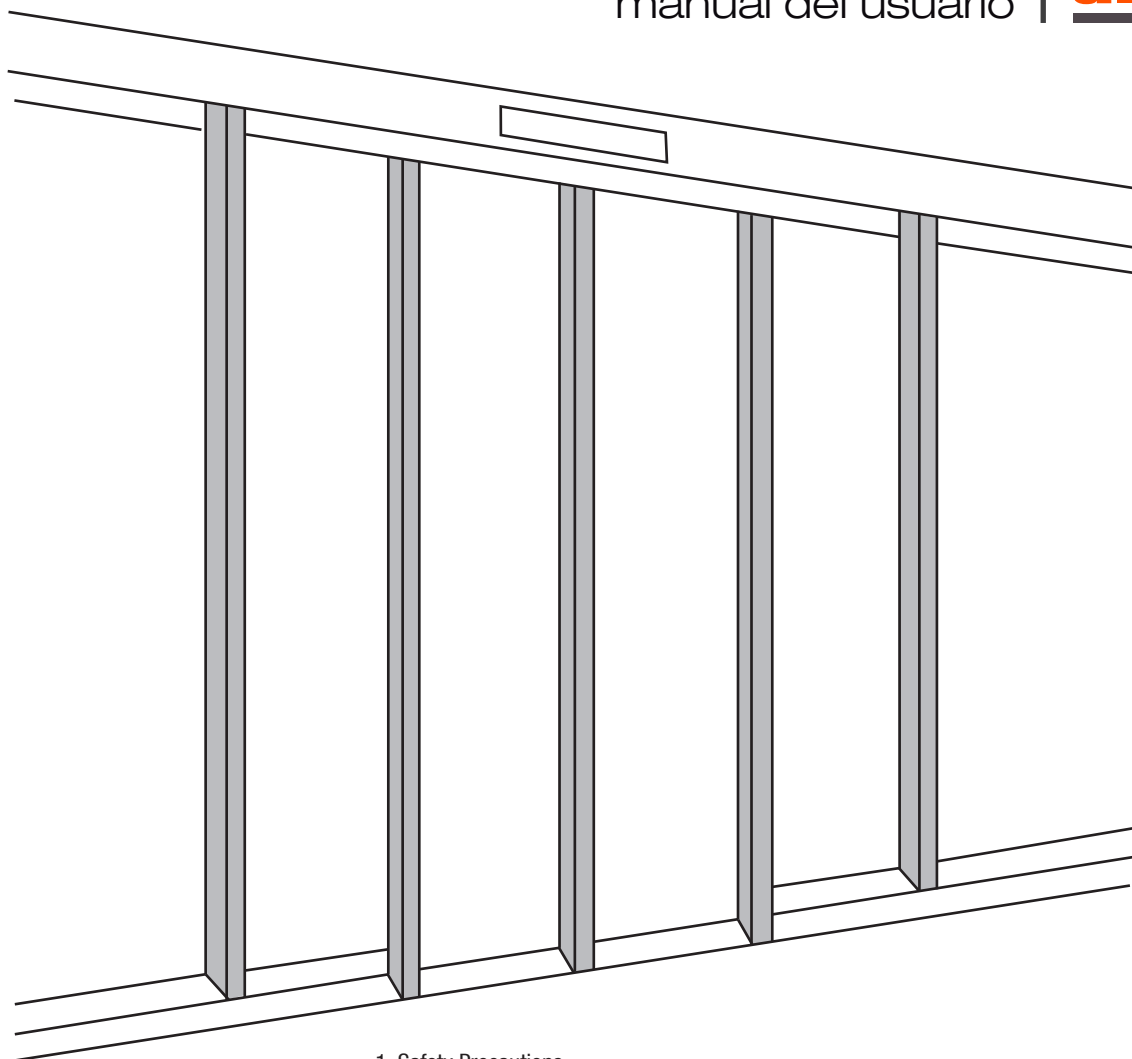


SPRINT / TELESCOPICA

manual del usuario



1. Safety Precautions
2. Components of mechanism
3. Sectional view of track and cover
4. Components List
5. Installation process
6. Product features and technical specifications
7. Installation of hanger
8. Installation of hanger and stopper
9. Installation and adjustment of door leaf
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12. Installation of belt fix plate
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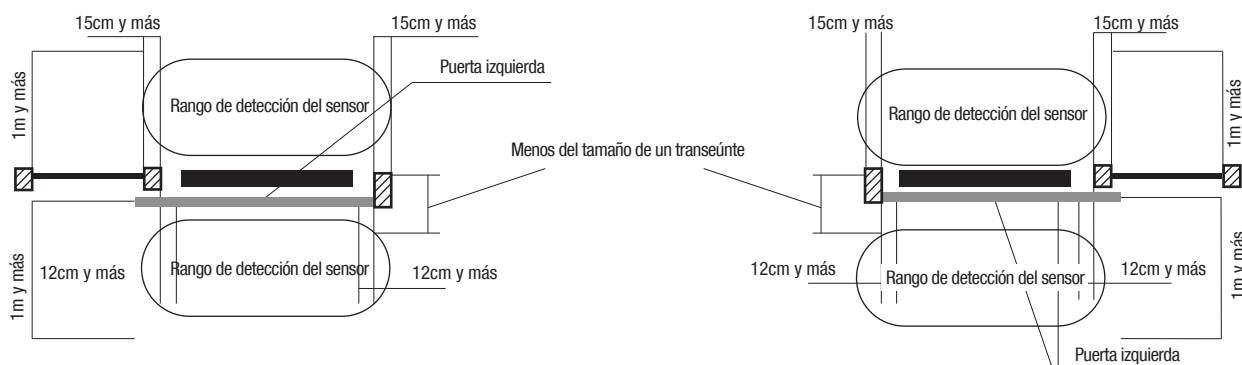
RECAUCIONES DE SEGURIDAD

Los contenidos y las categorías que un usuario debe cumplir se presentan y describen a continuación:

- ⚠ **ADVERTENCIA** La mala operación puede causar lesiones incluso la muerte al operador.
- ⚠ **PRECAUCIÓN** El mal funcionamiento puede causar lesiones o pérdidas físicas al instalador y/o usuario.
- 🚫 Esto significa que esta PROHIBIDO.
- ❗ Esto significa TAREAS OBLIGATORIOS.

⚠ ADVERTENCIA

- ❗ La instalación y el ajuste deben realizarse de acuerdo con el Manual de instalación. El descuido en la instalación y el ajuste provocará accidentes tales como incendios, descargas eléctricas o caídas.
- ❗ Durante la instalación, nunca permita que los peatones pasen por la puerta automática o se aproximen al lugar de trabajo. Debido a que cualquier herramienta o pieza que se caiga durante la instalación causará lesiones a los peatones.
- 🚫 Nunca modifique las piezas, de lo contrario se producirán incendios, descargas eléctricas o caídas.
- 🚫 Nunca use la energía más allá del voltaje o la frecuencia estipulada, de lo contrario se producirán descargas eléctricas o incendios.
- ❗ El sensor debe configurarse y ajustarse para asegurarse de que el área de apertura de la puerta esté comprendido dentro del rango de detección del sensor, sin ningún área ciega. Si el rango de detección es demasiado pequeño, o tiene un área ciega, los peatones serán colisionados o apretados por la puerta, causando lesiones.
- ❗ Coloque la fotocélula para asegurar el rango de detección del paso peatonal, esto evitará que la hoja de la puerta cause adños a los transeuntes.



⚠ PRECAUCIÓN

- 🚫 Nunca use la puerta en un lugar sujeto a la humedad, vibración o gases corrosivos, de lo contrario causará accidentes tales como incendios, descargas eléctricas o caídas.
- 🚫 Asegúrese de que esté disponible un espacio de más de 30mm cuando se abra la puerta; de lo contrario, la hoja de la puerta y el marco de la misma, le apretarán los dedos, causando lesiones.
- 🚫 Nunca corte el suministro eléctrico cuando la puerta esté en funcionamiento, de lo contrario podrá causar lesiones a los peatones.
- ❗ Por favor use un stickers en las hojas de la puerta de vidrio. Para los transeuntes con visión reducida.
- 🚫 Nunca instale un dispositivo eléctrico con una capacidad MAYOR a 24VCC y 300mA en el controlador, de lo contrario provocará un incendio.

OTRAS PRECAUCIONES

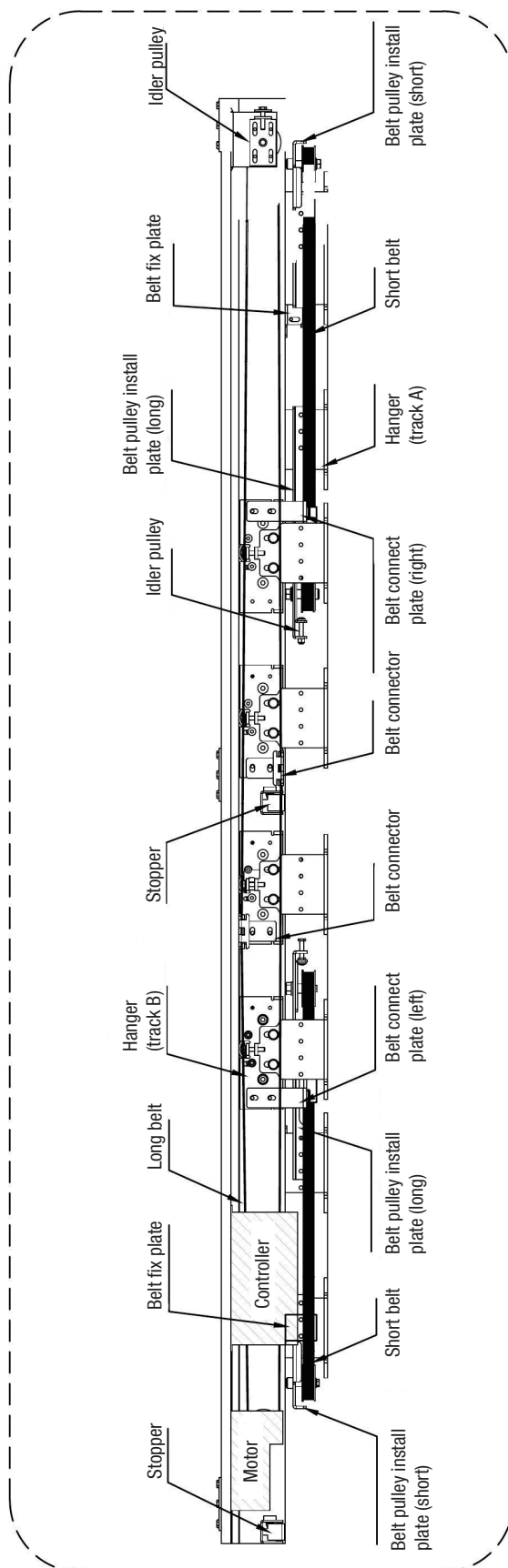
- Nunca use una hoja de la puerta que exceda el peso especificado, de lo contrario causará fallas.
- Para la selección de baterías.
 - Úselas después de cargarlas durante 24 horas.
 - La vida útil de las baterías es de 2 a 3 años a una temperatura ambiente de 0°C a 40°C. La temperatura excesiva acortará la vida útil de las baterías.
 - Si después de cargar 24 horas la batería sigue sin funcionar, es por que su vida útil ha caducado. Reemplácela inmediatamente.
 - Verifique las baterías cada medio año.
- Para la selección de cerradura electrónica.

