Panasonic

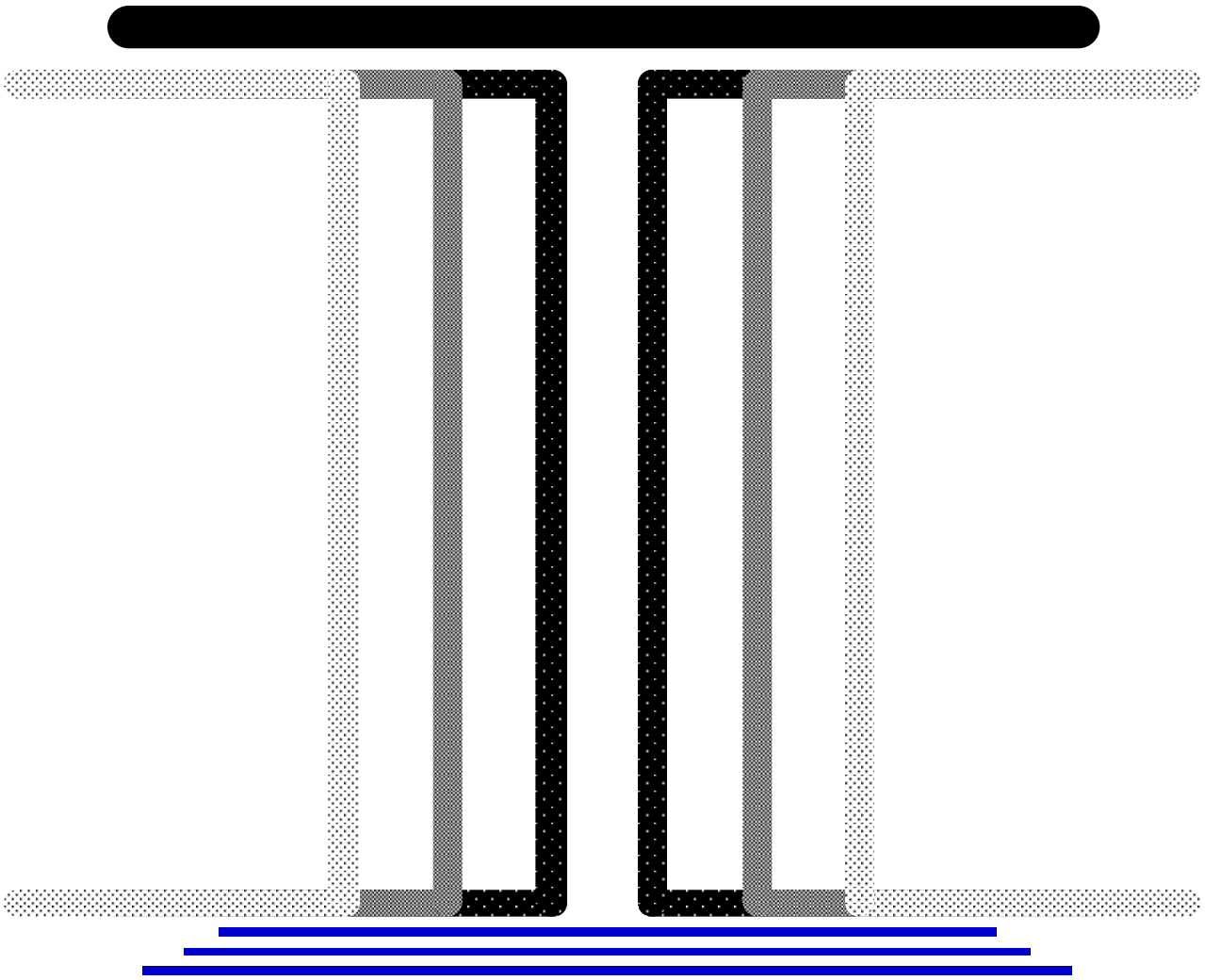
Automatic door

New RuiDi Series

Installation Manual

Be sure to install the auto-door by the professional.
Be sure to install the auto-door in accordance with the electric laws and standards.

Request to installer... • Keeping this manual for maintenance.
• The owner/operator should be instructed on the essentials of the operation of the door.



No.ONACS88438K-T 24.09.11

Safety Precautions

- Safety measures are denoted by the following symbols according to their type, and are described below.

⚠Warning	This symbol indicates that serious injury or death may result if the part or procedure is not handled properly.
⚠Caution	This symbol indicates that serious injury or physical damage may result if the part or procedure is not handled properly.

This symbol indicates something that the user must not to do.	This symbol indicates something that the user must do.

⚠ WARNING

Be sure to perform installation and adjustment according to the installation manual. If not properly installed or adjusted, fire, electric shock or damage may result.

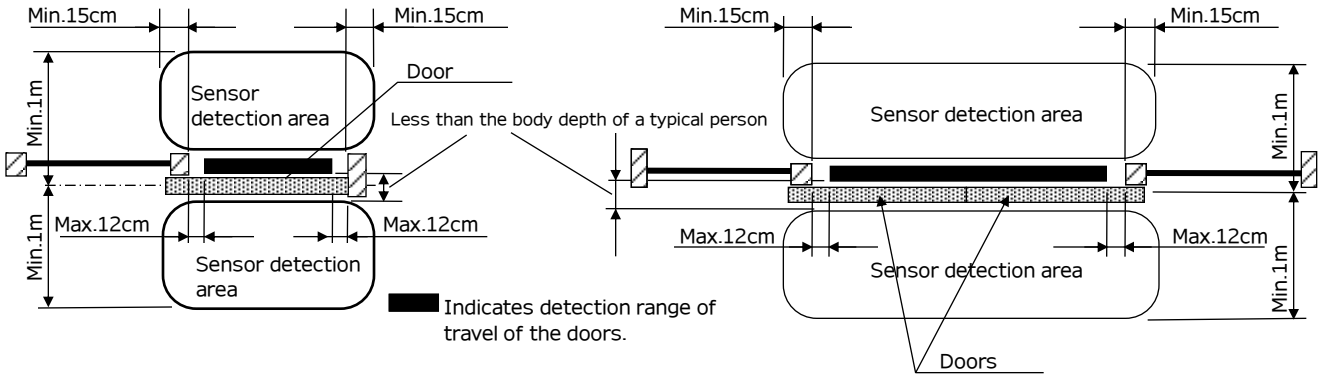
Do not pass the auto-door or approach the work site during construction.
Accidental drop of tool or part will lead to personnel injury.

Do not tamper with any parts, as this may result in fire, electric shock or damage.

Do not use a power supply with a voltage and frequency different from that Indicated, as this may result in fire or electric shock.

Be sure to install and adjust the sensors so that the detection area extends safely beyond the doors and there is no “blind spot.”
If the detection area is too narrow, or if there is a blind spot, a person may be hit by or caught in the doors, leading to injury.

Be sure to install 2 sets the photo cell sensors such that the detection area covers the entire area of travel of the door. If this is not done, a person may be hit by or caught in the doors, leading to injury.



If the above detection area cannot be secured, request the person responsible for the door to position plants or other obstacles to force people to pass through the detection area.
If the detection area is inadequate, a person may be hit by or caught in the doors, leading to injury.

⚠ CAUTION

- Do not use in a location where there is excessive moisture, vibration, or corrosive gas, as this may result in fire, electric shock or damage.
- Do not use at ambient temperatures outside the range of -20 ℃ to 50℃, as this may result in fire, faulty operation.
- Be sure the space is more than 30mm between the doorframe and adjacent buildings after opening, otherwise finger injury may result.
- Do not cut off the power during operation of the doors, as this may result in injury.
- Be sure to attach the sticker to the door. Failing to do so may lead to injury.
- Do not install any instruments with capacity over DC24V 300mA on Multi-function device of the options, as this may result in fire.

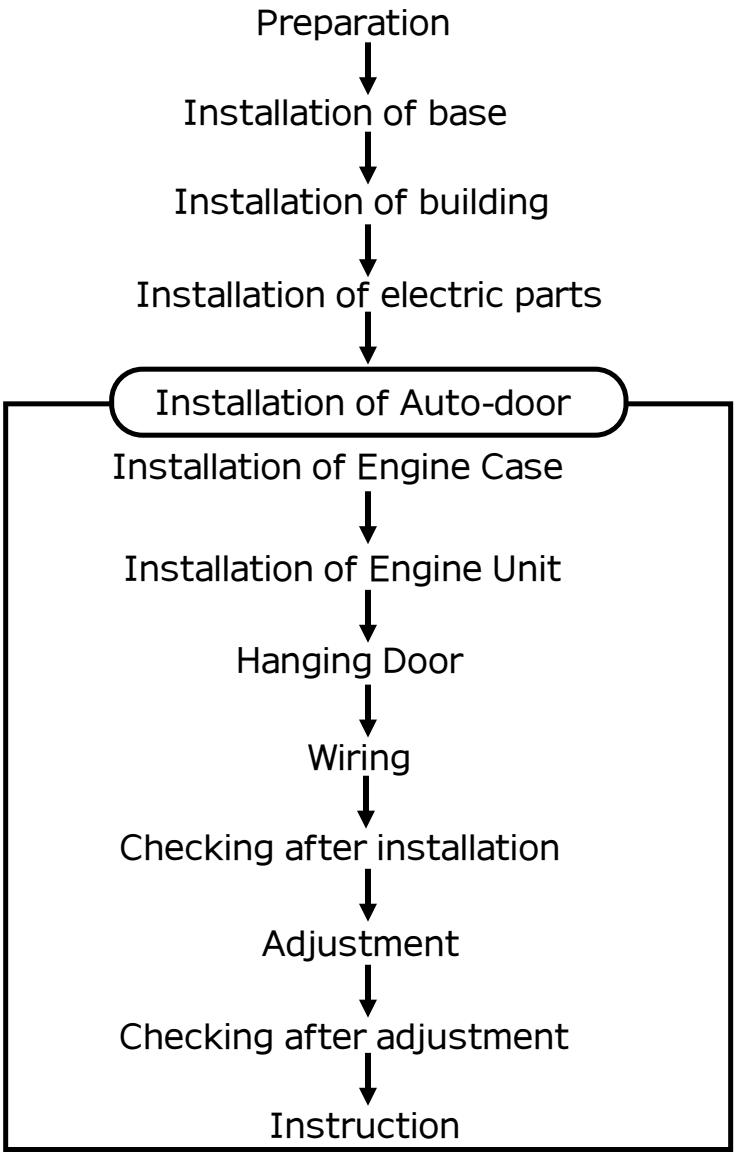
■ Other precautions:

- Do not use doors which exceed the maximum rated weight. This may result in faulty operation.
- Optional Battery device
  - Please run it after 24 hours' charge. Join Multi-function device, turn on the power of engine unit and charge up.
  - The battery life is 3 to 5 years in an ambient temperature of between 0 ℃ to 40℃ An environment with temperature exceed 0 ℃ ~40℃ will shorten life.
  - When the battery can no longer power the opening or closing of the door, even after charging for 24 hours or more, it has reached the end of its life. Replace the battery immediately.
  - Check the battery every half a year.
- Optional Electric lock

  Do not use at ambient temperature outside the range of 0 ℃ to 40℃,as this may result in fire, faulty operation.
- Pictures in this introduction are for reference only, please take a look at the real products. And please forgive for any modification of the product.

