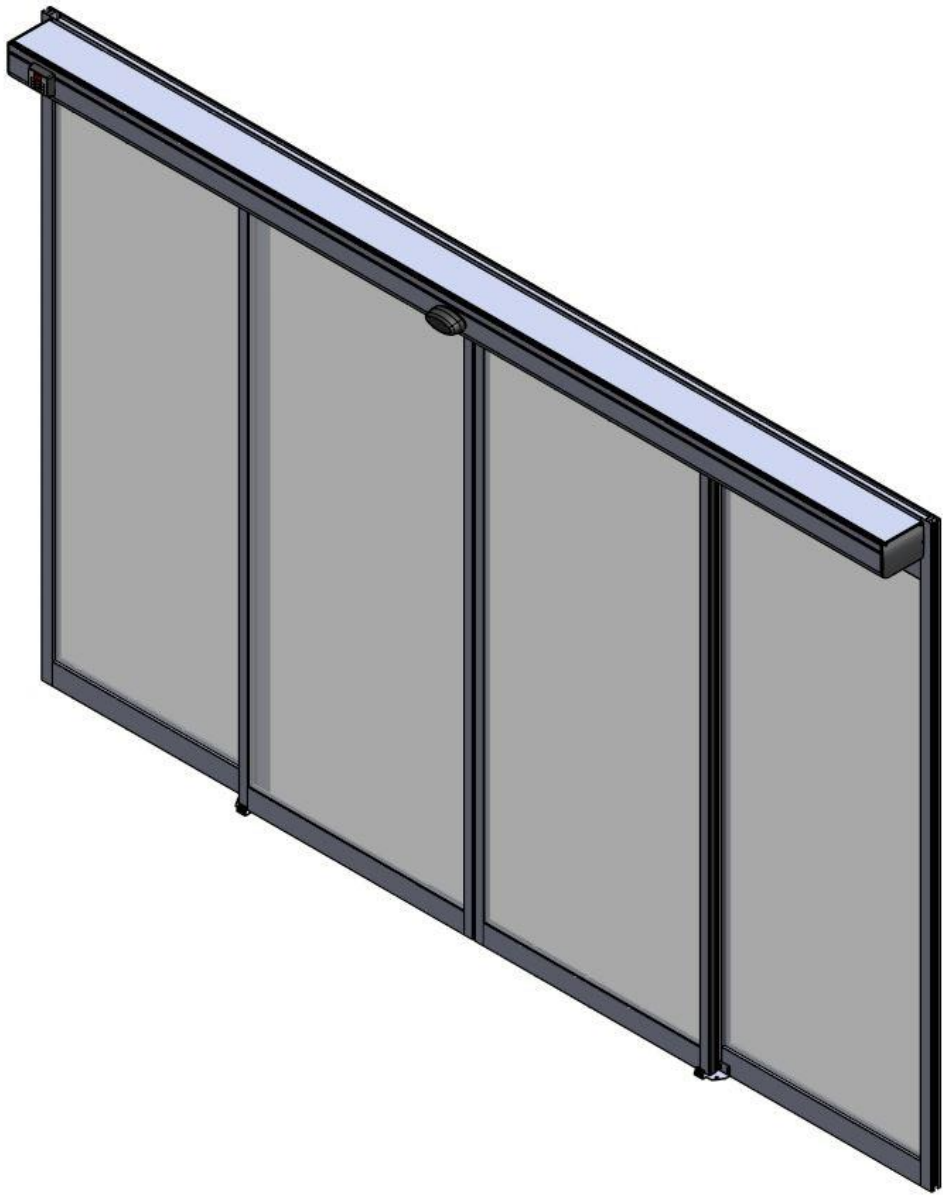


INTRODUCTION & OPERATION MANUEL

TYPE : SLIDING DOOR SYSTEMS
TRADEMARK : ERS SYSTEMS
VERSION : IMAGE MODEL (28S ,36S FRAMES AND GLASS DOORS

CONTENT

WARNING

Inproper installatıon of the automatic sliding doors may cause injuries of the goods and people around.

Inproper installatıon of the automatic sliding doors may cause injuries of the goods and people around.

Please apply daily safety check rules regularly.

Install the automatic sliding doors and adjust the system per to instructions given under this manual.

All Safety tolls should be ready to use all the time.

Your door should be serviced by Autorized Service people one a year.

In this manual;

Warning, means İf you do not fallow yhe installatıon ad adjustment proceedures properly, the system may cause demages for the goods an people around.

To our customers;

To purpose of this manual is to introduce. The purpose of this manual is to provide information for your automatic sliding door and make all the adjustment per to manufacturer recommendations.

As owner of the door, it is your responsibility to control system operation for safer usage.

This manual describes main functions and daily safety control instructions.

If you notice any kind of disorder in operaton, please do not try to make adjustments by yourselves, call authorized service immediatley.

Daily Safety Checks (All drawings are prepared for the demonstration purpose only)

Please proceed all the daily safety check and controls regularly for each door. All controls should be applied on the active radar and safety photocell area.

RADAR ACTIVATION

1. Please adjust the radar so that they can feel and open the door miumum 0,5 to 1 second before poople enter the door. The door should be opening and stoping smootly. The door should be stay open minumum 1 second if there is no people around. The closing time delay could be increased depending on the usage.


Picture 01


Picture 02

NOTE

If the door opens only to one direction, the safety photocell should be used on the other side. Safety photocell should be active about 6 seconds and allow the door close smootly if there is no people around.

2. Please indicate the opening direction of the door so that the people can see the passageway properly.
3. Adjust radar distance minumum about net opening width so taht the door does not open while people walking parallel to door.

WARNING

Please use safety glass on the sliding leaves (Laminated or tempered) to reduce risk of injury in case people hits the door.

INTRODUCTION

We would like to thank to choose our product. Please read this full manual carefully.

We are not responsible from any installation performed without reading and applying the rules listed in this manual.

