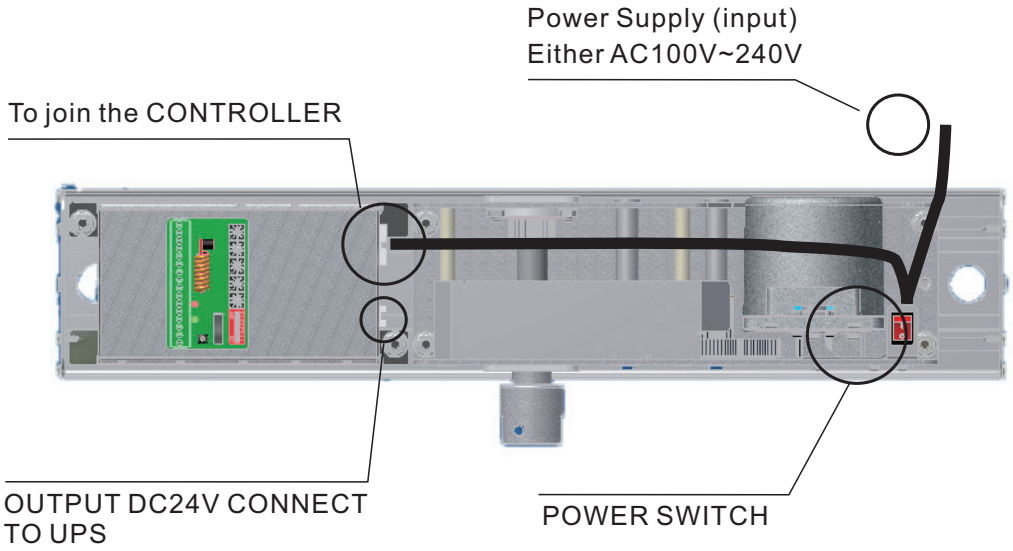
Automatic Door Systems

SW-2E

Swing Door

(EN16005)

OPERATION INSTRUCTION

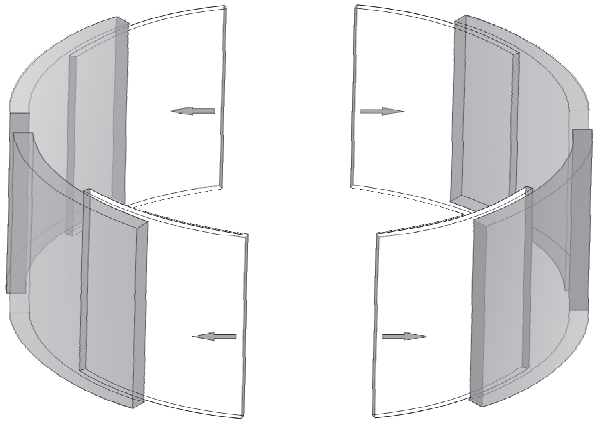


Warning

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.

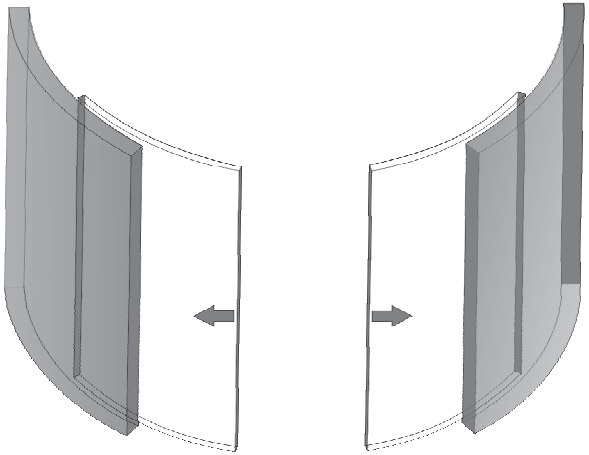
Our company has the following series of automatic door, pleasecontact with our distributors/representations

