

Automatic Door Systems



SW-5E

Swing Door

(EN16005)

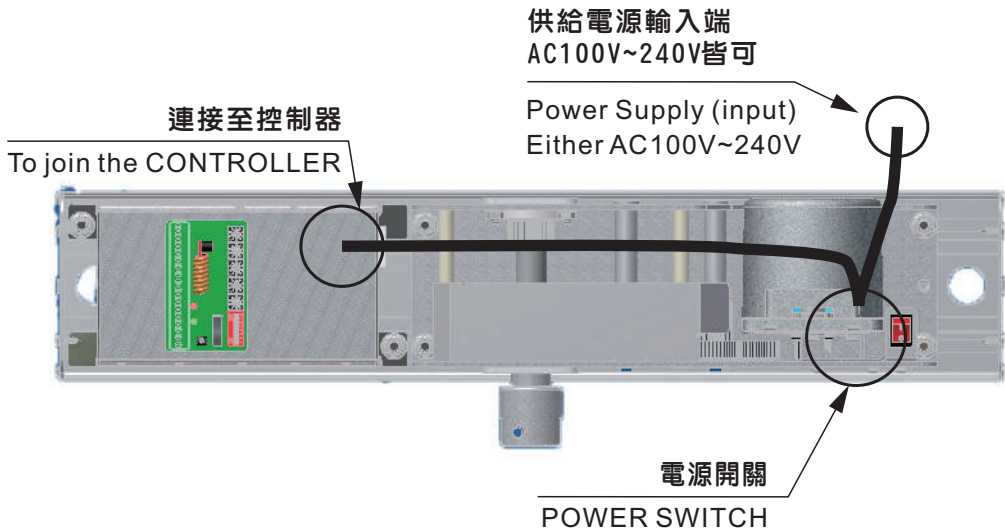
Ver.2 2017.01.19

使用說明

OPERATION INSTRUCTION



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



警告

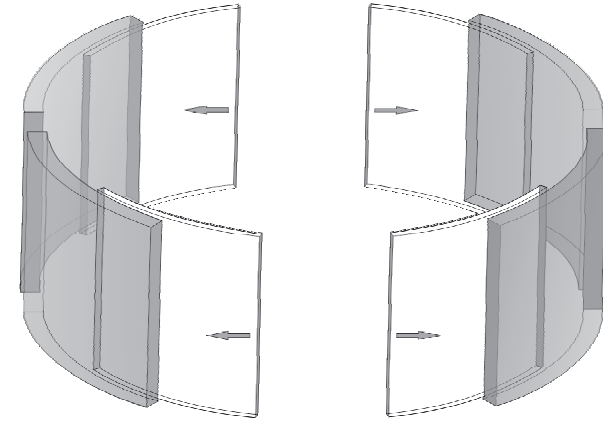
請確認感應器所標示之電壓是否與供給電源相同，若與供給電源電壓不同時，則感應器需另行加裝變壓裝置否則感應器極易燒毀，連接完畢後，請再確認一次。

Warning

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.

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

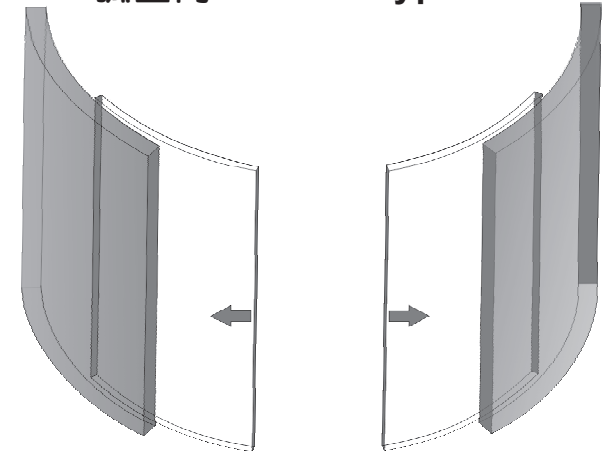
圓型門 Round type door



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

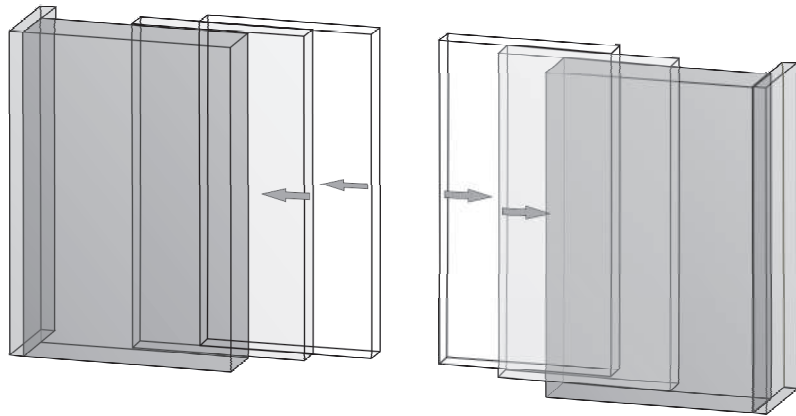


按裝方式請參考弧型門按裝說明

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

四扇走雙向門

Telescopic 4-winged Sliding Doors.

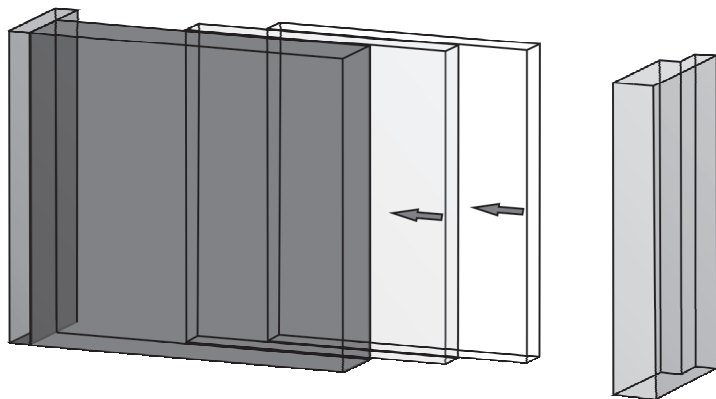


按裝方式請參考四扇走雙向門按裝說明

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.