Picture 03

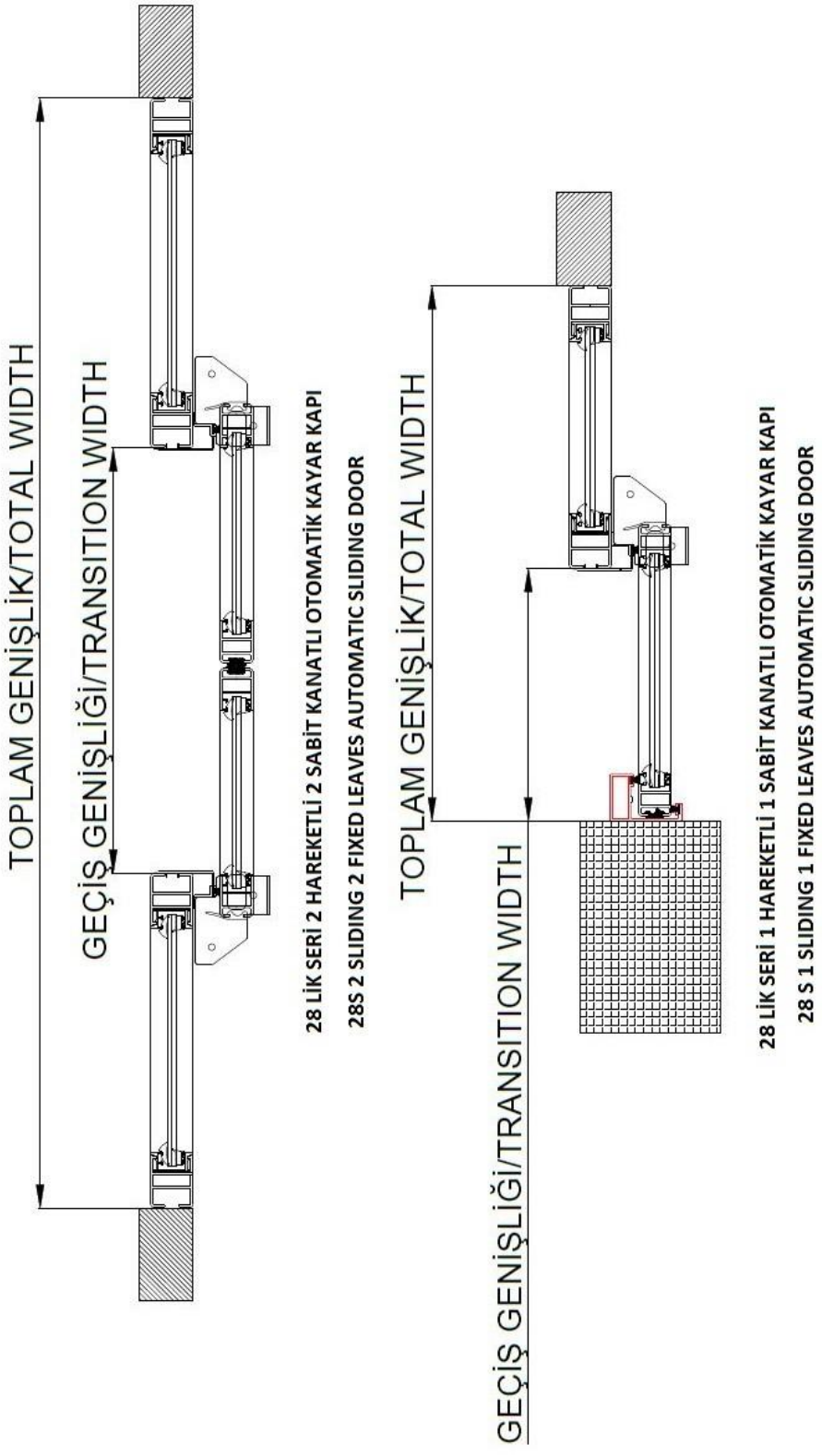
TOOLS


Picture 04
Drill

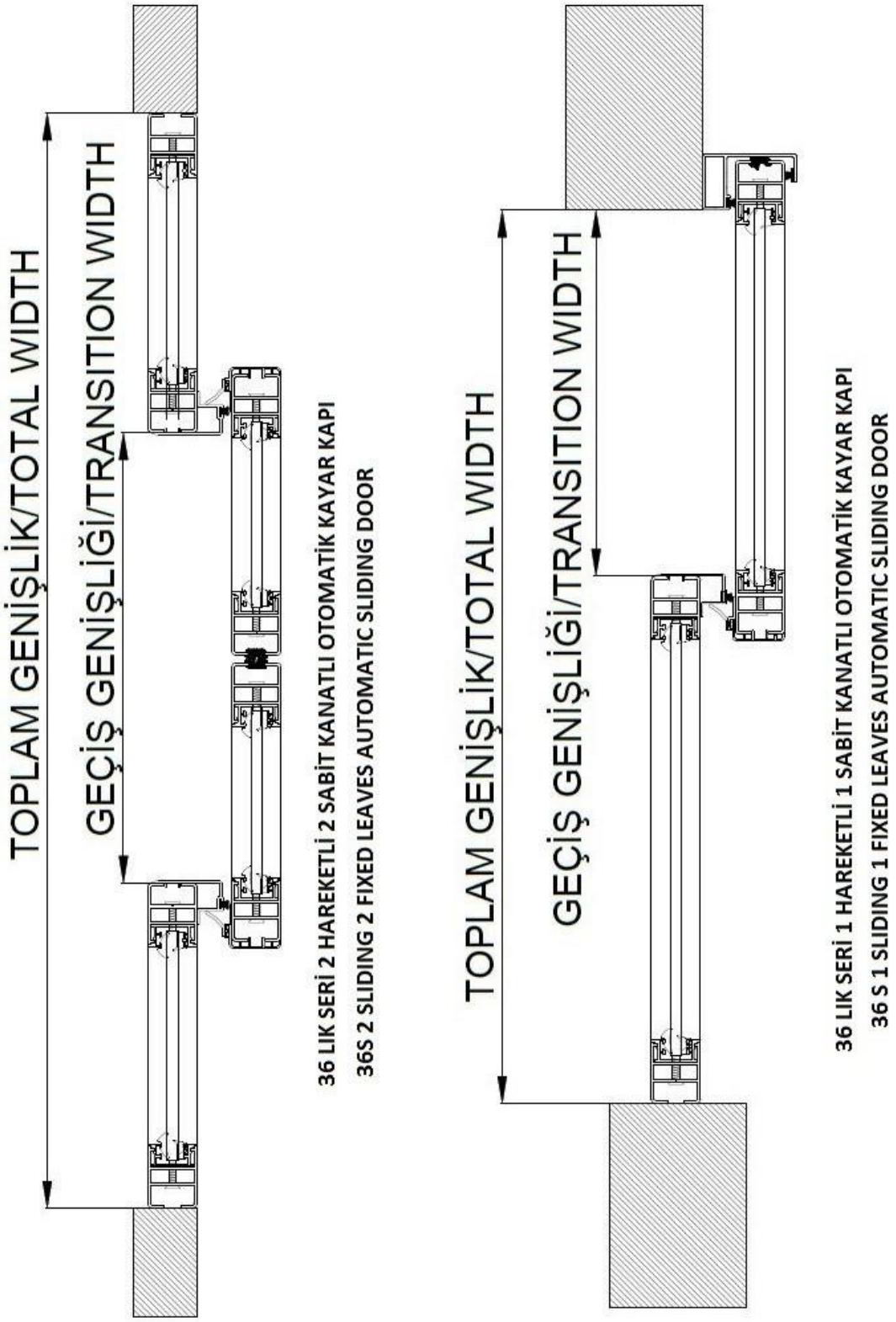

Picture 05
3mm screw driver


Picture 06
Spanner number 10 and Wrenc

1.1 DETAILED DRAWING OF AUTOMATIC SLIDING DOOR FOR 28 SERIES

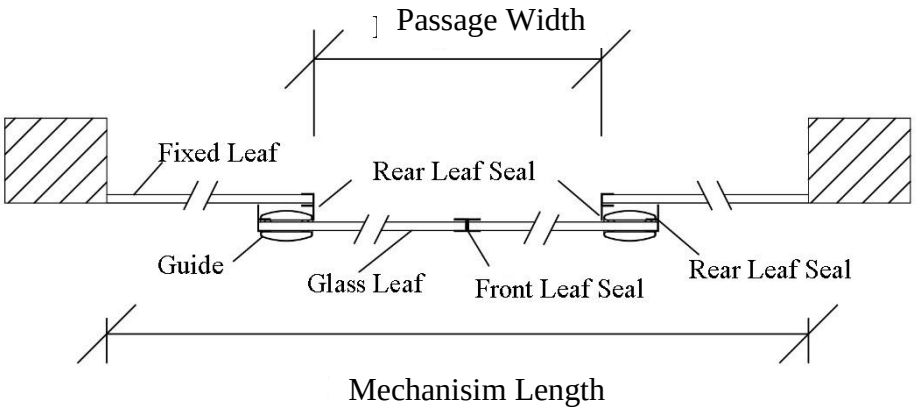


1.2 DETAILED DRAWING OF AUTOMATIC SLIDING DOOR FOR 36 SERIES

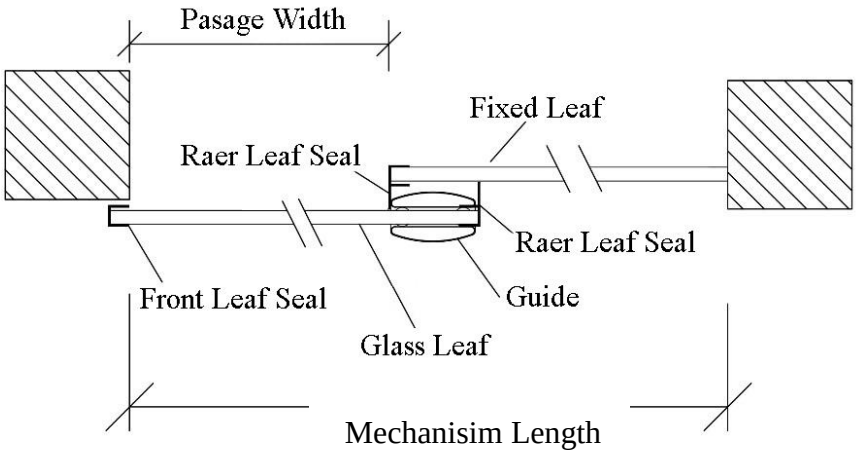


1.3 DETAILED DRAWING OF AUTOMATIC GLASS SLIDING DOOR

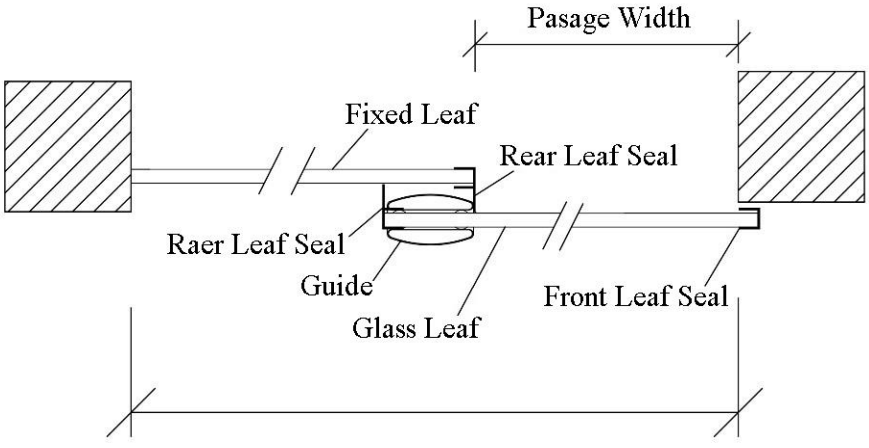
2 MOVING 2 FIXED LEAVES SLIDING



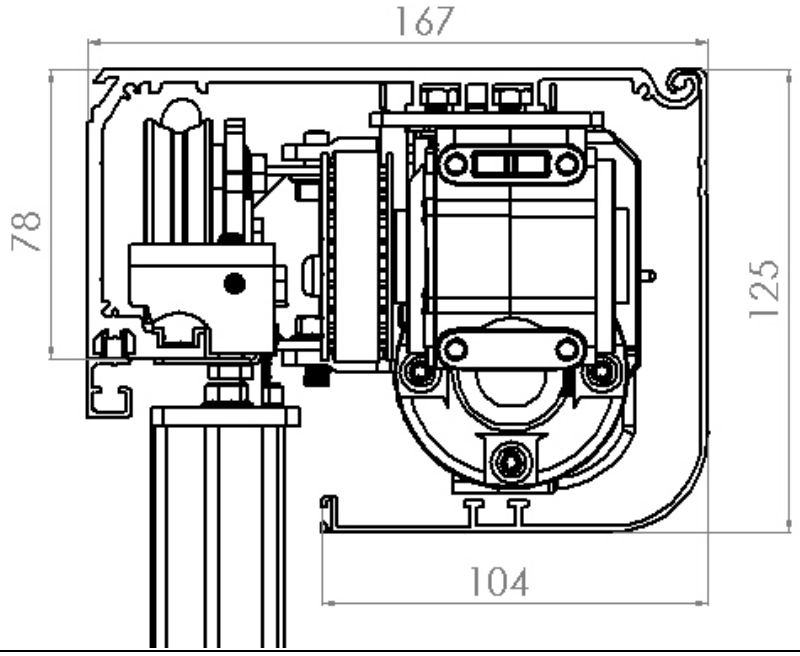
SINGLE LEAF-LEFT OPENING SLIDING DOOR

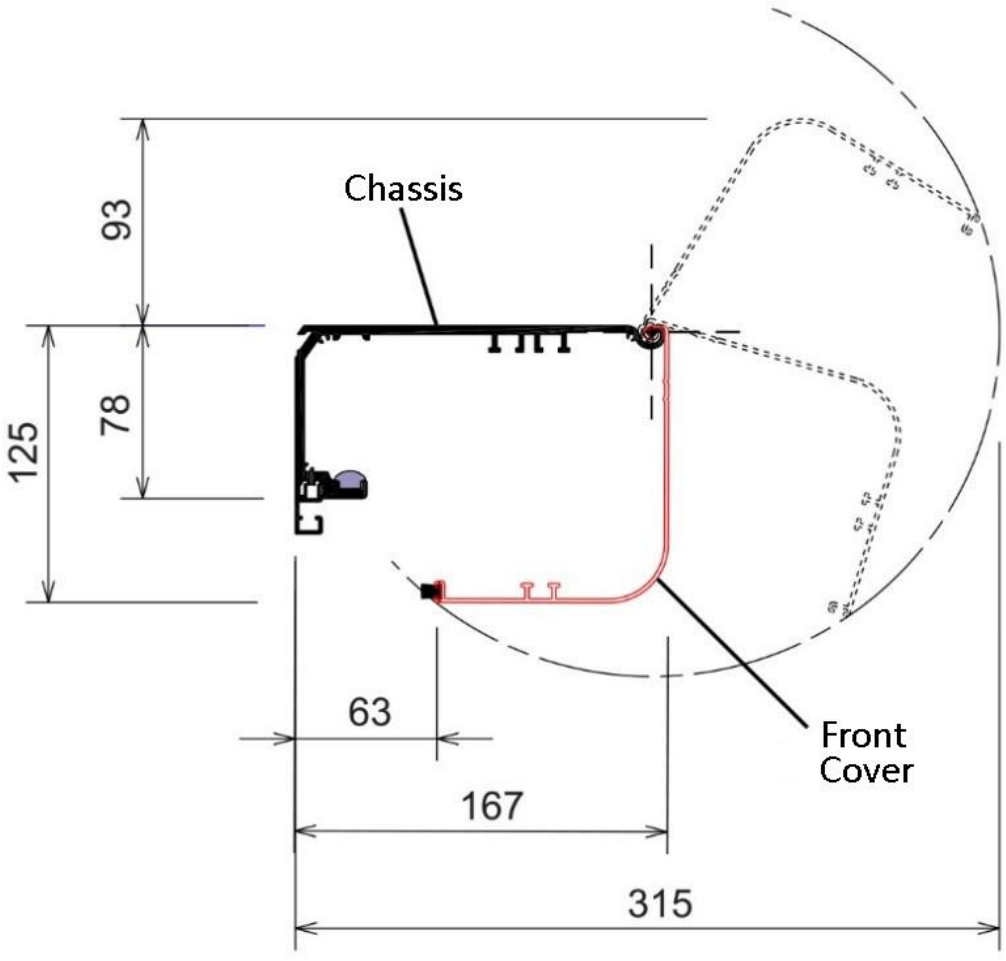


SINGLE LEAF-RIGHT OPENING SLIDING DOOR



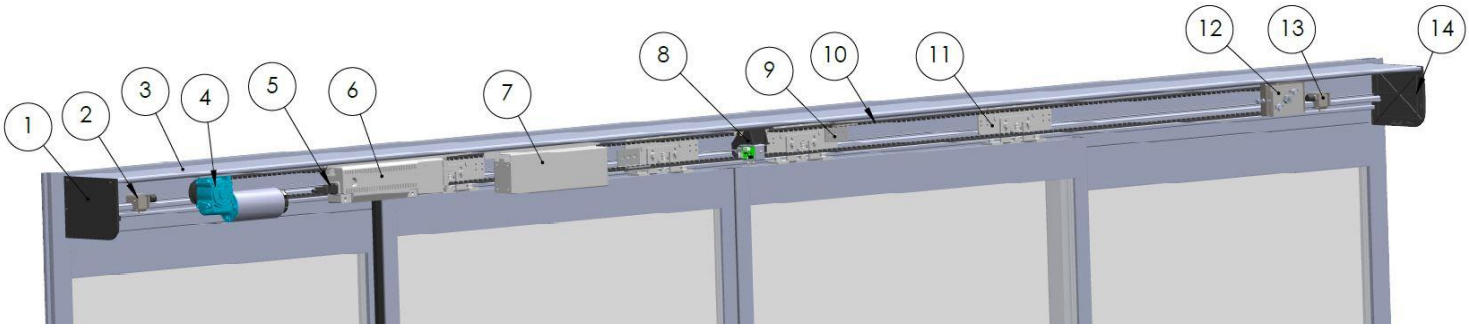
2. CONSTITUTIVE DIMENSIONS OF FIXTURE

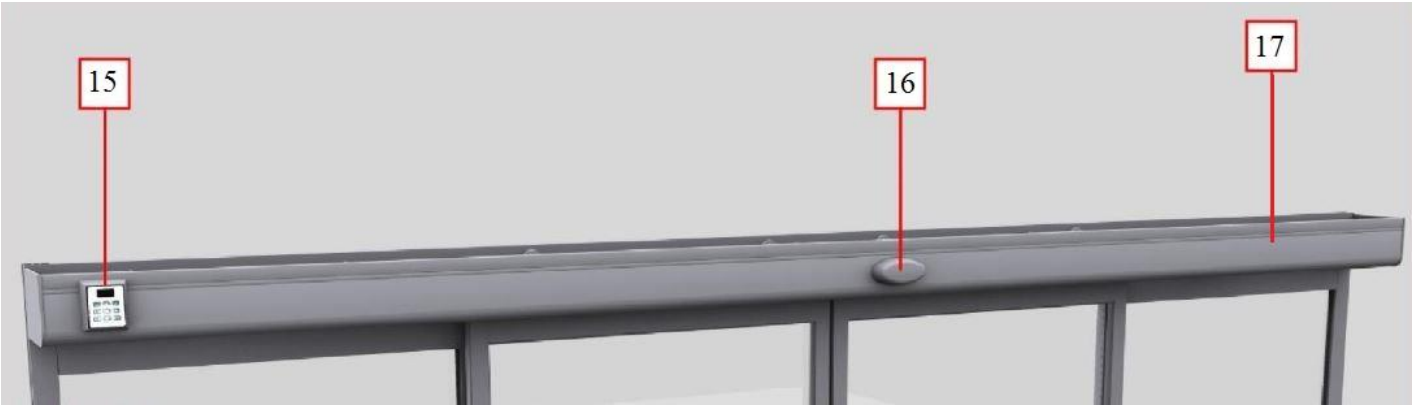




Front Cover mobility

3. AUTOMATIC SLIDING DOOR SPARE PARTS LIST





1. Left Side Cover	10. Drive Belt
2. Left Stopper	11. Carrier Pulley
3. Chassis	12. Counter Pulley
4. DC Geared Motor	13. Right Stopper
5. 220V AC Input	14. Right Side Cover
6. Control Unit	15. Digital Function Selector
7. Battery	16. Radar Sensor
8. Electronic Lock	17. Front Cover
9. Drive Belt Connector	

4. TECHNICAL SPECIFICATIONS

4.1. POWER TRANSMISSION

Engine	**:** 1 of high performance heavy duty DC Geared Motor (DUNKER Germany) with integrated encoder
Power Supply	**:** ~170-260 VAC 50/60 Hz
Digital Function Selector	**:** 6 Position digital touch screen
Maximum Energy consumption:	170W
Passage width	**:** 900 mm – 2200 mm
Fixture/ Chassis Dimension:	Aluminum, 125 x 168 mm
Carrier Unit	: Each leaf supported by 2 pulley carrier (Each carrier pulley contains his balancing roller)
Drive Belt	**:** Specially designed for maximum reliability & long-lasting quiet operations

4.2. ELECTRONIC CONTROL

Design	**:** ERS System
Operation Ambience	**:** +5˚C / +40 ˚C celsius
Digital Function Selector	**:** 6 Position digital touch screen
Operator Status	**:** Auto, On, In, Out, Locked, Winter Mode & Pharmacy Mode
App workspace	**:** Opening Speed, Closing Speed, Open Time, Half Opening Distance, Opening Direction, Applicants password & User password
Obstacle detection system	**:** During opening and closing operations,obstacle recognition feature is always active
Test button	**:** For use after installation and adjustment
Energy saving	**:** The short braking distance allows energy savings by opening and closing the door in less time.
Software update	**:** Software update can be done.
Interlocking	**:** Can be operated when 2 doors connected to each other.
Reset	**:** Reset & Restart opportunities via digital function selector without opening fixture cover
Compatibility	**:** Able to work with all kinds of burglar, fire alarm and access control systems
Error status	**:** Error Code can be seen from digital function selector

5. SIMPLE SETUP

ERS - AUTOMATIC SLIDING DOOR SYSTEM possess smart design features which is completely easy for installation . Assembler can be install as quickly as possible with little effort, besides a practical setup with just a single spanner.

5.1. EQUIPMENTS

ERS - AUTOMATIC SLIDING DOORS carried out in facilities in Turkey durability and long operating runtime tests have been performed

Eloxal carrier fixture unit & cover
Door & leaf guide,
Leaves
Operator-Motor
Main control unit
Digital function selector,
Carrier Pulley kit,
Radar Sensor

5.2. CONVENIENT INSTALLATION LOCATION

The measurement must be accurate , the preparation must be made according to measure. The residual current device must be connected, 220 volt power line must be pulled also contact fuse is required. In order to make the installation simple and healthy, it is necessary to pay attention to the remaining cavity . Our Company declare standard access width as 1600 mm. Below are the measures according to the fixed and movable parts of the door,total area 3300mm , height 2200mm, constant field 850mm , access width 1600mm , fixture basis stated as 125mm .

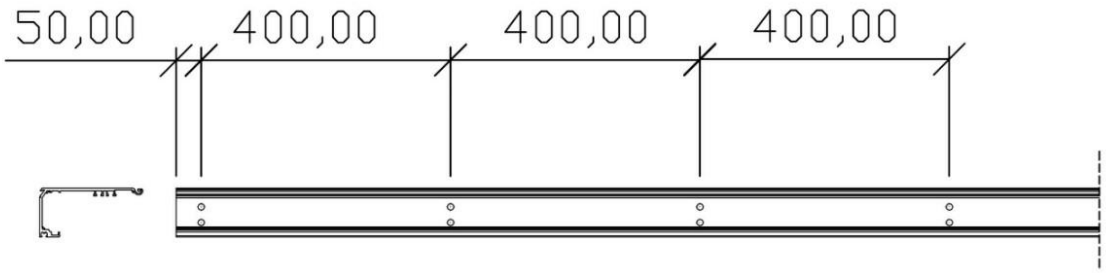
5.3. AUTOMATIC DOOR ASSEMBLY PROCESS

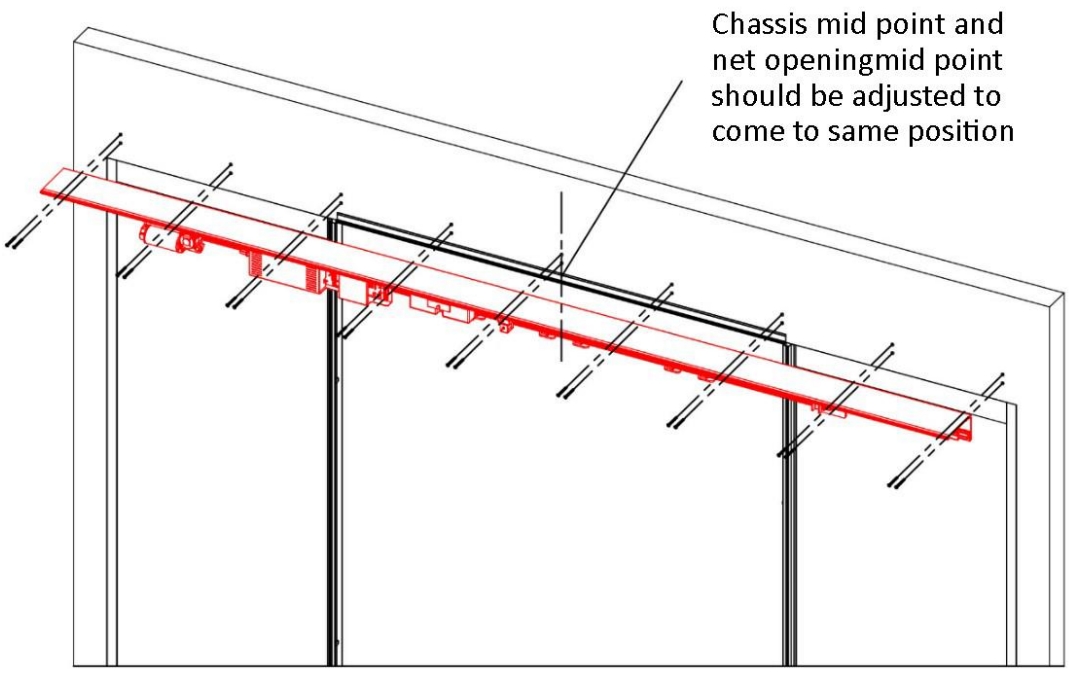
The components should be assembled in the following order.
1.Assemble upper brush profile to the bottom of the tendon
2. Install the fixture/chassis to the tendon profile.
3. Mount right and left drive guide
4. Install safety photocell sensor (**if it available in application**)
5.Install left leaf to fixture/chassi mechanism
6. Install right leaf to fixture/chassis mechanism
7. Adjust leaves settings.
8.Install the drive belt holder connection apparatus to the left and right carrier pulleys as shown in the illustration.
9. Energize mechanism after door will take scanning by himself. Check with test button.
10.Install if at front cover digital function selector or radar sensor available.
11.Put the front cover to fixture mechanism
12. Speed settings, wait time and required settings must be made via the digital function selector.

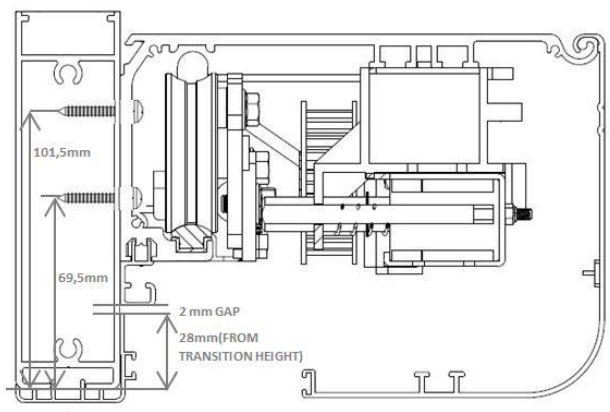
5.4. AUTOMATIC DOOR NECESSARY ASSEMBLY CONDITIONS

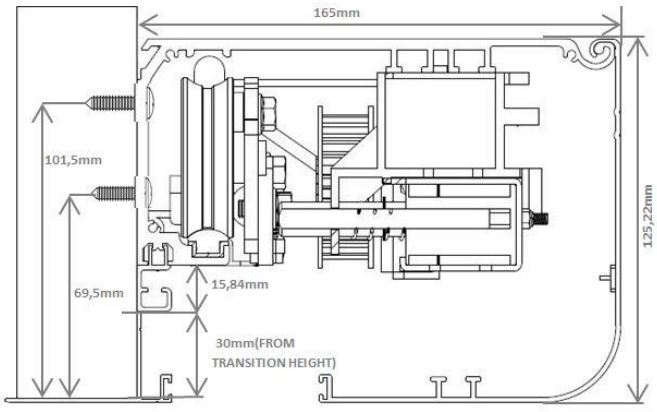
An aluminum profile, an iron profile or a beam with a height of 130 mm is required on the back for the mechanism system to be connected . Side solid aluminum profile / wall top detail must be match as equipotential surface . Mechanism should sit on the upper brush profile.

As below drawing shown frame assembly, Starting from 50mm inside by drill after two mounting holes are opened at intervals of 400 mm. Place assembled mechanism to the base.