Round type door



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

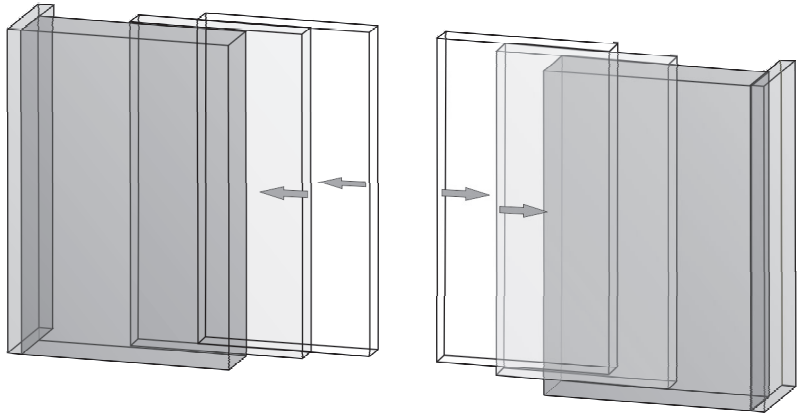
Curved Type Door



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

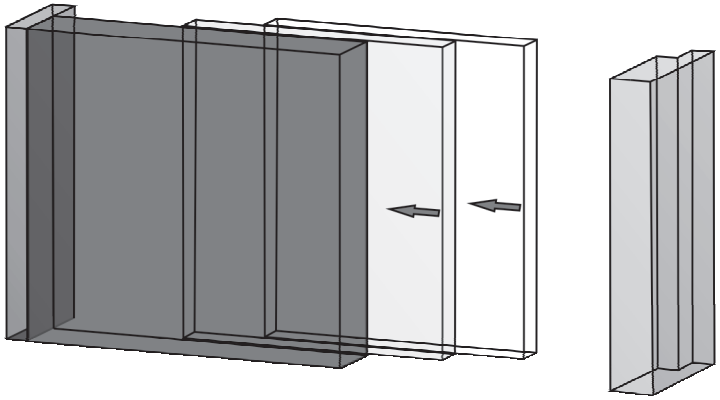
TELESCOPIC SLIDING DOOR

Telescopic 4-winged Sliding Doors.



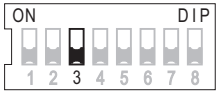
Installation: Please in accordance with the instruction of Telescopic 4-winged Sliding Doors.

Telescopic 2-winged Sliding Doors.



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

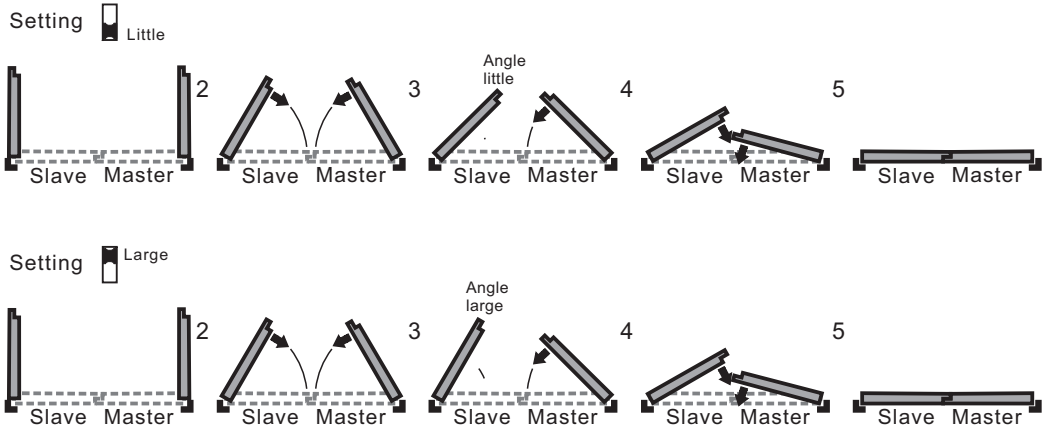
12 DOUBLE DOOR AND MASTER/SLAVE FUNCTION



DIP Switch I

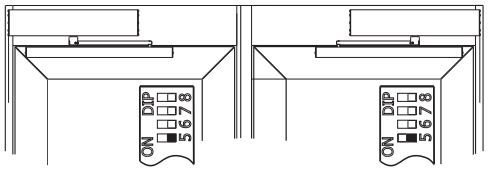
SLAVE postpone angle range

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.

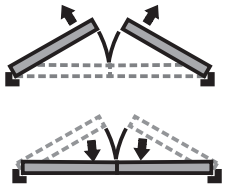


12 DOUBLE DOOR AND MASTER/SLAVE FUNCTION

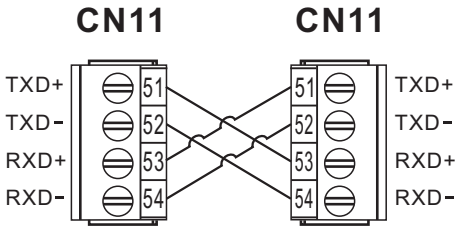
A. Double Door



Please set all door DIP Switch I No.5 Off.

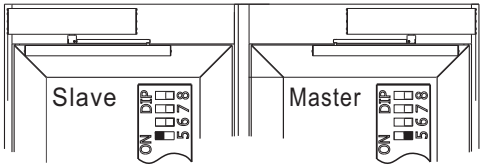


Connection



After connecting to terminals, yellow LED flashes to indicate connecting properly. The door leaves will open and close at the same time.