Content

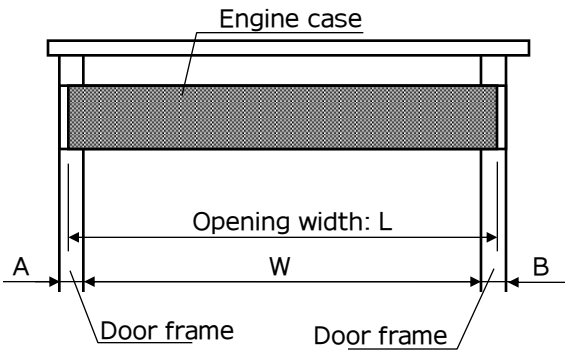
1. Installation Flowchart



2. Installation of Engine Case

Surface type

■ Engine case cutting size



1. Cut the engine case.

Engine case: L = W + A + B − 5mm

【Caution】 Do not break guide rail during cutting engine case, as this may result in noise, shorten life of pulley.

2. Drill hole in the transom and doorframe (M6).

3. Drill hole in the engine case (countersinking) (M6).

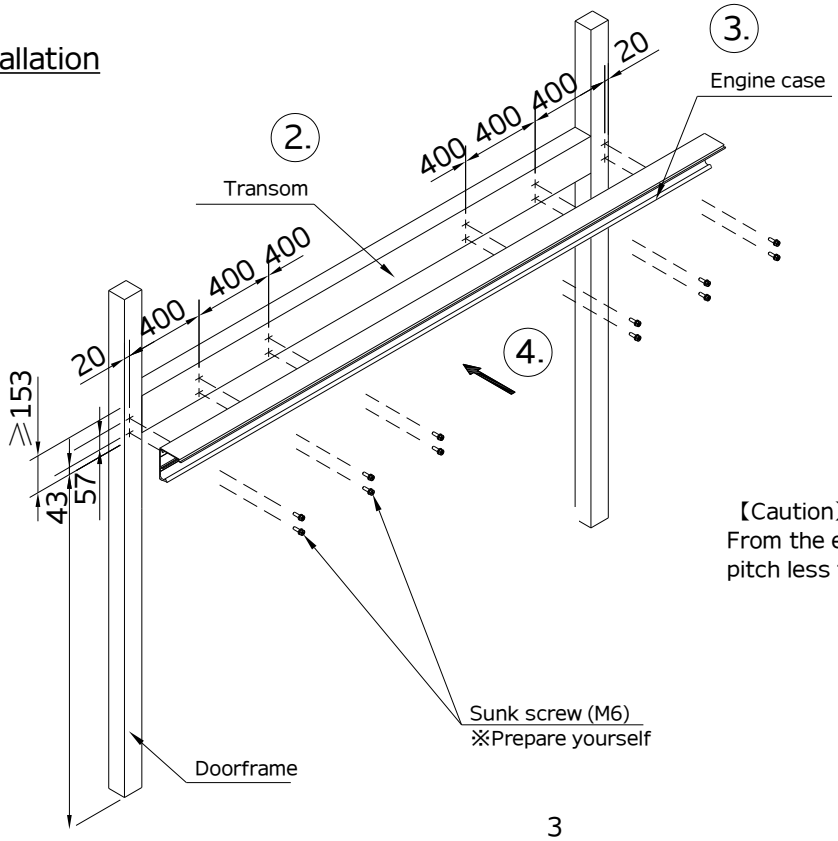
4. Fix the engine case to the transom and doorframe with sunk screws (M6). (Please supply these screws yourself).

【Caution】
- Install the engine case horizontally.
- Keep sunk screw in the hole of engine case, otherwise it may result in faulty operation
- Countersunk screw flat head please do not expose, so as not to cause bad action

Double type
- Joint of two engine cases should be center of the entrance.
- Two engine cases must be installed on one level horizontally.
- Joint should be less than 5mm.

【Caution】 ⚠ Installation method (kind of screw, pitch, quantity of screw etc.) must according to this manual. Otherwise It may result in door falling.

■Installation

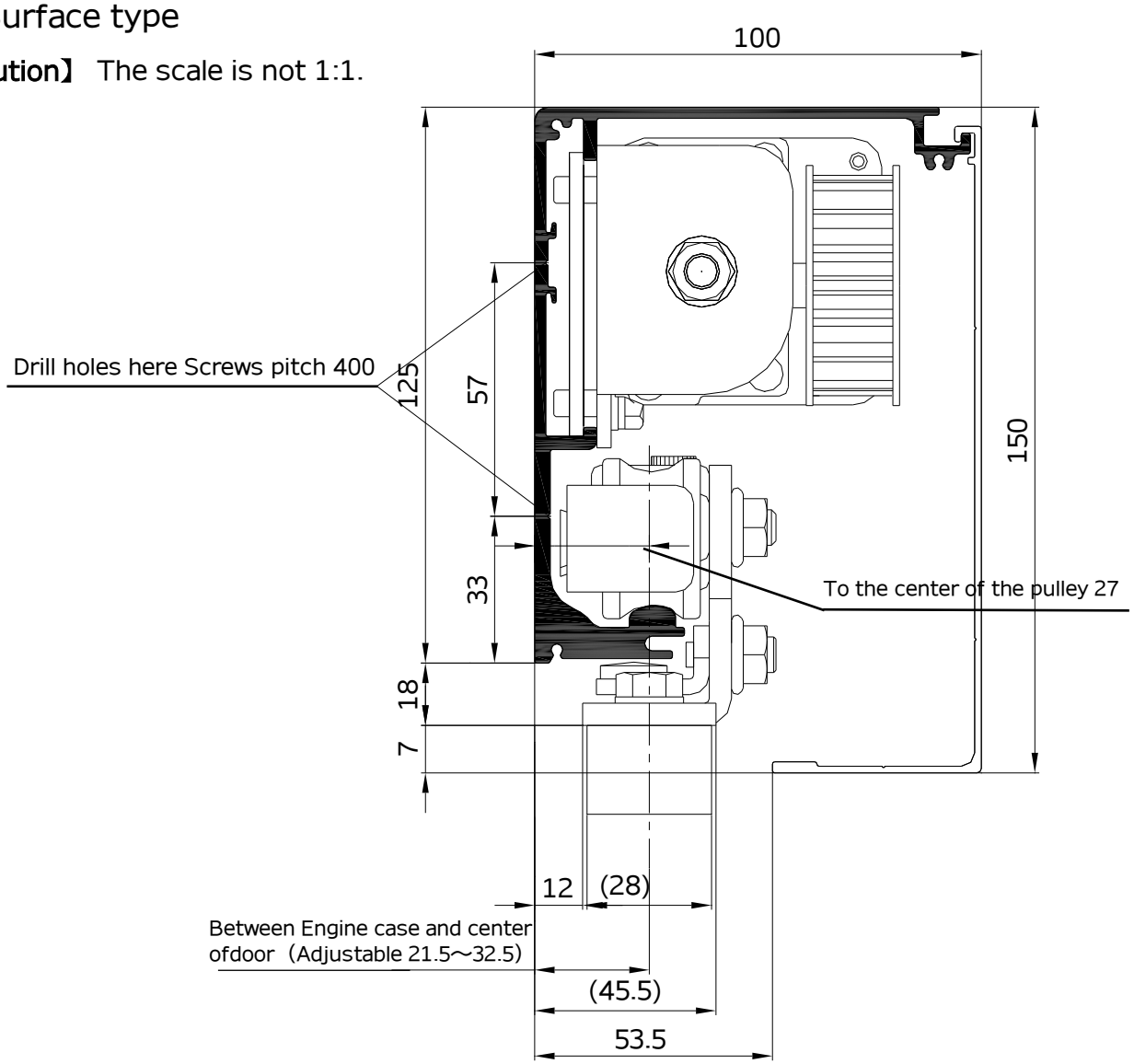


【Caution】
From the edge of engine case, keep screw pitch less than 400mm.

3. Example of installation

■ Surface type

【Caution】 The scale is not 1:1.