Nunca la use en un ambiente que exceda una temperatura ambiente de 0°C -40°C, de lo contrario causará mal funcionamiento.

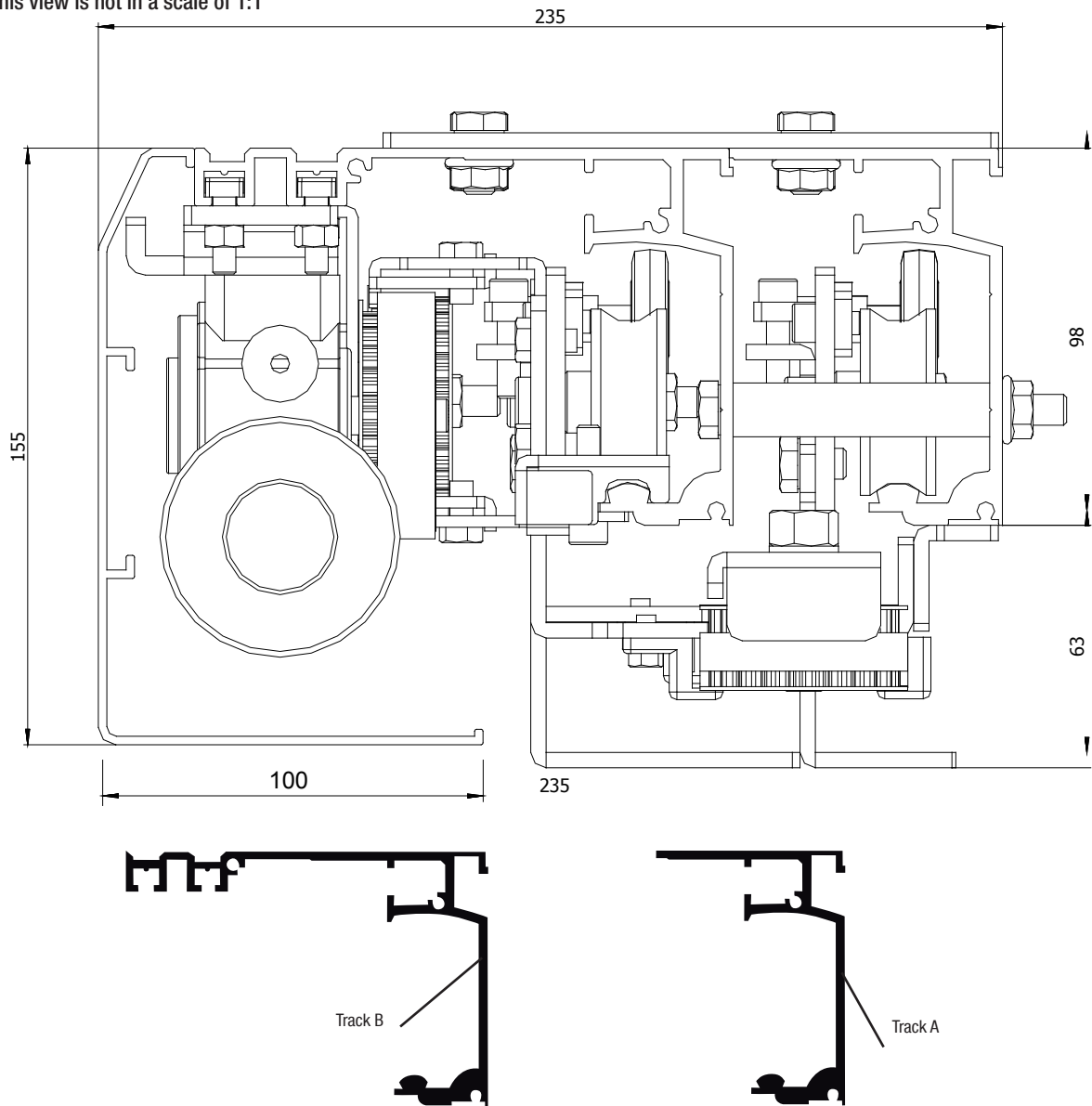
- Usando nuestra marca de cerradura electrónica, y soportes de instalación especiales. Si no usa nuestra cerradura, asegúrese de que la calidad de la cerradura, o la cerradura electrónica defectuosa dañará.

2. Components of mechanism

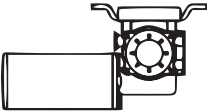

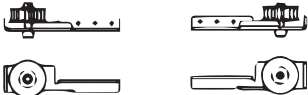

Name of components


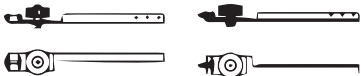

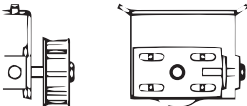
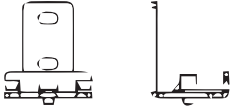
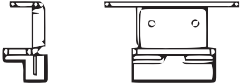

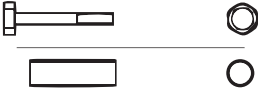


Sectional view
Caution: this view is not in a scale of 1:1



Component list

Descripción	Diagrama esquemático	Cantidad
Motor		1
Controlador		1
Belt pulley install plate (short)		2 (derecho y izquierda)
Stopper		

Hanger		8
Belt pulley install plate (long)		2 (derecho y izquierda)
Correa		1 (20mts)
Idler pulley		1
Belt connector		2
Belt fix plate		2
Belt conect plate		2 (derecho y izquierda)
Screw		3 Set
Attachment	Manual de instalación	1 Set

Proceso de Installation

Preparación
 ↓
 Foudation work
 ↓
 Main frame installation
 ↓
 Power supply wiring
 ↓
INSTALACIÓN PUERTA AUTOMÁTICA
 ↓
 Stallation of inner door hanger / door leaft / belt fix plate
 ↓
INSTALLATION OF TRACK B
 ↓
 Stallation of outer door hanger/door leaf / belt connector
 ↓
 Stallation of belt pulley connect plate / long belt
 ↓
 Installation of motor / controller / idler pulley
 ↓
 Connection of electric wire
 ↓
 Inspection after installation
 ↓
 Adjustment of operation
 ↓
 Inspection after adjustment of operatiopn
 ↓
 Description of operation to user

Product features

Microprocessor control technology and advanced mechanical manufacture.

Self-learning when power on, this function is selectable by user.

Manual adjustment, easy to adjust.

Opening and closing smoothly, low noise.

Brushless DC motor, long working life and low noise (less than 40dp)

Inter-lock: support multiple access control systems. Bounce after meeting resistance when close or open.

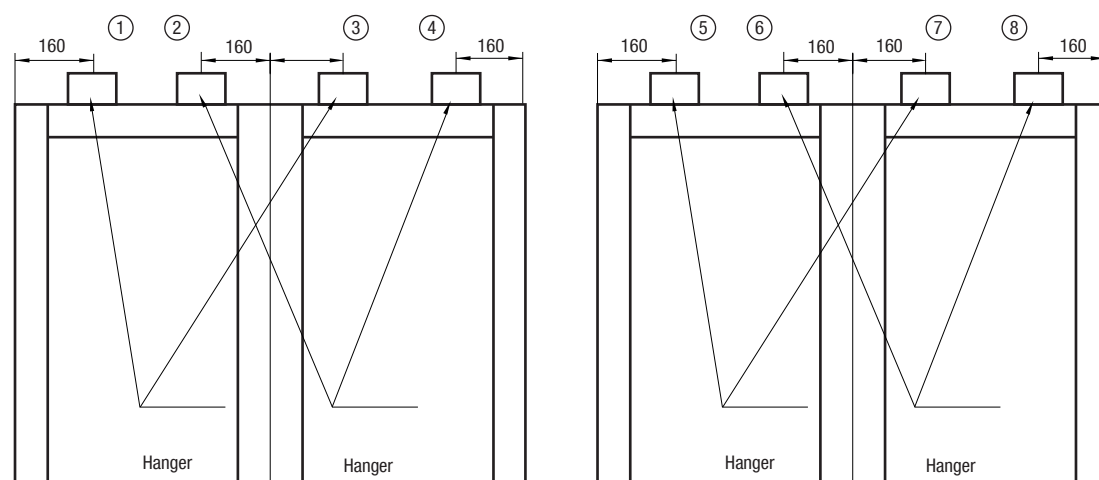
Humanized control function for electronic lock.

Especificaciones técnicas

Specifications	Telescopic door
Door leaf mode	Double-opening
Door leaf weight	Max 4*120kg
Door leaf width	DW=600-1500mm
Voltage	AC 90-250V, 50-60Hz
Opening speed	10-55cm/s (Adjustable)
Closing speed	10-55cm/s (Adjustable)
Opening time	0-60second (Adjustable)
Manual open force	<40N <50N
Motor	24V 100W 2300rpm brushless DC motor
Operating temperature	10°C ~ +70°C

Installation of hanger

Hanger installation

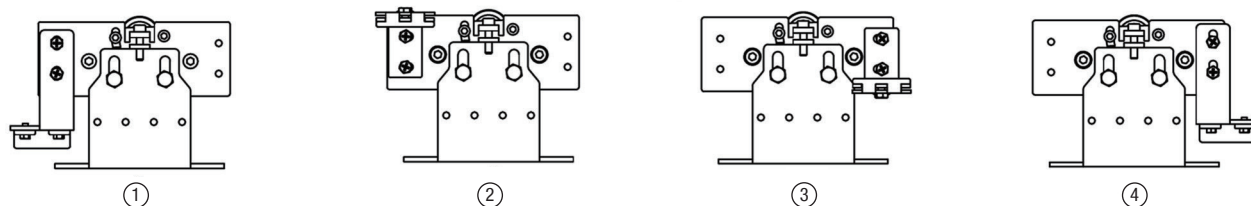


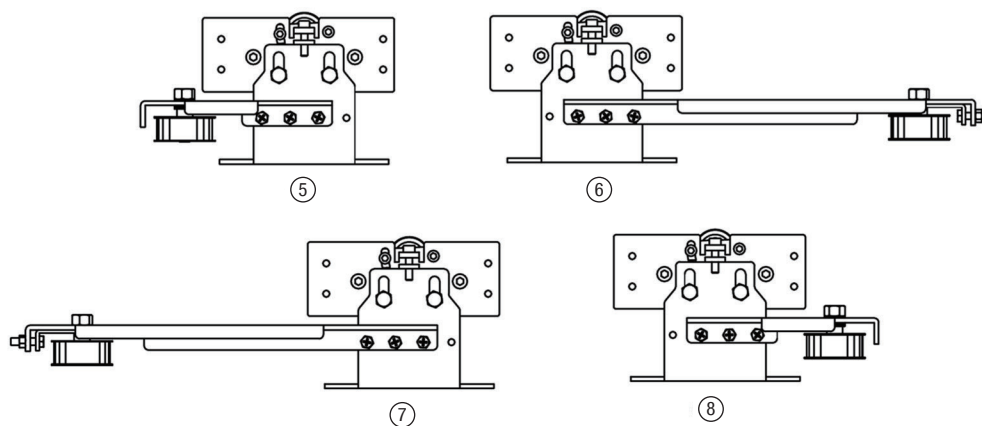
Caution

(1) In installation, the pulley center of the hanger should be in full parallel with the door leaf. if not, the service life of the pulley will be shortened.