B. Double Door M/S



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)

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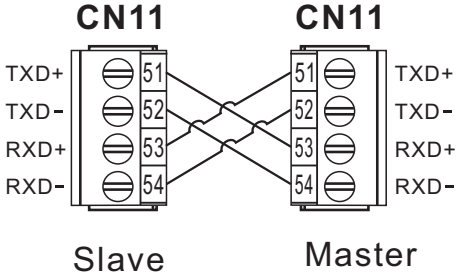
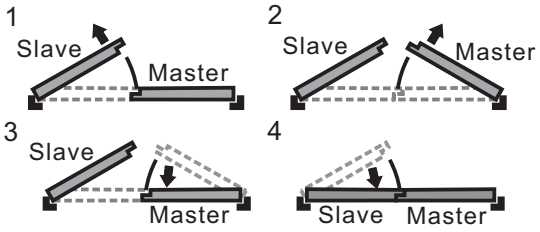
Connection



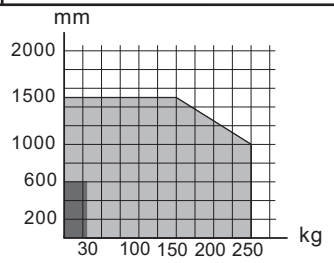
After connecting to terminals, yellow LED flashes to indicate connecting properly.



※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.

TABLE OF CONTENTS

1 TECHNICAL SPECIFICATIONS

TYPE	Outward	Inward
DOOR WEIGHT & WIDTH	Max. ● Min. ● 	
MOTOR	DC24V 120W BRUSHLESS DC MOTOR	
CONTROL	STANDARD MICRO-CONTROL	
POWER CONSUMPTION	120W	
VOTAGE	AC100V~240V	
ENVIRONMENTAL TEMPERATURE	-20℃ ~ +50℃	
VOLUME	55 decibel(max.)	
SPEED of OPENING 90 DEGREE	3~8 sec / 90°(max.)	
HOLD OPEN	0~20 sec. (Regulable)	
TRANSMISSION IMPORTANT CONDITION	Outward Arm assembly	Inward Arm assembly
OPENING DOOR RANGE	120°Max./90 (default)	
POWER EFFICIENCY	0.95 (In full load)	
TRACTION FORCE	2.5 kg	

11 CONNECTION - SAFETY

ENTRY SENSOR ACTIVATION

CN6			
13	14	15	16
24V	COM	COM	N.O
+	-	COM	N.O

HR50

EXIT SENSOR ACTIVATION

CN7			
17	18	19	20
24V	COM	COM	N.O
+	-	COM	N.O

HR50

PREMIER SWING ONDOOR SAFETY (NOT MONITORED)

CN2					
1	2	3	4	5	6
24V	COM	COM	ACT	TEST-	TEST+
POW	POW	COM	N.C	TEST-	TEST+
1	2	3	5	6	7

HOTRON SSS-5

CN5					
7	8	9	10	11	12
24V	COM	COM	ACT	TEST-	TEST+
POW	POW	COM	N.C	TEST-	TEST+
1	2	3	5	6	7

HOTRON SSS-5

OPEN FACE SAFETY (TOPSCAN)

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

CLOSE FACE SAFETY (TOPSCAN)

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

PREMIER SWING ONDOOR SAFETY (MONITORED)

CN2					
1	2	3	4	5	6
24V	COM	COM	ACT	TEST-	TEST+
POW	POW	COM	N.C	TEST-	TEST+
1	2	3	5	6	7

HOTRON SSS-5

CN5					
7	8	9	10	11	12
24V	COM	COM	ACT	TEST-	TEST+
POW	POW	COM	N.C	TEST-	TEST+
1	2	3	5	6	7

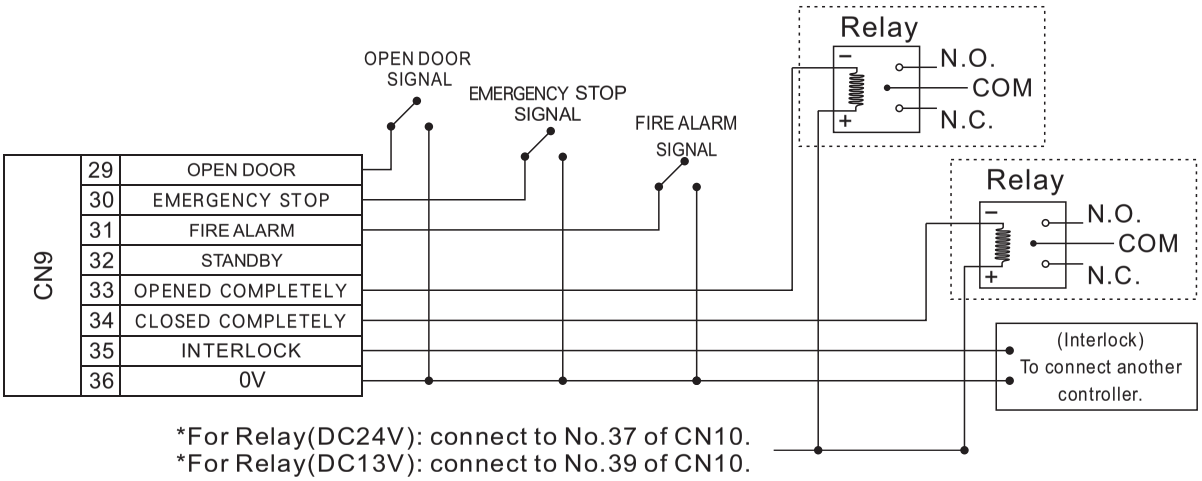
HOTRON SSS-5

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"



*For Relay(DC24V): connect to No.37 of CN10.
*For Relay(DC13V): connect to No.39 of CN10.