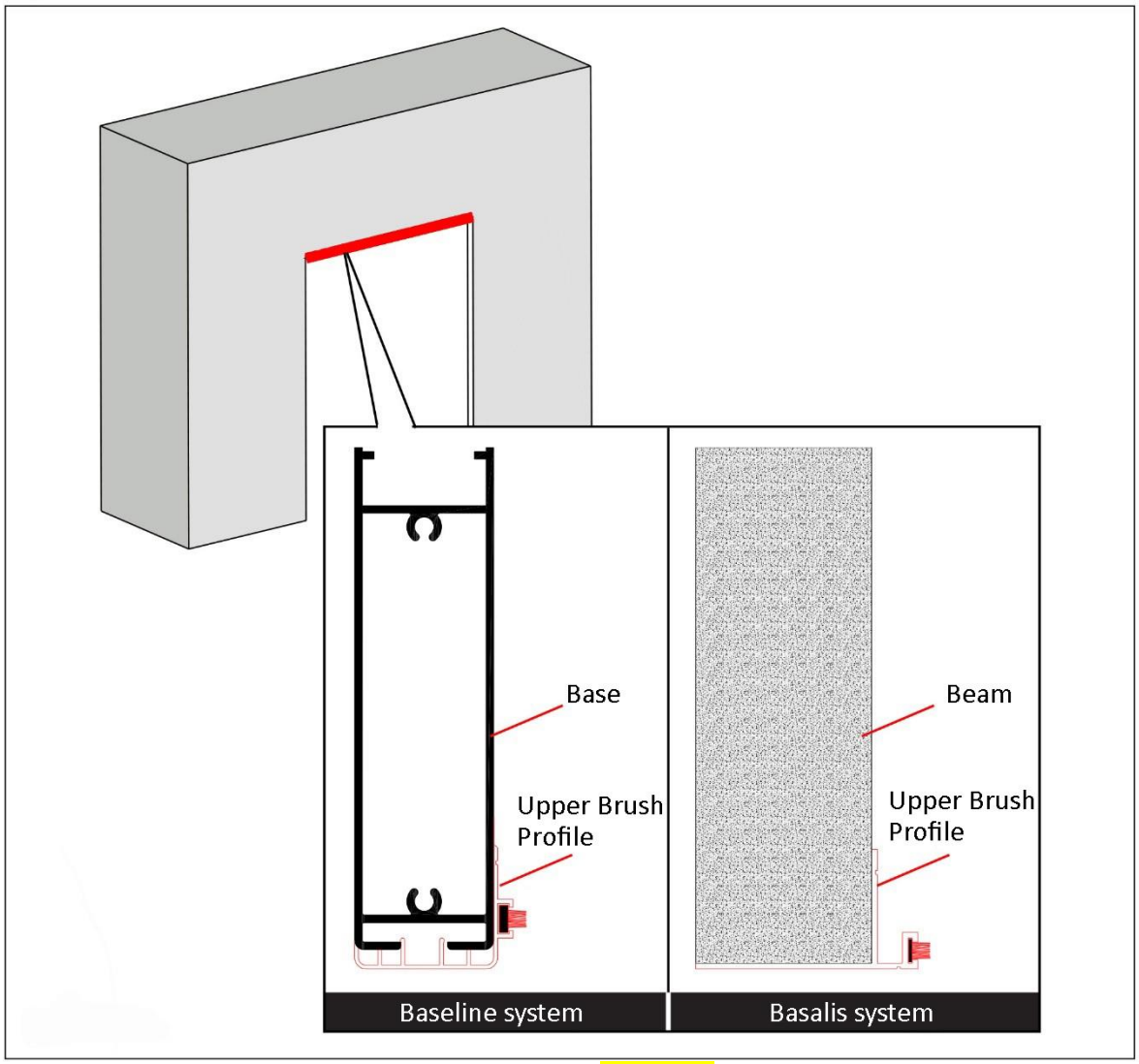






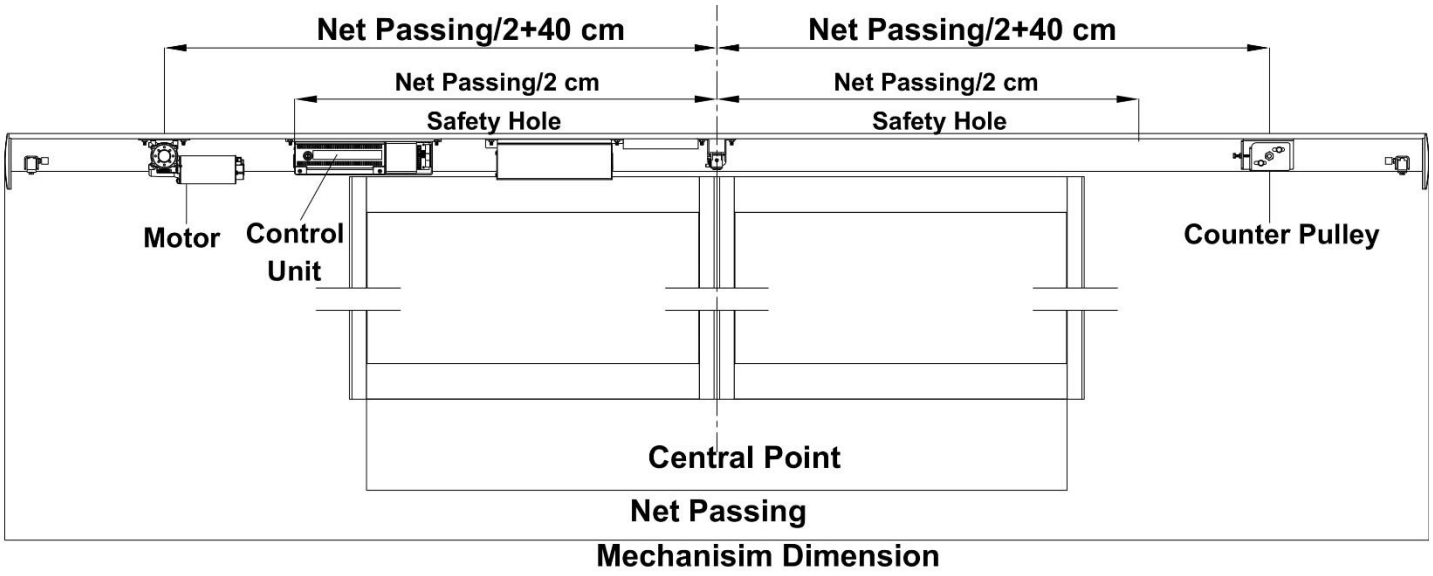
Base System **Non-Base System**

5.5. UPPER BRUSH PROFILE ASSEMBLY

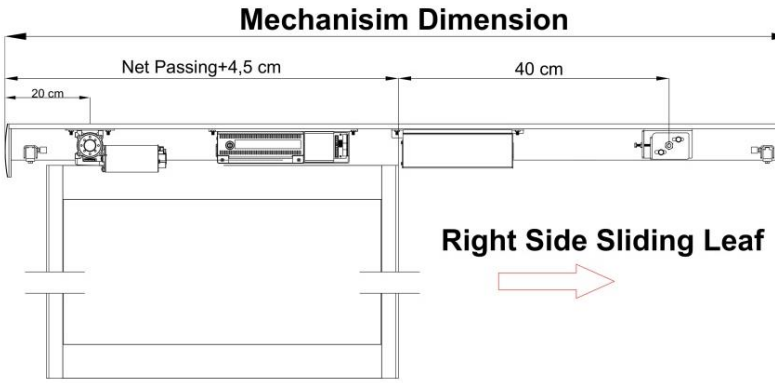


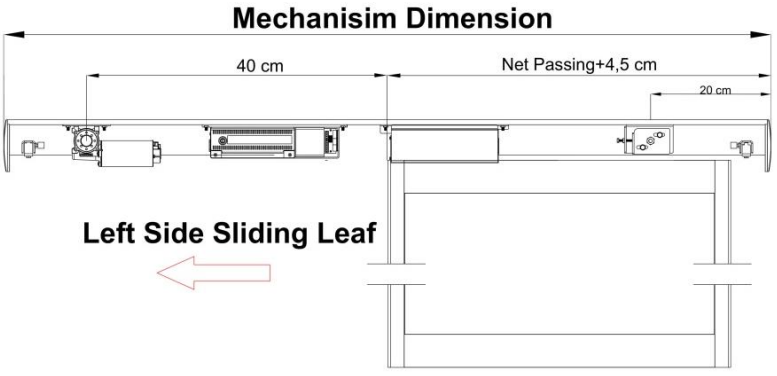
Picture 7

5.6. FIXTURE/CHASSIS PREPARATION



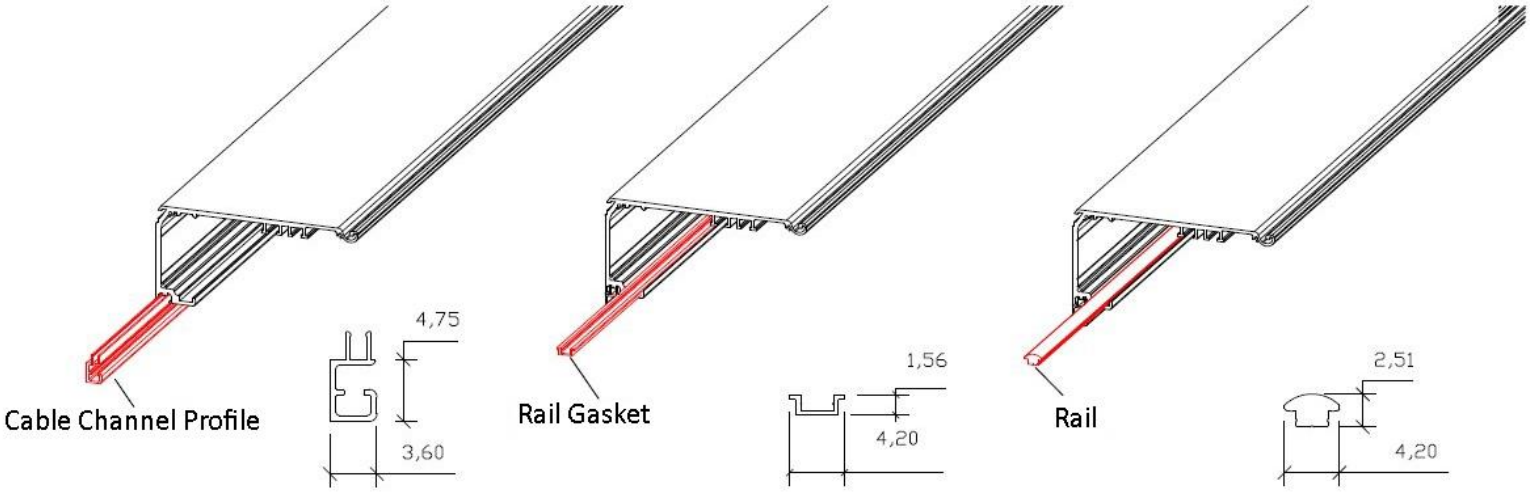
1. During preparation of mechanism, first find center (midpoint)
2. Determine safety photocell sensor outlet ,safety sensor hole = passage width/2 cm.
3. Motor connection on the right side at a distance of 40 cm from the safety sensor, assemble on the left side the counter pulley. It must be taken from the center of the 40 cm motor and the counter pulley center
4. Motor connection location = passage width /2+40 cm,Counter Pulley = passage width/ 2+40 cm
5.





Cut the profiles according to your order dimension.

Picture 8

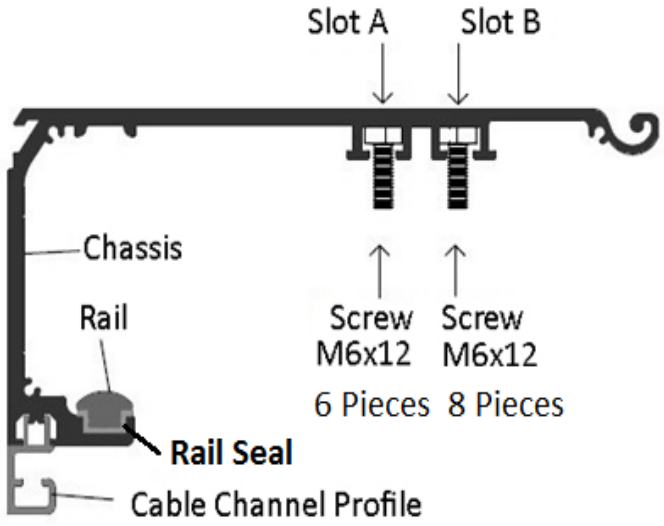


Place the cable channel profile to the fixture/chassis passage.

Place the rail seal on the fixture/chassis.

Fit tightly the rail seal.

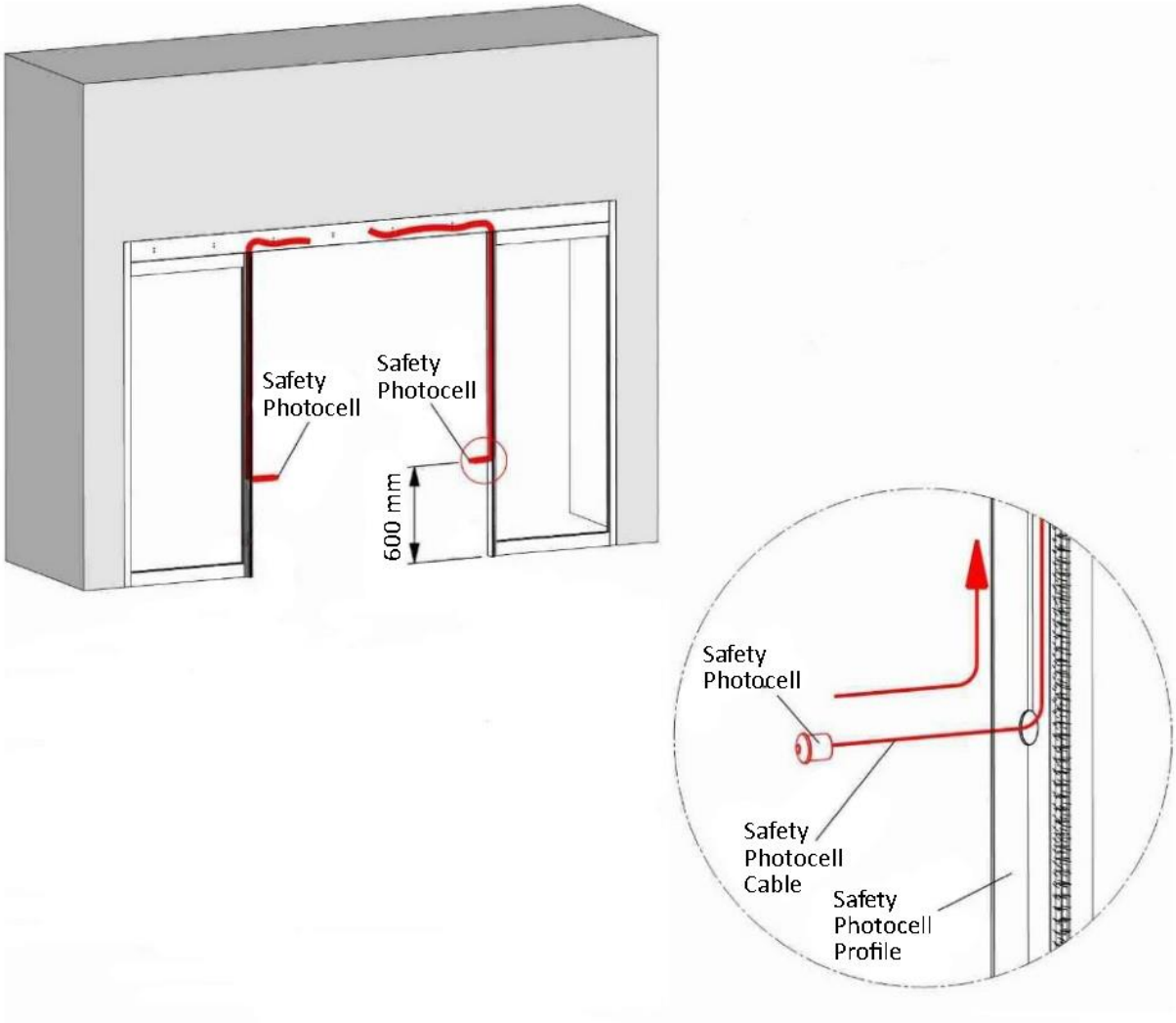
Attach a total of 14 bolts to the A and B slots (M6x12 screw), A to the left, 6 to the B slot, and a total of 14 bolts as shown in the picture below.



Total 14 Pieces Of Screw

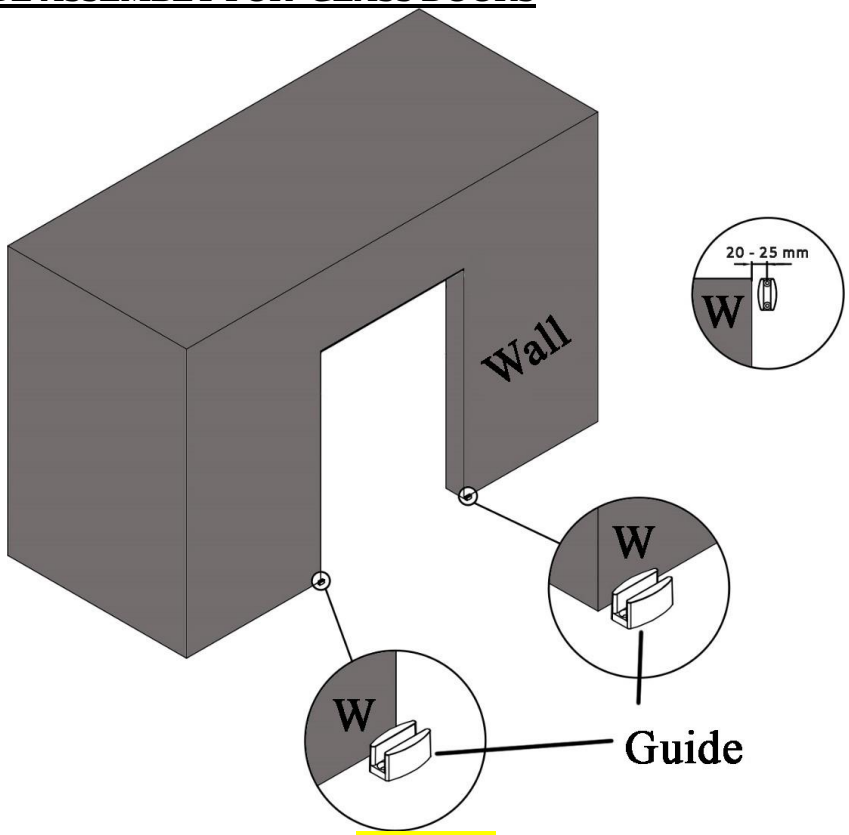
4 Pieces For Motor
1 Pieces For Chassis
4 Pieces For Electronic Control Card
4 Pieces For Counter Pulley
1 Pieces For Lid Holder

5.7. SAFETY PHOTOCELL SENSOR ASSEMBLY



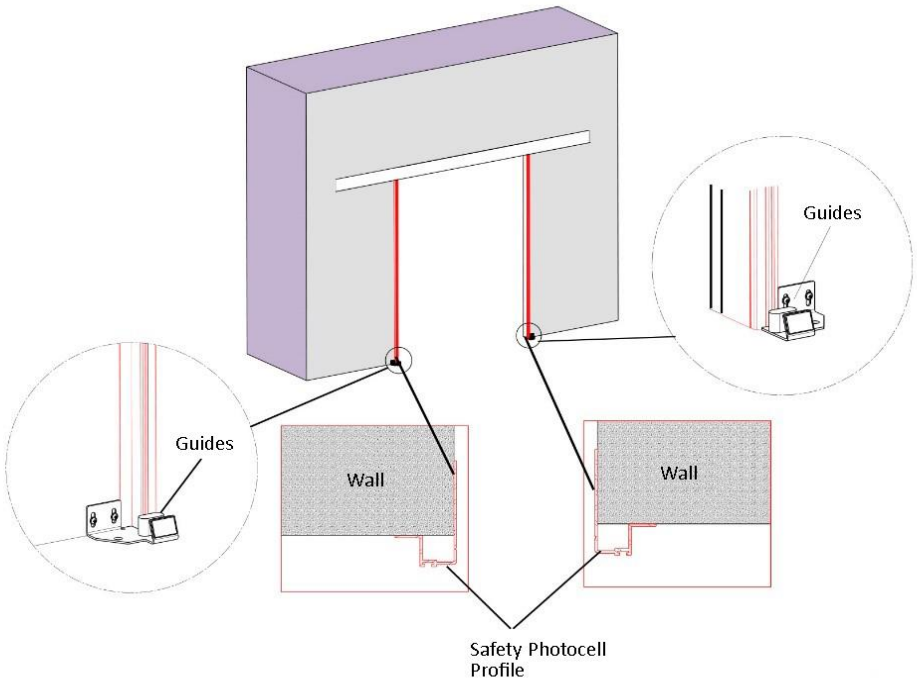
Picture 9

5.8.2. DRIVE GUIDE ASSEMBLY FOR GLASS DOORS



Picture 10

5.8.1. DRIVE GUIDE ASSEMBLY FOR 28 AND 36 SERIES DOORS



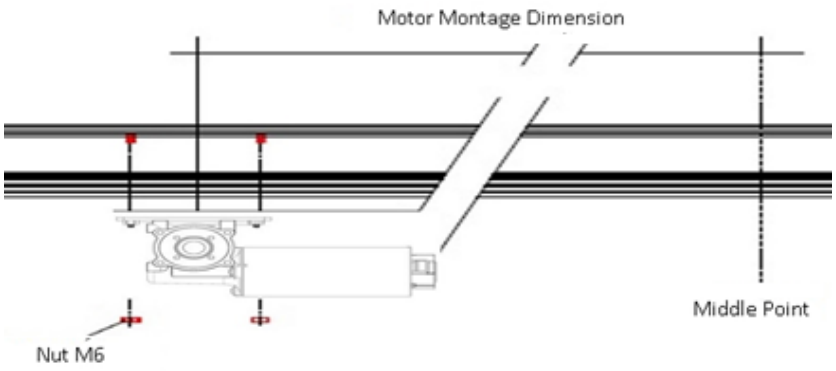
Picture 11

5.9. MOTOR ASSEMBLY

For double leaves system, from the center point of the mechanism to the left side, fix the motor pulley center with a range of motor mounting dimensions. Tighten the bolts securely so that the motor does not move on the chassis.

