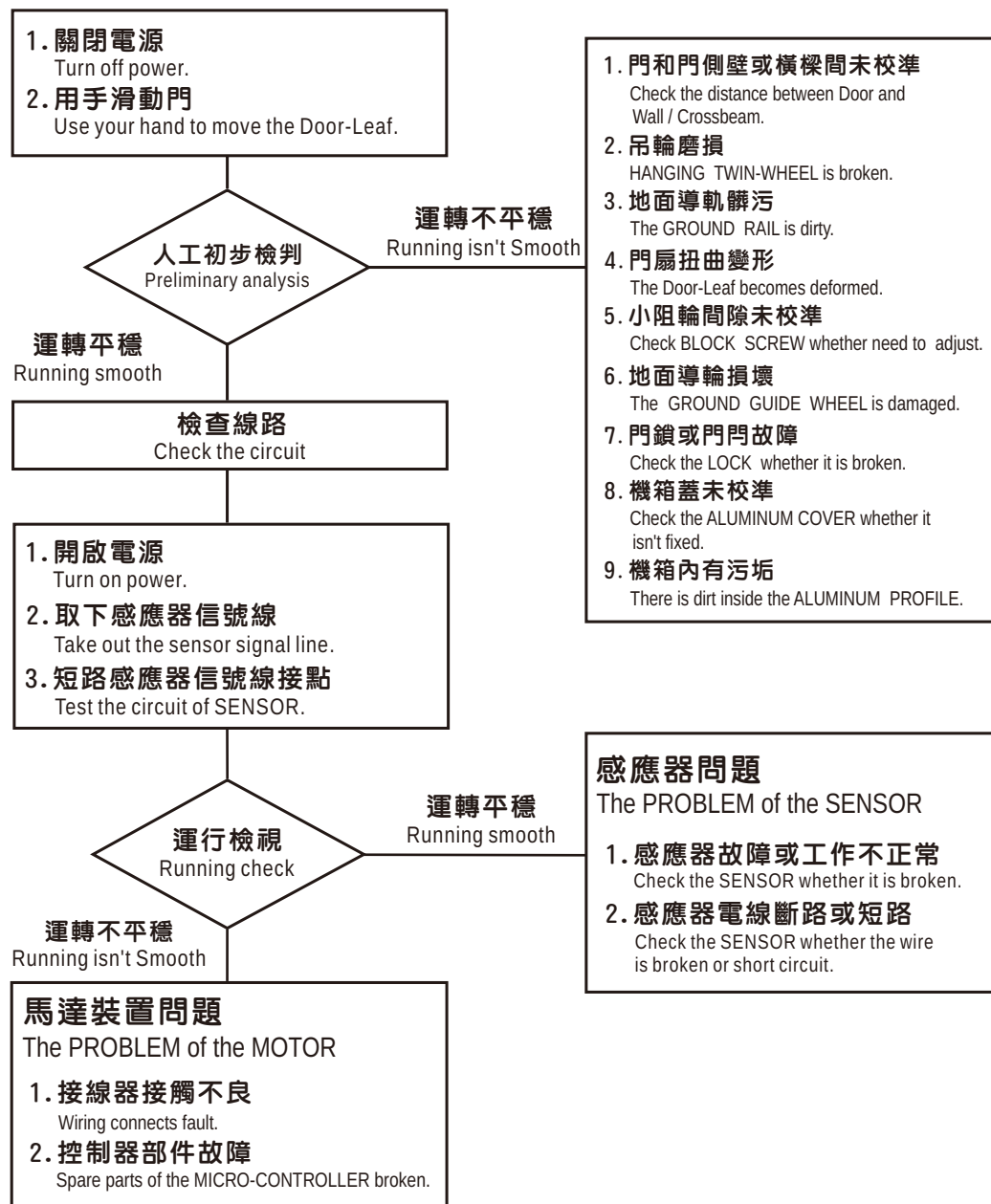


主動板
ACTIVE BRACE

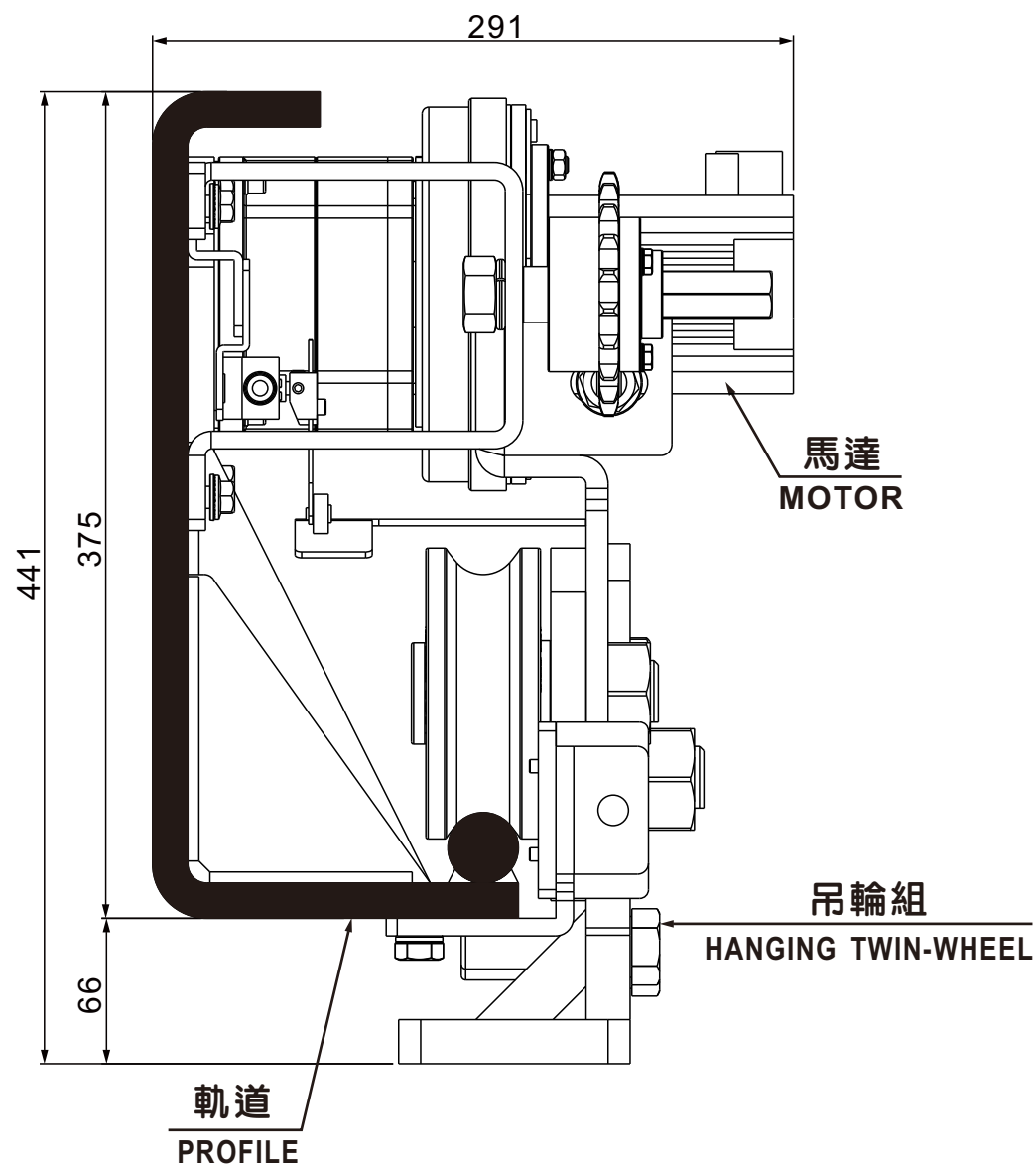


被動板
PASSIVE BRACE

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-80	
種類 MODEL	單向橫開式 SINGLE-WINGED	雙向橫開式 BI-PARTING
門扇重量 DOOR WEIGHT	5000kg X1扇(door)	4000kg X2扇(door)
門扇寬度 DOOR WIDTH	DW=1M~6M	DW=1M~12M
軌道型式 PROFILE TYPE	槽型鋼 單軌式 (LTYPE STEEL / SINGLE TRACK)	
馬達 MOTOR	DC320V 直流無刷馬達 DC320V BRUSHLESS DC MOTOR	
傳動接合方式 TRANSMISSION DEVICE	電磁離合器接合 ELECTROMAGNETIC BEARING - MOUNTD CLUTCH	
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	AC 220 V	
環境溫度 ENVIRONMENTAL TEMPERATURE	-20°C~+50°C	
噪音量 VOLUME	最大 65 分貝 65decibel(max.)	
開啟速度 STARTING SPEED	230mm/秒(second)	230mm X 2 /秒(second)
傳動要件 TRANSMISSION IMPORTANT CONDITION	鍊條 40-1 R 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 in AC 100 V 全載時 0.95 in AC 100 V Full load	
吊輪材質 MATERIAL OF HANGER	304不鏽鋼(Stainless 304)	
吊輪軸承 BEARING	滾柱軸承(Roller Bearing)	



單位：公釐
MEASURE : mm

5 關門慢速速度調節旋鈕 The slowing speed of the closing 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 of closing door
:Higher number, faster speed.

CAUTION: please adjust the number one by one from low to high.