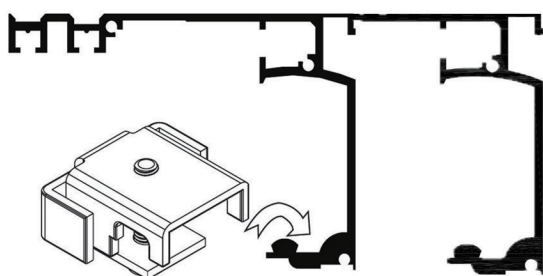
(2) Please don't collide track and its inner parts.

Otherwise, it will cause failure to parts, shorter service life to pulley and noise, etc





Installation of stopper

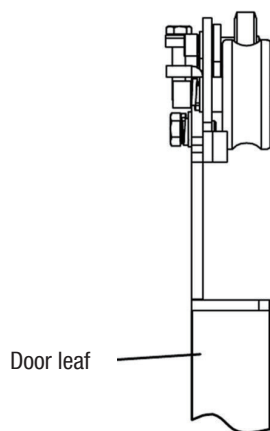
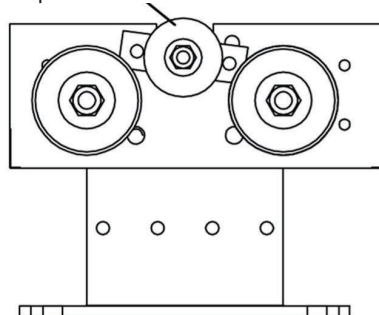


1. Loosen the mounting screw of the stopper.
 2. Insert the stopper into the track.
 3. Adjust the open and close position, and confirm the stoppers position.
 4. The mounting bolts are tightened firmly with a socket head wrench. (M6)
- Caution: please make sure to tighten the bolt.

Installation of hanger

1. Fix hanger to door leaf specific location refer to the graph.
 2. Loosen anti-drop wheel on the hanger, to make the anti-drop wheel at the lowest position.
 3. Put hanger and door leaf on the track.
 4. Tighten two fixed screw on the anti-drop wheel, and adjust to the appropriate location (the gap between the anti-drop wheel and the track keep 0.5mm)
- (Caution: When installing the same set of hanger, be sure to confirm that the two are in a straight line and the doors and roller are parallel)

Anti-drop device



Door leaf

Installation and adjustment of door leaves

Installation of track A door leaf

As is shown in the left figure, if the door leaf can't be installed horizontally, it can be tilted for installation

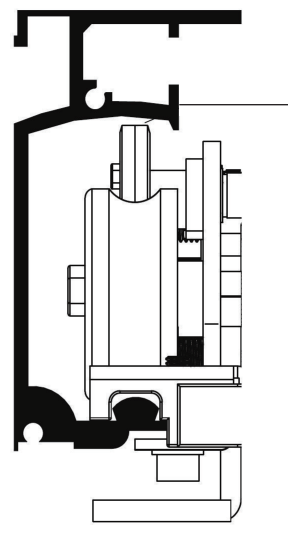
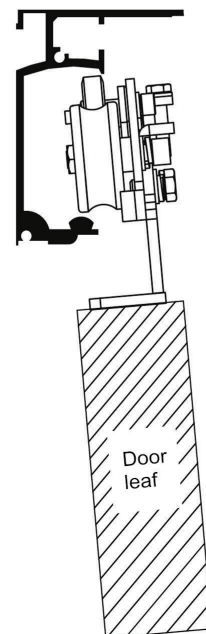
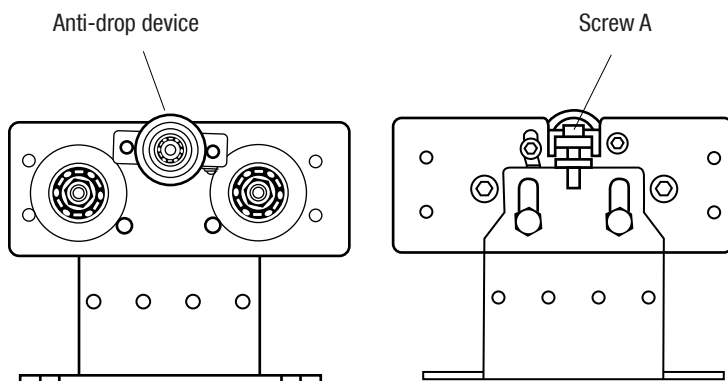
- 1- Loosen anti-drop wheel to make the anti-drop wheel at the lowest position.
- 2- Connect door leaf with hanger
- 3- Door leaf is tilted by 5° - 10° to make the hanger can be smoothly embedded within the track.
- 4- Check the gap at the top of the track at 0.5mm (according to the actual adjusted) then tighten the screw on the anti-drop Wheel.
- 5- Confirm the friction during the operation.

If the door leaf is hard to move, the following items should be checked to solve the problem:

- (1) The hanger is mounted vertically on the door leaf.
- (2) Any friction between the anti-drop wheel and the top of the track
- (3) Any friction between the door leaf and frame.
- (4) Any friction between the hanger and anti-drop device, any friction between the hanger and the rail.

the gap between anti-drop wheel and the top of the track keep 0.5mm (according to the actual adjustment)

Door leaf

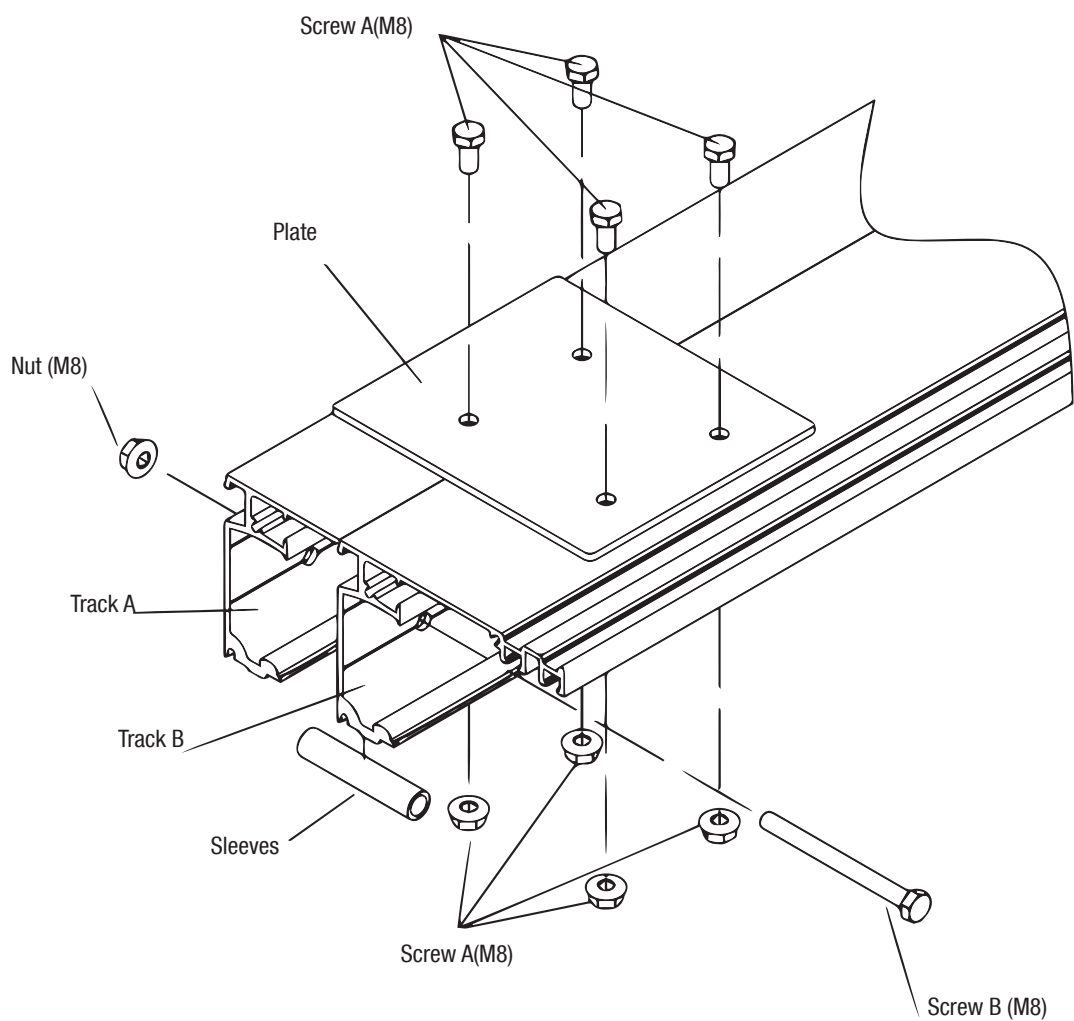


The gap between anti-drop wheel and the top of the track keep 0.5mm (according to the actual adjustment)

Install of track A and track B

1. place two track according to figure (pay attention keep both side in a straight line)
2. Fix plate on the top of track wit screw
3. Put Sleeves between two track, fix screw B and tighten nut.