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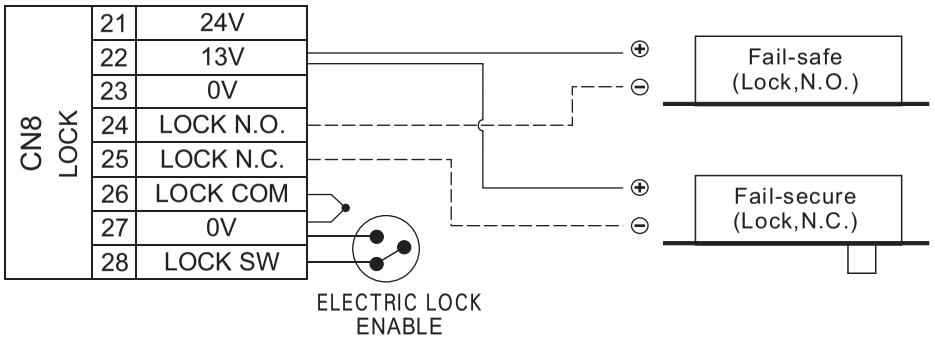
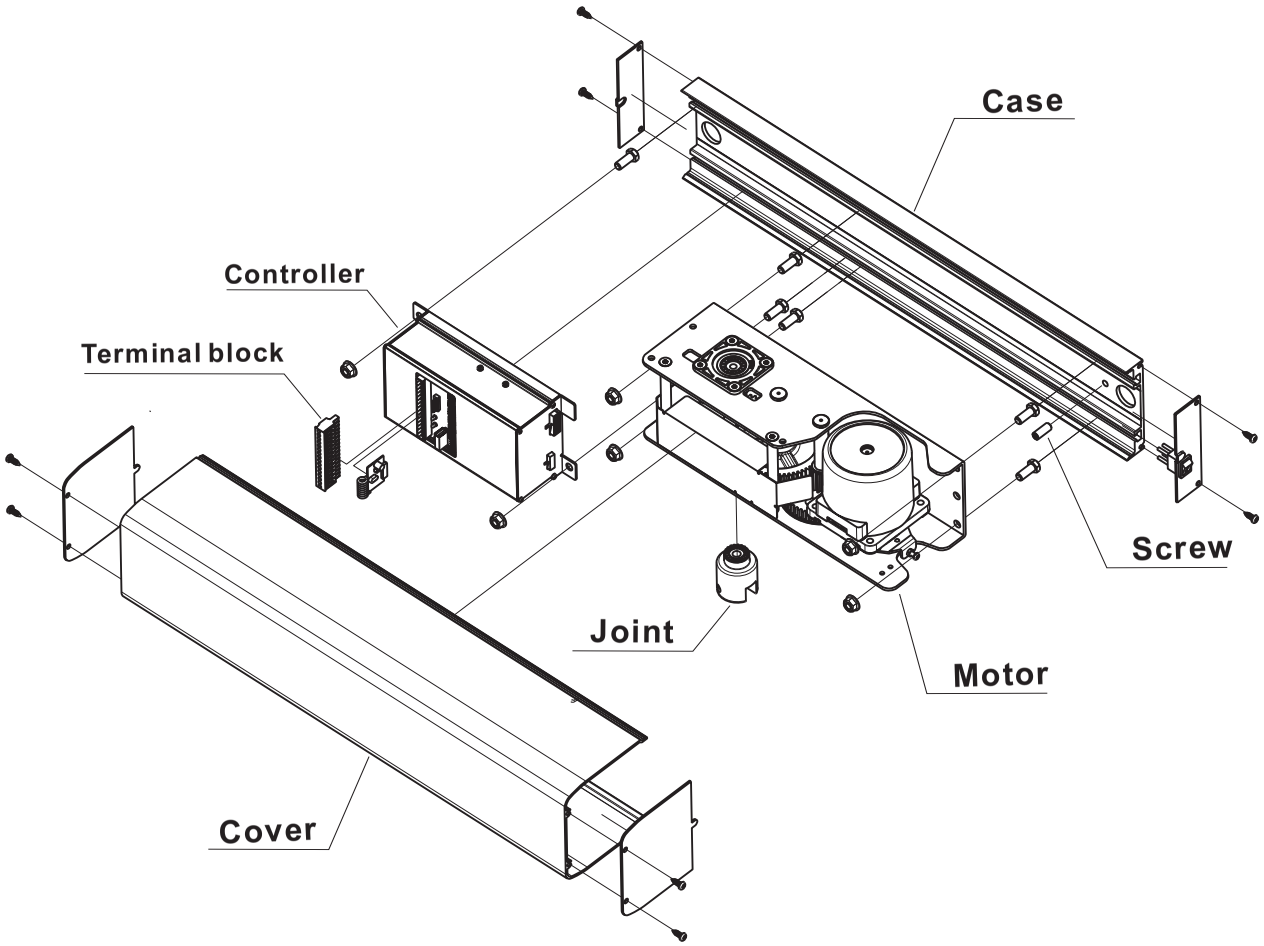
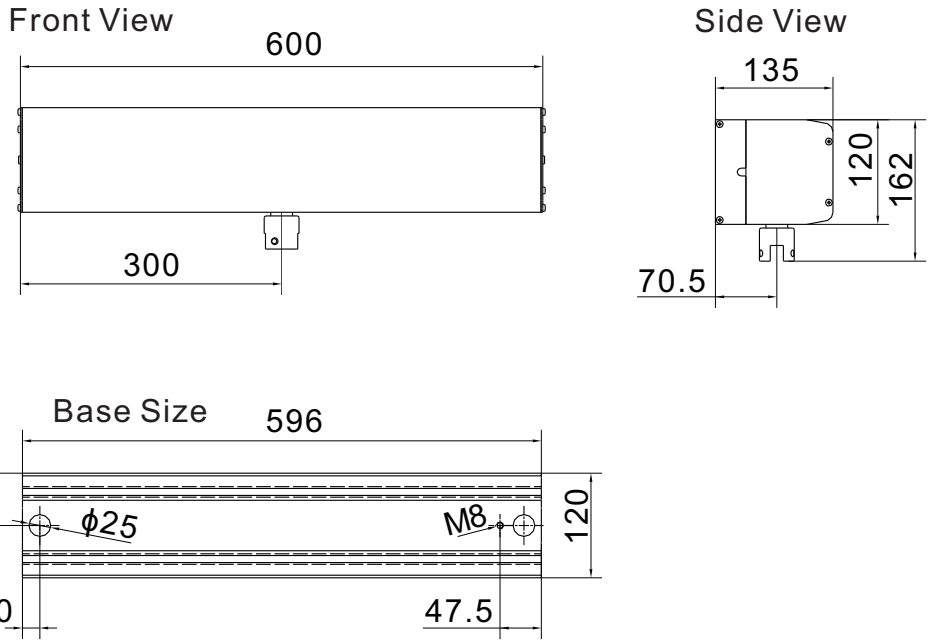
⚠ Warning
*Relay it should be with built in diode.
*Relay Suggested model: OMRON MY2N-D2-J (It's arranged by customers)