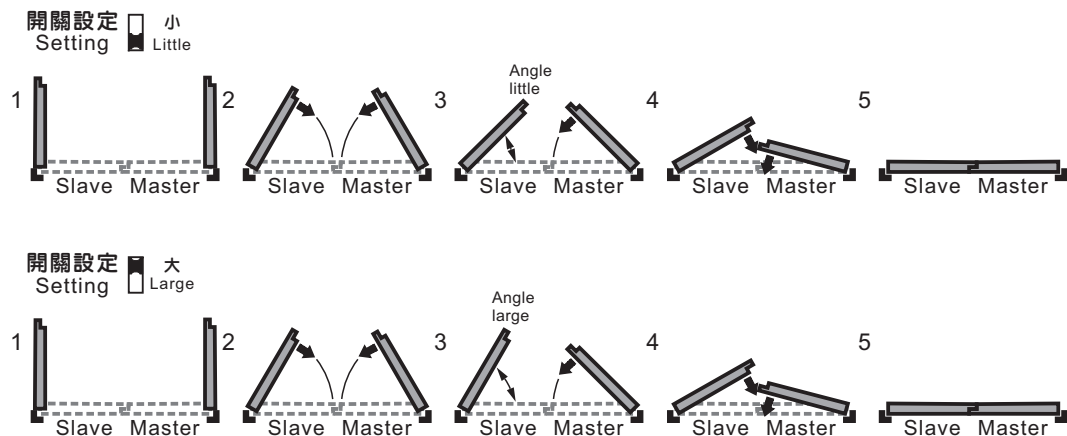


指撥開關 I
DIP Switch I

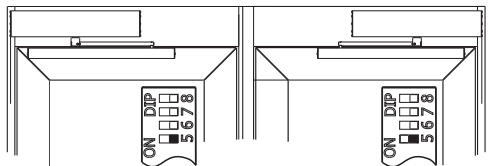
副機關門停留角度 SLAVE postpone angle range

當主副機執行開門動作時，可設定副機停留的角度大小，以避免主副機之門扇產生碰撞問題。

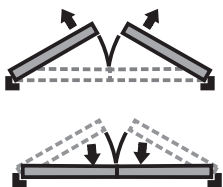
When MASTER door is closing in order to avoid the SLAVE door hit it, installer can set the range to postpone the position to SLAVE.



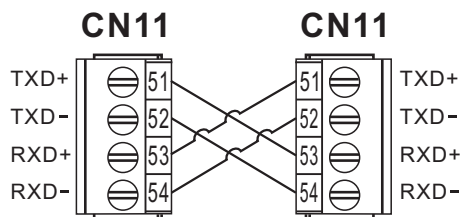
A. 雙門示意圖 Double Door



請設定二台主機指撥開關 I 第5號的狀態皆為Off。
Please set all door DIP Switch I No.5 Off.

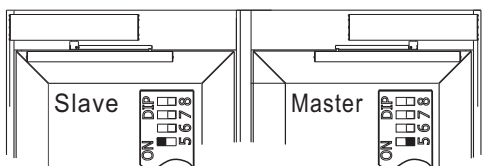


端子連接方式
Connection

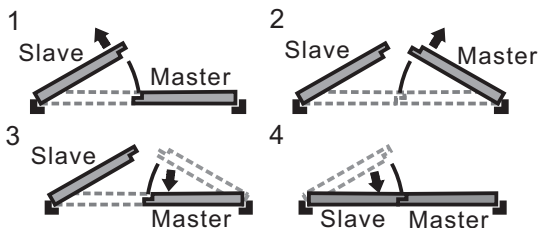


在連接端子後若黃色LED出現閃爍的狀態，表示連接成功，門扇即同步開啟與關閉。
After connecting to terminals, yellow LED flashes to indicate connecting properly. The door leaves will open and close at the same time.

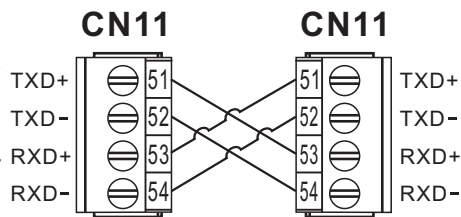
B. 主從雙門示意圖 Double Door M/S



先執行關門的為主機，其指撥開關 I 的第 5 格設為 Off。後關門的為副機，其指撥開關 I 的第 5 格設為 On。
Please set the door which closes first to master (DIP Switch I → No.5 Off), then set the second to close to slave (DIP Switch I → No.5 On)



端子連接方式
Connection



在連接端子後若黃色 LED 出現閃爍的狀態，表示連接成功。
After connecting to terminals, yellow LED flashes to indicate connecting properly.

※在送電前請檢查門片的相關位置是否正確，以免開機測試時發生錯誤。
主機與副機請同時送電，以避免開機的時間差造成開機測試錯誤。

※Before turn on the power, please inspect the relative positions of the door leaves to avoid error occurs.
Please turn on "Master" and "Slaver" at the same time to avoid the time different causes the error.