6 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.

7 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。

Adjust the HOLD OPEN TIME
Higher number, the hold time is longer

8 半開位置調節旋鈕 Full/Half Opening

全開/半開接點NO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.

* Half Opening

Notice: If the door is during closing (doesn't close completely);
at the same time, the sensor activates again. In this situation, the
opening distance will be more range than original because the distance
is different between the beginning position & the final position.

*The above actions keeps for several times, the door will be "Full Open."

*The door completely closes again could return to Half Opening as usual.

1 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，數度越快。
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

2 開門慢速速度調節旋鈕 The slowing speed of the opening door

調整開門慢速的移動速度，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 of opening door

Higher number, faster speed.

CAUTION: please adjust the number one by one from low to high.

3 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，請將數字由小而大，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 low to high.

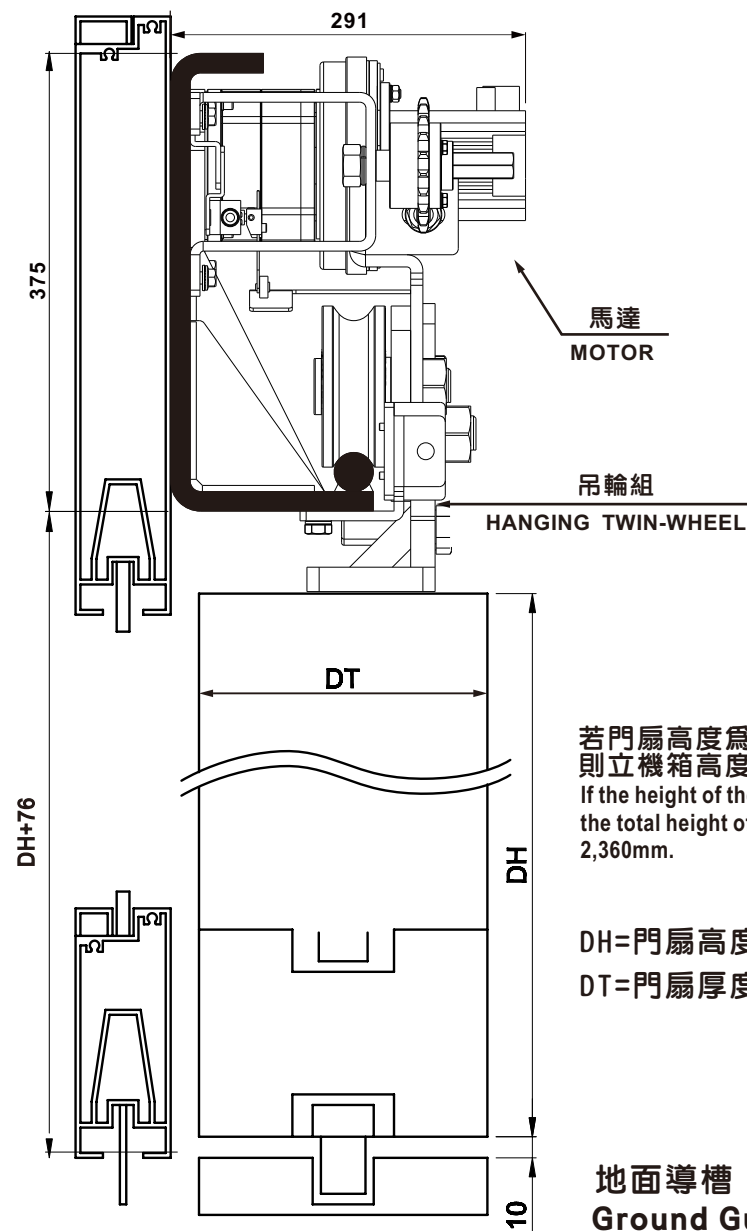
4 關門速度調節旋鈕 The closing speed of the door

可調整門扇關閉時行進數度，數字越大，速度越快。
初始調整時，請將數字由大而小，逐次調整。

Adjust the CLOSED SPEED

Higher number, faster speed.

CAUTION: please adjust the number one by one from low to high.