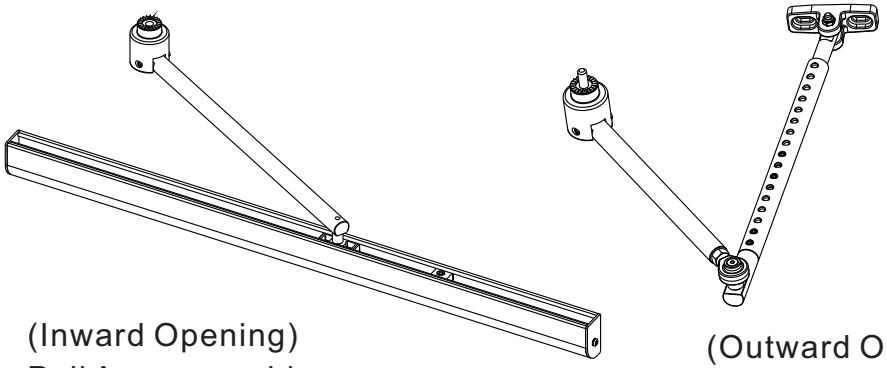


2

3 OPERATOR (SECTION)



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

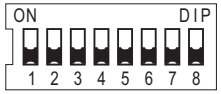


(Inward Opening)
Pull Arm assembly

(Outward Opening)
Push Arm assembly

9 ADJUST BOARD INSTRUCTION

DIP Switch II



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

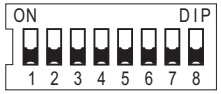
5 Closing Face Safety Test
No Yes

6 Entry Sensor
N.O N.C

7 Exit Sensor
N.O N.C

8 Emergency stop
N.O N.C

DIP Switch III



1 Open
N.O N.C

2 Fire Alarm
N.O N.C

3 Fire Alarm Motion
Open Close

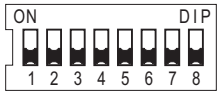
4 Wind Pressure Resistance (When Door Open)
Off On

5 Wind Pressure Resistance (When Door Close)
Off On

6 ~ 8 Standby

9 ADJUST BOARD INSTRUCTION

DIP Switch I



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.