1. 產品規格

TECHNICAL SPECIFICATION.....P1

2. 門機組各部件說明

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3. 門機組尺寸圖

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4. 開門幅度設定說明

DISTANCE SETTING.....P4

5. 外推式按裝示意圖

(OUTWARD OPENING)PUSH ARM ASSEMBLY MOUNTING.....P5

6. 外推式部件說明

(OUTWARD OPENING)PUSH ARM ASSEMBLY ILLUSTRATION.....P6

7. 內拉式按裝示意圖

(INWARD OPENING)PULL ARM ASSEMBLY MOUNTINGP7

8. 內拉式部件說明

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9. 各旋鈕功能說明

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11. 安全信號連接說明

CONNECTION - SAFETY.....P14

12. 雙門/主從關係

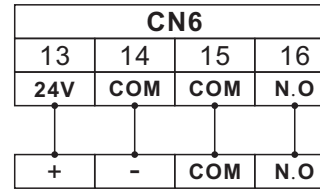
DOUBLE DOOR AND MASTER/SLAVE FUNCTION.....P15

13. 電器連接

CONNECTION.....P17

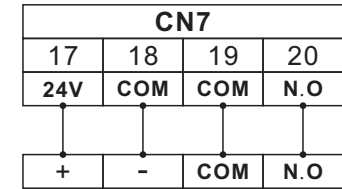
型號 MODEL	SW-5E	
種類 TYPE	外推式 (Outward)	內拉式 (Inward)
門扇重量/寬度 DOOR WEIGHT & WIDTH	<p>最大值 : ● Max.</p> <p>最小值 : ● Min.</p>	
馬達 MOTOR	DC24V 150W 直流無刷馬達 DC24V 150W BRUSHLESS DC MOTOR	
控制器 CONTROL	微電腦化處理機控制器 USER-FRIENDLY MICRO-CONTROLLER	
消耗電量 POWER CONSUMPTION	150W	
電源電壓 VOTAGE	AC100V~240V	
環境溫度 ENVIRONMENTAL TEMPERATURE	-20°C ~ +50°C	
噪音量 VOLUME	最大 55 分貝 55 decibel(max.)	
開啟速度 SPEED of OPENING 90 DEGREE	最大值 : 3 秒 ~ 15 秒 / 90° 3~15 sec. (Max)	
開啟時間 STARTING TIME	可調 0 秒至 20 秒 0~20 sec. (Regulable)	
傳動要件 TRANSMISSION IMPORTANT CONDITION	外推式連桿組 Outward Arm assembly	內拉式滑動槽 Inward Arm assembly
開門幅度 OPENING DOOR RANGE	自行設定/ 90° (出廠值) 120°Max./90 (default)	
PFC 功率因素 POWER EFFICIENCY	0.95(AC100V全載時) 0.95 (In full load)	
手推開啟力量 TRACTION FORCE	3 kg	

ENTRY SENSOR ACTIVATION



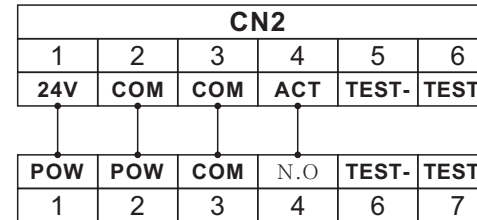
HR50

EXIT SENSOR ACTIVATION

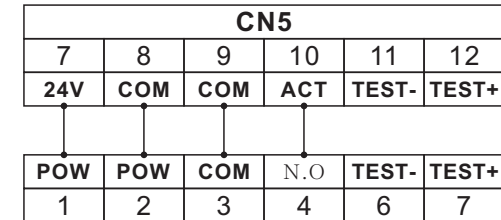


HR50

PREMIER SWING ONDOOR SAFETY (NOT MONITORED)



HOTRON SSS-5



HOTRON SSS-5

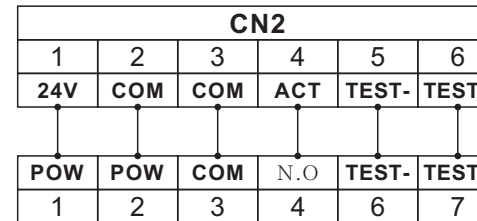
OPEN FACE SAFETY (TOPSCAN)

CONTROLLER PANEL
DIP Switch II No.1 → "ON"
SSS-5
DIP Switch No.1 → "A"
No.3 → "N.C"

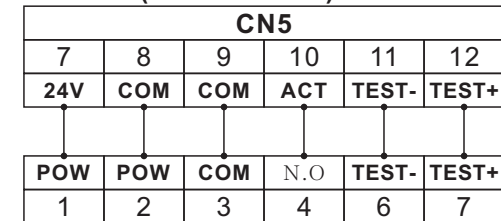
CLOSE FACE SAFETY (TOPSCAN)

CONTROLLER PANEL
DIP Switch II No.4 → "ON"
SSS-5
DIP Switch No.1 → "A"
No.3 → "N.C"

PREMIER SWING ONDOOR SAFETY (MONITORED)