(In double leaf systems motor montage dimension = net passing/2 + 40 cm)

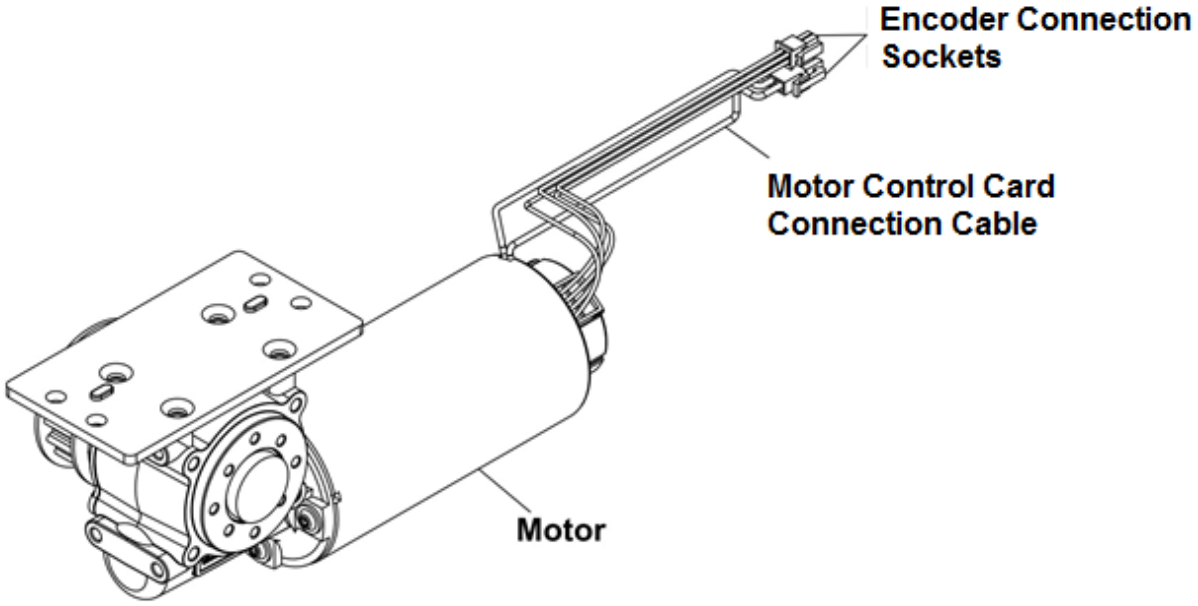
By single-leaf systems, the motor mounting dimension varies depending on the opening direction.



By right side opened doors ; assemble the motor in the following dimension = 20 cm from the left edge.

By doors opened to the left; motor assemble dimension = assembly width from right edge to access width + 44,5 cm distance.

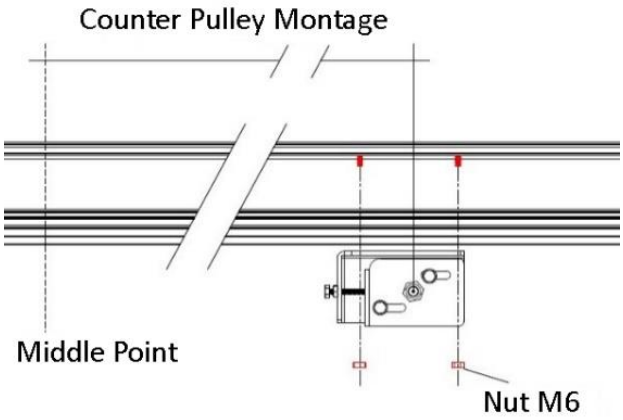
Note: The motor is always on the left side, the counter pulley must always be on the right side.



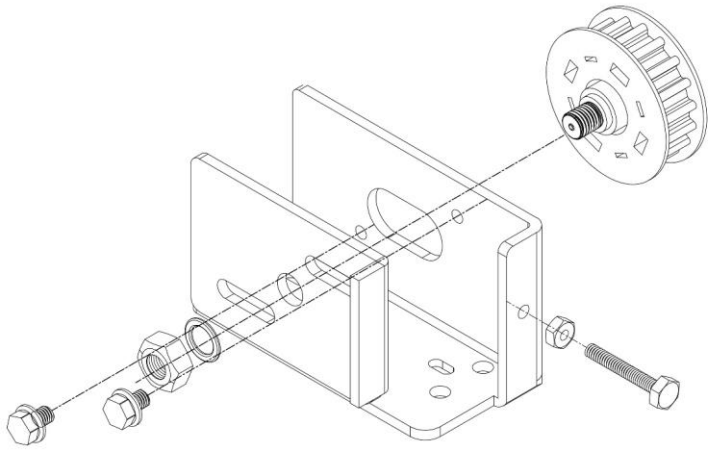
Motor Electrical Connection Scheme

5.10. COUNTER PULLEY ASSEMBLY

The purpose of the counter pulley is to gently move on the scraper and regulate the fixture.
Fix the center of the mechanism to the right by leaving a gap between the center of the counter pulley and the counter pulley mounting dimension. Tighten the bolts so the counter pulley do not move on the fixture . In double leaf systems pulley montage dimension = net passing/2 + 40 cm



By single-leaf systems, size of the counter pulley assembly varies with the opening direction.
By right side opened doors ;Counter pulley assembly dimension = Passage width from left edge + Install at a distance of 44,5 cm.
By left side opened doors ;Counter pulley assembly dimension = Assemble at 20 cm from the right edge.

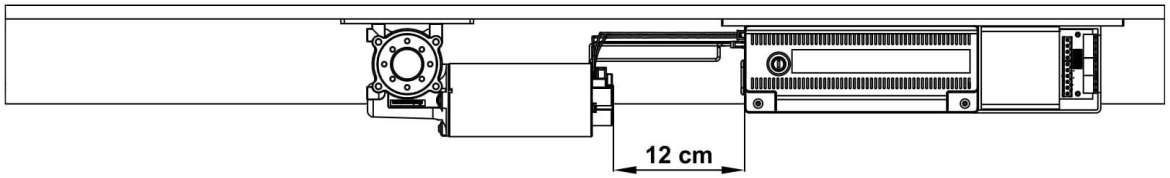


Picture 12
Counter Pulley Exploded Image

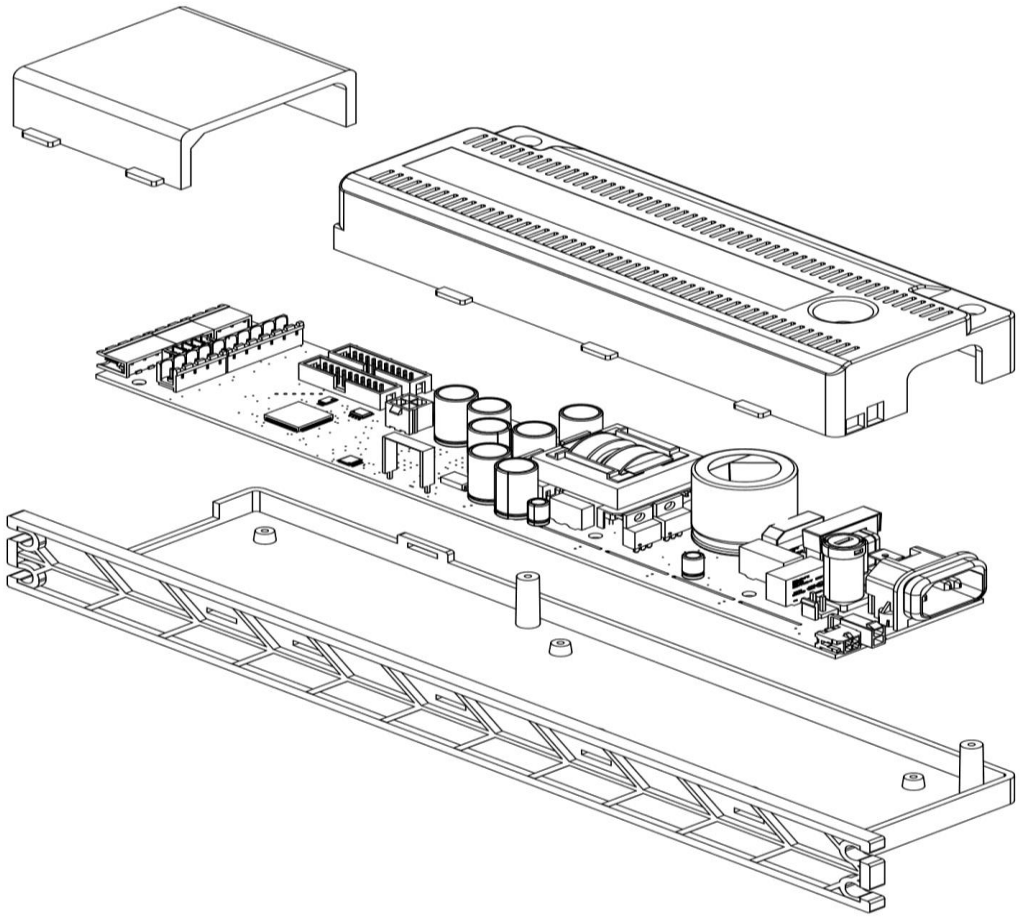
5.11. 500-1 CONTROL UNIT ASSEMBLY

The main unit, which controls all movements of the door.
Controls movements perceived by photocell radar and manages the acceleration and deceleration movements.Controlling determining intervals. Manages the entire power transmission manages fault, congestion and brake light codes.

The entire mechanical system includes safety, speeds, displays, times, malfunctions and movements of accessories and sensor devices, as well as signals received from the motor encoder.



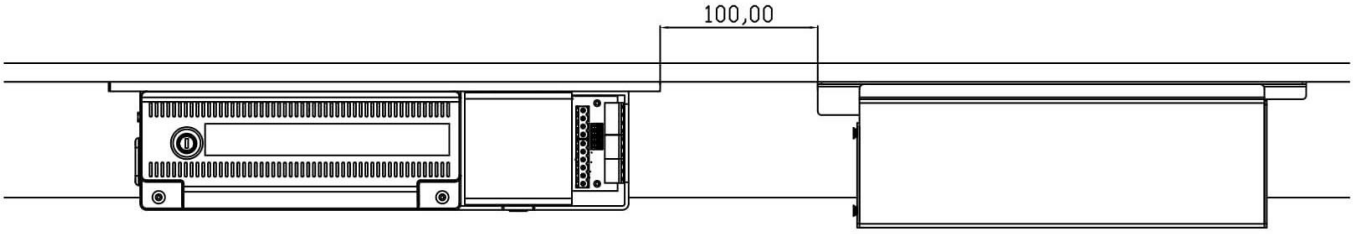
Install so that it is 150 mm away from the center of the motor pulley.

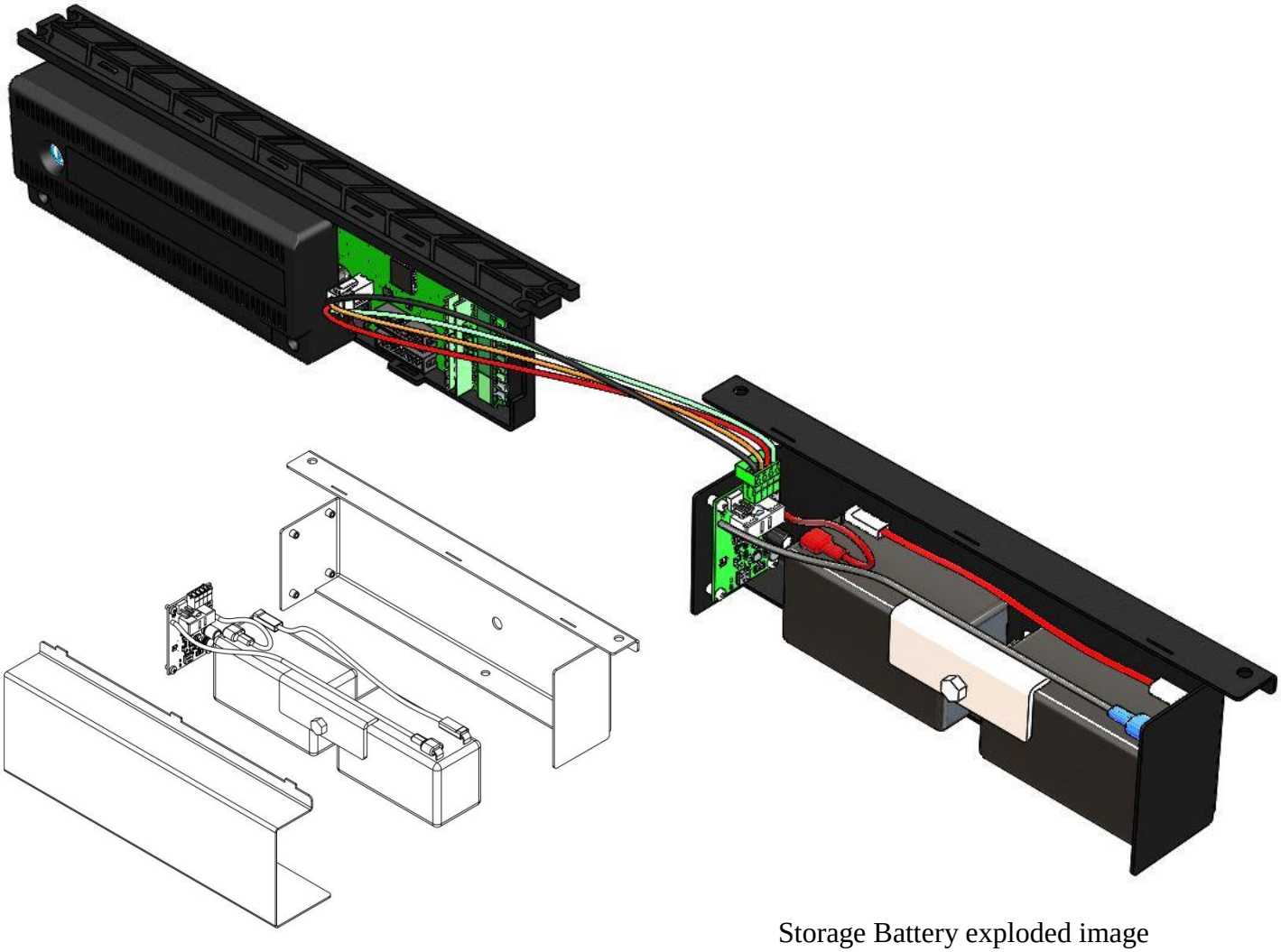


Electronic card exploded image

5.12. STORAGE BATTERY ASSEMBLY

Used by to turn the door on and off when the electricity is off.
Install the battery so that it is 100 mm away from the electronic control card.
Tighten the bolts so that the battery does not move on the fixture.
Note: In case of power failure, it is possible to open the wing with the force to be applied in the desired direction. If the Door is switched off in the locked state, the door can not be opened because it is locked . Depending on use in systems with batteries, it will continue to run for approximately 30 minutes during normal use. The duration of use varies depending on the door weight.