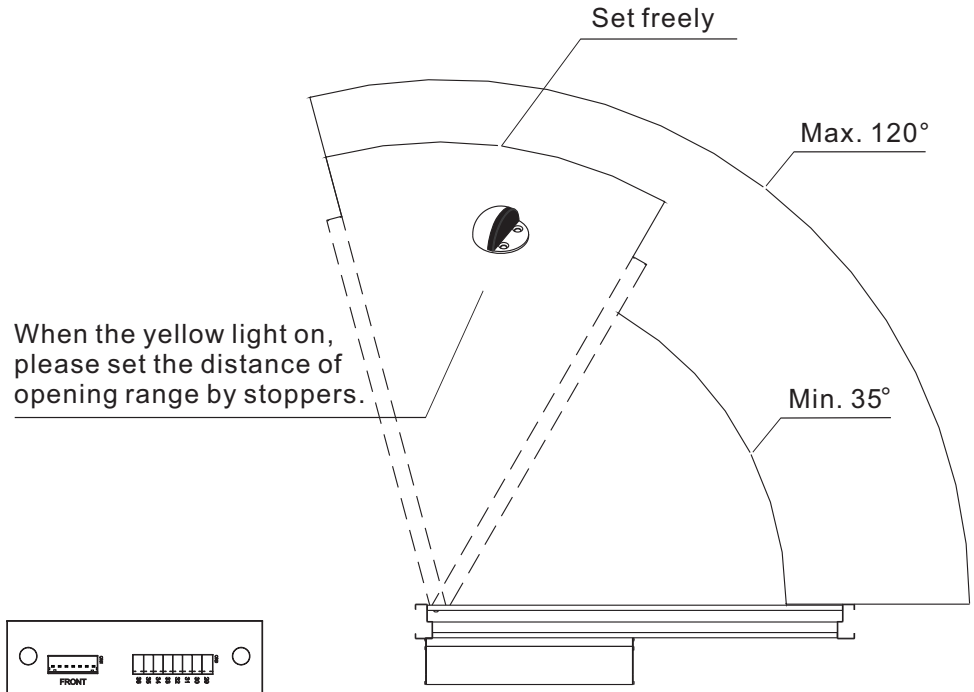
8 Reverse Switch:

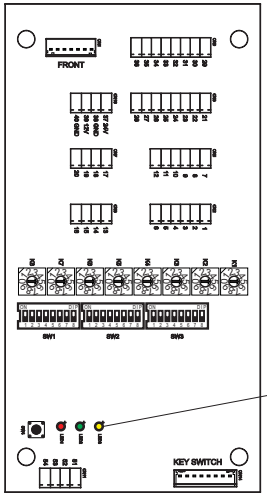
in order to control opening and closing direction of the Door-Leaf after power resumes.

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.

4 OPENING DISTANCE SETTING





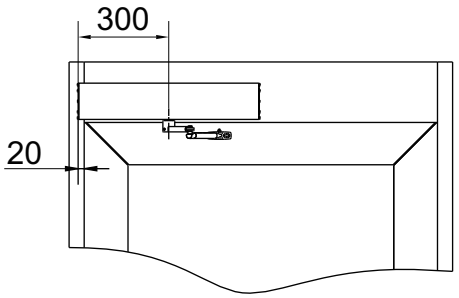
Yellow Opening Distance Setting:

The yellow light on then start set door opening range.
P.S. The max. Of the opening range is 120°

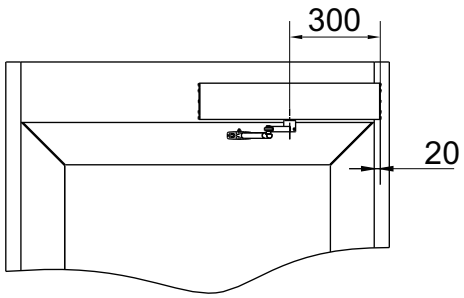
When power on the auto start opening range setting mode.

5 (OUTWARD OPENING) PUSH ARM ASSEMBLY MOUNTING

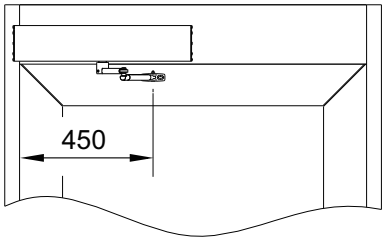
Left Open



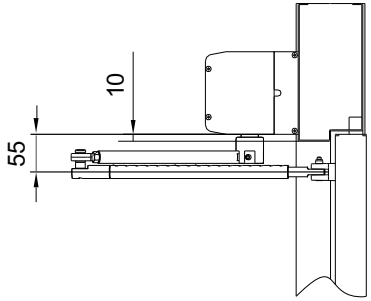
Right Open



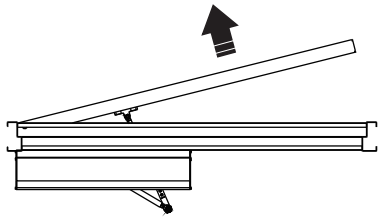
The position of mounting



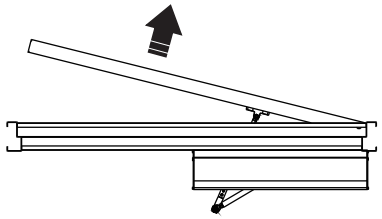
Mounting (Side View)



Mounting
(eg.for left Open,Top View)



Mounting
(eg.for Right Open,Top View)



9 ADJUST BOARD INSTRUCTION

K1 Opening Speed

Adjust the OPENING SPEED. Higher number, faster speed.
CAUTION: please adjust the number one by one from **low** to **high.**

K2 Closing Speed

Adjust the CLOSING SPEED. Higher number, faster speed.
CAUTION: please adjust the number one by one from **low** to **high**.