HOTRON SSS-5



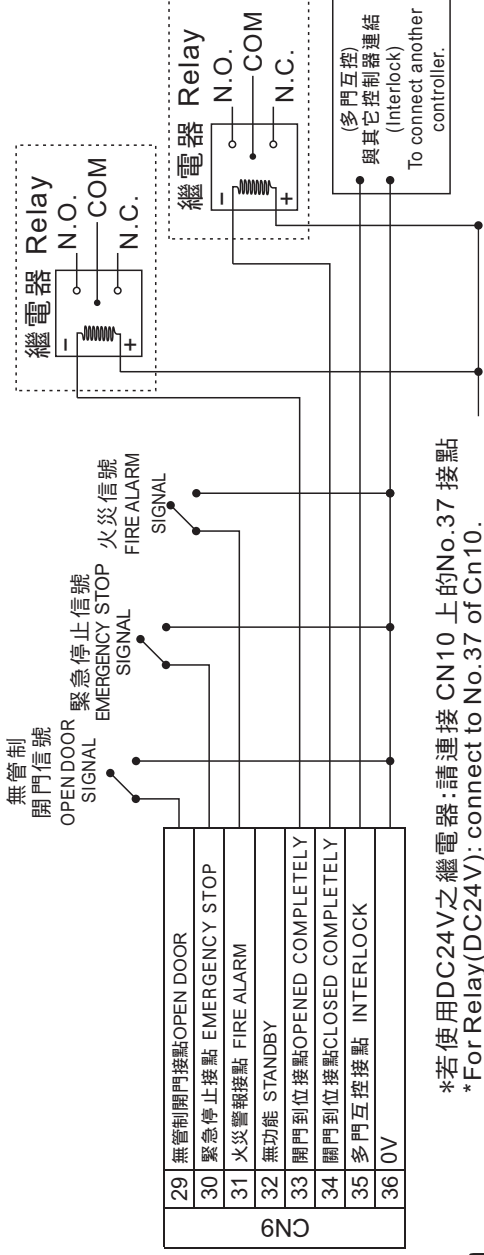
HOTRON SSS-5

OPEN FACE SAFETY (TOPSCAN)

CONTROLLER PANEL
DIP Switch II No.1 → "ON"
No.2 → "ON"
SSS-5
DIP Switch No.1 → "A"
No.3 → "N.C"

CLOSE FACE SAFETY (TOPSCAN)

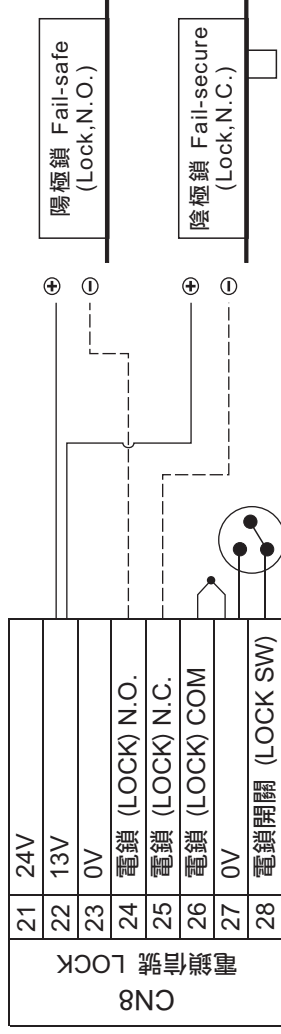
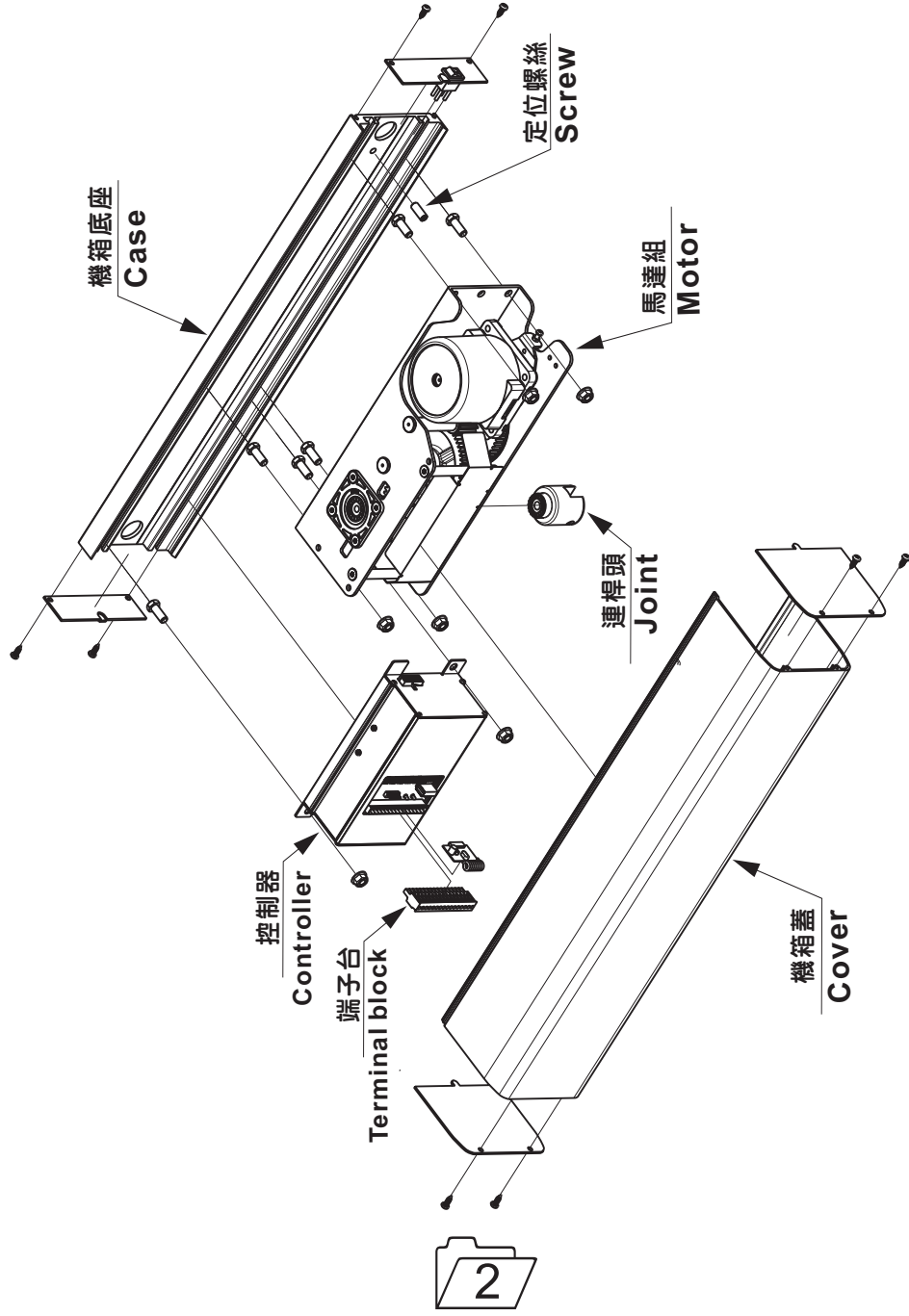
CONTROLLER PANEL
DIP Switch II No.4 → "ON"
No.5 → "ON"
SSS-5
DIP Switch No.1 → "A"
No.3 → "N.C"