1 準備

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



2 切割/按裝機械箱

Cut and install the ALUMINUM PROFILE



3 各感應器按裝

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 皮帶按裝調整

Install and adjust the BELT



9 電氣連接

Power connect



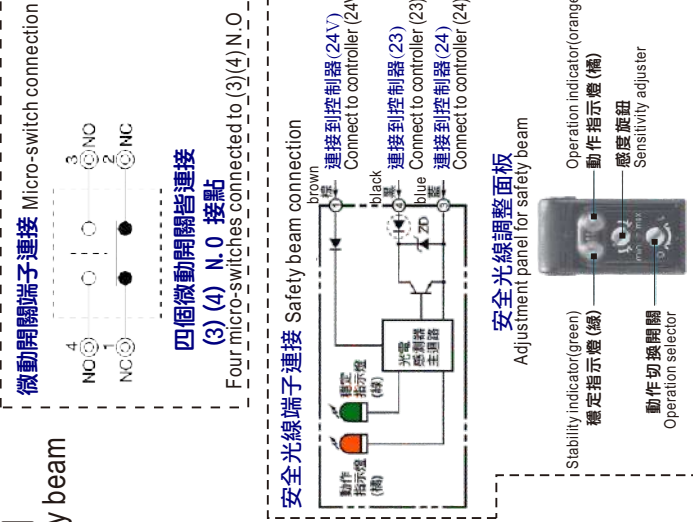
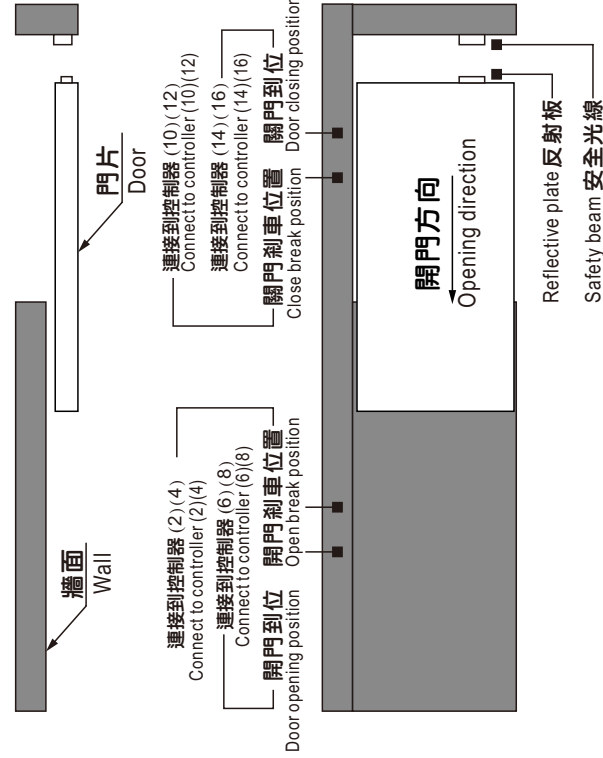
10 測試及調整

Test and adjust

微動開關與安全光線之相關位置與接線圖

The position & connecting diagram of micro-switch and safety beam

左開門機 Left open



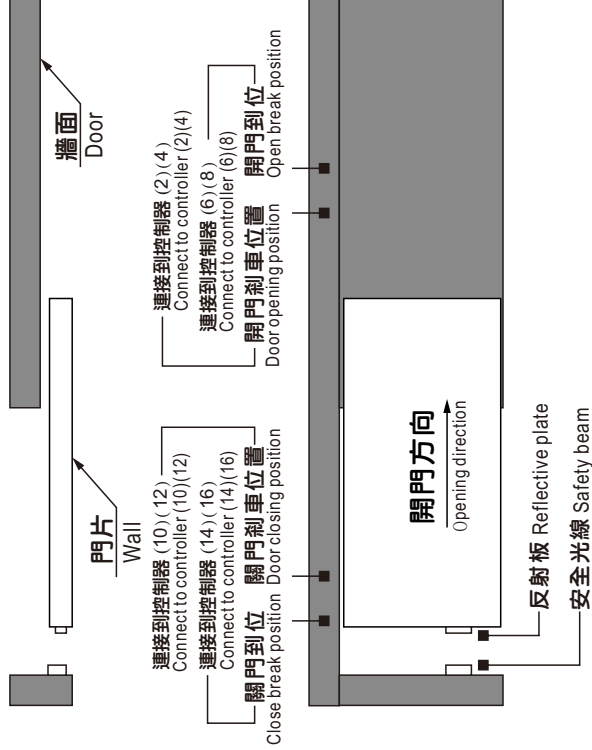
注意：若安裝開門到位與開門煞車位置的微動開關間距過近，或安裝在開門到位與開門煞車位置的微動開關間距過近時，將會造成同時觸發二個微動開關的情況，進而影響門扇移動速度。微動開關須連接本身的(3)(4)端子 N.O 接點，否則會造成訊號異常，進而影響門扇移動速度。

If the distance between the micro-switch installed in the door open position and the door brake position is too close, or the distance between the micro-switch installed in the door close position and the door brake position is too close, it will cause two micro-switches to be triggered at the same time, which will affect the door leaf moving speed. The micro-switch must be connected to its (3)(4) N.O. Otherwise, it will cause abnormal signals and affect the door leaf moving speed.