Repeat from step 1 to step 3 at the middle of track & another end of track



7. Installation and adjustment af door leaves

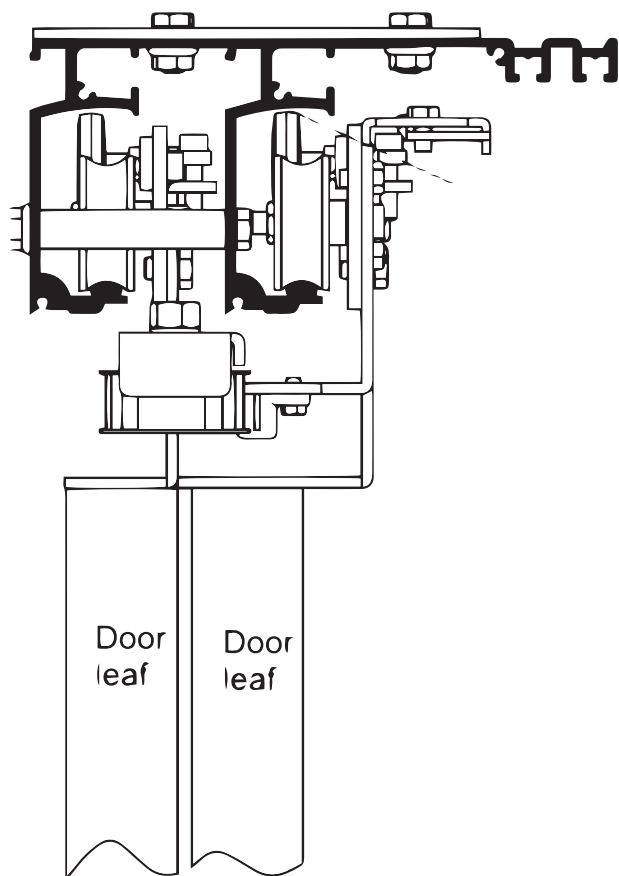
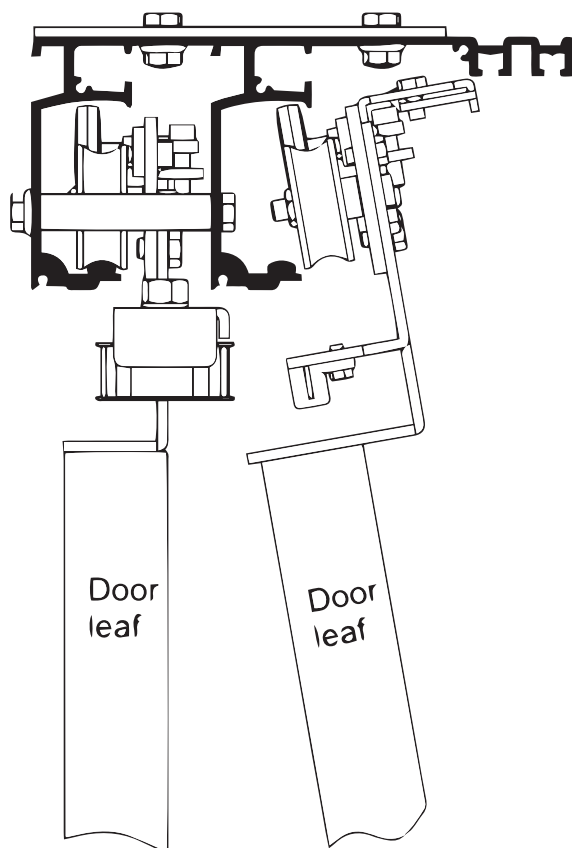
Installation of track A door leaf

As is shown in the left figure, if the door leaf can't be installed horizontally, it can be tilted for installation.

- 1- Lossen anti-drop wheel to make the anti-drop wheel at the lowest position.
- 2- Connect door leaf with hanger.
- 3- Door leaft is tilted by 5°-10° to make the hanger can be smoothly embedded within the track
- 4- Check the gap at the top of the track at 0.5mm (according to thr actual adjustment), the tighten the scew on the anti-drop Wheel.
- 5- Confirm the friction during the operation.

If the door leaf is hard move, the following items should be checked to solve the problem:

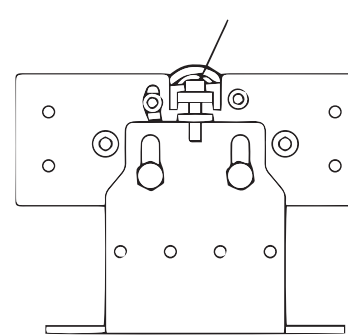
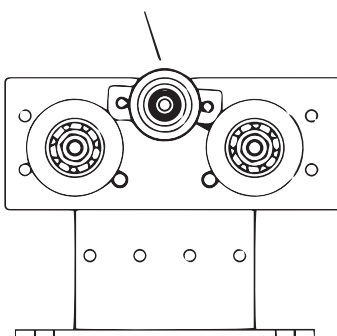
- 1) The hanger is mounted vertically on the door leaf.
- 2) Any friction between the anti-drop wheel and the top of the track.
- 3) Any friction between the door leaf and frame.
- 4) Any friction between the hanger and anti-drop device, any friction between tha hanger and the rail.



The gap between anti-drop wheel and the top of the track keep 0.5mm (according to the actual adjustment) //

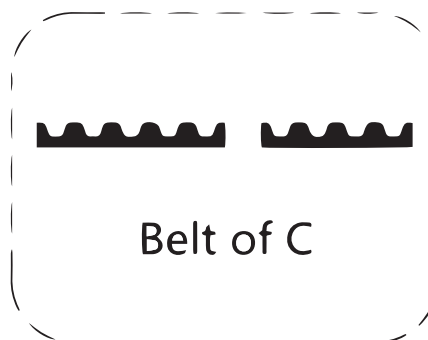
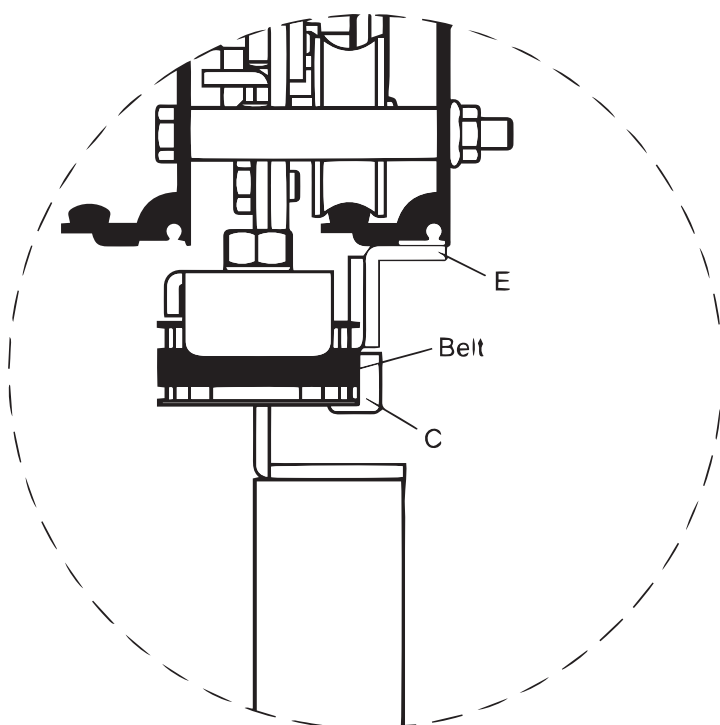
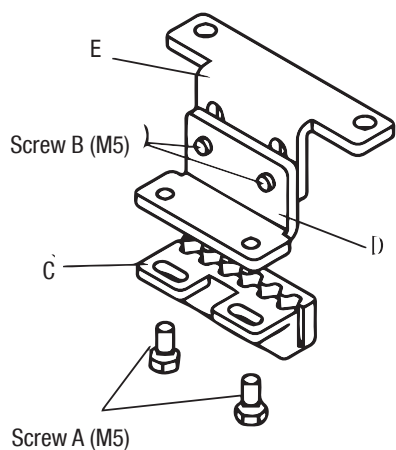
Anti-drop device //

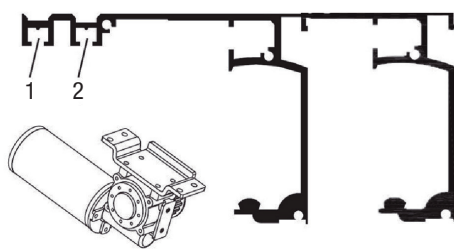
Sreew A //



Installation of belt fix plate

1. Remove the screw A, take off the C.
2. Cut the belt according to the belt cutting.
3. Hang belt to belt wheel of each side.
4. Adjust the short belt tension with reference to the adjustment of the belt tension.
5. Tighten screw A, make the C and B fixed together.
6. Put the E as shown in the figure, keep belt horizontally.
7. Fix The E onto track (Attention: The position of belt install plate should not affect door operation)

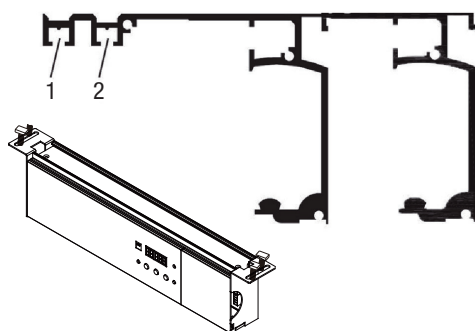




Installation of motor

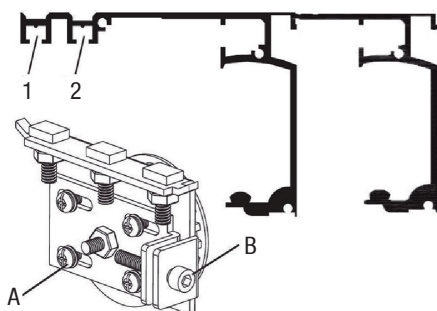
1. Put respectively four square screws in grooves number 1 and 2 before installing the motor.
2. According to the graphical position fasten the motor on the track by four square screw. Then put spring washer and tighten mounting nuts.

Caution: Driving wheel on the motor must deflect towards the inside of the track.



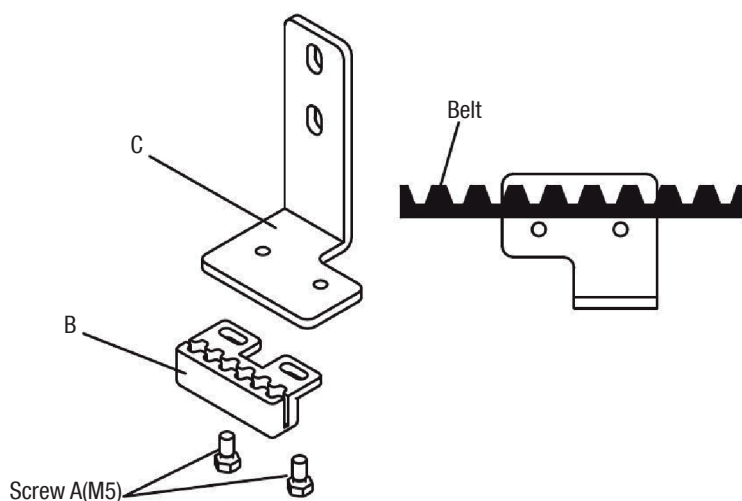
Installation of controller

1. Put respectively four square screws in grooves number 1 and 2 before installing the controller.
2. Put 4 nuts on to controller, move the controller to the correct position and tight the bolt.



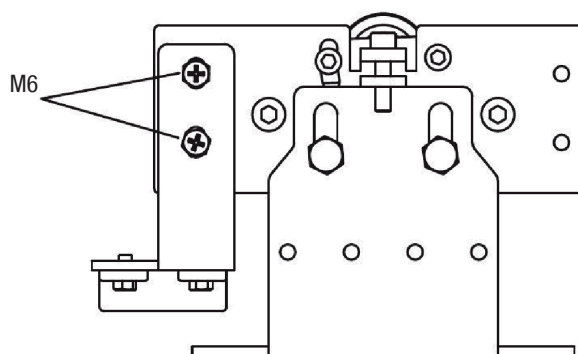
Installation of idler pulley

1. Put three square screws in groove number 2 before installing the idler pulley. (If place in groove number 1 groove, the driving wheels on the pulley and motor are not in a straight line, which will cause wear and distortion for belt, and even cause the belt fall of.)
2. Connect the pulley main body with three square screws. Place spring washers and slightly tighten nuts.
3. Losen four screws like A and socket head screw B.
4. Plase the belt on the driving wheels af the motor and the pulley. Adjust the position of the pulley's three square screws on the track, then tighten.