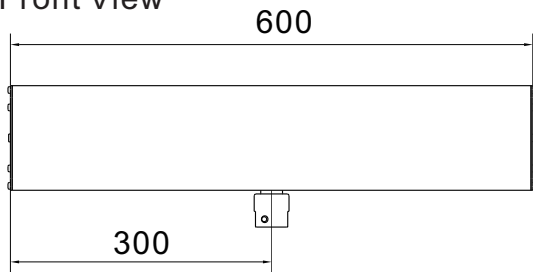
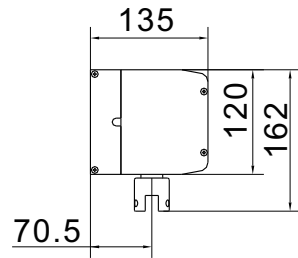
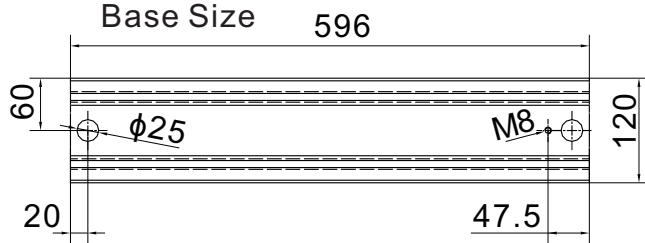


*若使用DC24V之繼電器:請連接 CN10 上的No.37 接點
 *For Relay(DC24V): connect to No.37 of Cn10.
 *若使用DC13V之繼電器:請連接 CN10 上的No.39 接點
 *For Relay(DC13V): connect to No.39 of CN10.

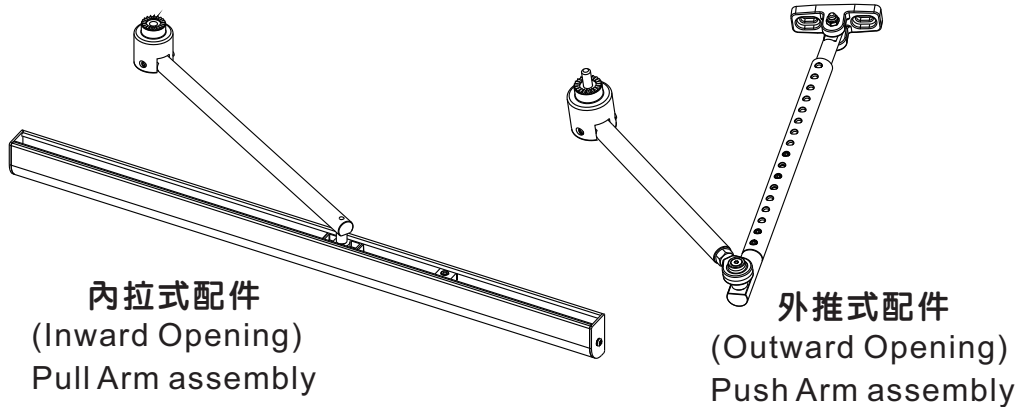
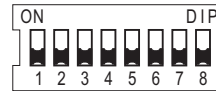
Warning

*請使用有信號顯示的繼電器。
 *繼電器推薦型號: OMRON MY2N-D2-J (由客戶安排)
 *Relay it should be with built in diode.
 *Relay Suggested model: OMRON MY2N-D2-J (It' s arranged by customers)


 啟動電鎖
 ELECTRIC LOCK ENABLE


**正視圖
Front View**

**側視圖
Side View**

**底座尺寸圖
Base Size**

每組門機皆可搭配內拉 外推式配件

Every set of operator can use the Inward / Outward Arm assembly.


**內拉式配件
(Inward Opening)
Pull Arm assembly**
**外推式配件
(Outward Opening)
Push Arm assembly**

**指撥開關 II
DIP Switch II**

- 1 門後開關**
 N.O N.C
- 2 門後開關自我測試**
 No Yes
- 3 門後開關動作模式**
 停止 慢速
- 4 安全光線**
 N.O N.C
- 5 安全光線自我測試**
 No Yes
- 6 門外感應器**
 N.O N.C
- 7 門內感應器**
 N.O N.C
- 8 緊急停止**
 N.O N.C


**指撥開關 III
DIP Switch III**

- 1 無管制開門** **6 ~ 8 保留**
 N.O N.C
- 2 火災警報**
 N.O N.C
- 3 火災動作**
 N.O N.C
- 4 開門防風壓**
 N.O N.C
- 5 關門防風壓**
 N.O N.C

**PS:指撥開關有切換時
要重新啟動電源**

- 1 Open Face Safety**
 N.O N.C
- 2 Open Face Safety Test**
 No Yes
- 3 Open Face Safety Type**
 Stop Slowly
- 4 Closing Face Safety**
 N.O N.C
- 5 Closing Face Safety Test**
 No Yes
- 6 Entry Sensor**
 N.O N.C
- 7 Exit Sensor**
 N.O N.C
- 8 Emergency stop**
 N.O N.C