4. Maintenance maintenance

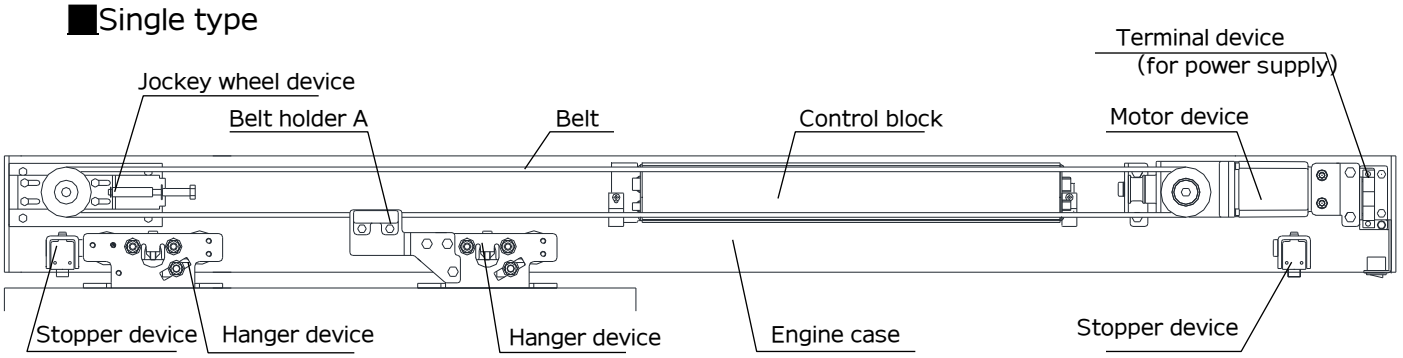
■Maintenance method

Maintenance every 6 months, as follows

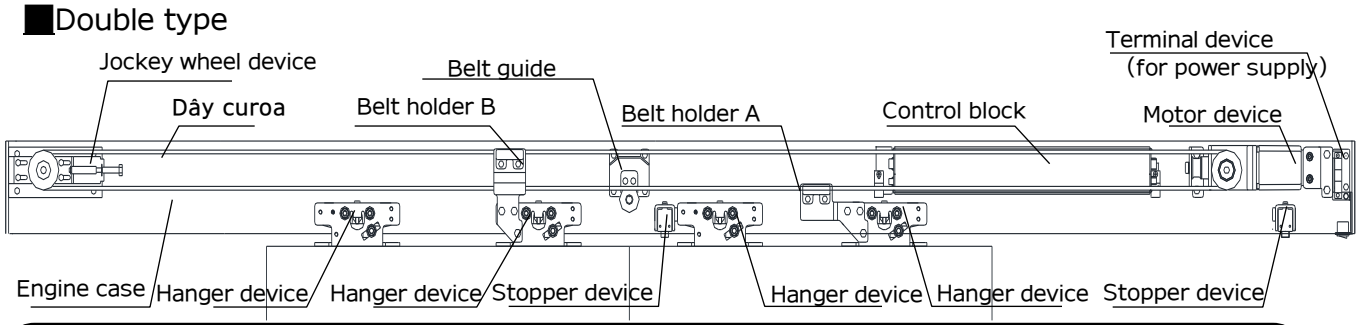
1. Before maintenance, be sure to power off the automatic door:
2. Clean the dust, broken eyebrows and other debris on the track surface and pulley with dry cotton cloth;
3. Check whether there is an abnormal noise between the belt and the end cover of the pulley. If there is an abnormal noise, please apply appropriate grease on the side of the belt;
4. Check whether the mounting screws on the hanger, motor, tension wheel and belt support are loose, if they are loose, they must be tightened;
5. Check the tightness of the belt. If there is slack, re-tighten the belt according to the previous method.

5. Layout for Installation of Engine Unit Parts

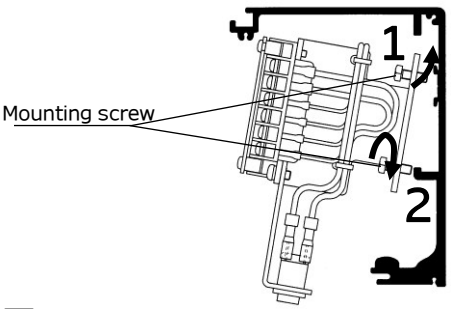
■Single type



■Double type



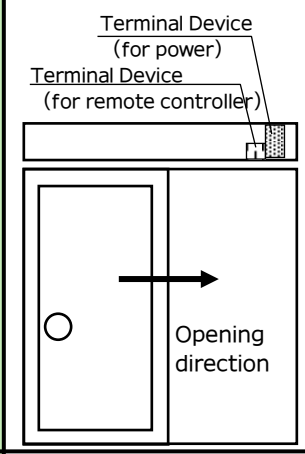
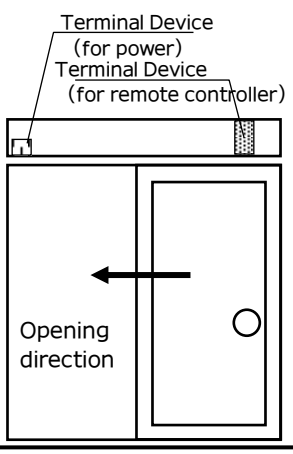
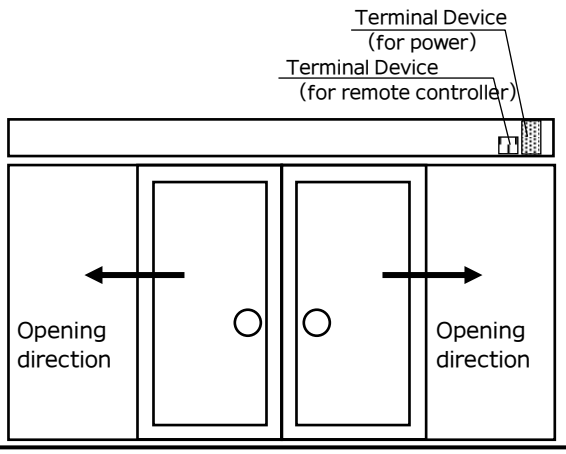
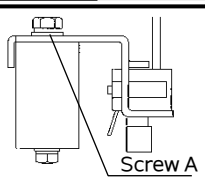
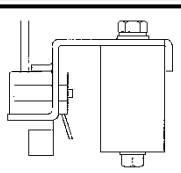
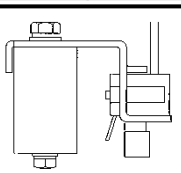
6 . Installation of Terminal Device（for power ）



1. Insert the Terminal device into the upper groove.
2. Let it slip into the lower groove.
3. Move the Terminal device to the right side of the engine case, tighten the mounting screw.

【Caution】 Keep the space for wiring.

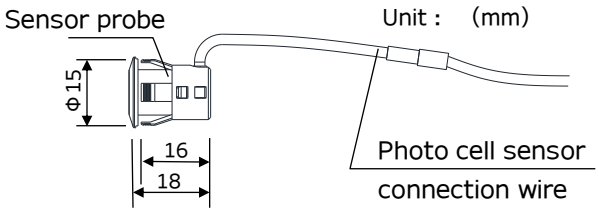
■ Mounting position and direction 〈optional terminal device （for remote controller）〉

	Single typ （open right）	Single type（open left）	Double type
Mounting position			
Mounting direction			

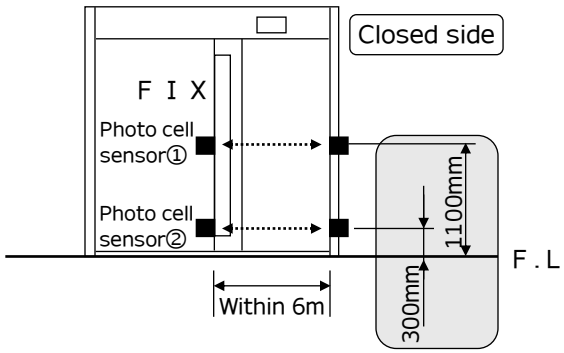
7. Installation of the photo cell sensor probe

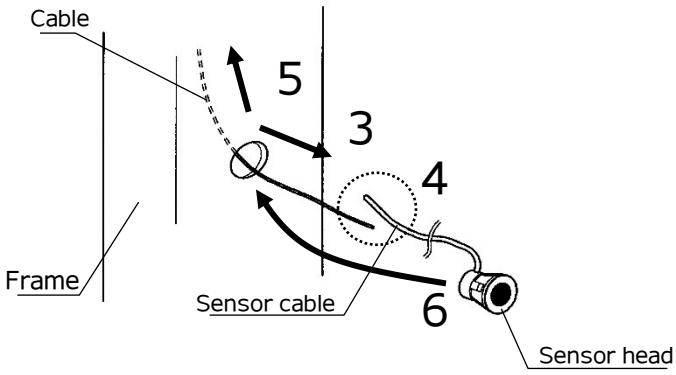
Opposing type

■Dimensions of the Photo cell sensor probe



■Installation height dimensions





1. Drill holes in the frame so that the sensor heads can be mounted in a recessed position with the lenses directly facing each other.

- ●Hole diameter ø13mm
- ●Installation height : 300mm and 1100mm

【Caution】
The sensors must be less than 6m apart. If they are farther apart, the door may open always.

2. Remove any burrs from cutting edges and surfaces.

【Caution】
If either of the sensor heads is incorrectly aligned so that the heads do not point directly at each other, the light may not enter the sensors, there by preventing the door from closing.

3. Fasten heavy with line that is long enough,insert the line from engine case through hole in the frame.

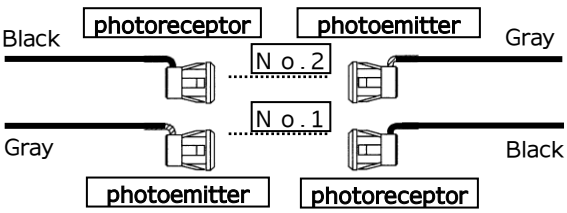
4. Fasten the sensor cable on the line, insert the sensor cable through hole in the frame.

5. Pull the sensor cable into the engine case.

6. Mount the sensor head in the hole in a recessed position.

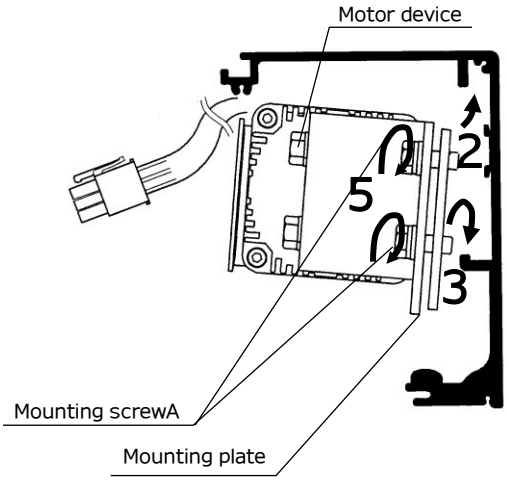
【Caution】
If either of the sensor heads is incorrectly aligned so that the heads do not point directly at each other, the light may not enter the sensors, there by preventing the door from closing.