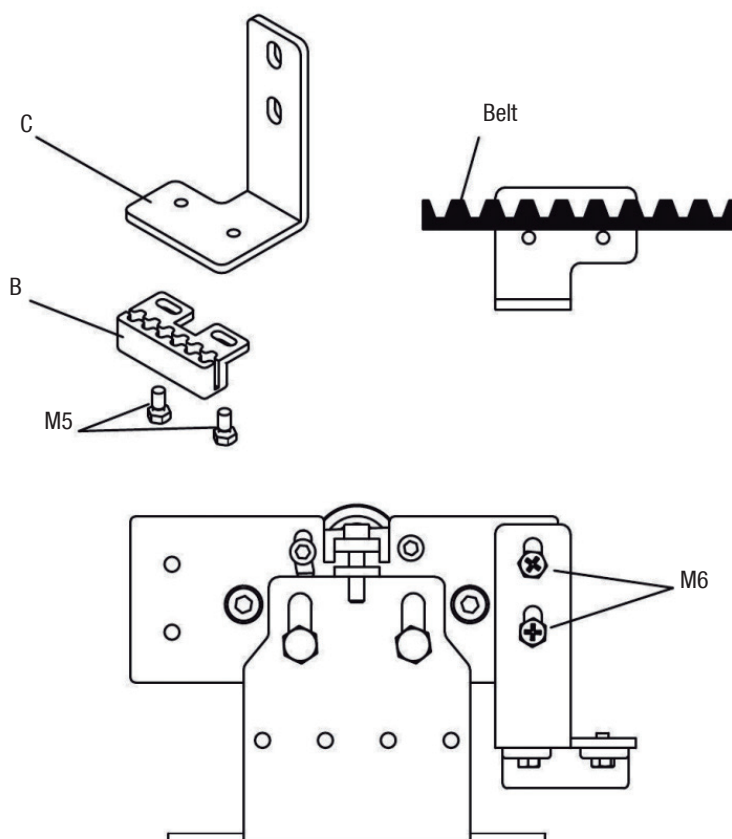


Installation of belt connect plate A

1. Loosen the screw A and remove The B.
2. Move two outer door leaf to closed position.
3. Adjust position of inner door leaf, make the overlap distance of inner door and outer door among 3-5cm (at same side)
4. Belt let into B according to the position of C.
5. Fix B to C by tighten screw A.



Installation of belt connect plate B



Belt installation of double opening

Installation of belt connector A (1-6)

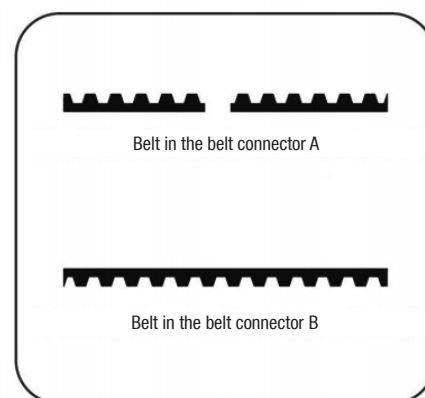
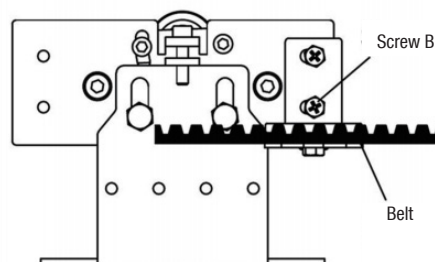
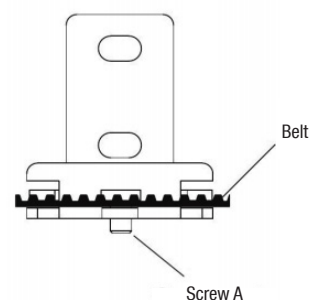
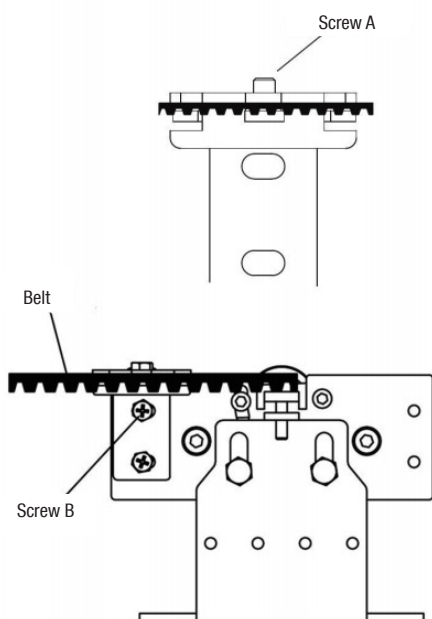
- 1- Remove the screw A and loosen the belt connector A.
- 2- Cut the belt according to the belt cutting table.
- 3- Both ends of the belt are put into the fastening part from the center of the fastening part.
- 4- Fix the fastening part to the belt connector part.
- 5- Hang the belt to the belt wheel on the side of the motor, then hang up to the pulley.
- 6- Tighten screw B and fix the belt connector A to the hanger.
- 7- Adjust the belt tension with reference to the adjustment of the belt tension.
- 8- Make the two doors really in the closed position.
- 9- Remove the screw A and loosen the belt connector B.

Installation of belt connector A (7-11)

Screw A

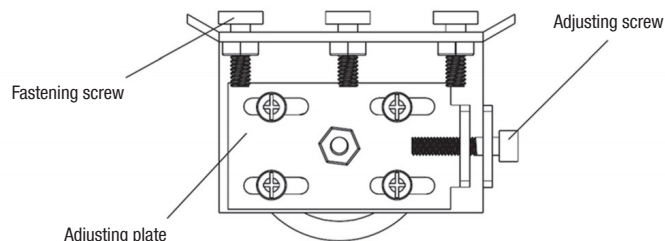
Belt

Screw B



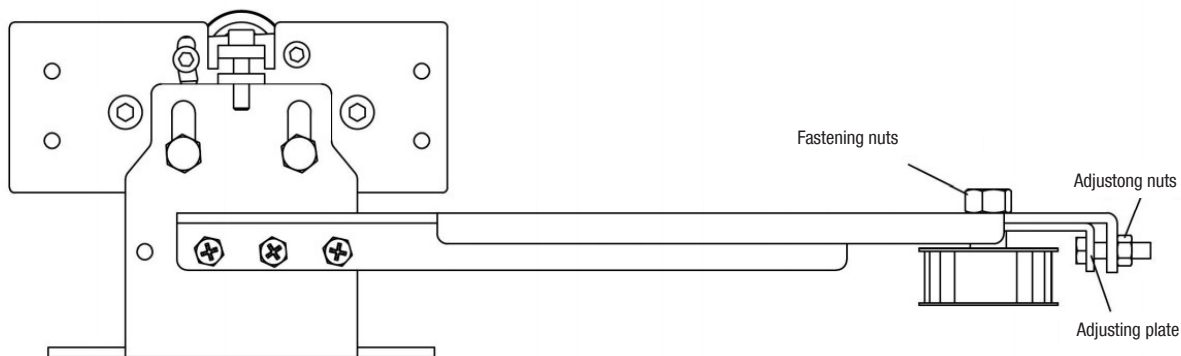
Adjustment of idler pulley

- 1- Loosen the four fastening screw and adjusting screw to make the adjustment plate in the far right (adjustable range of the tension increase)
- 2- Put belt into the driving wheel of the motor on one side and into driving wheel of the pulley on the other side. Adjust the three square screws. Make the belt tight as far as possible, then tighten the three nuts to fix pulley.
- 3- Turn the adjusting screw clockwise with socket head (M5) so that the adjusting plate will be moved to the right and belt tension increased gradually. Adjusting the belt tension to tighten four fastening screw suitably.



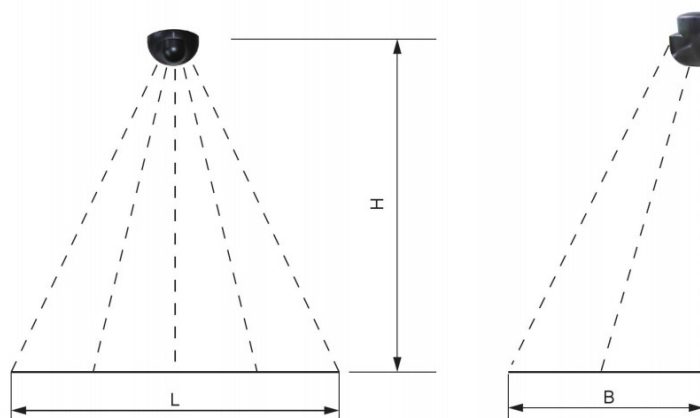
Adjustment of idler pulley (short belt)

- 1- Loosen fastening nuts and adjusting nut to make adjusting plate in the far left (adjustable range of the tension increase)
- 2- Put one side of belt into the driving wheel of the tightening device, another side put into the driving wheel of another hanger.
- 3- Turn the adjusting nut clockwise with Six angle wrench (10mm), so that the adjusting plate will be moved to the right and the belt tension increased gradually. Adjusting the belt tension to tighten fastening nut suitably.



Installation of sensor

The sensor should be installed at the center of the door leaf.
The max installing height of sensor is 3m. If more than 3m.
Please refer to the circuit diagram when wiring. More detailed installation details please refer to the installation manual of our company.

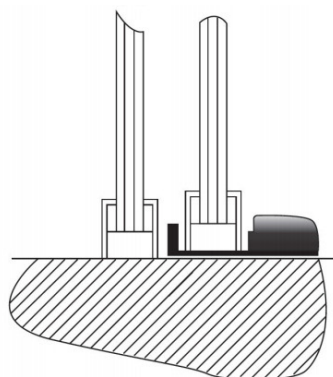


Caution: Sensor terminal voltage of different manufacturers, different types varies, don't literally change.