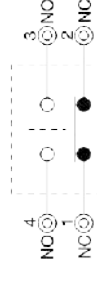
微動開關與安全光線之相關位置與接線圖

The position & connecting diagram of micro-switch and safety beam

右開門機 Right open



微動開關端子連接 Micro-switch connection

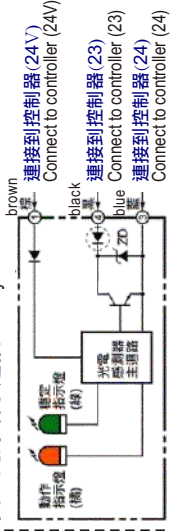


四個微動開關皆連接

(3) (4) N.O 接點

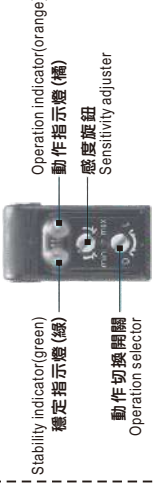
Four micro-switches connected to (3)(4) N.O

安全光線端子連接 Safety beam connection



安全光線調整面板

Adjustment panel for safety beam



注意：若安裝開門到位置與開門煞車位置的微動開關間距過近，或安裝在開門到位置與開門煞車位置的微動開關間距過近時，將會造成同時觸發二個微動開關的情況，進而影響門扇移動速度。微動開關須連接本身的(3)(4)端子 N.O 接點，否則會造成訊號異常，進而影響門扇移動速度。

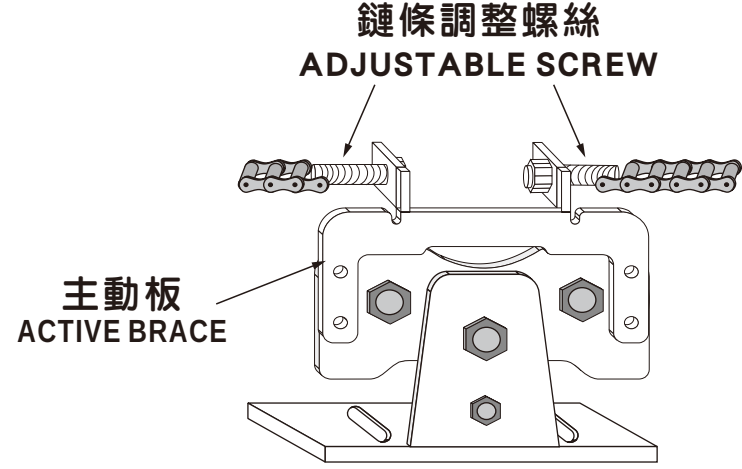
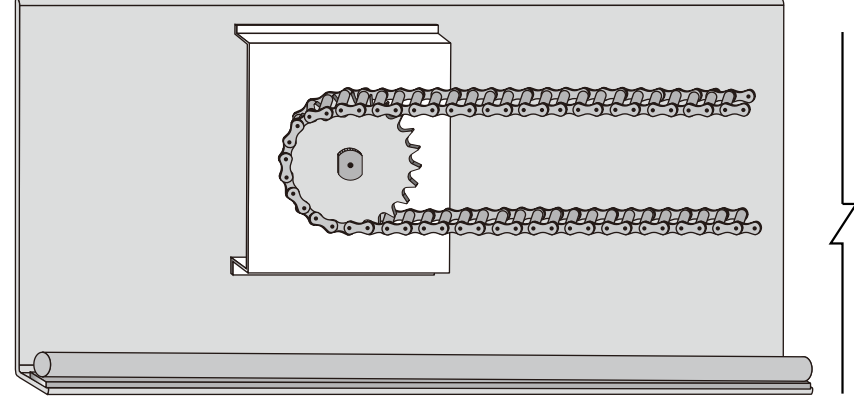
If the distance between the micro-switch installed in the door open position and the door brake position is too close, or the distance between the micro-switch installed in the door close position and the door brake position is too close, it will cause two micro-switches to be triggered at the same time, which will affect the door leaf moving speed. The micro-switch must be connected to its (3)(4) N.O. Otherwise, it will cause abnormal signals and affect the door leaf moving speed.