■ Setting of 2 sets



【Caution】
Please set the photoejection and photoreception alternately.
Setting them in the same direction may cause interference between sensors, leading to abnormal door operation.

8. Installation of Motor Device

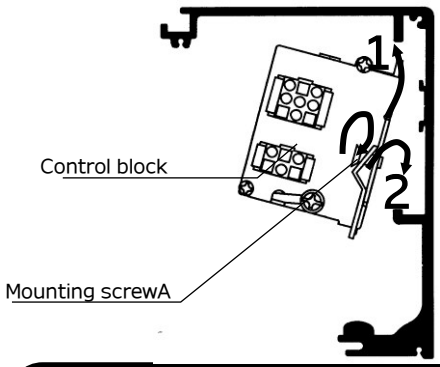


1. Make sure the leader wire is pointing toward the front of the motor.

Caution ⚠ Object falling may result if 2,3,5 is not handled properly.

2. Insert the Mounting plate of the Motor device into the upper groove.
3. Let it slip into the lower groove.
4. Move the Motor device to the right side of the engine case.
5. Tighten the mounting screw A.
6. Pass the lead wire above the motor and put them on the left side of the motor.

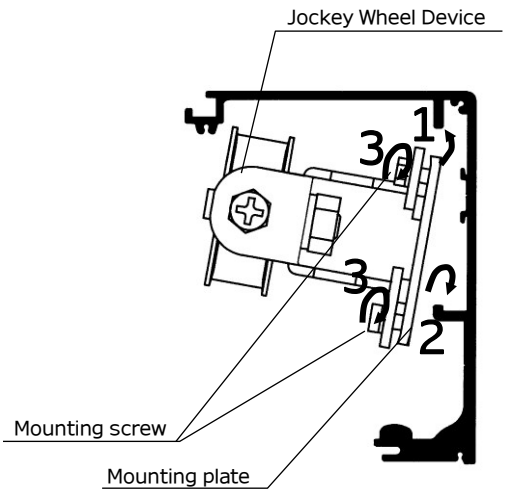
9. Installation of Control Block



Caution ⚠ Object falling may result if 1， 2 is not handled properly.

1.Insert the Control block into the upper groove.
2. Let it slip into the lower groove.
3. Move the Control block to the left side of the Motor device.
4. Tighten the mounting screw.

10. Installation of Jockey Wheel Device



Caution ⚠ Object falling may result if 1， 2 is not handled properly.

1. Insert the Mounting plate of the Jockey Wheel device into the upper groove.
2. Let it slip into the lower groove.
3. Screw the mounting screws loosely to allow the Jockey wheel device to slide freely.

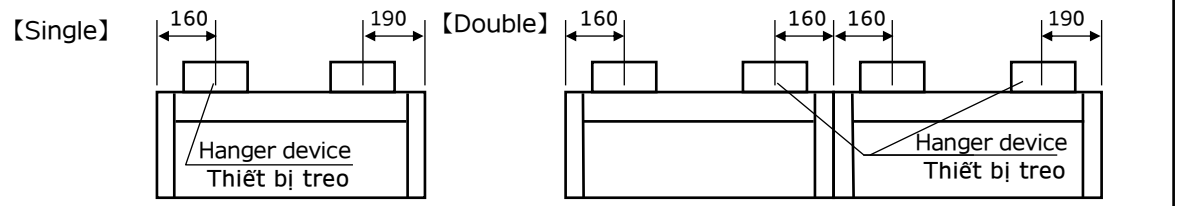
11. Hanging Doors

1.Install the Hanger device to its designated position on the door panels with hanger bolt.

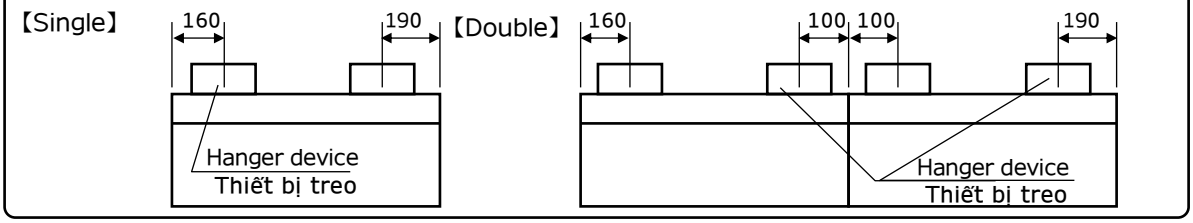
Caution ⚠ Object falling may result if it is not handled properly.

■ Position of Hanger device Unit : (mm)

■ Aluminum, Wooden, Stainless steel door



■ Reinforced glass door / Cửa kính cường lực

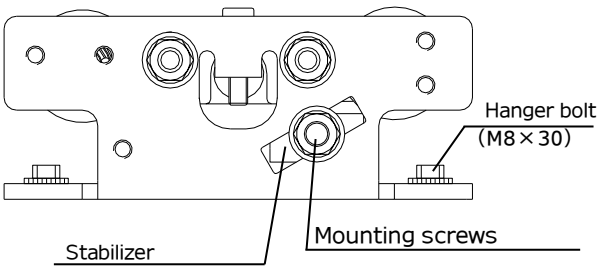


2. Loosen the mounting screws, remove the stabilizer from the Hanger device.

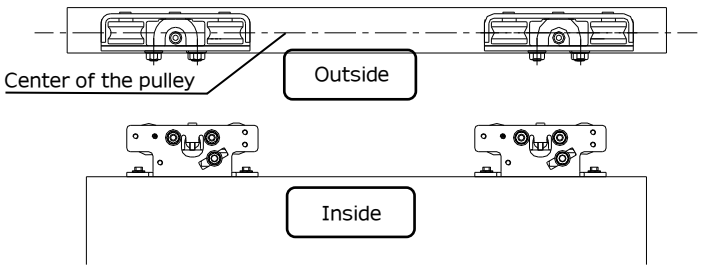
3. Lift the door panels onto the Engine case.

【Caution】 Do not break guide rail during installation, as this may result in noise, shorten life of pulley.

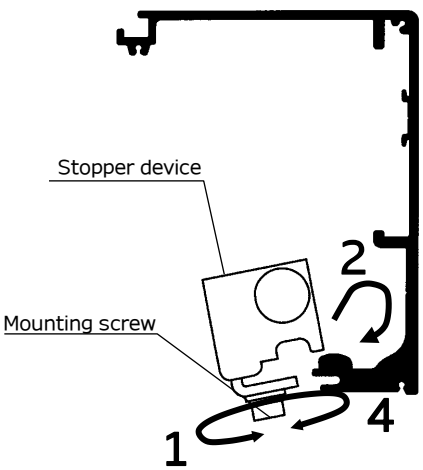
■ Hanger device



■Mounting position of the Hanger device



12. Installation of Stopper Device



1. Loosen the mounting screw (M8×40).

2. Hook the Stopper device on the Engine case refer to 5. Layout for Installation of Engine Unit Parts (P.5).

【Caution】 Do not break railway.

3. Slide the Stopper device to the position where the door is to be stopped.

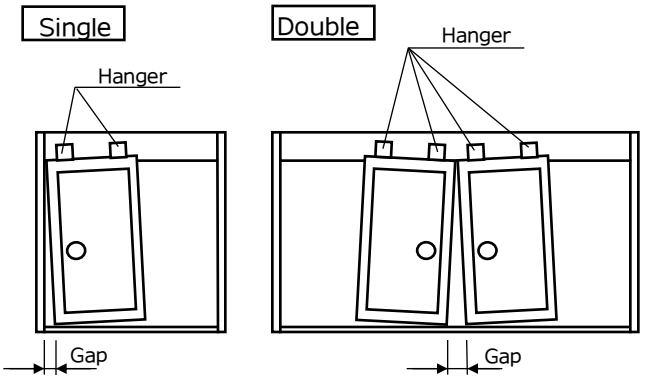
【Caution】 Keep the space more than 30mm when the door is Opened entirely, otherwise it may result in injury by the door and frame.

【Caution】 Do not break guide rail.

4. Tighten the mounting screw firmly.

【Caution】 It may result in breaking of the door if installation is not handled properly.

13. Adjustment of Door alignment



● If the door can not be installed horizontally as shown left figure, it can be adjusted after it is hung on the Engine case.

1. Loosen the mounting screw.

2. Adjust height by turning the adjustment screw (M6).

- ● Turn clockwise, raiser.
- ● Turn counterclockwise, lower.

【Caution】 ⚠ It may result in falling of the door if step3,4 is not handled properly.

3.Tighten the mounting screw.

4. Install the stabilizer.

【Caution】 The gap between Engine case and stabilizer is 0.5mm.

5. Check the resistance to travel.

Check the hanger device can slide on the Engine case.

Check that the door can be opened an closed by one index finger.

The resistance to travel should be 51N (5.2Kgf) or less.

Checking if the resistance is too high.

■There should be no friction between:

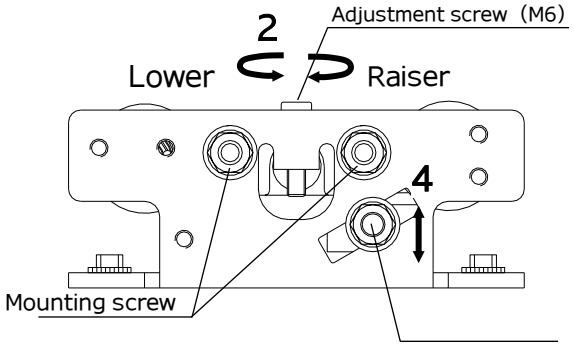
1.The door panel and the Swing stopper.