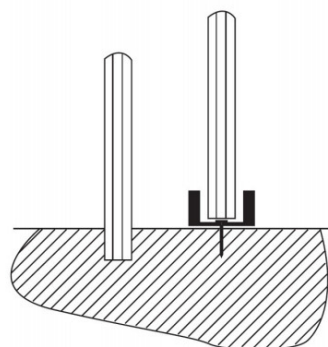
Installation of door leaf guider

Two types of door leaf guider:

- 1- Door leaf guide should be installed in the center of the movable door leaf.
- 2- Center distance between two door leaf guides must be less than the total width of door leaves: 2DW



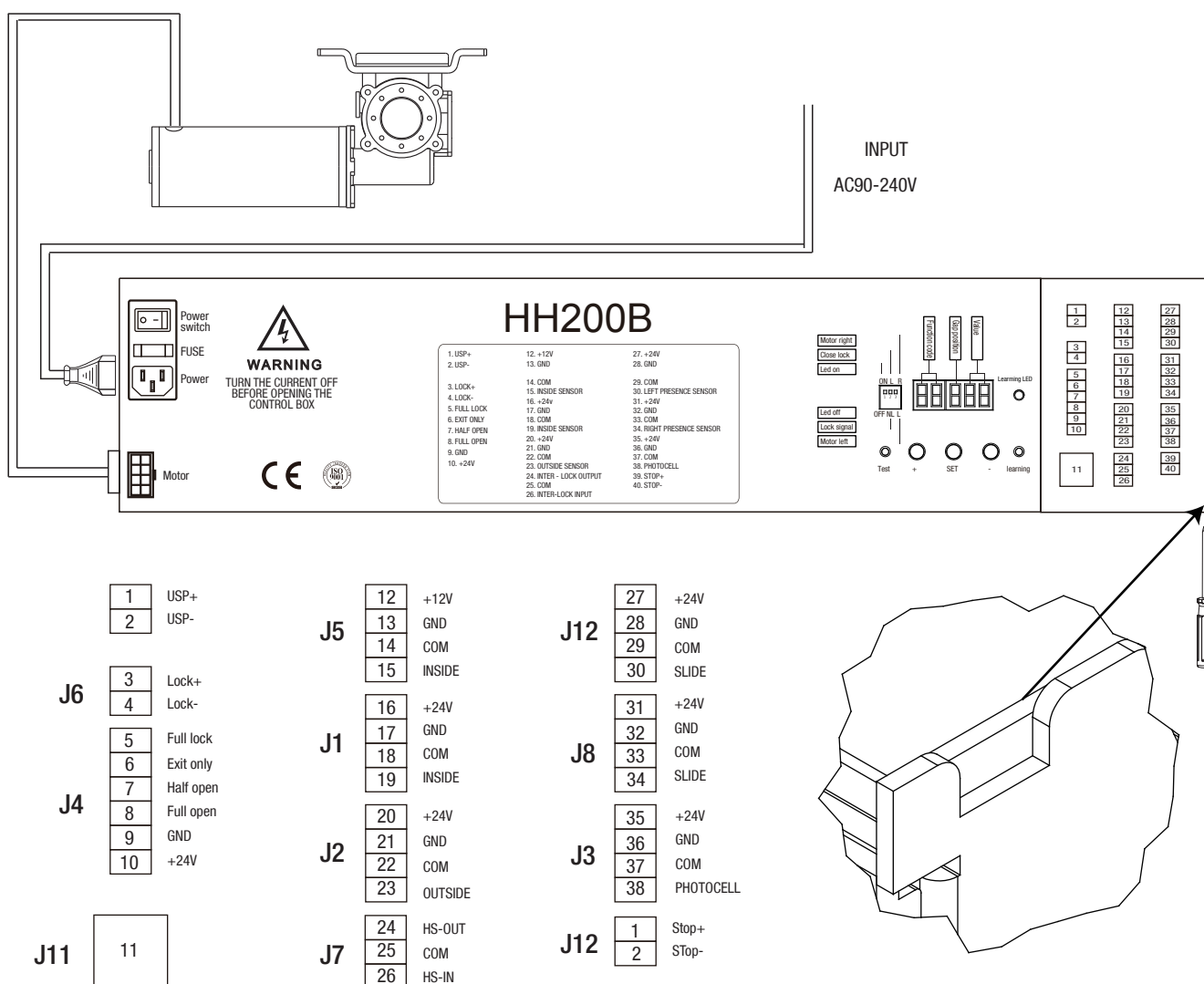
Suitable for framed door



Suitable for framed door

Connection of motor, controller and power switch

Caution: All the connection should be finished under the power off status.



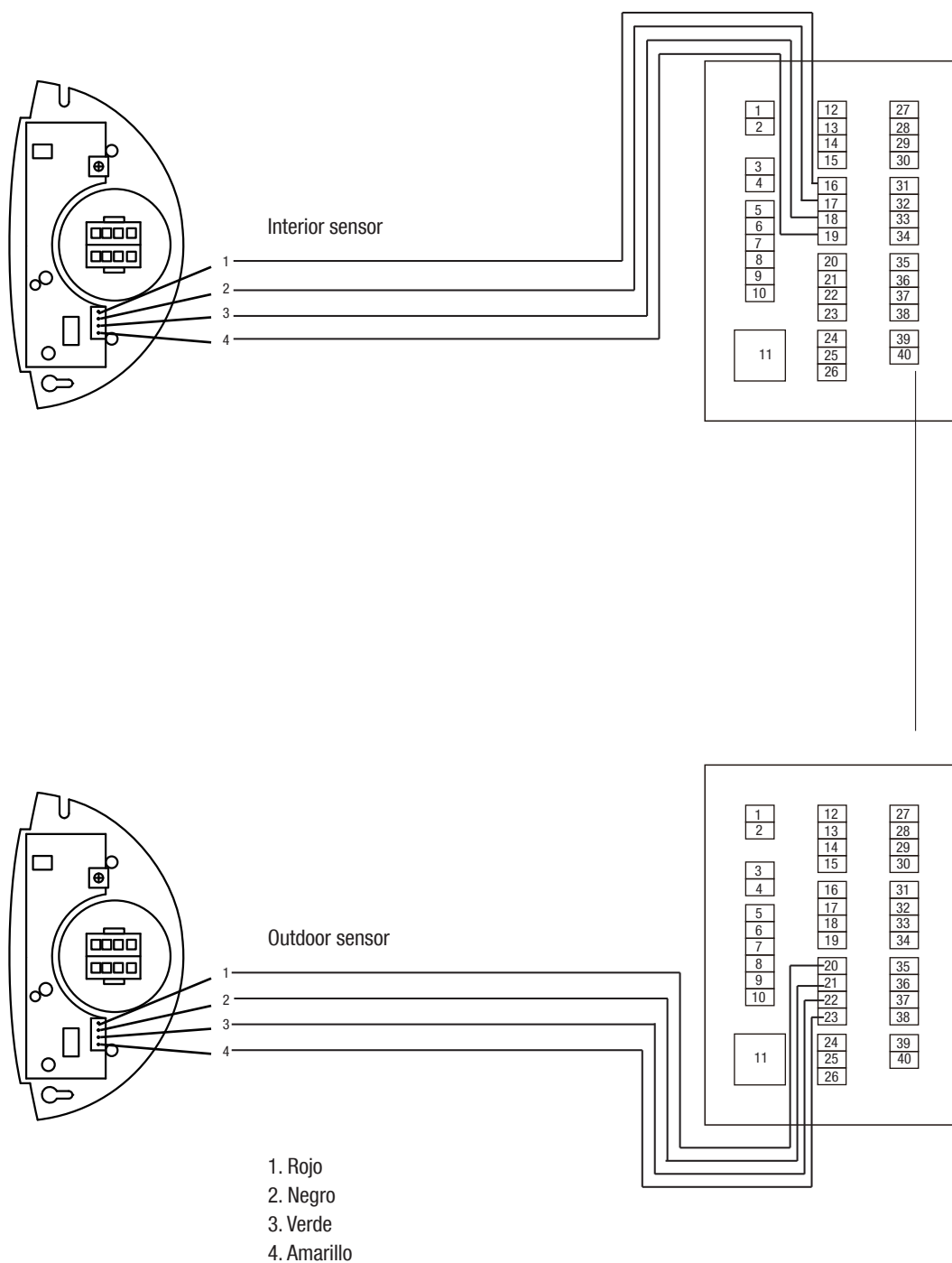
Learning cycle setting

At first time using, power on, the door will do self-learning. After first learn cycle, the controller will record the working cycle. If you want to do self-learning cycle again, please do following steps.

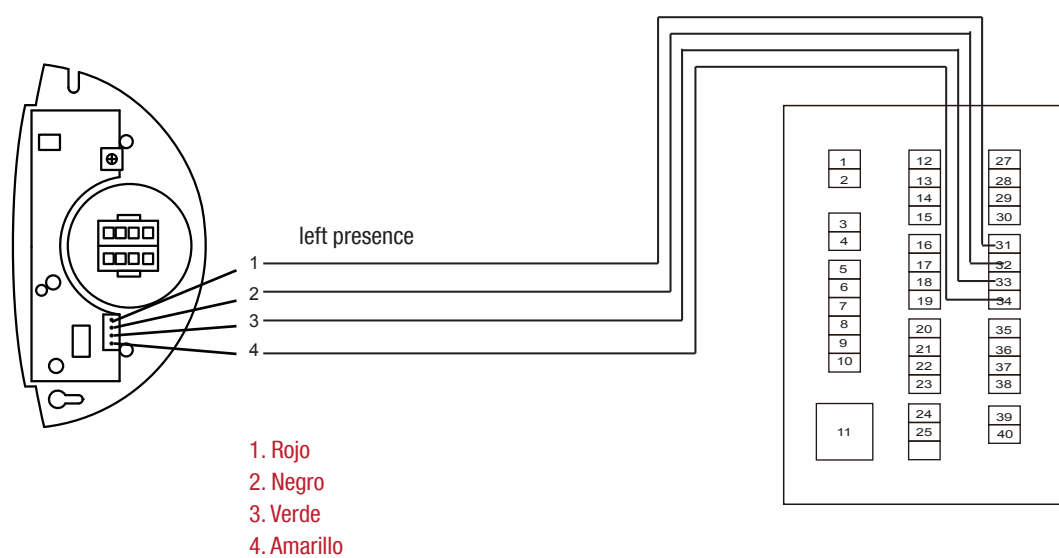
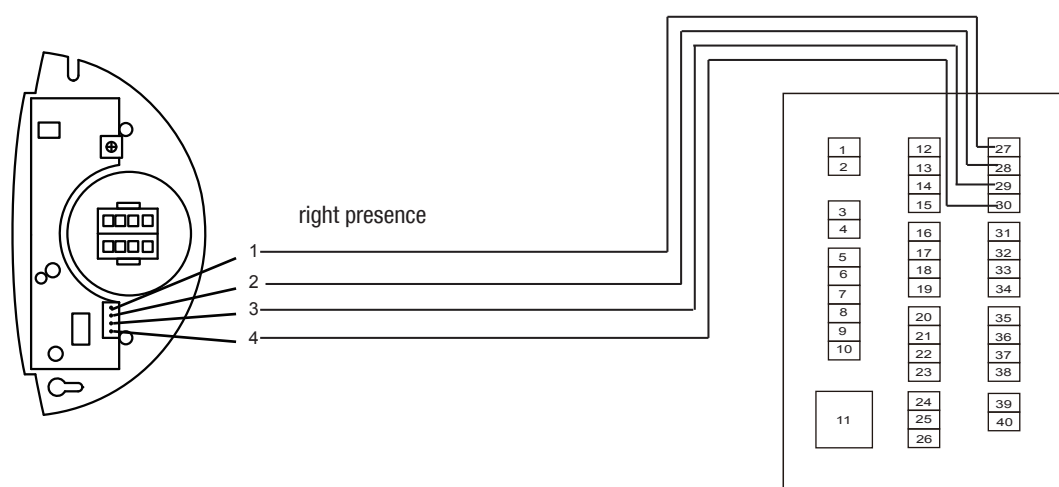
1. When power is off, press the TEST key.
2. Then power on, press the TEST key always 3 second. then the led will show the number '12121'.
3. The door start learning cycle.

Connection of sensor

Caution: All the connection should be conducted under the power off status.