K3 Slowing Speed of Opening Door

Adjust the SLOWING SPEED OF OPENING DOOR. Higher number, greater strength.
CAUTION: Please adjust the number one by one from **high** to **low**.

K4 Slowing Speed of Closing Door

Adjust the SLOWING SPEED OF CLOSING DOOR. Higher number, greater strength.
CAUTION: Please adjust the number one by one from **high** to **low**.

K5 Opening hold time

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 Sensitivity of Collision Detection

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**.

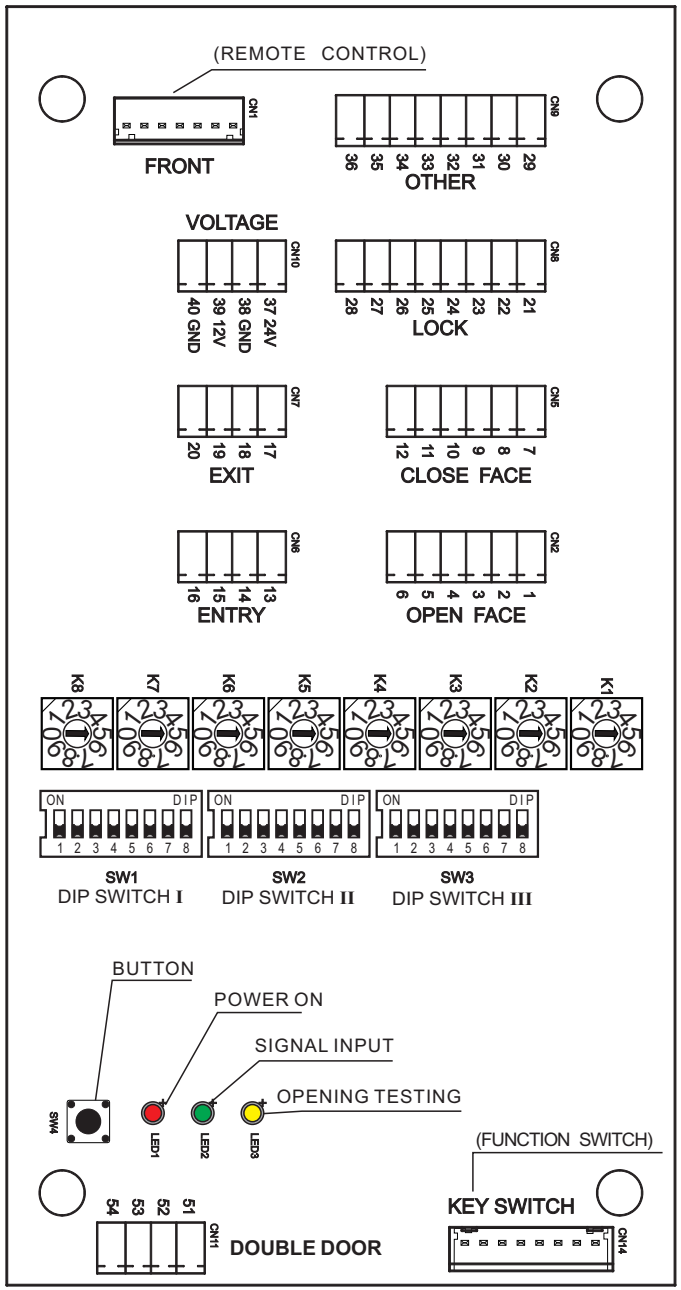
K7 Brake Power

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

K8 "Non-detect angle" for safety sensor

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