2.The Hanger (Stabilizer) and the Engine case.

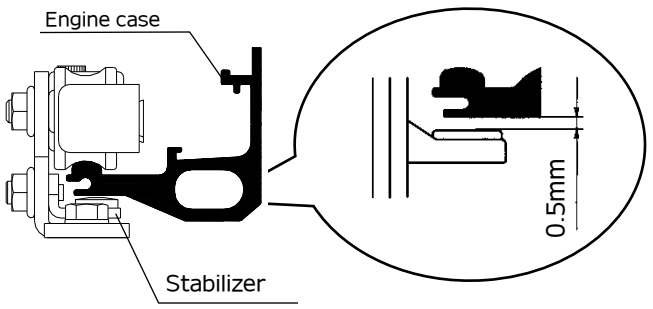
3.The Hanger and the Transom.

4.The door and the frame.

■ Order of adjustment



■Position of Stabilizer

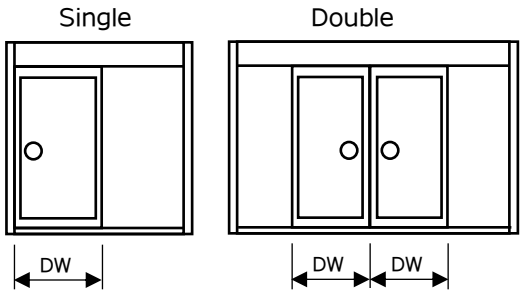


14. Installation of belt

■ Belt length Formula

【Standard for belt cutting size L】 Unit： (mm)

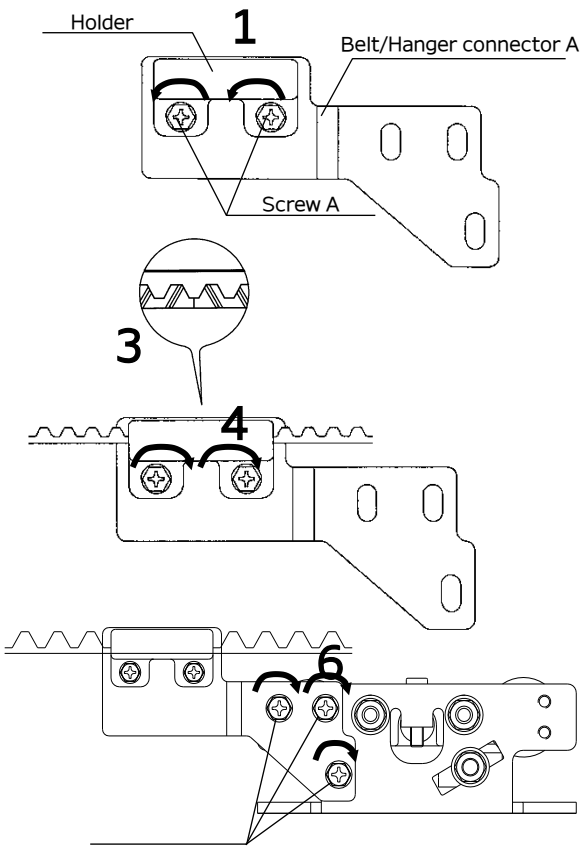
Door leaf	Door width (mm)	Belt length L (mm)
Single	600～1025	(DW-100) ×4
	1025～1065	3700
Double	600～912.5	2 (DW-100) ×4
	912.5～1050	6900
	1076～1265	8200



【Caution】
The data above are for reference, please adjust after checking the real size.

Single

■Mounting order of Belt holder A



1. Loosen the screw A (M5) and remove the Holder from Belt/hanger connector A.

2. Cut the belt according to the Belt length Formula.
【Caution】 Cut belt at the wave bottom.

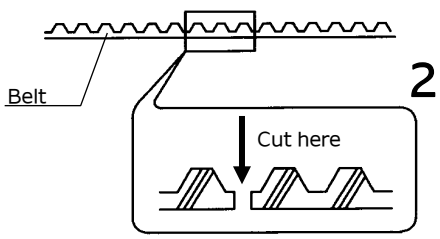
3. Put the two ends of belt into the middle of the Holder.
【Caution】 Do not twist the belt.

4. Mount the Holder on the Belt/hanger connector A with screw A (M5).
【Caution】 Make sure that the direction of the Holder is right.

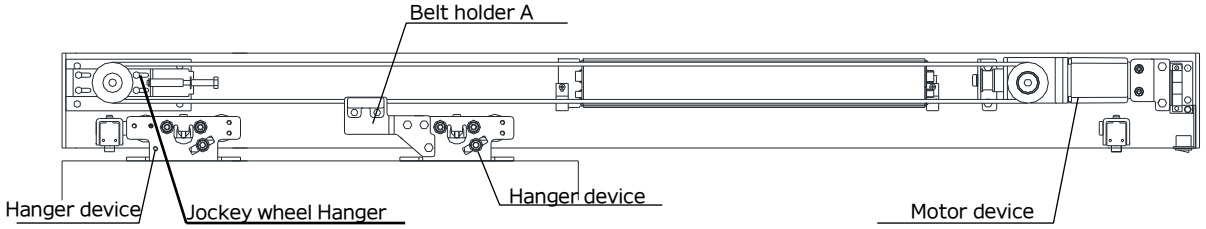
5. Hang the Belt to the pulley of Motor device and the pulley of Jockey wheel device.

6. Connect the Belt holder A to the Hanger device with 3 screws B (M6×12) according to Position of Belt holder A.
【Caution】 Fasten the bolts with wrench, socket spanner and other tools.

■ Cutting position



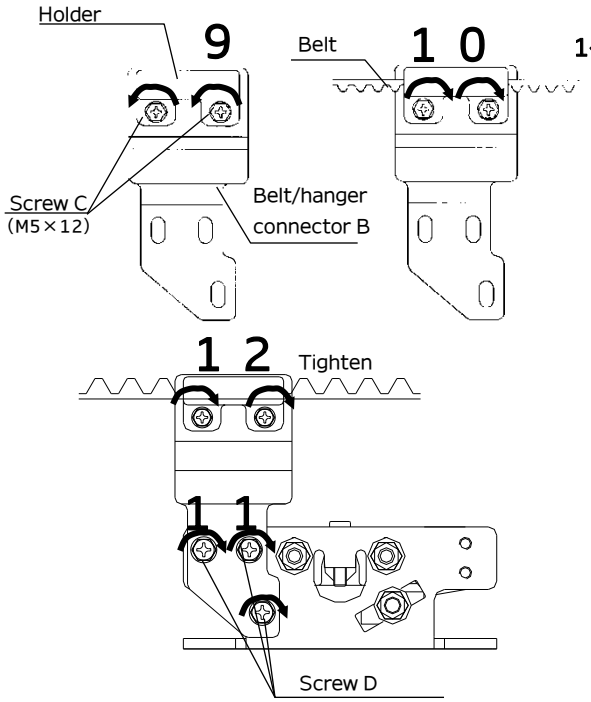
■Position of Belt holder A



14. Installation of belt

Double

■Mounting order of Belt holder B



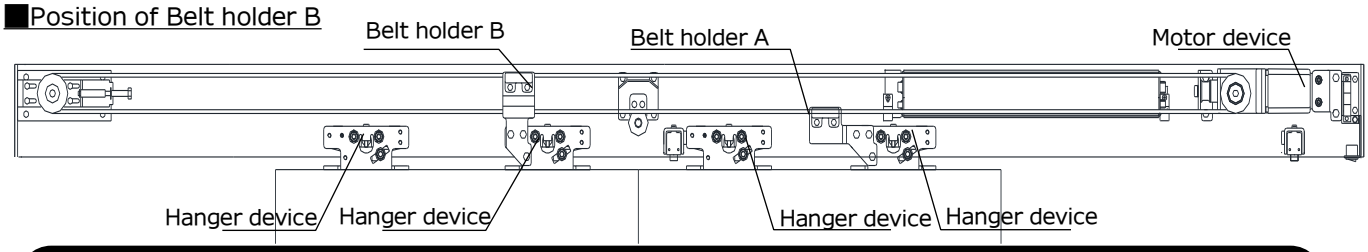
1～6. According to **14. Installation of belt** single installation

7. According to **15.Belt Tension Adjustment** (P11), adjust the belt tension.
8. Close the doors entirely.
   Lock the doors if you have lock.
9. Loosen the screw C (M5) and remove the Holder from Belt/hanger connector B.
10. According to Position of Belt holder B, insert the belt into the Holder and mount the Holder to the Belt/hanger connector B with screws C (M5).
11. Connect the Belt holder B to the Hanger device with 3 screws D (M6×12).

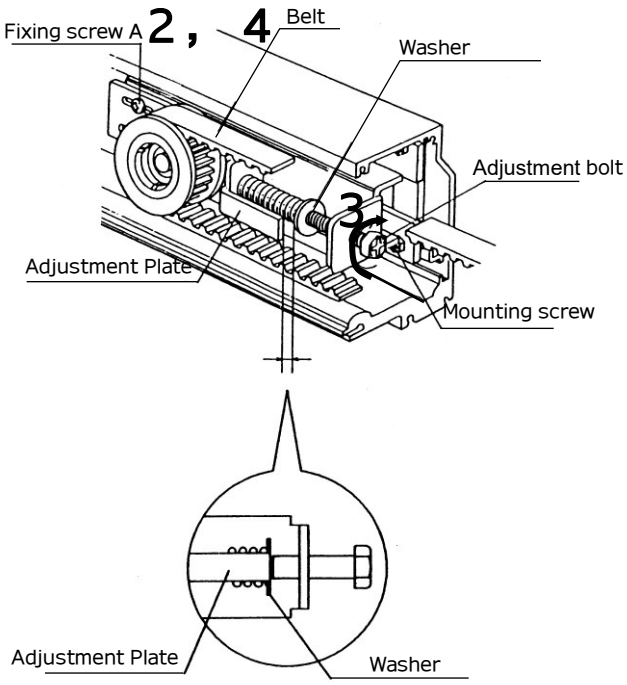
【Caution】 Tighter the screws with a screwdriver.