Connection of sensor



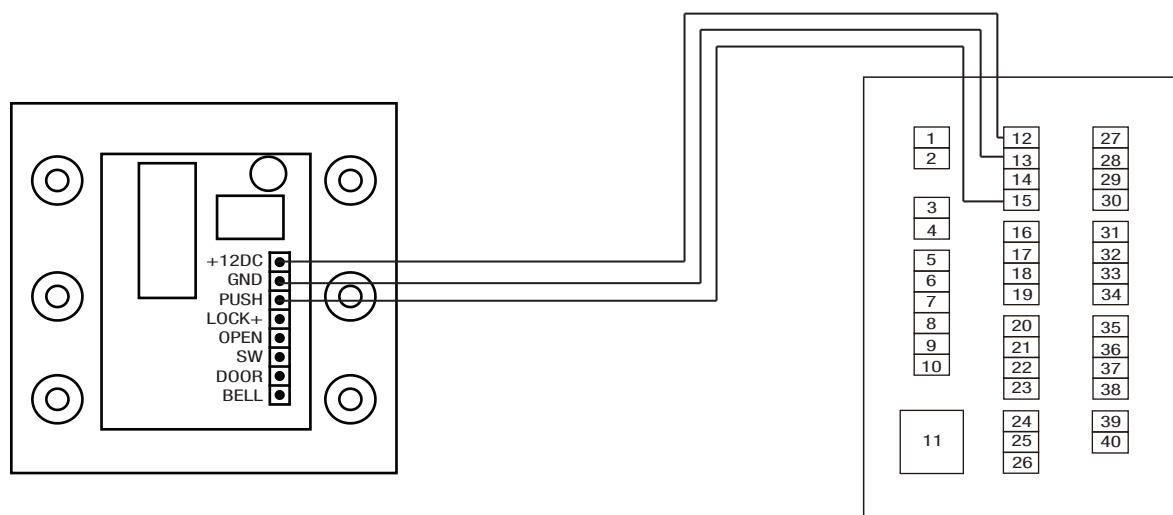
Connection of access keypad

Caution: All the connection should be conducted under the power off status.

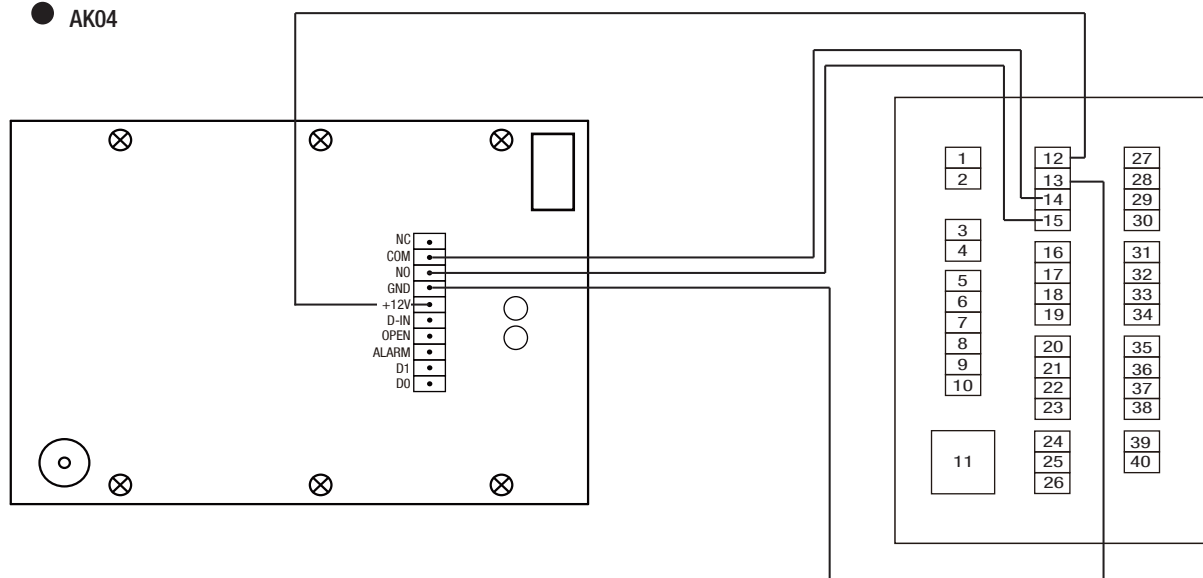
When connect the access keypad should pay attention of positive and negative poles.

If the rate of work for access keypad is more than 2.4W, it needs the external power of 12V DC power.