13

KTH S-80

6

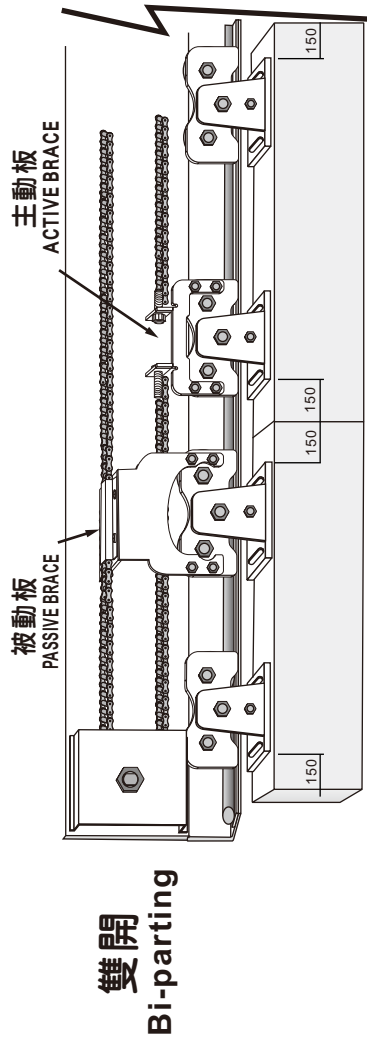
尾輪座安裝 INSTALL THE BELT ROLLER



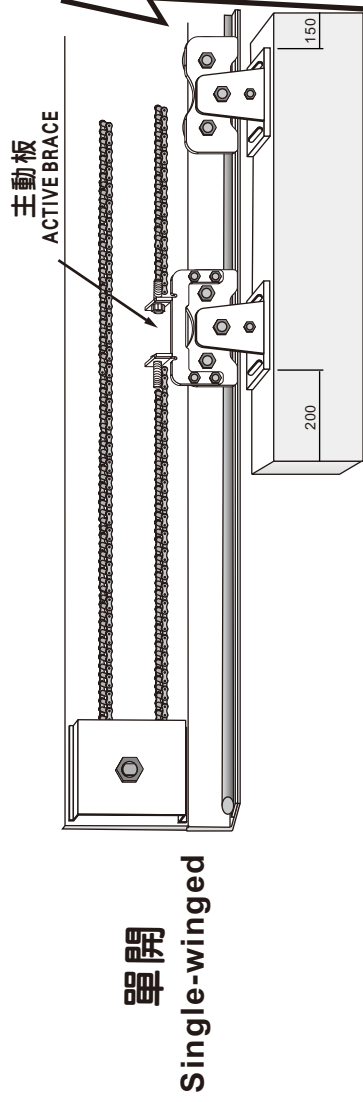
鏈條張力可由鏈條調整螺絲做調整，調整完畢後，須擰緊調整固定座螺絲。

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

6



門扇各邊緣與吊滑輪間應保持至少150mm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 150mm between the edge of door leaves and hangers