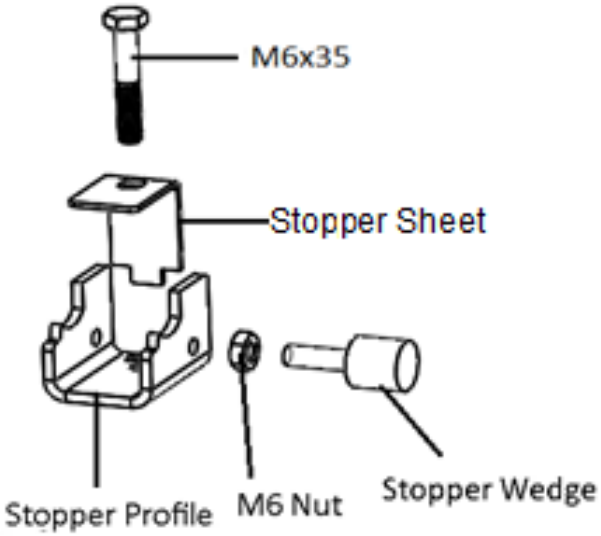


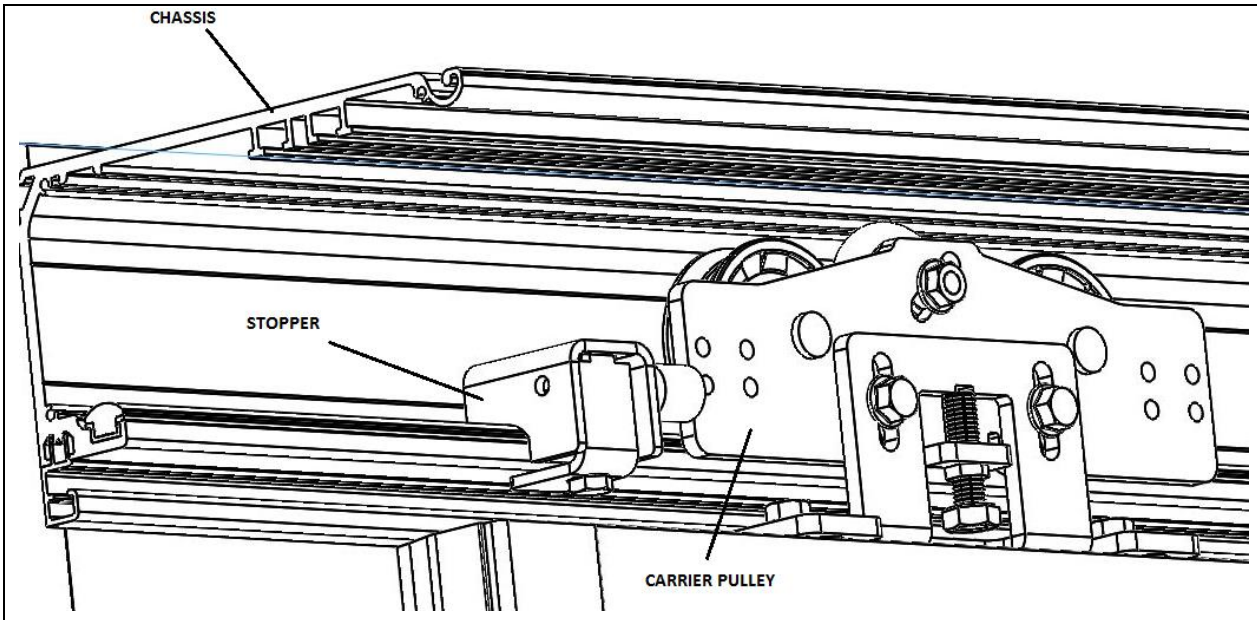


Storage Battery exploded image

5.13. STOPPER ASSEMBLY

A boundary must be established at the point where the movable leaves are opened.To create this limit, the stopper settings must be made to determine the part of the leaf that ends when the leaves are opened. The edge distance must be the same in both directions. Both stoppers must be plugged in. This will prevent the belt from being mechanically damaged due to the hand being struck hard backwards.

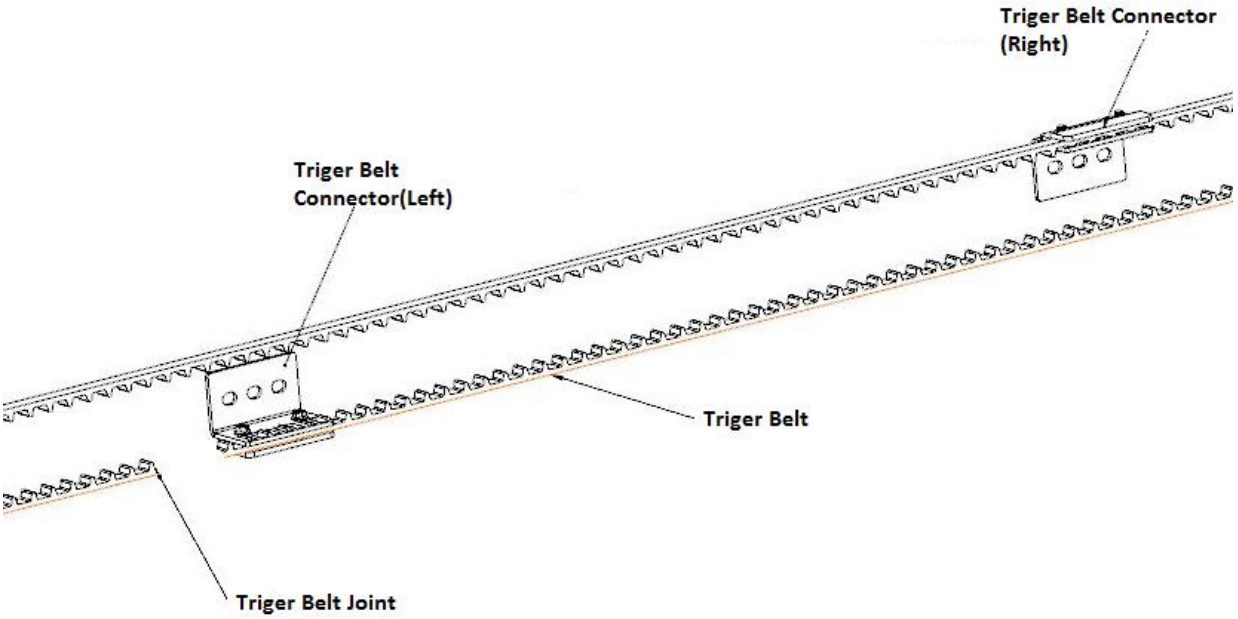


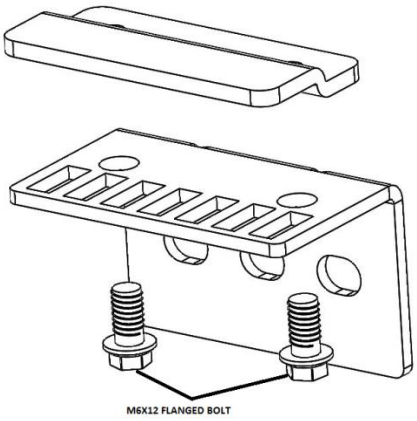


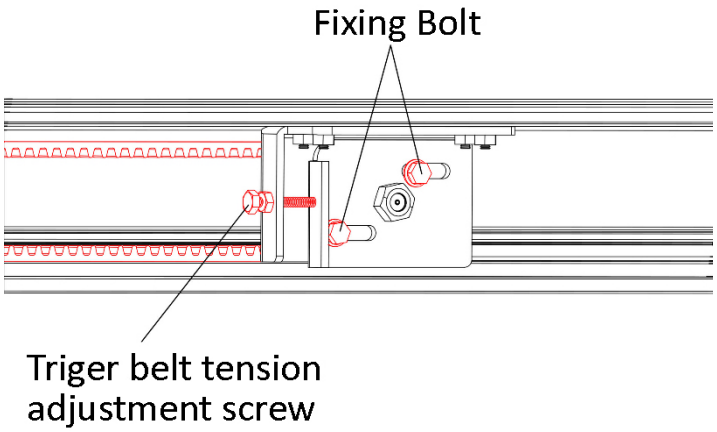
Picture 13

5.14. DRIVE BELT HOLDER ASSEMBLY

Fasten the drive belt holders to the belt as shown in the illustration below. When attaching drive belt to the belt holder, always bring the belt holder to the center of the left belt holder.

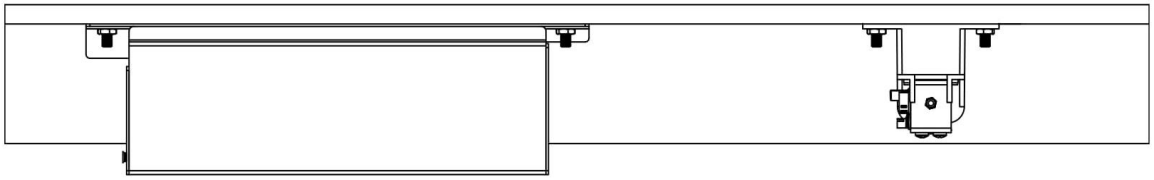






Arrange the belt tension with belt adjusting bolt. Stay and screw the fixing bolt after adjusted the tension

5.15. ELECTRONIC LOCK ASSEMBLY



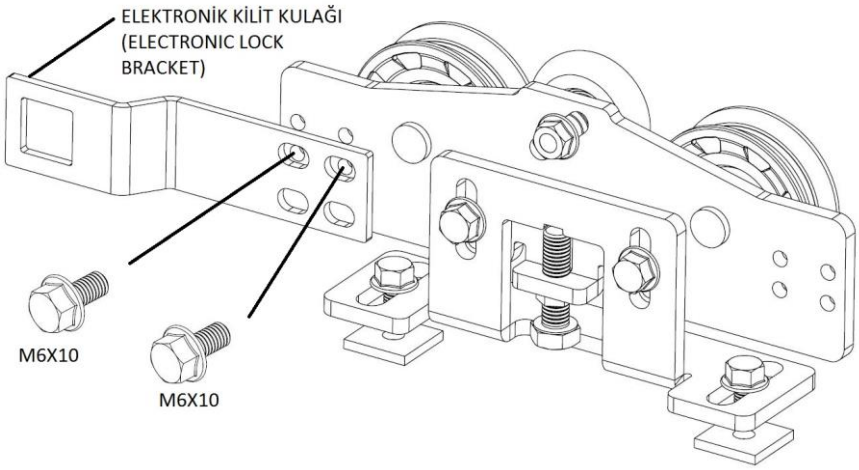
In locked position, it prevents the door from opening because it is locked from the center.

Double leaves system should be mounted so that the chassis is centered.

For single-leaf right opening systems, install it between the engine and control unit.

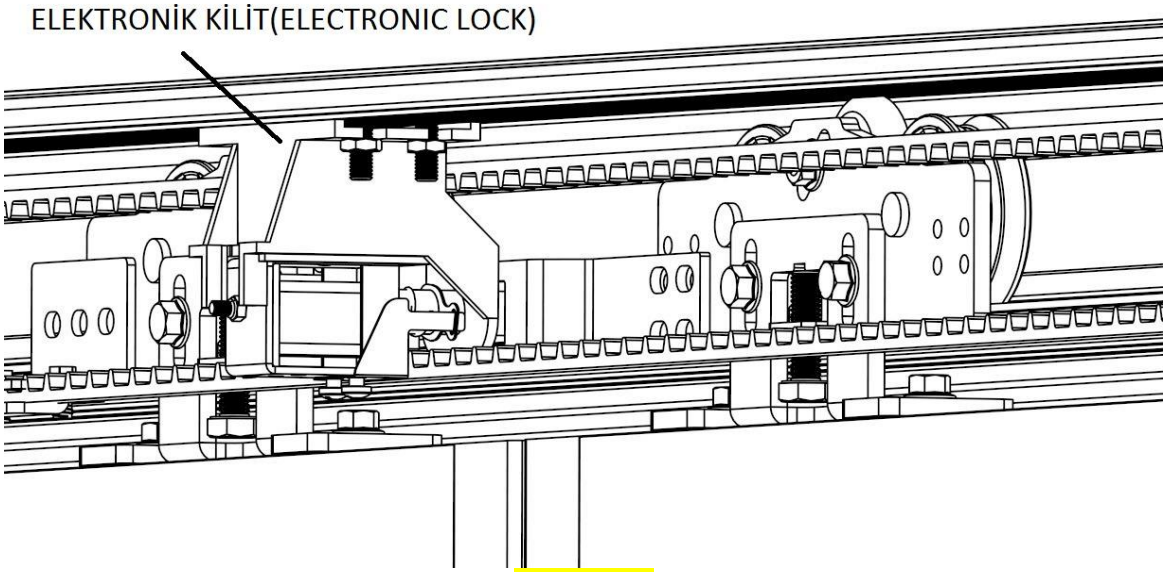
For single leaf left opening systems, install it in the middle of right side the counter pulley space .

Tighten the bolts tightly so that the electronic lock does not play on the fixture/chassis.



Assemble to the carrier pulley the electronic lock bracket with 2 M6x10 flanged bolts.

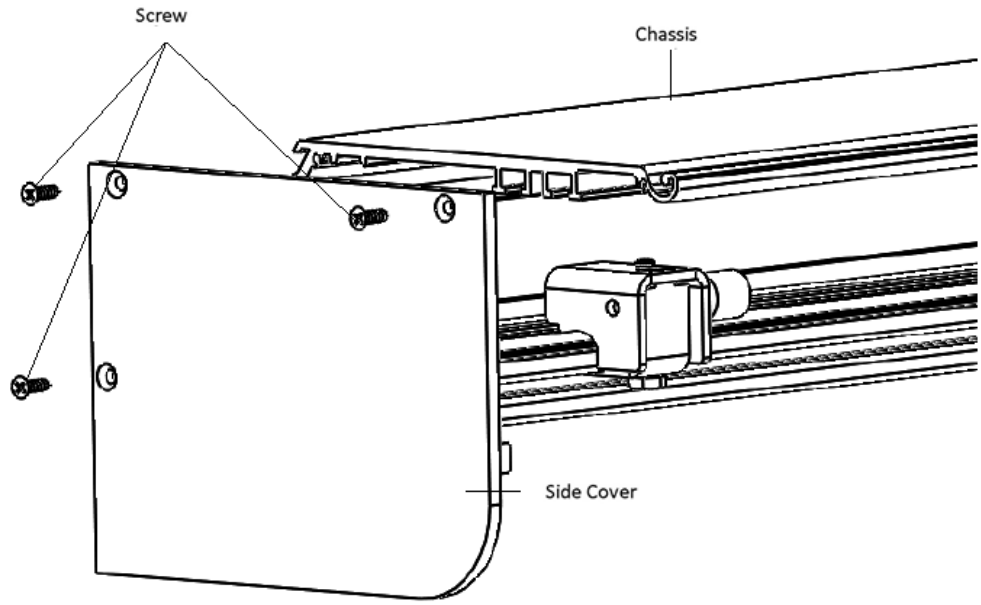
Fixture/Chassis mounted image of electronic lock and lock bracket.



Picture 14

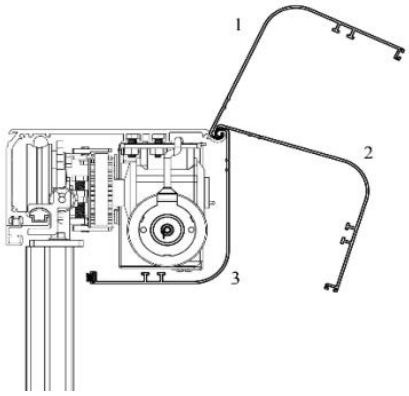
5.16. SIDE COVER ASSEMBLY

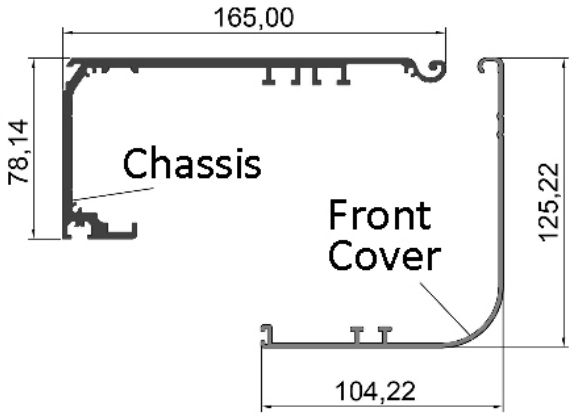
Fit both side covers as shown in the illustration below. Secure it with the screws



5.17. FRONT COVER ASSEMBLY

After installing both side covers, now you can easily install the front cover in 3 steps as shown in the illustration below.





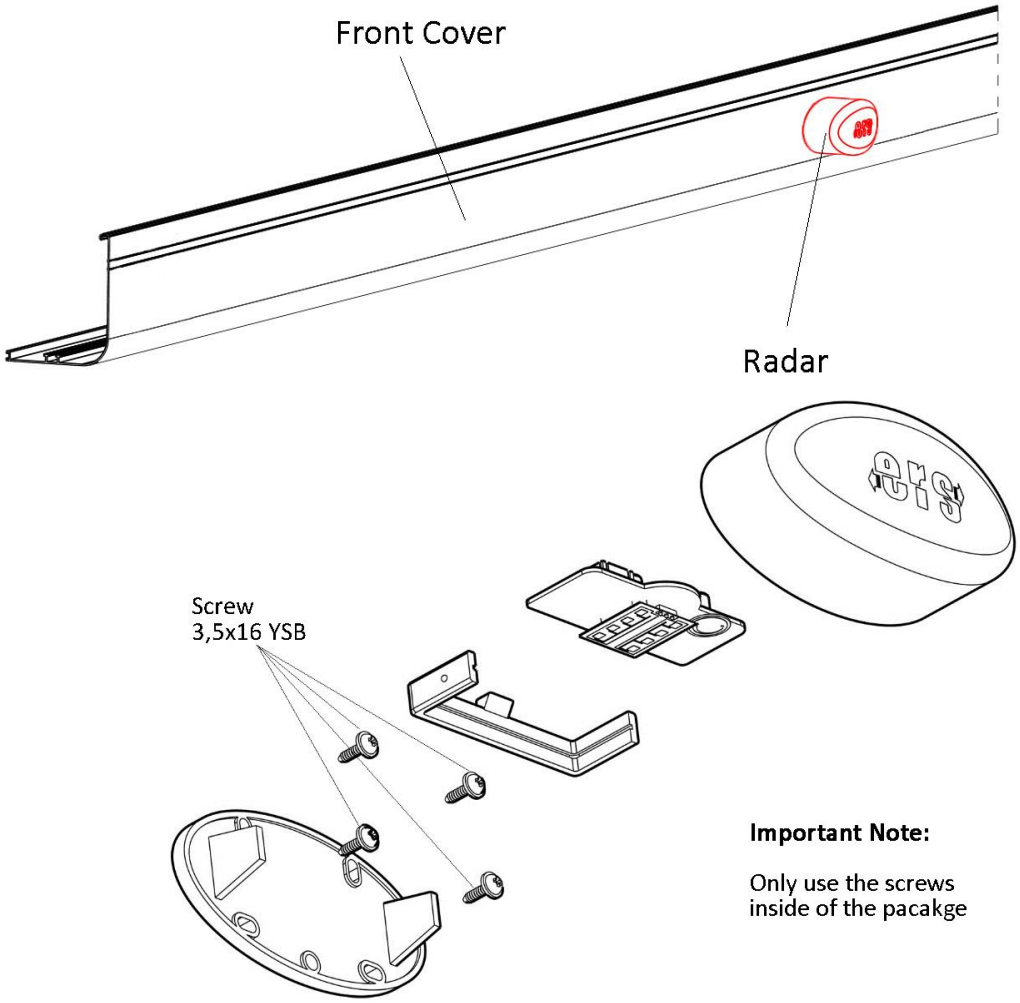
1- Place the bended part at the top of the front cover into the groove on the Fixture/chassis.