12. Once the door position is adjusted, fasten the bolt C.

■Position of Belt holder B



15. Belt Tension Adjustment



1.Pull the Jockey wheel device to the left side by hand to tighter the belt, then keeping the belt taut, tighten the mounting screws.

2.Loosen the 2 fixing screws.

3.Turn the adjustment bolt clockwise to adjust the belt tension.

【Caution】 The adjustment is correct when the end of adjustment plate just overlaps the washer (as viewed from the front).

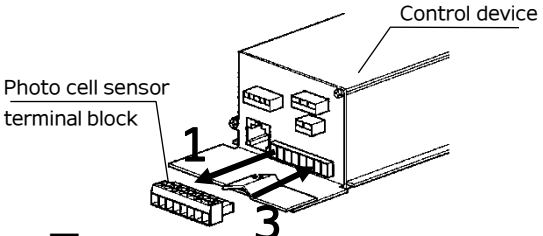
4. Tighter the 2 fixing screw firmly.

16. Connecting the Photo Cell Sensors

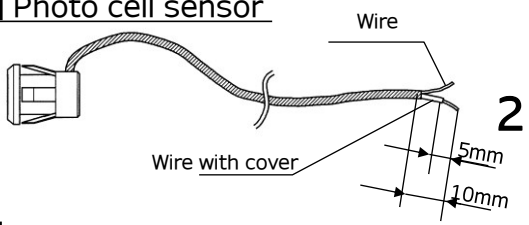
Connector for Photo cell sensor

■ Connector for Photo cell sensor

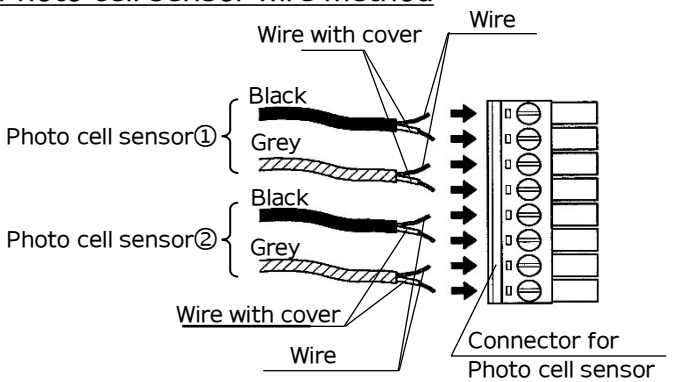
(Left side of control device)



■ Photo cell sensor



■Photo cell sensor wire method



1. **Remove the attched Photo cell sensor terminals.**
2. **Strip the insulation film from the photo cell sensor's flexible wire and securely connect it to the Photo cell sensor 's terminal.**

【Caution】

Please refer to the diagram for connection.
Improper connection may result in malfunction.

3. **Firmly install the terminal connected to the photo cell sensor 's flexible wire into the control device.**

【Caution】

Please insert it into the bottom well.
Improper connection may result in malfunction.

【Caution】

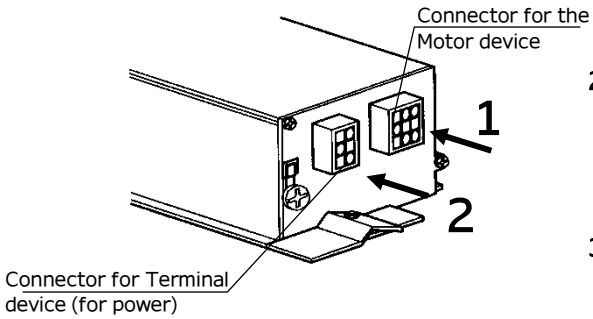
Do not mistake the wiring position of the wire and the wire with cover.
Improper connection may result in malfunction.

【Caution】

The photo cell sensor needs to be checked regularly to ensure that it is operating properly.

17. Anchoring the Control Block

■ Right side of the Control block



1.Connect the Motor device lead wire to the Control block.

【Caution】 It may result in faulty operation if the connection is not handle properly.

2.Connect the Terminal device (for power) lead wire to the Control block.

【Caution】 Pass the lead wire above the Motor device.
It may result in faulty operation if the connection is not handle properly.

3.Connect the Terminal device (for service terminal) lead wire to the Control block.

〈Optional the Terminal device (for service terminal)〉

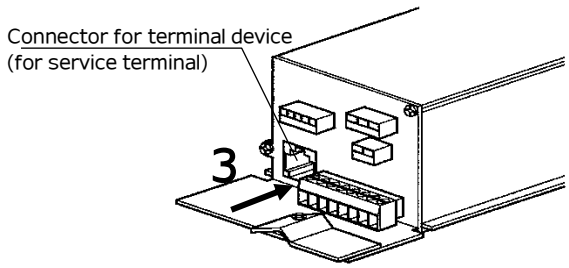
4.Fasten the wires firmly with the clamp.

【Caution】 It may result in faulty operation if this item is not handle properly.

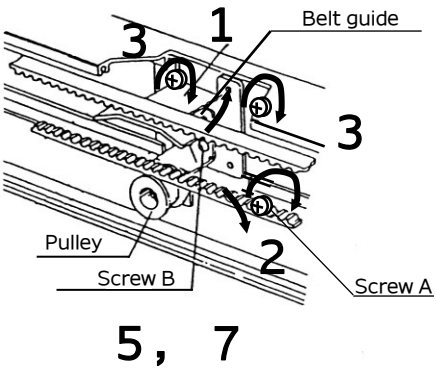
5.Tighten the mounting screw.

【Caution】It may result in falling if this item is not handle properly.

■ Left side of the Control device



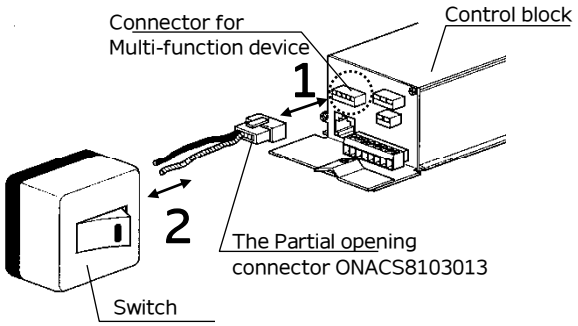
18. Installation of Belt Guide (optional double)



【Caution】⚠ Incorrectly handle item 1~3 will result in falling.

1. Insert the Belt guide into the upper groove.
2. Let it slip into the lower groove.
3. Tighten the screw A firmly.
4. Pass the belt above the pulley.
5. Loosen the screw B.
6.Adjust the pulley up or down to keep the belt horizontally.
7. Tighten the screw B.

19.Connecting the Partial opening connector
(optional the partial opening connector)

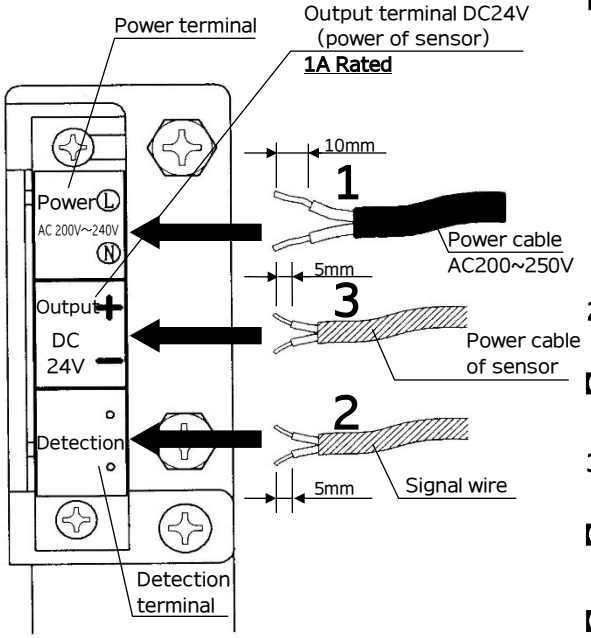


1. Connect the Partial opening connector (ONACS8103013) to the control block.

2. Connect the lead wire of Partial opening connector to the switch.

【Caution】
Use wire of 0.5mm in thickness and no more than 10m in length.
Please mount the switch in place where it can not be touched by unauthorized persons or children.

20. Connecting Power and Sensor



1.Connect the power cable to the power terminal securely.

【Caution】⚠ Power supply should be AC200~250V.
It will result in fire and electric shock if contact with the power.
The length of cable cover peeled off is shown in the left figure. Please do not contact the wire with any other part beside the power terminal, otherwise,there will result in electric shock.
Do not insert power cable into the other terminal, otherwise, there will result in failure.
Please connect securely, otherwise, there will resultin fire because of bad transmission.

2.Connect the signal wire of sensor （yellow and white） to the detect terminal.