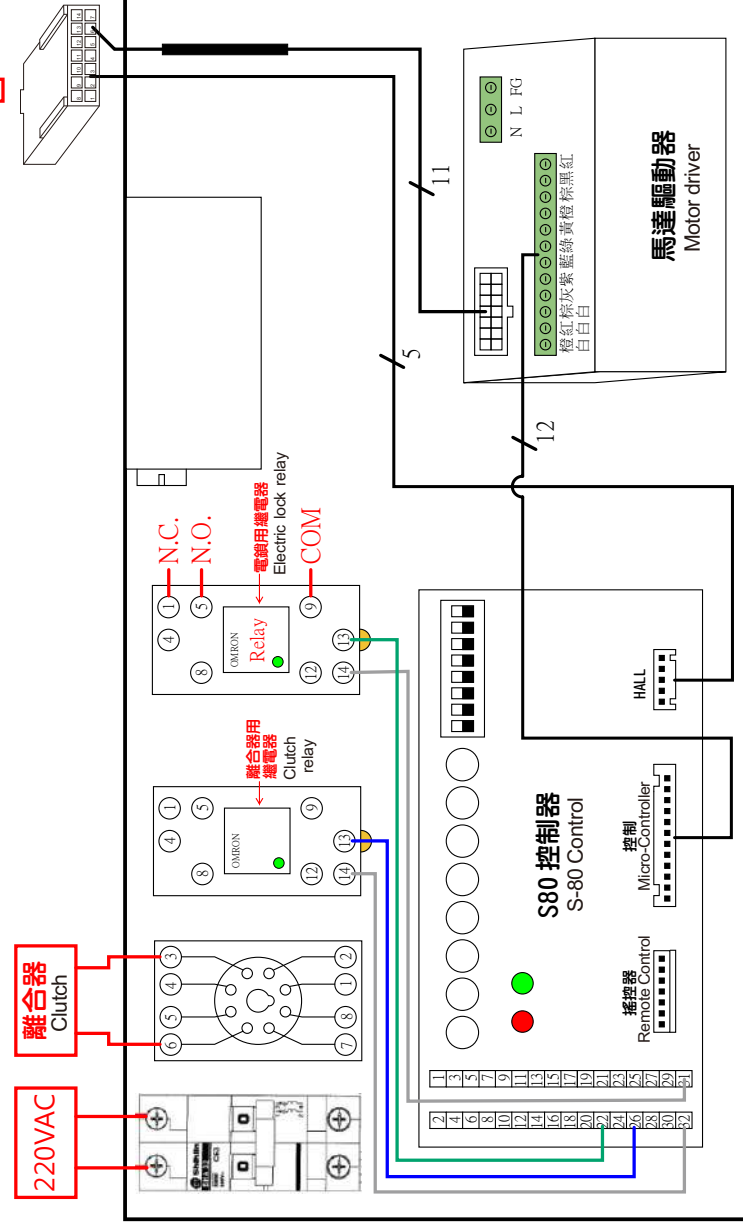


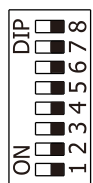
門扇邊緣與左側吊滑輪間應保持至少200mm以上，以確保門扇能夠開啟至最大位置。
In order to open to the largest position. Please leave 200mm between the edge of door leaf and left hanger.

外接馬達
Motor

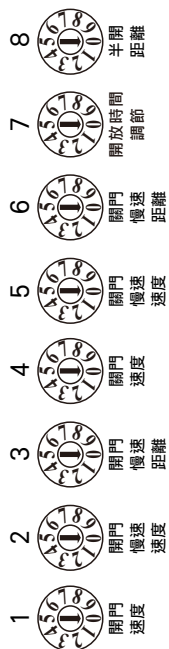
配電箱接線圖

Distribution Box Wiring





指撥開關-Pin 1-定向開關
OFF: 正常模式
ON: 系統模式為按一下
開門, 再按一下開門。



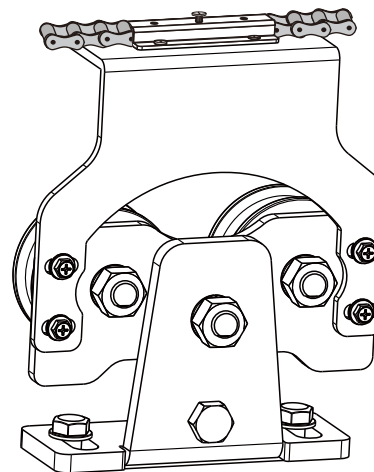
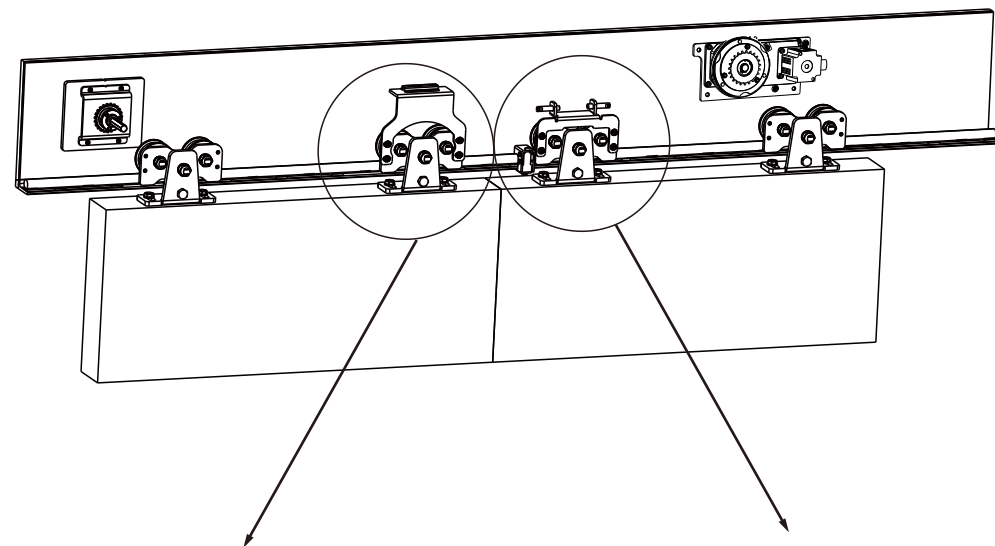
HALL

控制器

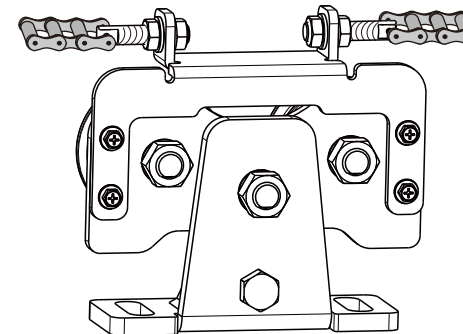
RF遙控器

2	1
4	3
6	5
8	7
10	9
12	11
14	13
16	15
18	17
20	19
22	21
24	23
26	25
28	27
30	29
32	31