9 ADJUST BOARD INSTRUCTION



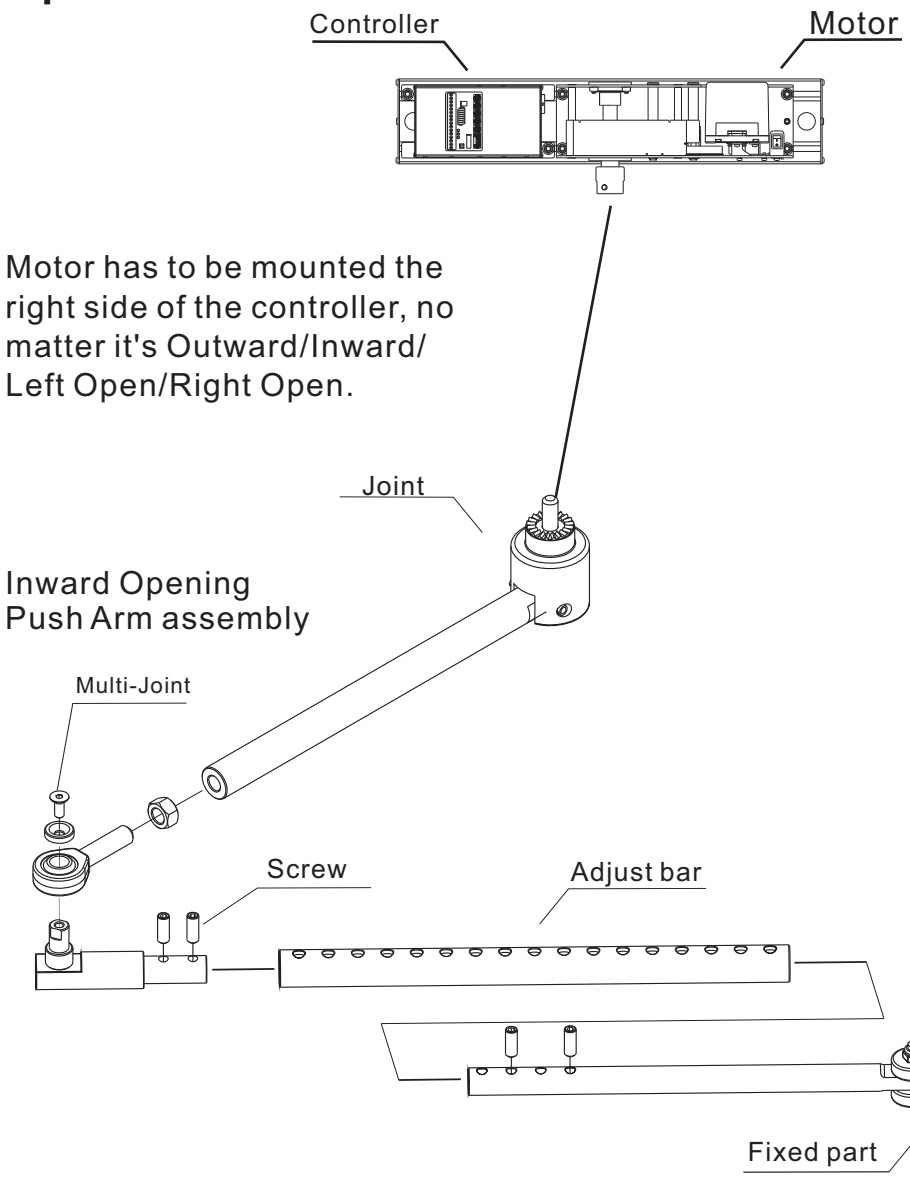
Yellow LED : Opening Testing

Green LED : Signal input.

Red LED : Power on.

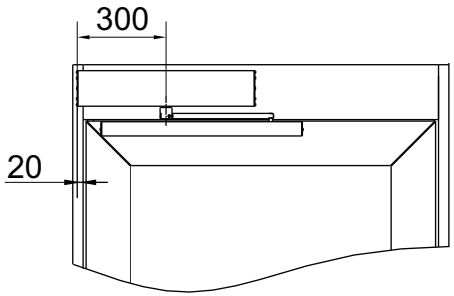
6 (OUTWARD OPENING) PUSH ARM ASSEMBLY ILLUSTRATION

Operator

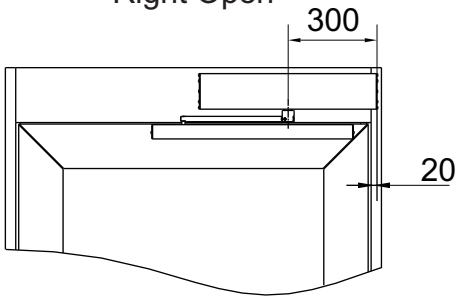


7 (INWARD OPENING) PULL ARM ASSEMBLY MOUNTING

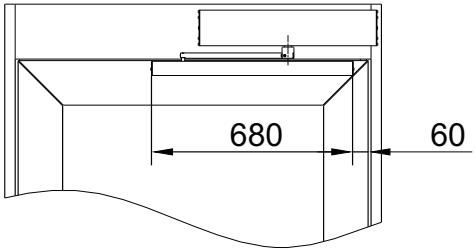
Left Open



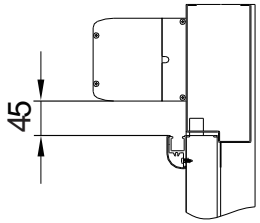
Right Open



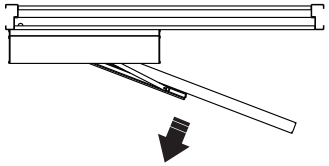
The position of mounting



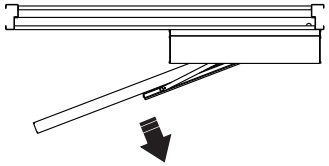
Mounting (Side View)



Mounting
(eg.for Left Open,Top View)



Mounting
(eg.for Right Open,Top View)



8 (INWARD OPENING) PULL ARM ASSEMBLY ILLUSTRATION

Operator