指撥開關 I
DIP Switch I

1 左/右開設定

右開 左開

2 煞車開關設定

有煞車 無煞車

3 副機關門停留角度

小 大

*設定說明請參考第16頁

4 定向開關設定

OFF ON

OFF: 正常模式

ON: 系統模式為按一下開門, 再按一下關門。

5 主/副機模式設定

主機 副機

6 電鎖模式設定

一般電鎖 斜舌式

7 門後長度失效偵測設定

手動 自動

Ps手動是由K8旋鈕設定
自動是開機時自動偵測設定

8 反向開關設定

關閉 開啟

OFF(正常模式): 停電再復電後, 門扇先執行開門動作。

ON(適合保全系統): 停電再復電後, 門扇先執行關門動作。

PS:指撥開關有切換時
要重新啟動電源

1 L/R Switch

Right Left

2 Brake power switch

OFF ON

3 SLAVE postpone angle range

Little Large

*Please ref. to P16

4 Directional function

OFF ON

OFF: Normal mode.

ON: Push once, open the door.
Push again, close the door.

5 MASTER/SLAVE setting

Master Slave

6 Electric lock type setting

Normal Latch Bolt

7 "Non-detect angle" for safety sensor Setting.

Manual Learn

"Manual setting" has to adjust by "K8" knob.

8 Reverse Switch:

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

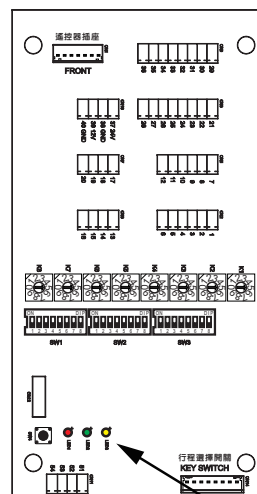
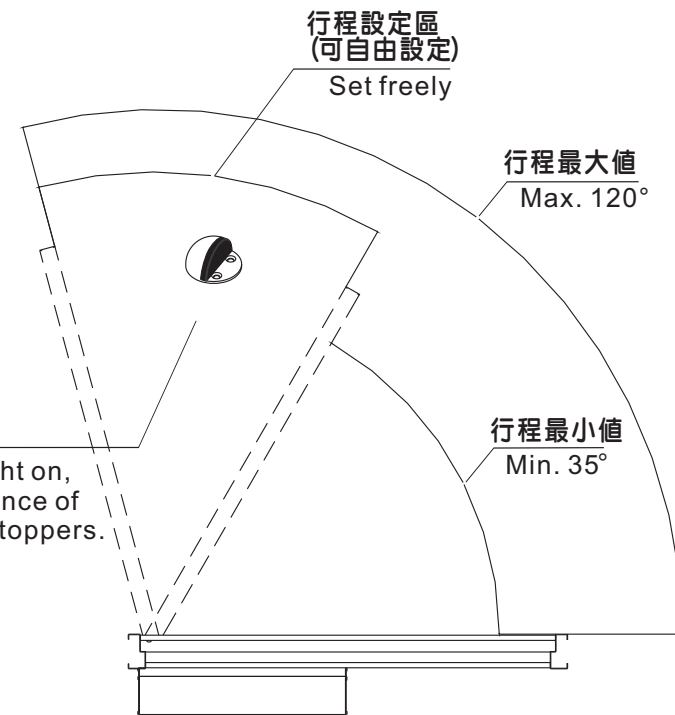
OFF ON

OFF: Normal mode, after power resumes, the Door-Leaf opens the door first.

ON: suitable for Security System, after power resumes the Door-Leaf closes the door first.

利用門擋器來設定
開門行程

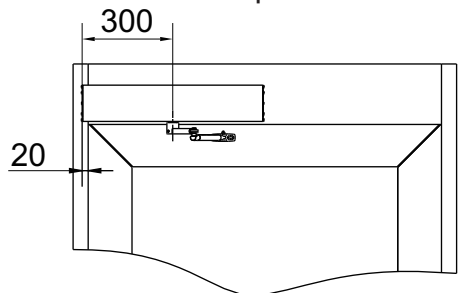
When the yellow light on, please set the distance of opening range By stoppers.



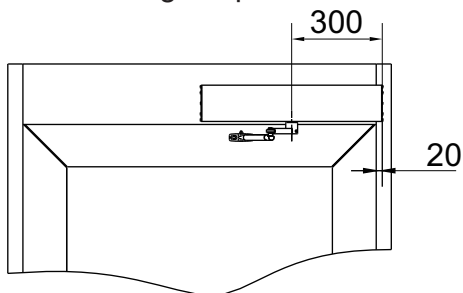
黃 ● 開機測試

Yellow LED ●
Opening Testing

外推式(左側)
Left Open

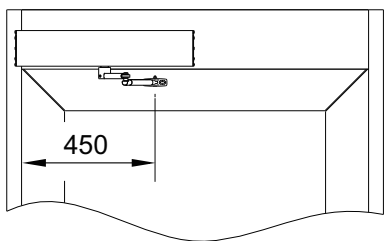


外推式(右側)
Right Open



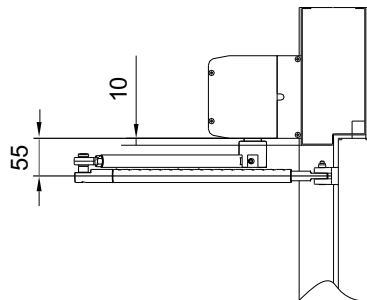
外推式推桿按裝尺寸圖

The position of mounting



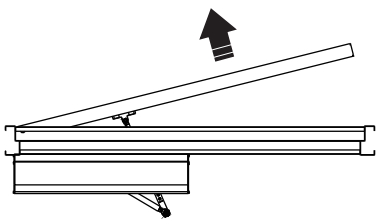
外推式門機按裝尺寸圖

Mounting (Side View)



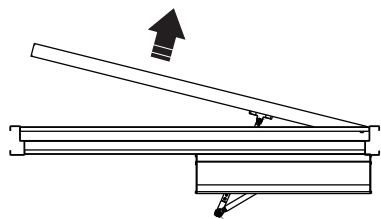
外推式開門方向(左側開門)
Mounting

(eg.for left Open,Top View)



外推式開門方向(右側開門)
Mounting

(eg.for Right Open,Top View)



K1 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.