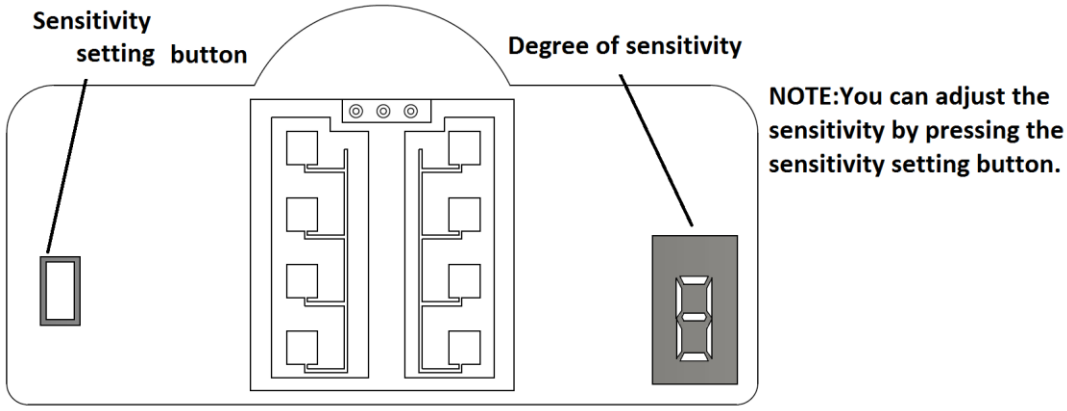
2-Turn it down.

3-Place front cover.

5.18. RADAR SET ASSEMBLY

The inner and outer radars are mounted on the mechanism to center the transition width, and the cable connection to the motherboard is made

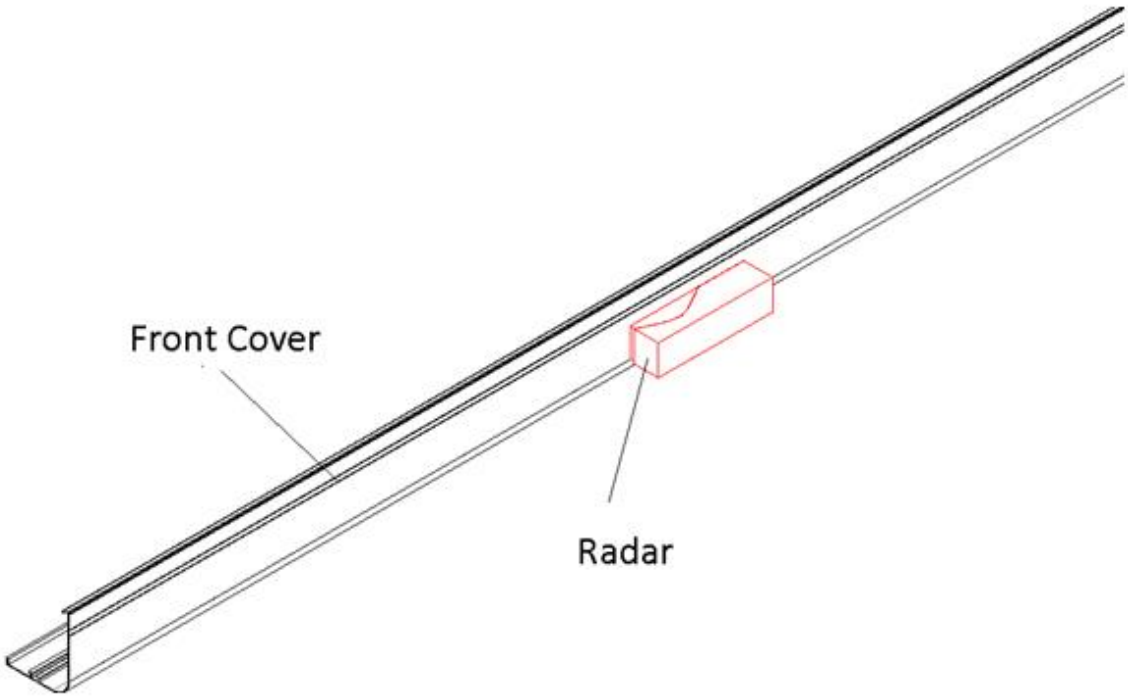


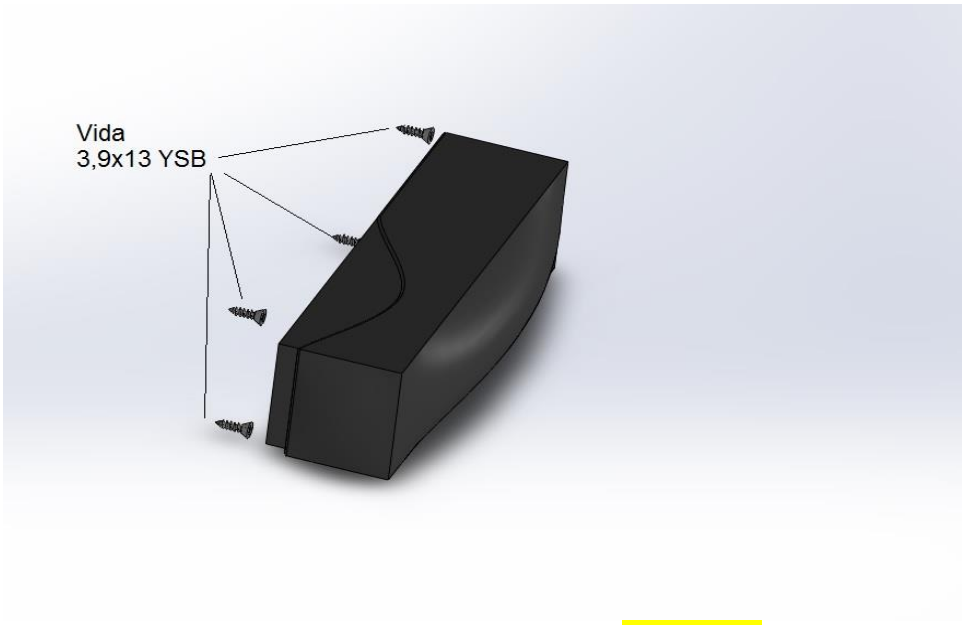


Picture 15

5.19. INSTALLATION OF PHOTOCELL RADAR

Photocell radars are mounted on the mechanism in such a way that the transition width is centered and cable connection is made to the main board as on page 40.

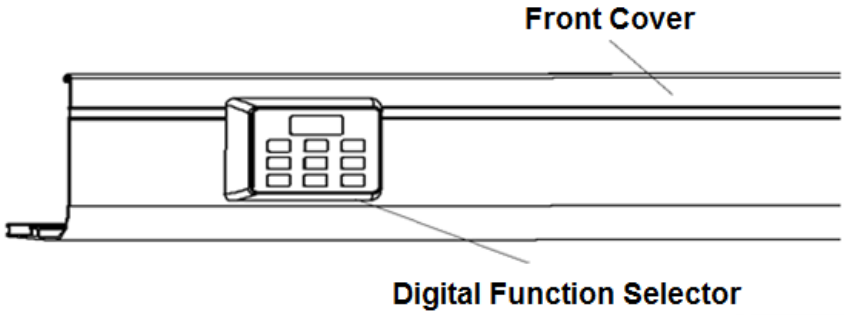


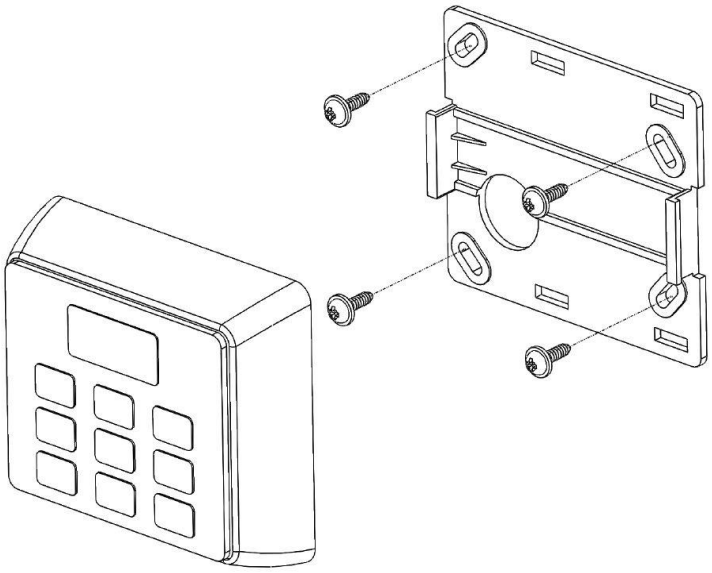


Picture 16

5.20. DIGITAL FUNCTION SELECTOR ASSEMBLY

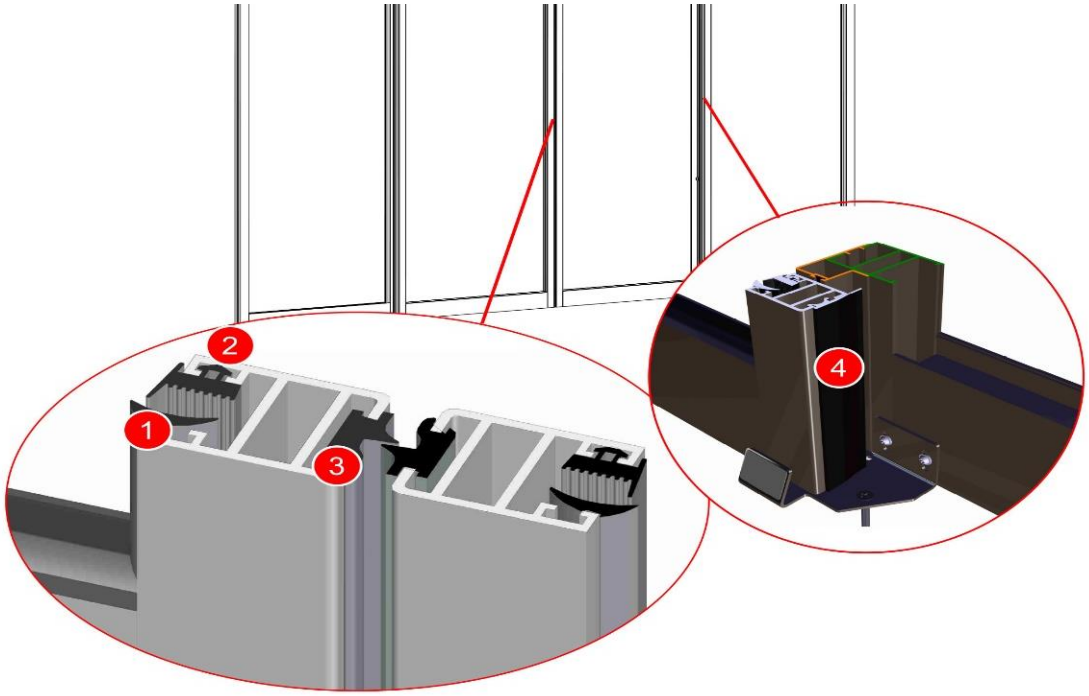
The digital function selector is mounted on the left side of the mechanism front cover and cable connection is made to the main board as shown on page 41.

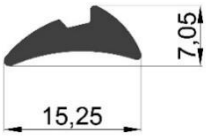




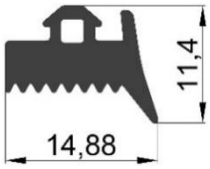
Picture 17

5.21. GASKETS

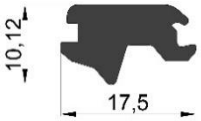




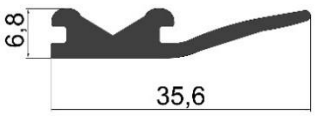
1-**Glass gasket Aykim-04**
Used to seal and fix glass after it has been mounted on the leaf.



2-Glass gasket Eryapi-03
Used to seal and fix glass after it has been mounted on the leaf.



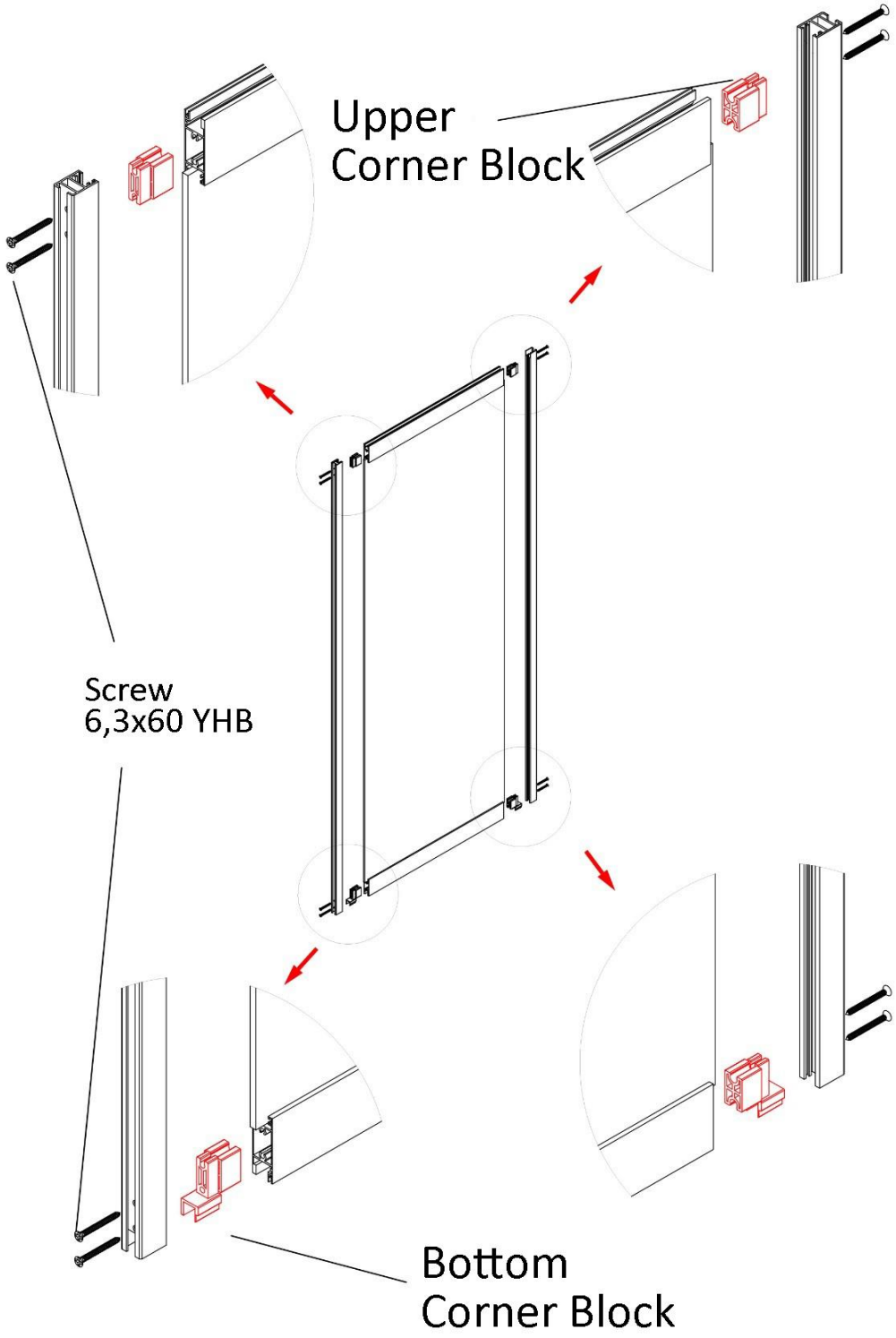
3.Front connection gasket
Used to prevent leaks between two leaves on top of each other and to ensure that the leaves close silently.



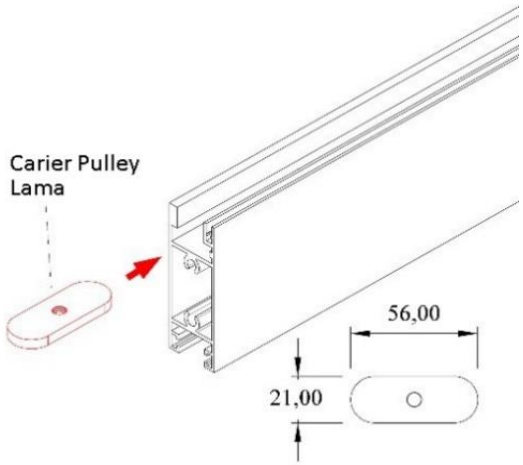
4.Rear leaf gasket
Preventing leaks also used to hide cables photocells sensor et cetera.

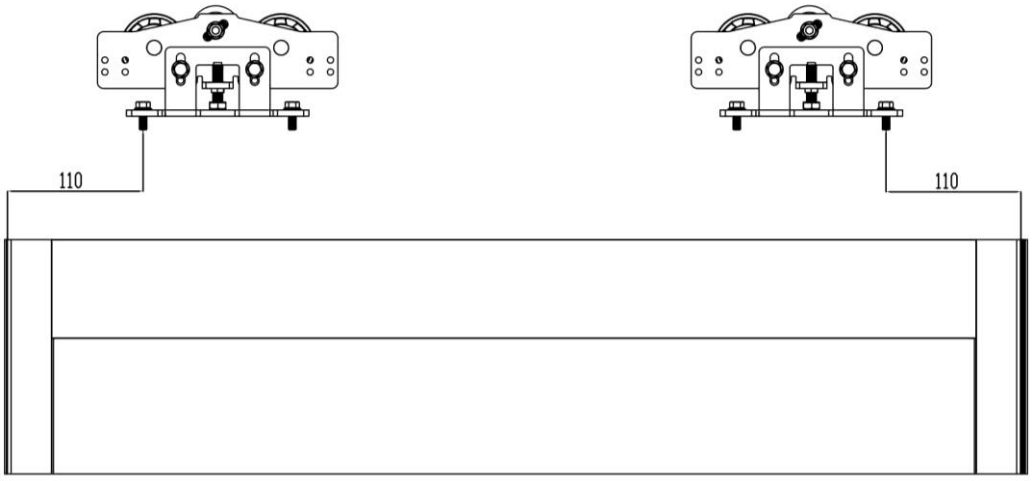
5.22.1 SLIDING LEAF INSTALLATION

Sliding leaves are collected as shown in below picture.