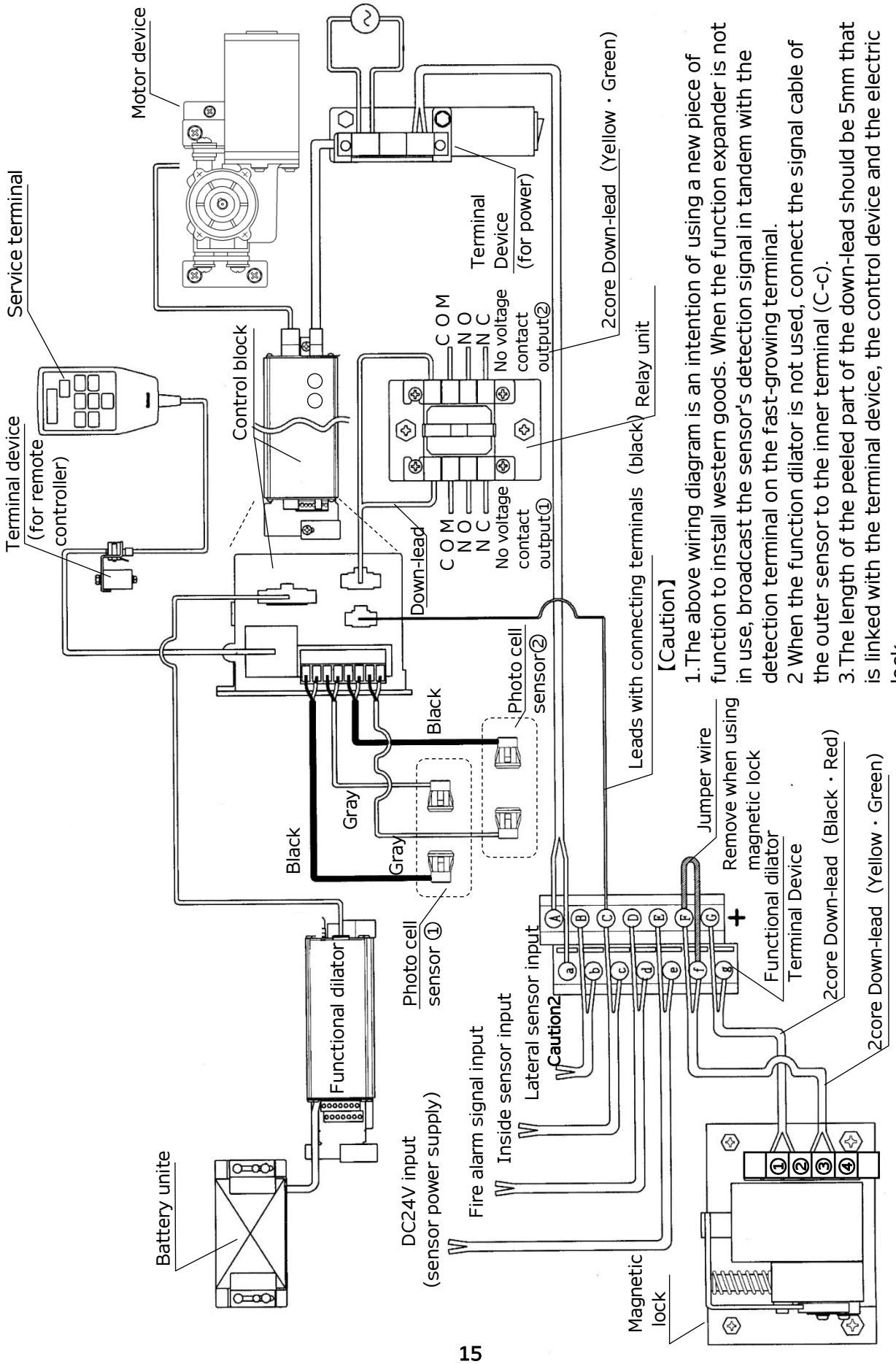
【Caution】⚠ Please connect securely, otherwise, there will Result in fire and electric shock because of bad transmission.

3.Connect the power cable of sensor （grey） to the output terminal （DC24V）.

【Caution】⚠ Do not use any instrument that its rated current over 1A, otherwise, there will result in fire and failure.

【Caution】 Please use a sensor that its voltage is accordant. Please read sensor manual carefully before install it. There will result in failure if installation is not handled properly.

21.Connection Diagram



【Caution】

1.The above wiring diagram is an intention of using a new piece of function to install western goods. When the function expander is not in use, broadcast the sensor's detection signal in tandem with the detection terminal on the fast-growing terminal.

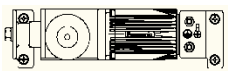
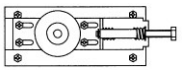
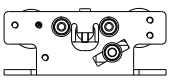
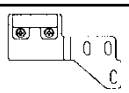
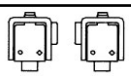
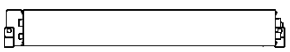
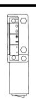
2 When the function dilator is not used, connect the signal cable of the outer sensor to the inner terminal (C-c).

3.The length of the peeled part of the down-lead should be 5mm that is linked with the terminal device, the control device and the electric lock.

4.Please use wires with its thickness more than 0.5mm when the signal wire is to be prolonged.

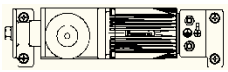
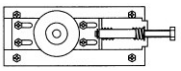
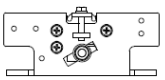
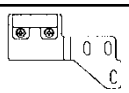
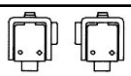
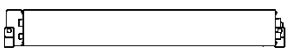
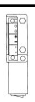
22. Table of Parts for Engine Unit

■Table of Parts for Engine Unit （120kg）

Engine Unit				ONACS88428K	ONACS88438K	ONACS88448K
Door				Single	Double	
Door weight				Max.120kg×1	Max.120kg×2	
Part name		Model	Sketch map	Quantity		
Motor device		ONKXR21202K		1	1	1
Jockey wheel device		ONKA8101002		1	1	1
Hanging device		ONACS812403K		2	4	4
Belt holder A		ONKA8216608		1	1	1
Belt holder B （for double type）		ONKA8217608		–	1	1
Belt	Single （3.7m）	ONKXR2154037		1	–	–
	Double （6.9m）	ONKXR2154069		–	1	–
	Double （8.2m）	ONKXR2154098		–	–	1
Stopper device （2pcs/set）		ONKA8116109		1 set	1 set	1 set
Control block		ONKA8212651K		1	1	1
Terminal device （for power） （surface type）		ONKA8212611		1	1	1
Belt guide		ONKA8122024		–	1	1
Sticker （2pcs/set）		ONKA8216105		1 set	2 set	2 set
Lead wire clamp （5pcs/set）		ONKA8116113		1 set	1 set	1 set
Hanger bolt set		ONKA8101009 Bolt M8x30 （4pcs/ set） Washer （4pcs/ set）		1 set	2 set	2 set
Belt fixing bolt		Bolt M6×12 （3pcs/ set）		1 set	2 set	2 set
Installation manual		—	—	1	1	1

22. Table of Parts for Engine Unit

■Table of Parts for Engine Unit （150kg）

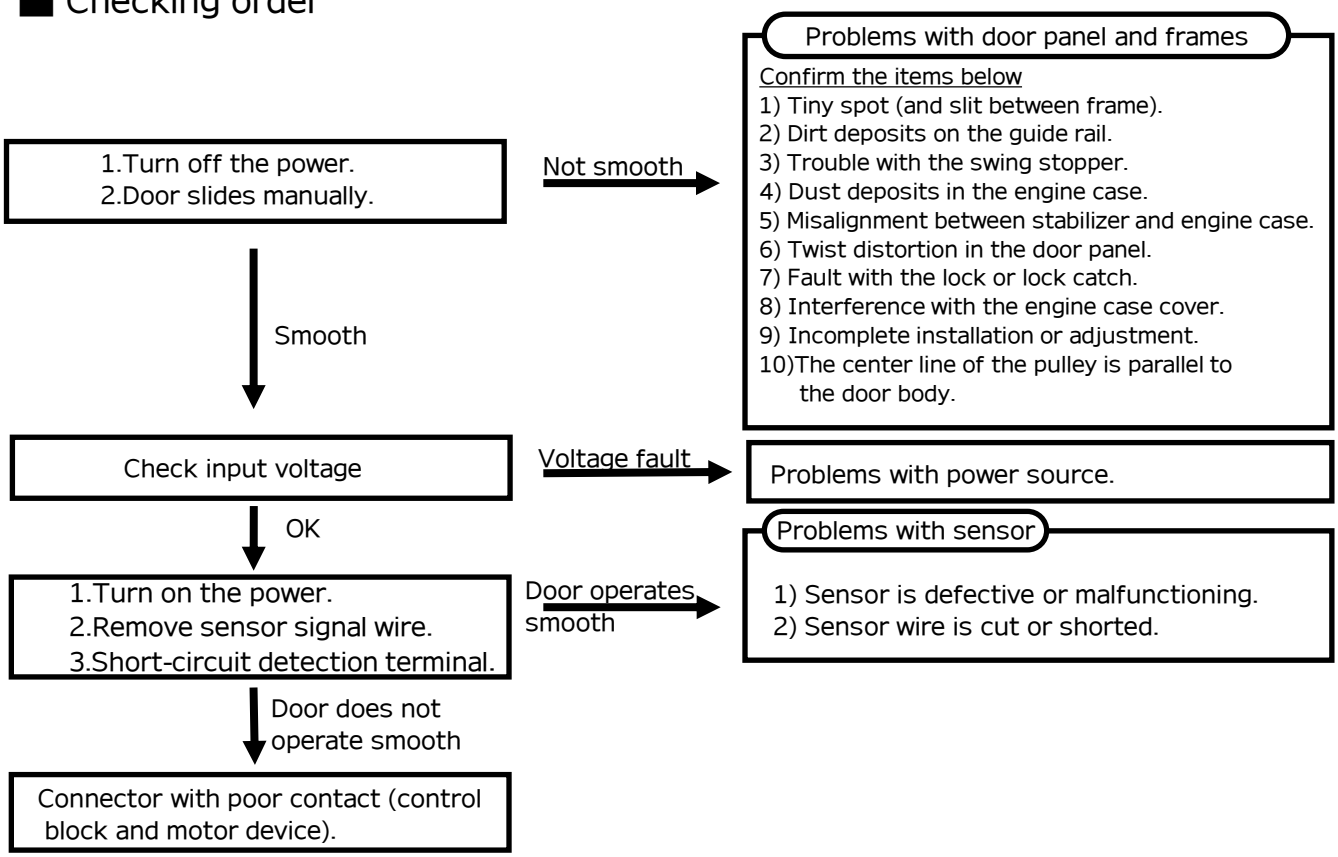
Engine Unit			ONACS88228GK	ONACS88238GK	ONACS88248GK
Door			Single	Double	
Door weight			Max.150kg×1	Max.150kg×2	
Part name		Model	Sketch map	Quantity		
Motor device		ONKXR21502K		1	1	1
Jockey wheel device		ONKA8101002		1	1	1
Hanging device		ONACS8226604K		2	4	4
Belt holder A		ONKA8216608		1	1	1
Belt holder B （for double type）		ONKA8217608		–	1	1
Belt	Single （3.7m）	ONKXR2154037		1	–	–
	Double （6.9m）	ONKXR2154069		–	1	–
	Double （8.2m）	ONKXR2154098		–	–	1
Stopper device （2pcs/set）		ONKA8116109		1 set	1 set	1 set
Control block		ONKA8212601K		1	1	1
Terminal device （for power） （surface type）		ONKA8212611		1	1	1
Belt guide		ONKA8122024		–	1	1
Sticker （2pcs/set）		ONKA8216105		1 set	2 set	2 set
Lead wire clamp （5pcs/set）		ONKA8116113		1 set	1 set	1 set
Hanger bolt set		ONKA8101009 Bolt M8x30 （4pcs/ set） Washer （4pcs/ set）		1 set	2 set	2 set
Belt fixing bolt		Bolt M6×12 （3pcs/ set）		1 set	2 set	2 set
Installation manual		—	—	1	1	1

23. Checking after installation

Item	Confirm
1. All parts install correctly.	
2. There is on resistance to travel when opening and closing the door by hand.	
3. Lead Wire is connected correctly.	
4. Fasten the lead wires firmly with the clamp.	
5. There should be no dust deposits in the Engine case (especially on guide rail) .	