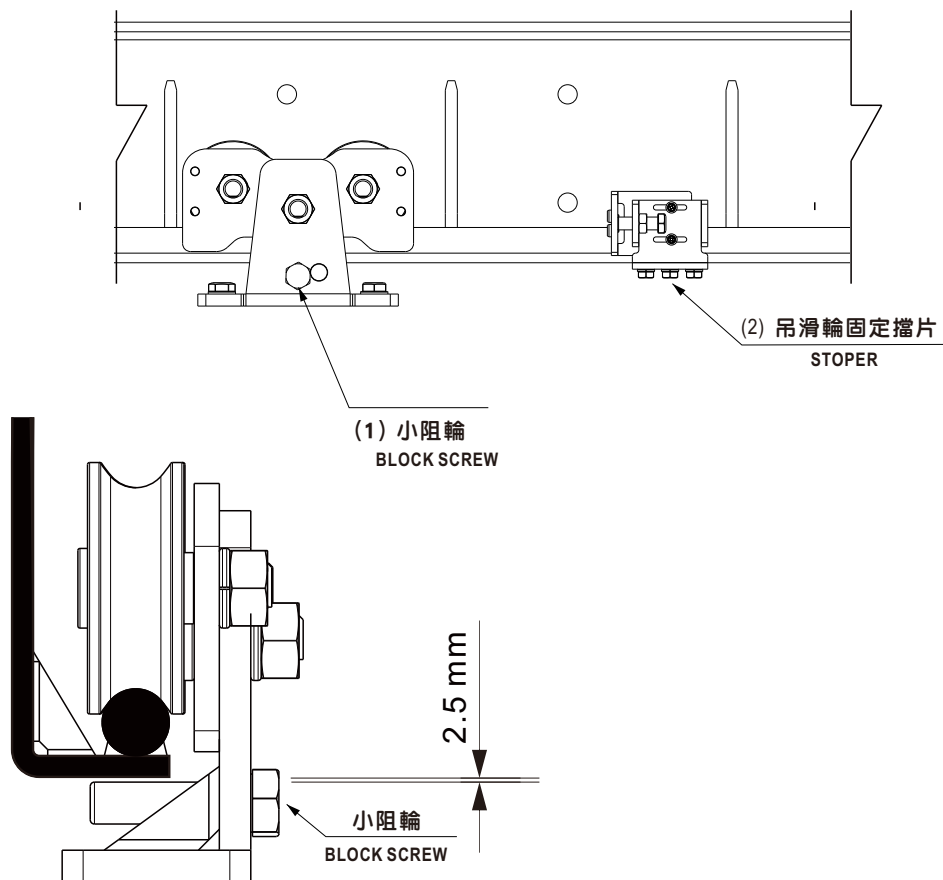
開門剎車位置	2	1	內部強制
COM	4	3	開門信號
開門到位置	6	5	COM
COM	8	7	開門信號
關門煞車位置	10	9	停止信號
COM	12	11	COM
關門到位置	14	13	半開信號
COM	16	15	COM
主副機切換	18	17	左右開
COM	20	19	COM
電鎖Relay	22	21	電鎖使用
COM	24	23	COM
馬達Relay	26	25	安全光線
COM	28	27	COM
DC +13V	30	29	DC +13V
DC +24V	32	31	DC +24V



被動板
PASSIVE BRACE



主動板
ACTIVE BRACE

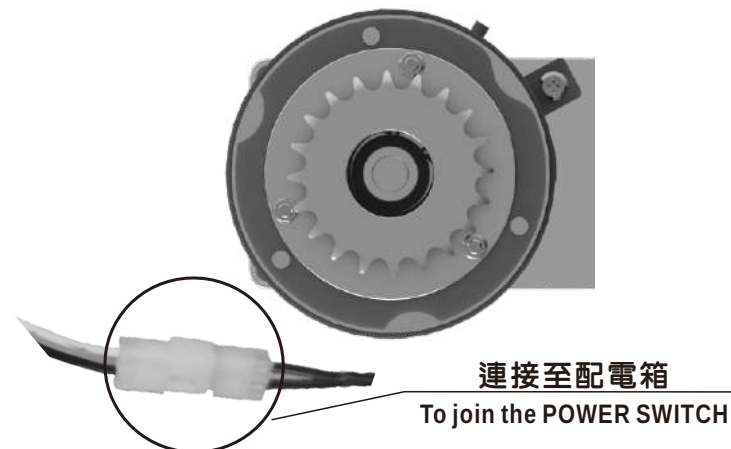


A 門扇按裝後，鎖上小阻輪，防止門扇脫落。

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.



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

Power supply (input)
Either AC100V~240V

連接至電源供應器輸入端
Connect to Power Input

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.