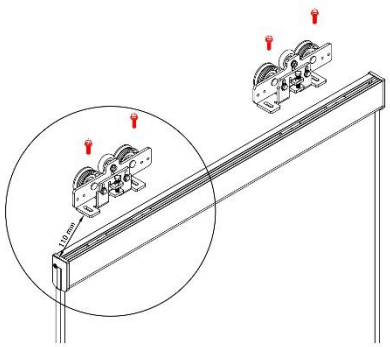


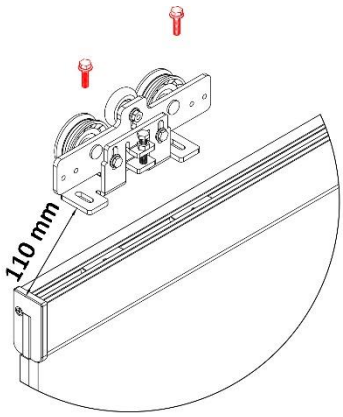
First, the upper horizontal profile is inserted into the 4 plates to hold the carrier pulley. Vertical profile horizontal profile After the glass is placed as shown fixed with 6.3x60 corner pick screw. Once the leaf has been collected, the glass seal, front and rear mating seals are placed according to the details on page 27.

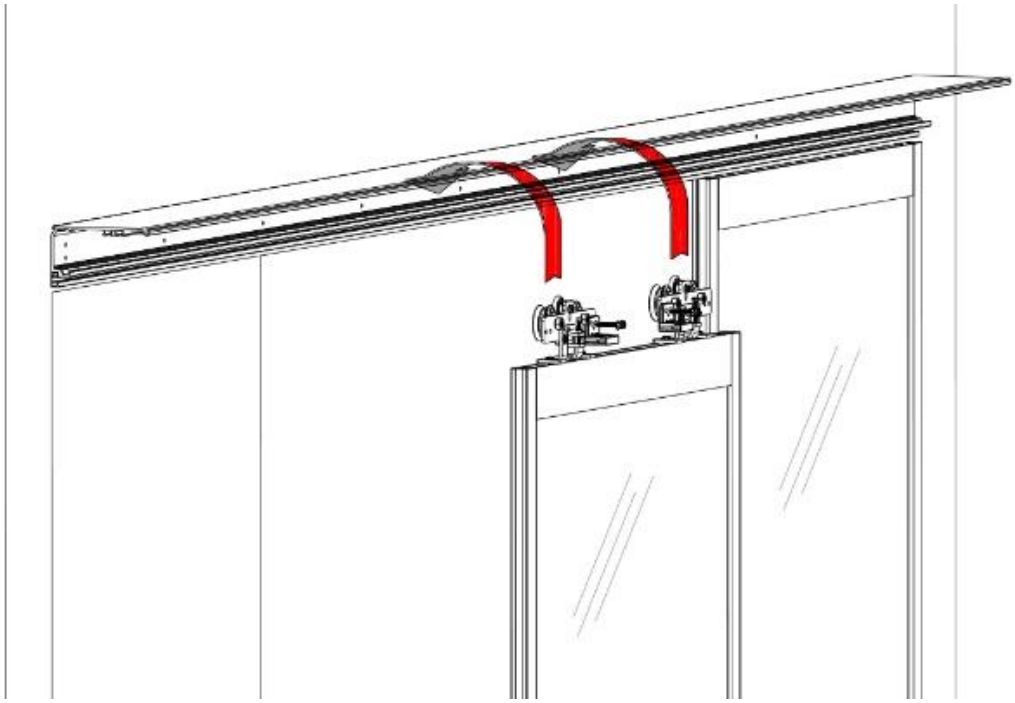




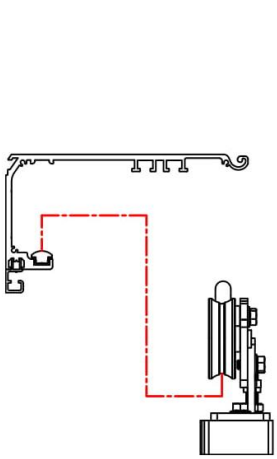
The carrier pulley are secured with bolts M6x22 flange bolted to the Lama which is positioned so that the horizontal profile is 110 mm away from the joints. In some cases the distance may be reduced or increased.

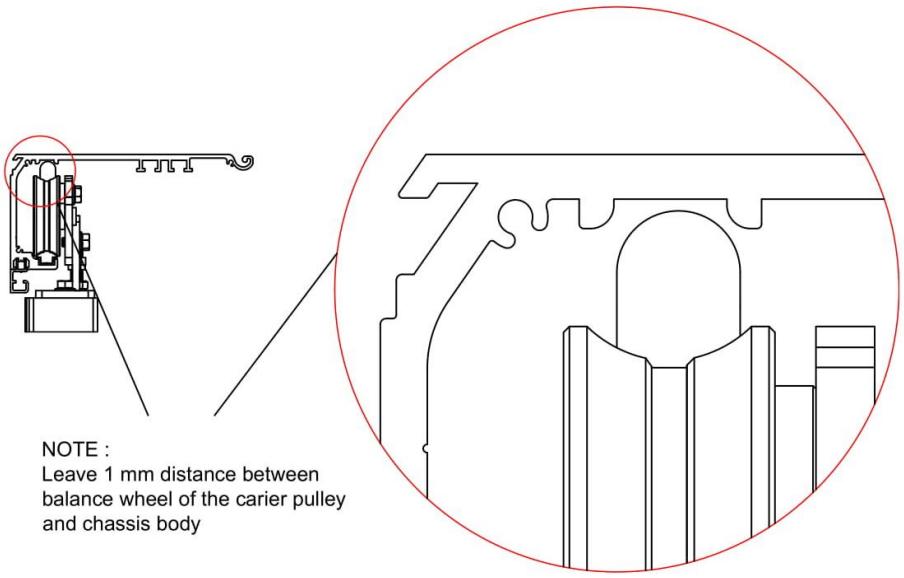




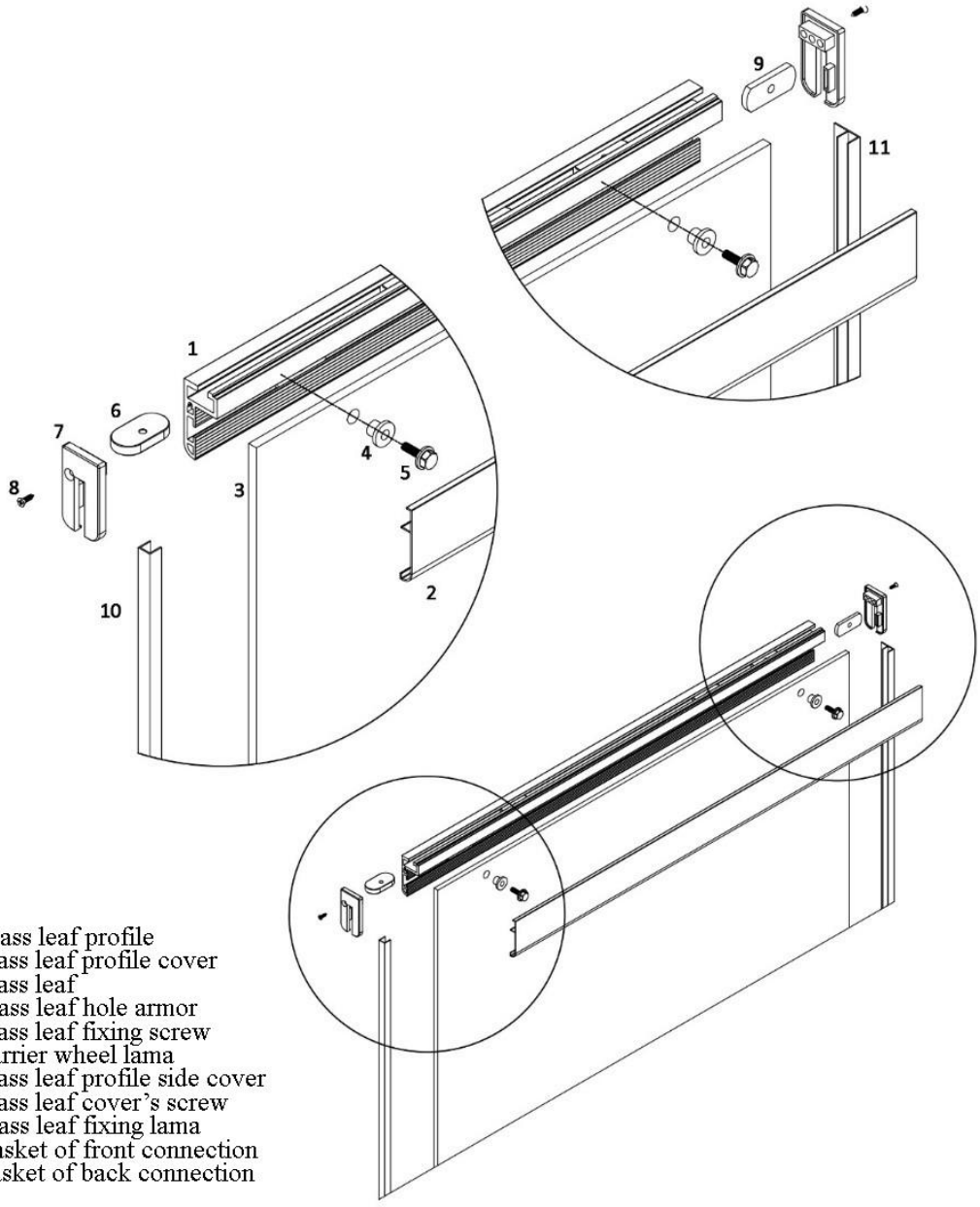


Once the leaf has been collected after mount it on chassis. The height adjustment is made so that a distance of 1 mm is maintained between the carrier pulley balance roller and the mechanism.

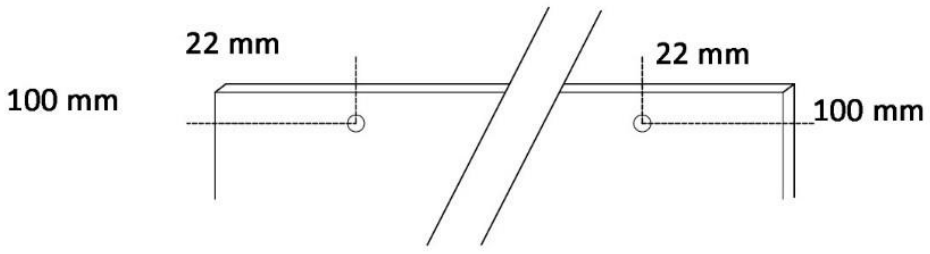




5.22.2 LEAF INSTALLATION FOR GLASS DOORS



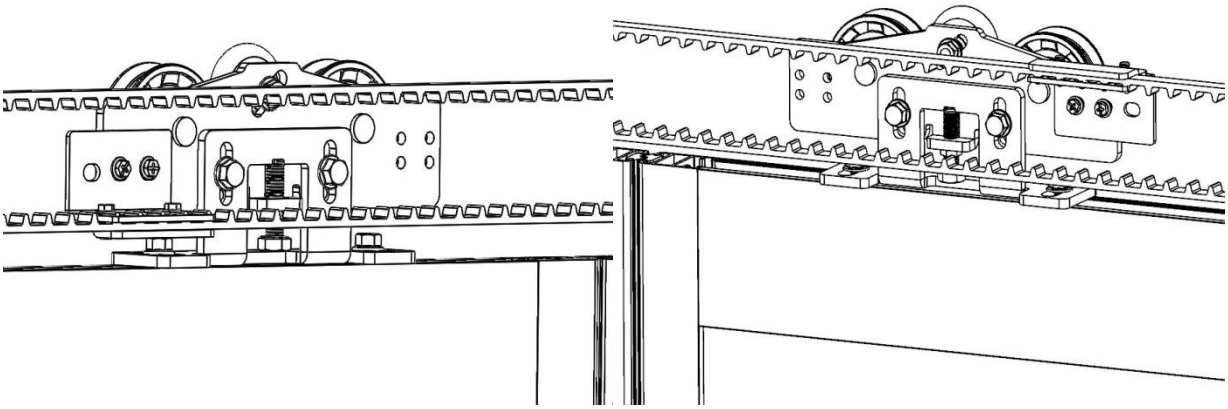
1: glass leaf profile
2: glass leaf profile cover
3: glass leaf
4: glass leaf hole armor
5: glass leaf fixing screw
6: carrier wheel lama
7: glass leaf profile side cover
8: glass leaf cover's screw
9: glass leaf fixing lama
10: gasket of front connection
11: gasket of back connection



glass hole dimensions

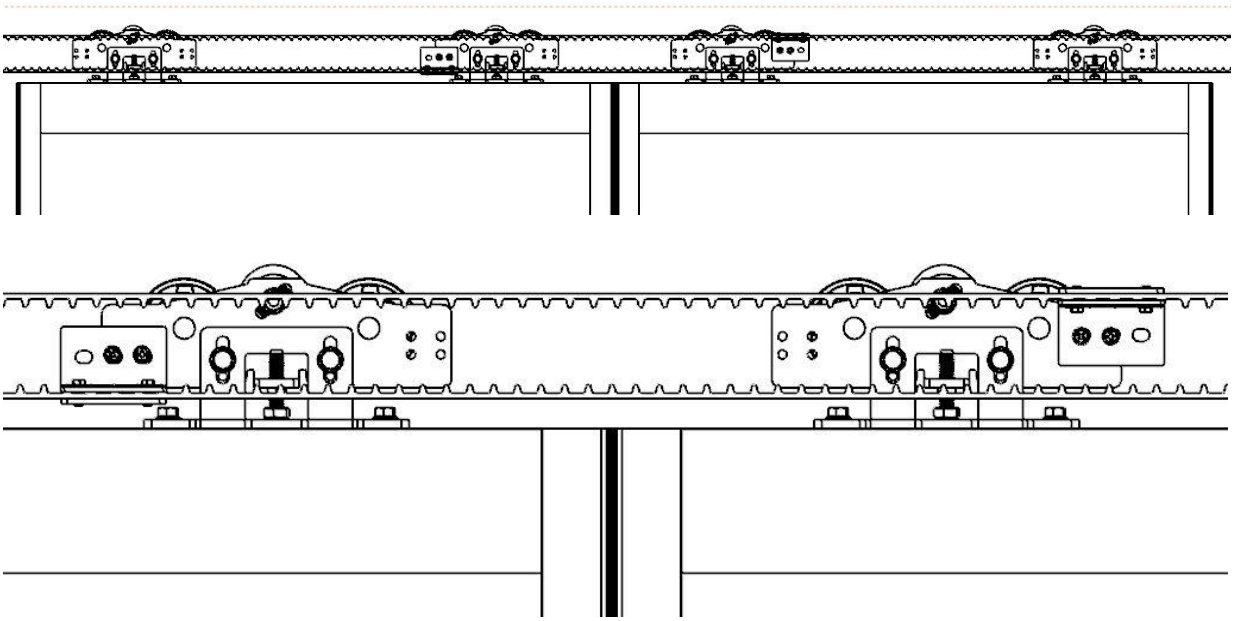
5.23. DRIVE BELT HOLDER ASSEMBLY

The purpose of the drive belt bracket is to allow the movement of the motors to be transmitted through the belt to the leaf. Drive belt is mounted on the connector as described below. 2 pieces are used to fasten drive belt to the right and left carrier pulley. To fix,are used 2 for each M6x12 flange bolts .



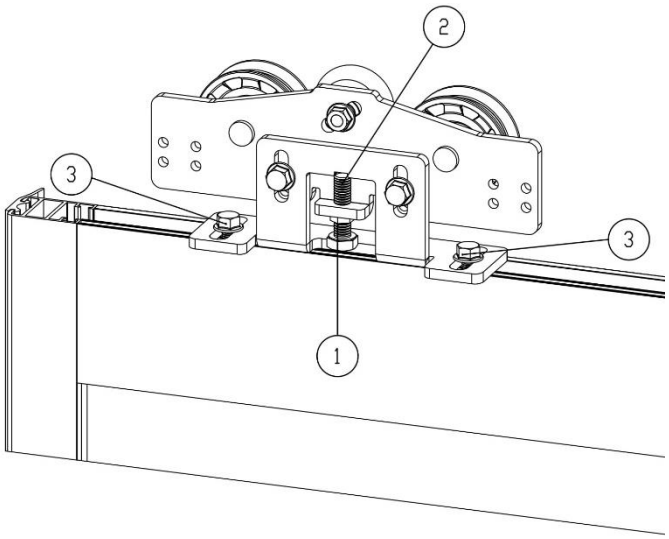
IMPORTANT NOTE : When attaching the belt to the belt bracket, always align the bracket with the center of the left belt bracket.

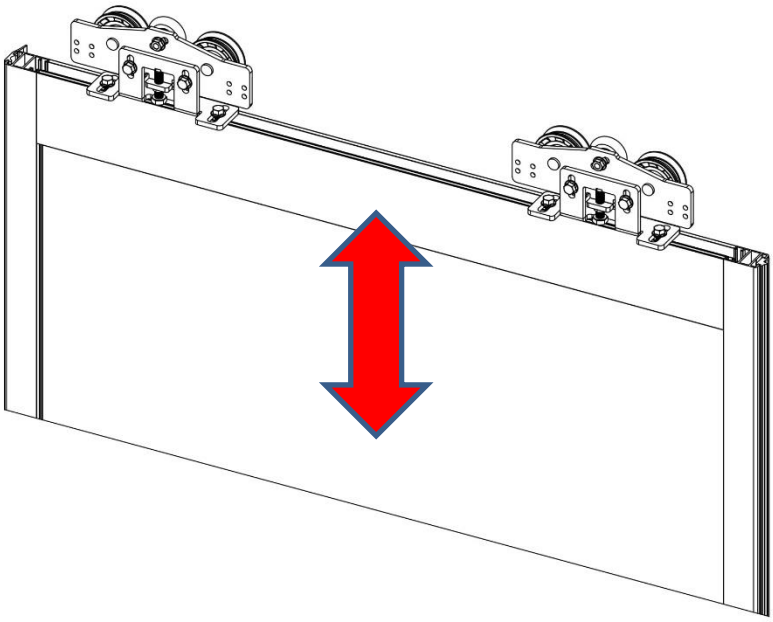
Right Leaf :
Attach the right leaf to the top leaf (at the belt connector) while suspending the leaves.
Left Leaf :
Attach the left leaf to lower leaf (at the belt connector) while suspending the leaves.