K2 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.



K3 開門慢速速度調節旋鈕

可調整門扇開啟時慢速速度，數字越大，力量愈大。初始調整時，請將數字由大而小，逐次調整。



K4 關門慢速速度調節旋鈕

可調整門扇關閉時慢速速度，數字越大，力量愈大。初始調整時，請將數字由大而小，逐次調整。



K5 開門時間調節旋鈕 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(120)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	5	10	15	20	60	120



K6 碰撞偵測靈敏度調節旋鈕 Sensitivity of Collision Detection

可調整偵測門扇在運行中遇到阻礙時的反應靈敏度，數字越小靈敏度愈高。初始調整時，請將數字由小而大，逐次調整。

Adjust the sensitivity of reaction to obstacle during door is working, less number, higher sensitivity.

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



K7 煞車力調節旋鈕 Brake Power

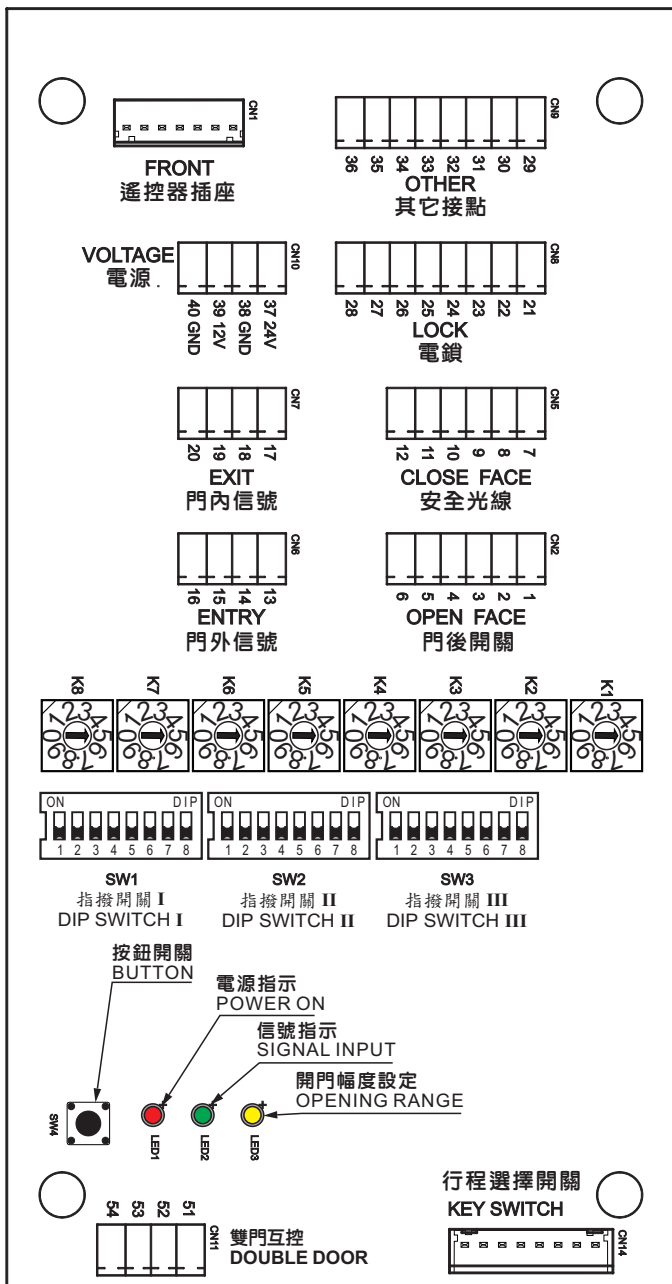
調整門扇的煞車力量，數字愈大煞車力愈強。

Adjust Door-Leaf BRAKE POWER. Higher number, more Brake power



K8 門後防撞失效距離旋鈕

數字	0	1	2	3	4	5	6	7	8	9
角度	Desable	4/90°	8/90°	12/90°	16/90°	20/90°	24/90°	28/90°	32/90°	36/90°

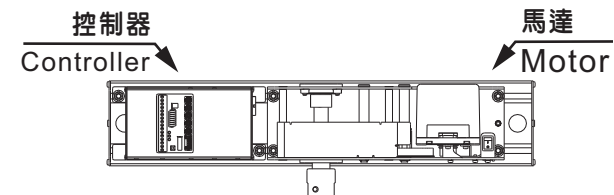


黃色 LED : 設定開門幅度 (燈亮表示設定行程中)
Yellow LED : Setting door opening range. (When light on you can set the door range.)

綠色 LED : 燈亮表示信號已輸入
Green LED : Signal input.