24. Troubleshooting

■ Checking order



24. Troubleshooting

Symptom	Possible Cause	Check	Solution
Door movements are too slow.	● Door opening or closing speed is set too low.	Check the data of opening or closing speed.	Change the setting data
	● Amble space is set too long.	Check the data of Amble space.	Change the setting data
	● A person was hit by the closing door, causing an error mode.		Let the door close by the sensor detection of people pass.
	● Excessive moving resistance.	Cut off power supply and open the door manually · Make sure there is no rubbish in the rail. · Check if the lock at the lower part of the door leaf becomes loose. · Check if the sway stopper contacts the guide rail and lock hole due to damage or loose. · Check if there is any barrier.	· Clear the rubbish. · Fasten the lock properly. · Mount the sway stopper correctly. · Clear the barrier.
	● Door weight exceeds 100kg ×2.	Check the door weight.	Reduce the door weight.
Space between the doors is too small when closing	● Amble speed is too quick.		Reduce the amble speed.
	● Amble space is too short.		Increase the amble space.
Door remains inoperative	● The power is turn off.	Check the circuit breaker.	Turn on the power. 【Caution】 If breaker turn off again, please contact with construction unit.
		Check the power switch for the Engine unit.	Turn on the switch.
	● Sensor malfunctions	Short-circuit sensor detection terminal to confirm whether the door operate.	Replace the sensor.
	● Sensor signal wire cut off		Replace the sensor signal wire.
	● Door is locked.	Confirms the door whether is locked	Unlock the door.
	● Dirt deposits on the guide rail.	Turn the power off and check whether the door slide smoothly.	Clean the guide rail.
	● The sliding friction is too high.	Turn the power off ,slide the door by hand, then check the sliding friction .	Remove the obstacle and garbage.
		Check the display of remote controller · Display OC └Turn on the power ├Display OC ,no operation. └Display door ,operate normally · Display OL ├Turn power off and check obstacles. └Whether weight of the door and setting is accordant. · Display bE- └Check whether belt is sever. · Display CPU └Turn on the power ├Display CPU, no operation. └Display Door, operate normally	Replace control block Normal Cleaning Change setting data. Replace the belt. Replace control block Normal
The door does not open completely.	● The door is in partial opening mode.	Check the partial switch or operation selector.	Switch to normal opening mode.
	● Door weight exceeds 100kg ×2.	Check the door weight.	Reduce the door weight.

24. Troubleshooting

Symptom	Possible Cause	Check	Solution
The door does not close.	● Sensor is continuously activated.	There is a moving object in the detection area.	Remove the object.
		There is not a moving object in the detection area.	Replace the sensor.
	● Photo cell sensor is continuously activated.	There is dirt on the sensor head.	Clean the sensor head.
		Either of the sensor heads is incorrectly aligned.	Adjust the sensor head.
	● Sensor signal wires are short-circuited.	Whether the door dose close after remove the signal wire.	Replace the sensor signal wire.
The door dose not operate properly at random.	Sensor malfunctions ◆ Using Active Infrared sensors: ● Dirty detection window.		Clean the window with a soft cloth with detergent.
	◆ Using Passive Infrared sensors: ● Sensitivity is too low.		Adjust sensitivity.
	● Temperature of detection area is close to man’ s temperature.		Change sensor type.
	● Forklifts, pushcarts.		Adjust the detection area.
	● Supply voltage is unstable	Check the sensor power supply terminal.	Correct the supply voltage.
The door opens or closes when no one is at the door.	Sensor malfunctions ◆ Using Active Infrared sensors ● A moving object exists in the detecting area.		Adjust the detection area. Remove the moving object.
	● A strong source of radio waves is in the vicinity.		Remove the source of radio waves.
	● Dogs, cats		Normal
	● The detection area overlaps with that of another sensor.		Set the different frequency switch.
	● Fluorescent or neon lamps exist in the detection area.		Adjust the detection area. Remove the Fluorescent and neon lamps.
	● Some condition has changed in the detection area. Ex. Snow has fallen and footprints have been left in it.		Normal
	● The door is in the detection area.	The sensor is activated by door movements.	
	◆ Using Passive Infrared sensors:	◆ Refer to items above of Active Infrared sensors.	Adjusts the detection area.
	◆Using other type sensors: Sensitivity is too high.		Adjust the sensitivity.

24. Troubleshooting

Symptom	Possible Cause	Check	Solution
The door’ s action is reversed --- The door closes when people come and opens when people goes away	●Double open door The left and right belt connection hardware fitting are reversed.	Check if the connection hardware fitting are reversed.	Install the belt connection hardware fittings according to the principle of “left up and right down”.
	●Single open door The opening direction setting is reserved.	Check door opening direction setting value.	Adjust the door opening direction setting value in the parameter settings.
The door operates slowly --- overload	● Excessive door moving resistance.	Check if the door moving resistance is excessive.	Reduce the excessive door moving resistance due to causes above.
	●Excessive door weight, poor rail levelness, friction between moving part and fixed part, excessive wind speed (over level 5), rail friction, pulley friction, etc.	Check the door weight, guide rail, pulley and other parts as well as surrounding environment for abnormality.	
The door easily derails.	● Anti-dropping device gap incorrect	Check if the anti-dropping device gap is excessive.	Adjust the anti-dropping device gap (0.5mm) to reduce the abnormal impact on the door in operation.
	● Notch at the lower edge of the rail deforms.	Check if the notch at the lower edge of the rail deforms.	
The door has squeak sound in slow moving stage	● Due to improper installation or deformation of the belt connection hardware fittings, the belt is not in the same place, causing friction between the belt and the belt pulley (driven wheel or motor) edge.	Check if the belt is in the same plane.	Adjust the belt connection hardware fittings to ensure the belt is in the same plane
The door shakes in operation	● Light weight of the door and excessive starting force and braking force lead to shaking of door.	Check the setting values of starting force and braking force.	Adjust the starting force and braking force to enable smooth door operation.

25. Specification

■120kg series

Door		Single	Double
Installation method		Surface type	Surface type
Door weight		Max.120kg×1	Max.120kg ×2
Door width		600~1250mm	
Motor		DC24V 50W brushless motor	
Open speed		16～44cm/Second (adjustable) ※	14～30cm/Second (adjustable) ※
Close speed		11～40cm/Second (adjustable) ※	10～29cm/Second (adjustable) ※
Opening time		0～9sec (adjustable)	
Partial opening		Adjustable 20~90%of Full-open width, need partial opening connector ONKA8103013	
Manual force		44N (4.5kgf)	47N (4.8kgf)
Knock detector		Bounce back in knocking test (setting by remote control)	
Voltage		AC200～250V 50/60Hz	
Input current (AC200V) (without sensor)	Standby	0.3A	
	Operation	4.8A	5.0A
Environment temperature		-20～+50℃	
Operation mode		Detect → door opening→ brake → slow move→ stop (open status) → door closing →brake → slow move→ stop (closed status)	

※Average speed of moving 60cm from opening or closing position.

■150kg series

Door		Single	Double
Installation method		Surface type	Surface type
Door weight		Max.150kg×1	Max.150kg ×2
Door width		600~1250mm	
Motor		DC24V 50W brushless motor	
Open speed		14～41cm/Second (adjustable) ※	14～34cm/Second (adjustable) ※
Close speed		11～39cm/Second (adjustable) ※	10～34cm/Second (adjustable) ※
Opening time		0～9sec (adjustable)	
Partial opening		Adjustable 20~90%of Full-open width, need partial opening connector ONKA8103013	
Manual force		27.1N (2.8kgf)	38.2N (3.9kgf)
Knock detector		Bounce back in knocking test (setting by remote control)	
Voltage		AC200～250V 50/60Hz	
Input current (AC200V) (without sensor)	Standby	0.13A	
	Operation	1.44A	1.44A
Environment temperature		-20～+50℃	
Operation mode		Detect → door opening→ brake → slow move→ stop (open status) → door closing →brake → slow move→ stop (closed status)	

※Average speed of moving 60cm from opening or closing position.

26. Selection of Materials and Optional Parts

Door			Single	Double
Installation method			Surface type	Surface type
Materials	Engine Case (Length/mm)	2,100		ONACS85151
		2,500	ONACS85121	ONACS85121×2
		4,200		ONACS85130×2
Optional Parts	Function expansion device		ONACS85817K	
	Electric lock type electromagnetic lock (12V) Extension connector 1(control device a motor)... 1 Bearing seat metal... 1 extension connector 2 (control device/function expander)... 1 lead with connector "(control device a function expansion device)... 1 Lead (electromagnetic lock a function expansion device)... 2		ONGXSD200	
	Photo cell sensor (Photo emitter and photoreceptor)		ONACS83493	
	Photo cell sensor and connector set ・ Photo emitter and photoreceptor Connector		ONACS83494	
	Operate of the Remote controller		ONACS85860	
	Remote controller		ONG-DGN-2KZ	

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