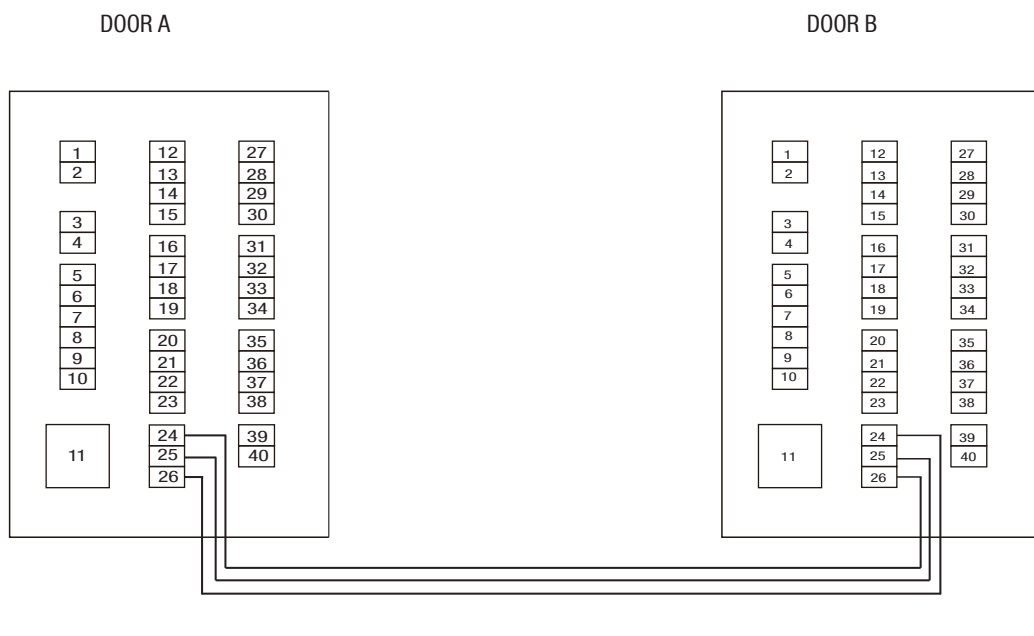
● AK02



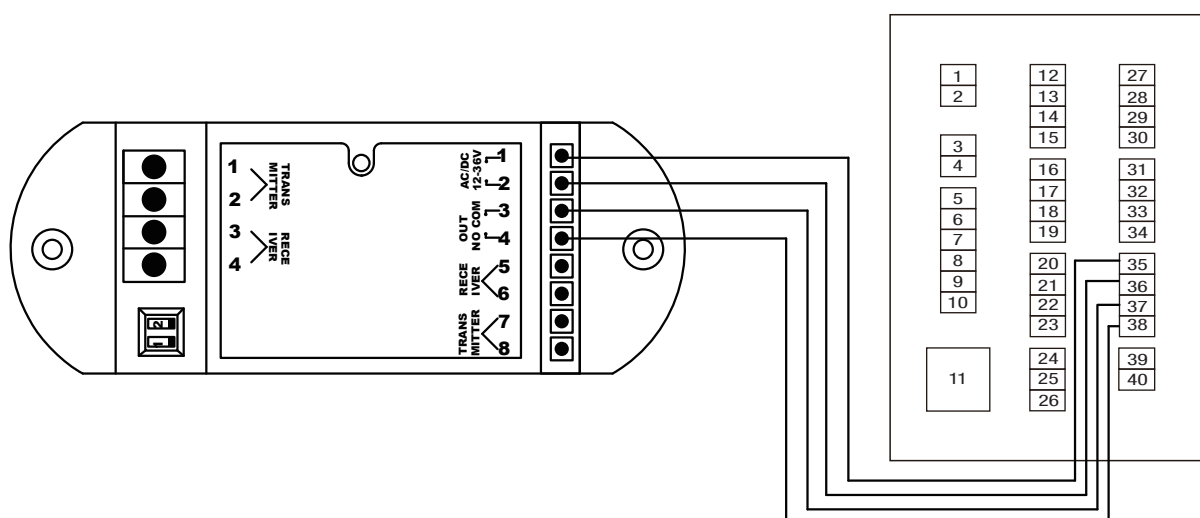
● AK04



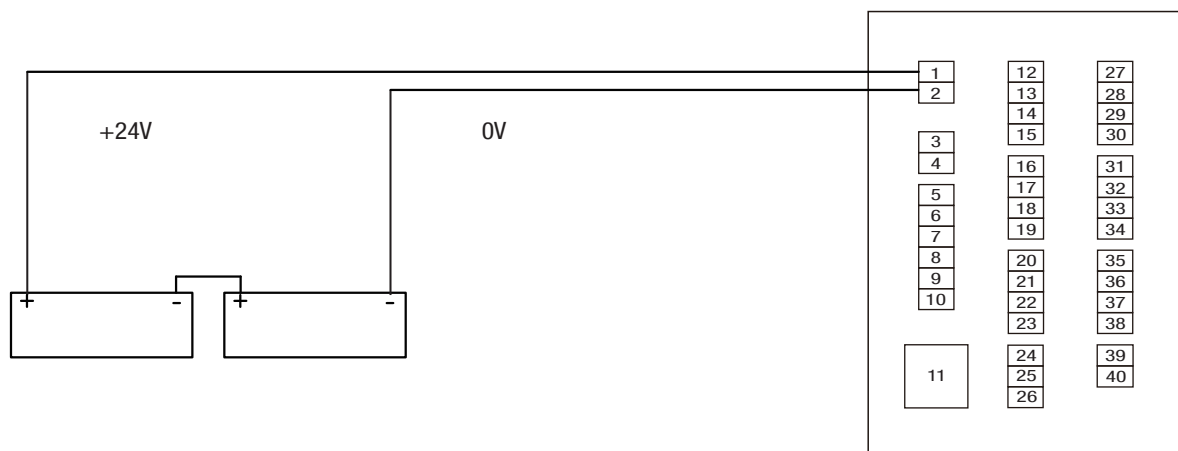
Connection of inter-lock



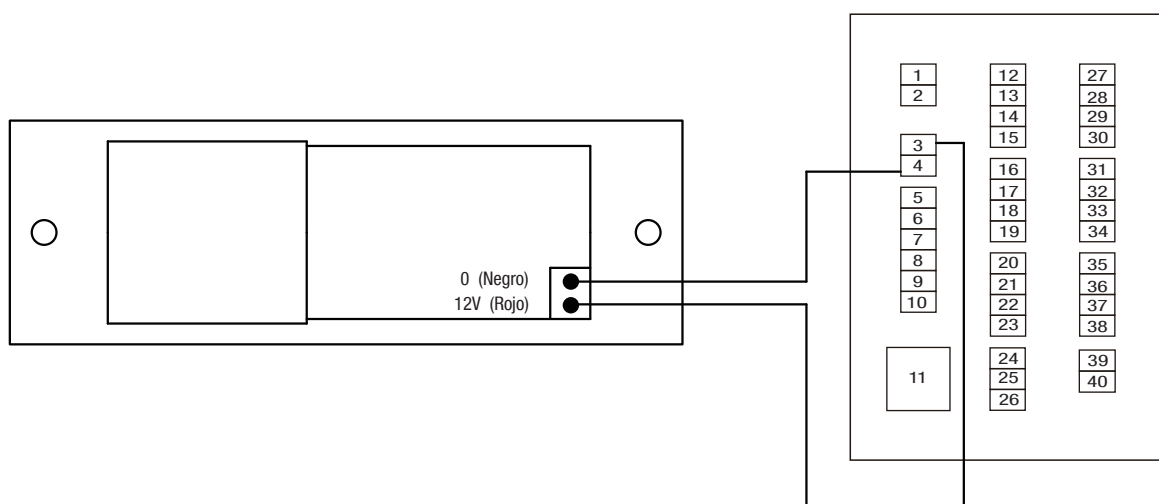
Connection of photocell



Connection of UPS



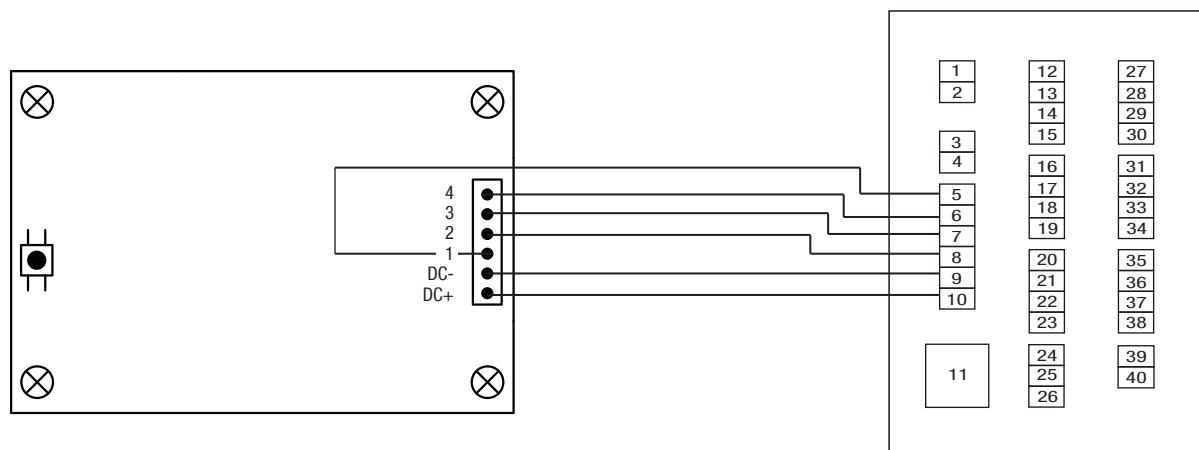
Connection of electronic lock



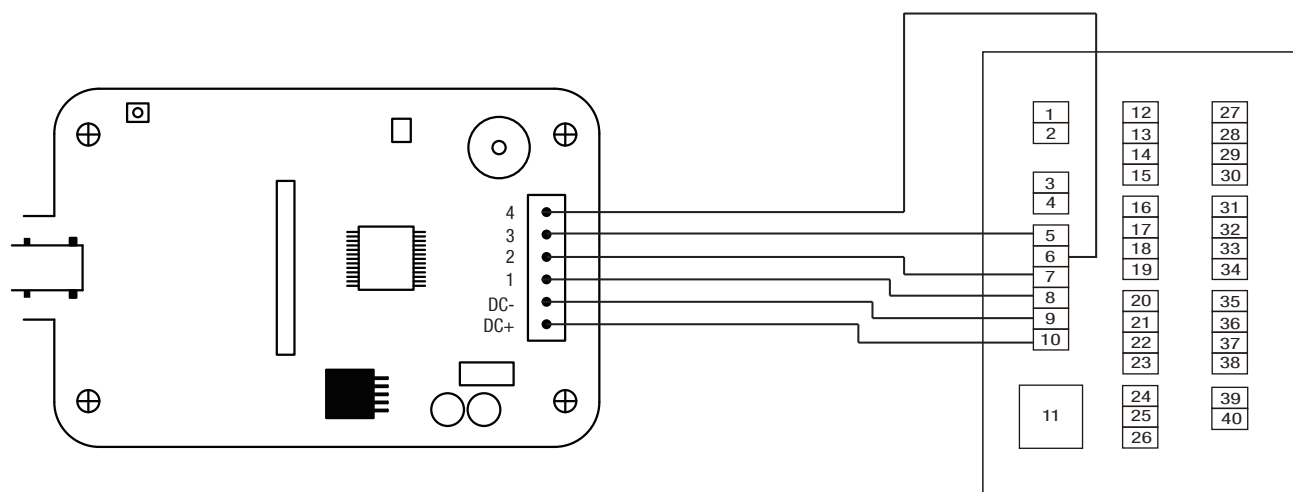
Connection of motor, controller and power switch

Caution: All the connection should be finished under the power off status.

● FC03



● FC06



Data setting

Attention: Setting need to press the test button, Make sure mechanism stable operating, and not adjust data during operating. Data adjustment is not allowed when door is operating

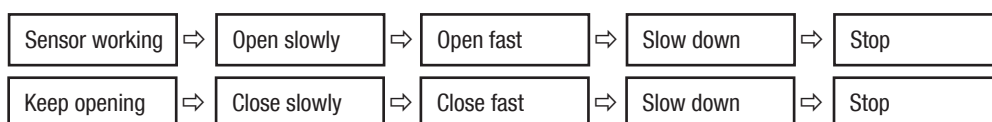
Code no.	Value range	Default value	Details
00	001	001	Software vision code
01	30-99	80	Opening speed
02	30-99	65	Closing speed
03	05-30	06	Braking speed when opening
04	05-30	06	Braking speed when closing
05	20-50	30	Braking distance when opening
06	10-50	30	Braking distance when closing
07	01-03	02	Auto reverse force when opening
08	01-03	02	Auto reverse force when closing
09	01-03	02	Holding force-closed
10	20-90	60	Partial opening (20%-90%)
11	00-60	02	Door hold time(0-60s)
12	00-01	00	Aux lock type (00: lock with power, 01: lock without power)
13	00-02	00	Battery mode (00: Open/ 01: Closed/ 02: Automatic)
14	00-01	00	Fire alarm mode (00: Open 01: Closed)
15	00-01	00	Photocell signal (00: no/ 01: nc)
16	00-01	00	Emergency stop NO signal active or NC signal active (00:no /01:nc)
17	00-01	01	External photocell status (00: disable/ 01: enable)
18	00-02	00	operating times selection: (00: unlimited 01:100000/02:10000)

reminder Er001 over-current protection

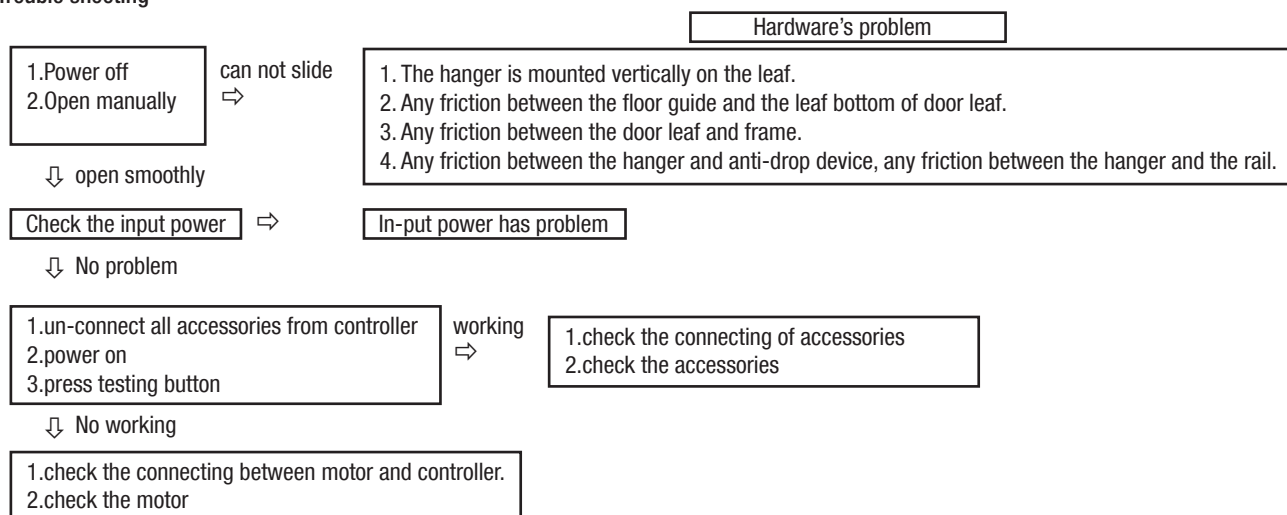
reminder Er002 Motor error

Description of operation

- 1.Power on, the mechanism start to self-learning. The door will open and close to find the opening and closing position.
- 2.The mechanism's working steps are as following:



Trouble shooting



Trouble shooting

Symptoms	Causes	Troubles shooting	Remedy
Door leaves open or close un-smoothly	Opening or closing speed is set too slow	Check the data of opening and closing speed.	Adjust the opening or closing speed.
	Too much resistance when no power.	Any damager or loosen at hangers, floor guide or anti-drop device.	Fix the parts strongly. Fixe the guide at the right position. Fix the anti-drop device.
		Any obstacle on the track.	Clean the track.
Door leaves hit each other when closing	Stopper is fixed not strongly.	Check the stopper.	Adjust the stopper's position and fix it.
	Closing speed is too fast and the buffer distance when closing is too small.	Check the closing speed and buffer distance when closing on controller.	Turn down the closing speed, and turn up the buffer distance when closing.
Door not working	No power input.	Check the outside input power.	Connection the power
		Check the fuse of power switch.	Change a new fuse.
	Door is locked.	Check the lock is working or not.	Un-lock the door.
	Connection between motor and controller is not good.	Check the connection is good or not.	Connect them strongly.
	Inter-lock is working.	Check it works as inter-lock or not.	Waiting another door close
Door does not close	Sensor is working.	Check the sensor is broken or not.	Use a new sensor.
		Check any stuff at the detecting area.	Clean the detecting area.
		Check the sensor is fixed stably.	Fix the sensor well.
	Photocell is working.	Check the receiver and emitter are at same level or not.	Adjust position of receiver and emitter at same level.
		The surface of receiver and emitter is clean or not.	Clean the surface.
		Connection is good or not.	Connect the photocell the controller well.
	Function keypad or remote is working.	Check the button of always opening.	Re-set the function.
Door open by itself	Sensor work mistakes	Any stuff at the detecting area.	Move the stuff out the detecting area.
		Any fluorescent light near sensor.	Don't install the fluorescent light near sensor.
		Any strong microwave machine working near sensor.	Move the machine away sensor.