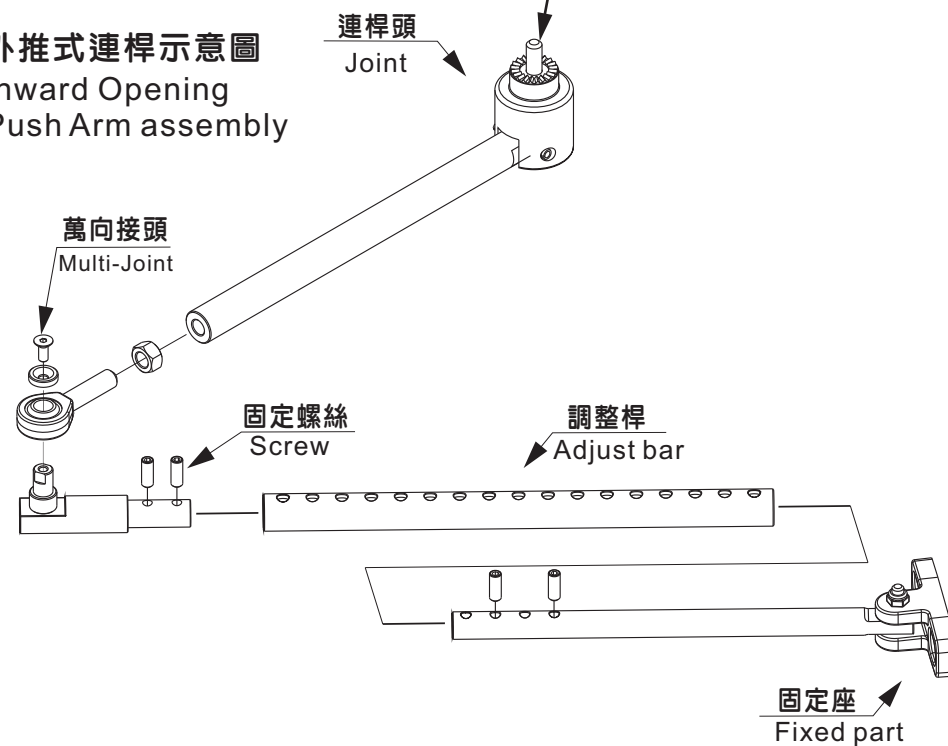
紅色 LED : 電源指示燈 (燈亮表示電源已接通)
Red LED : Power on.

外推式按裝示意圖
 Operator

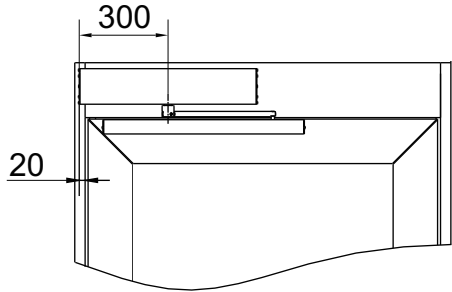


註：無論是外推式和內拉式，左側門 右側門
 馬達永遠是按裝在右側。
 Motor has to be mounted the right side of the controller, no matter it's Outward/Inward/ Left Open/Right Open.

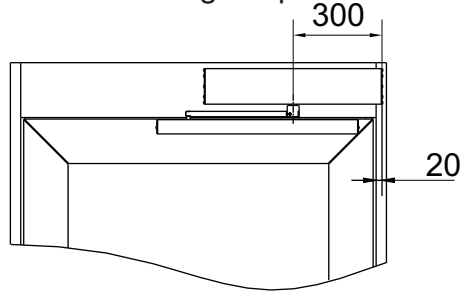
外推式連桿示意圖
 Inward Opening Push Arm assembly



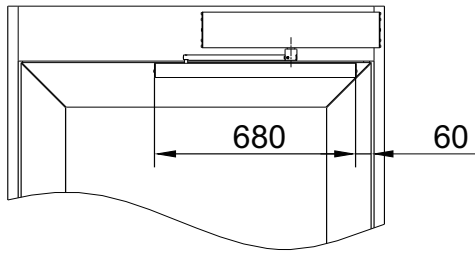
內拉式(左側)
Left Open



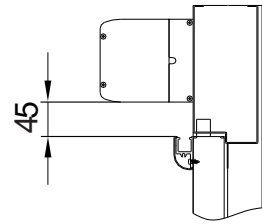
內拉式(右側)
Right Open



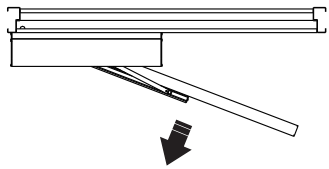
內拉式滑動槽按裝尺寸圖
The position of mounting



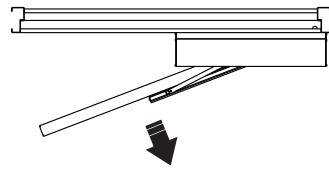
內拉式門機按裝尺寸圖
Mounting (Side View)



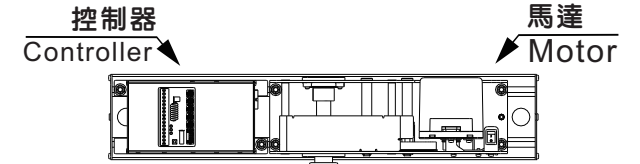
內拉式左側開門方向
Mounting
(eg. for Left Open, Top View)



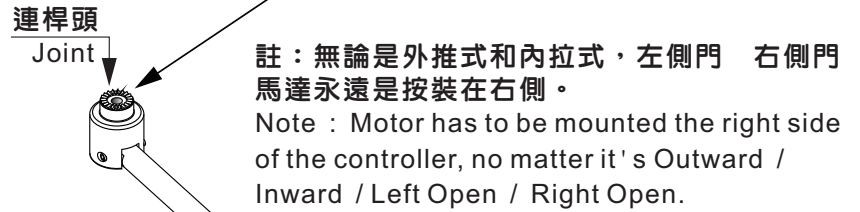
內拉式右側開門方向
Mounting
(eg. for Right Open, Top View)



內拉式按裝示意圖
Operator



連桿頭
Joint



內拉式滑槽示意圖
Inward Opening Pull Arm assembly