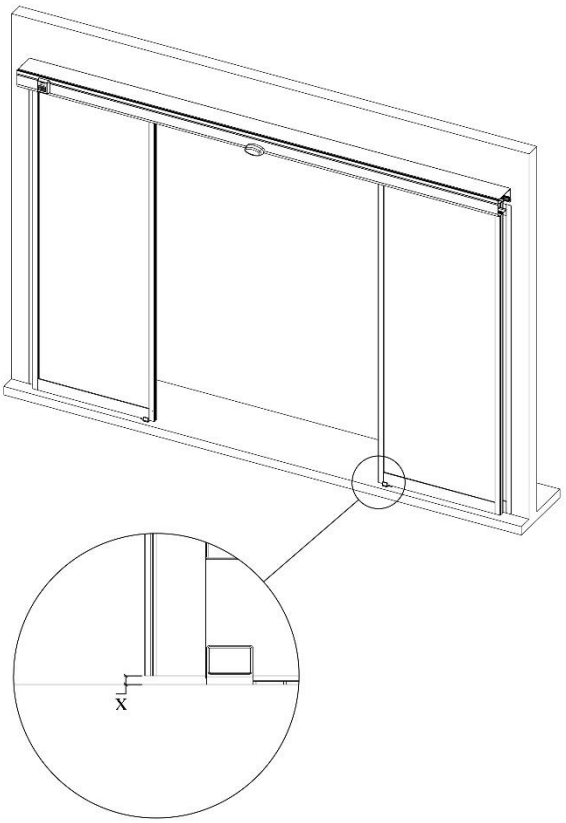
5.24. SLIDING LEAVES HEIGHT ADJUSTING

10 size spanner key are sufficient to adjust the height of the moving leaves.This setting is important for good results. In both leaves, bolts are adjusted in such a way that the wings are balanced.





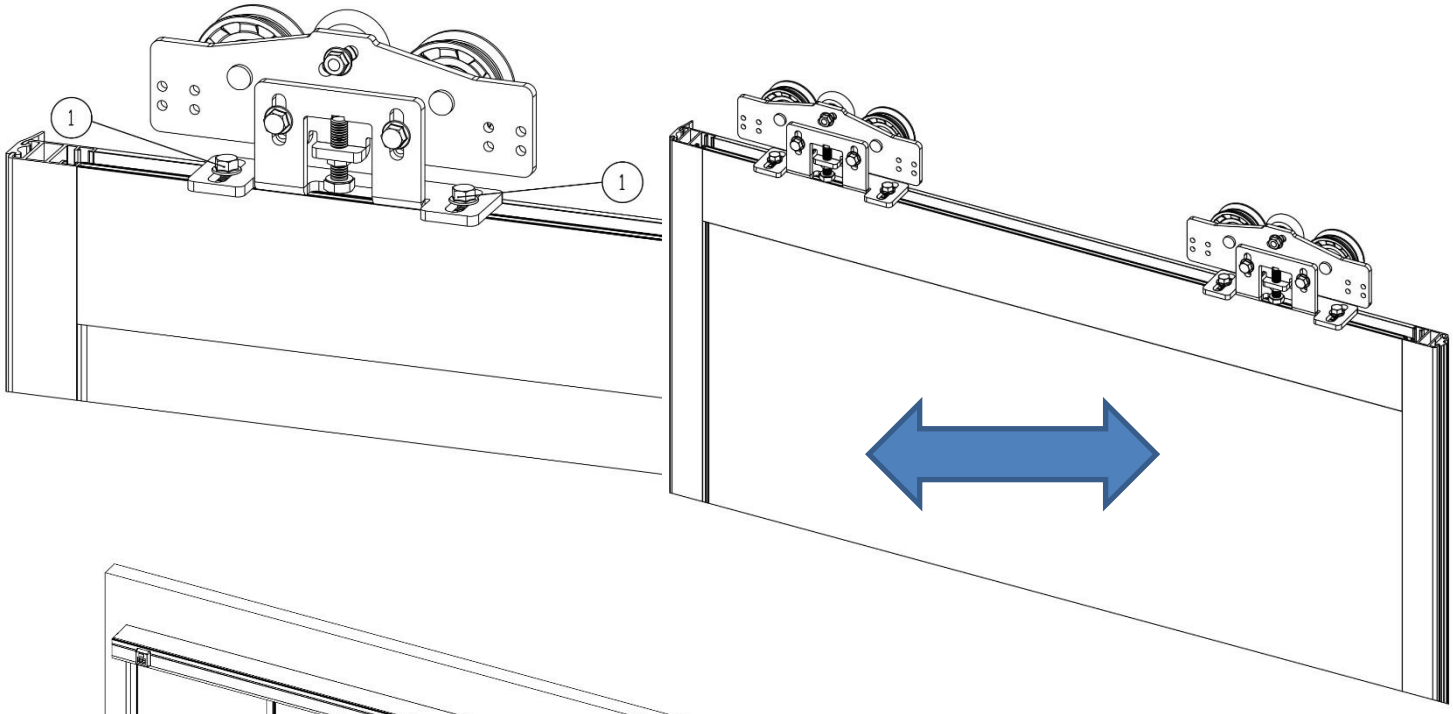
1. Loosen with 10 size spanner key the number 1 screws.
2. Use bolt number 2 to adjust the height
3. After adjusting the height, tighten the nut marked with number 3.
4. Then tighten the loosened screws number 1 again.

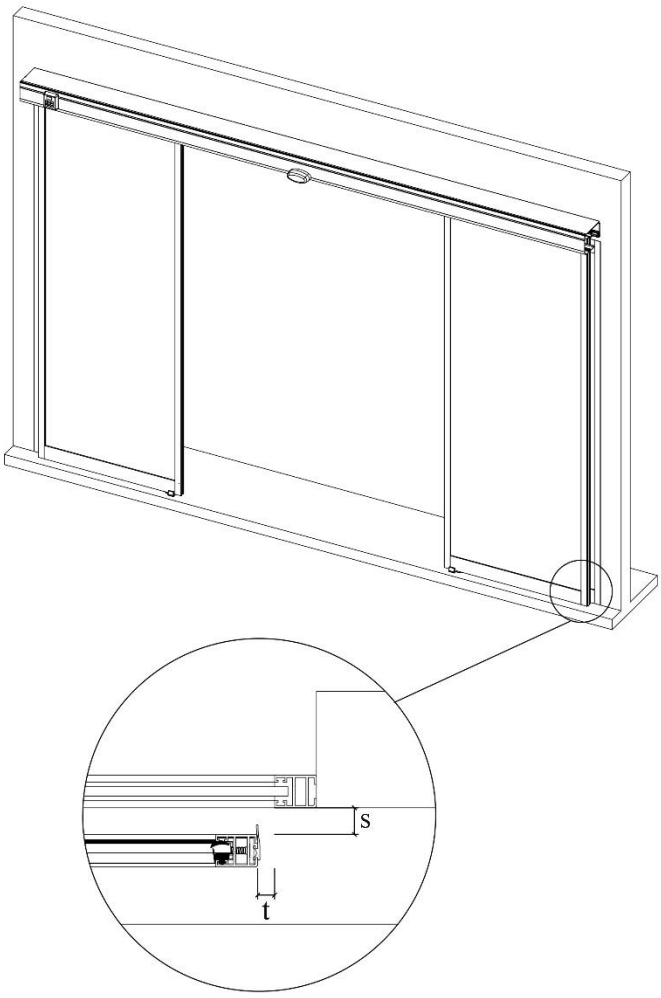


x value must be between 12 mm and 15 mm.
You should keep the leaf parallel to the ground.

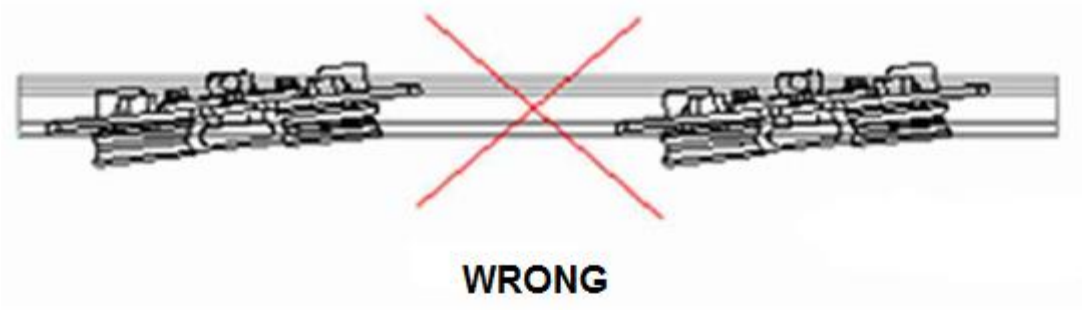
5.25. SLIDING LEAVES DEPTH ADJUSTING

Depth Screws adjustment makes with the help of 10 size spanner keys , loosen the bolt and adjust the movable wing depth by moving the carrier pulley and forth.. After adjusting the depth, tighten the loosened depth adjustment bolts.



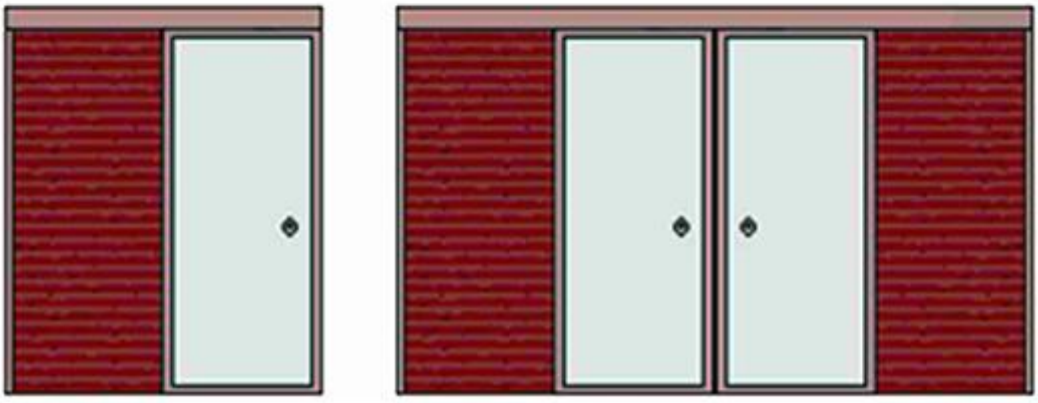


If s ≤ 8, t ≤ 0 or s> 8, then must t ≥ 25.



WRONG

CORRECT



Picture 18

5.27. DRIVE BELT LENGTH - CALCULATION FORMULA

Drive Belt length at 2 movable leaves mechanisms = (Motor mounting dimension + Counter Pulley mounting dimension)x2+17cm

- Motor mounting dimension = passage width/2 + 40 cm
- Counter Pulley mounting dimension = passage width/2 + 40 cm

Note: Measurement starts from the center. The motor is located on the left side, the counter pulley on the right side.

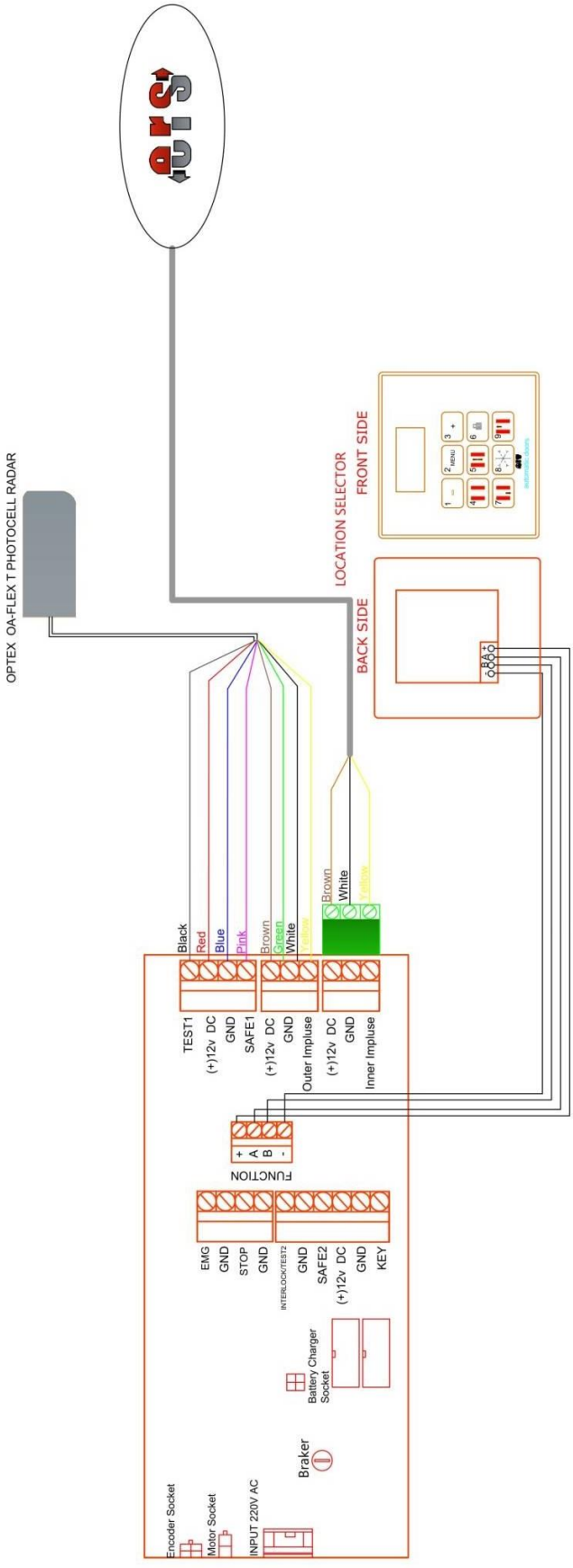
Drive Belt length in single sliding leaf mechanism opening to the left = (Motor mounting dimension - Counter Pulley mounting dimension)x2+17cm .

- Motor mounting dimension = passage width + 44,5
- Counter Pulley mounting dimension = from the right side 20 cm(measure must taken from the right side)

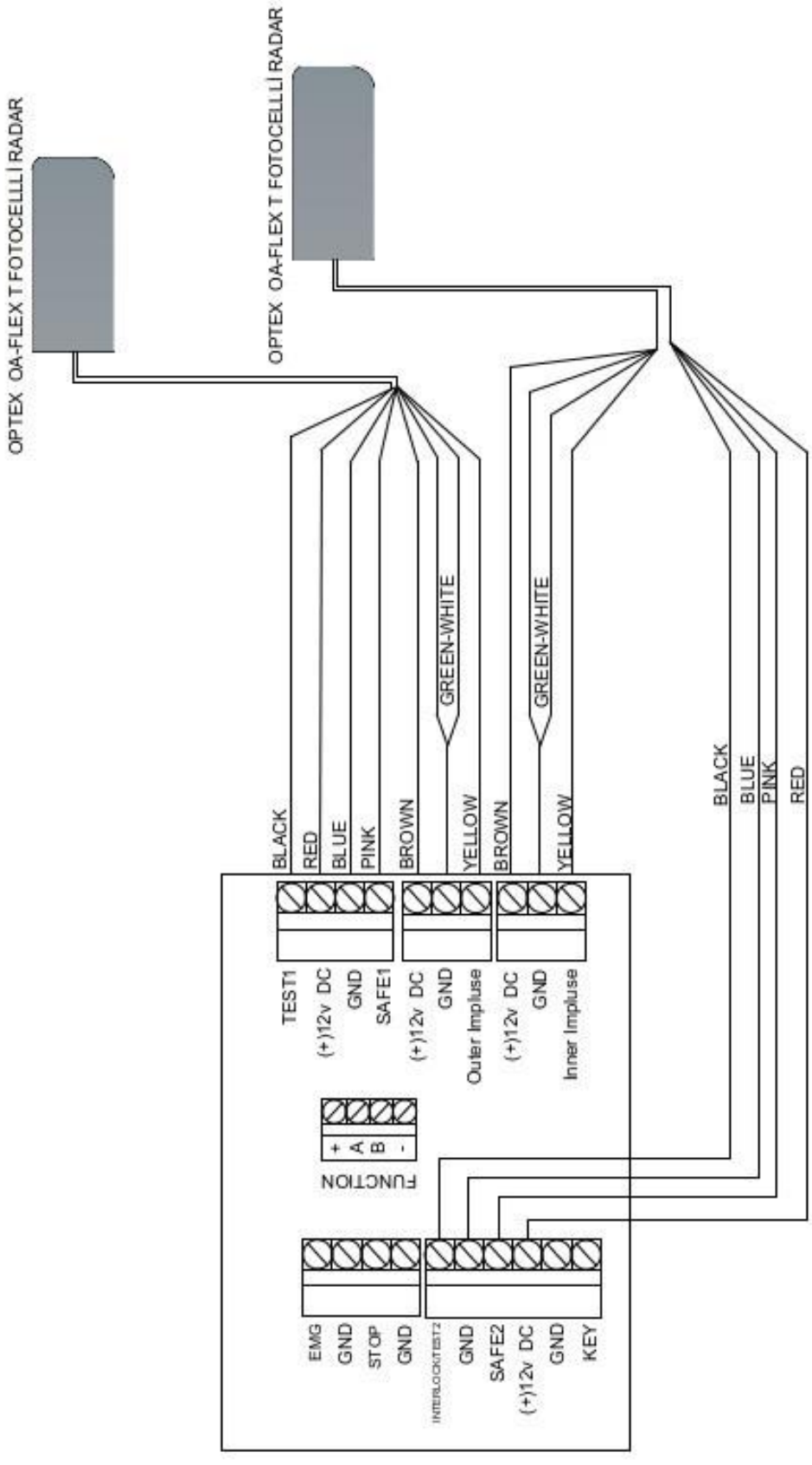
Drive Belt length in single-moving leaf mechanism opening to the right = (Motor mounting dimension - Counter Pulley mounting dimension) x2+17cm.

- Motor mounting dimension = from the right side 20 cm
- Counter Pulley mounting dimension = passage width + 44,5 cm(measure must taken from the left side)

6. ELECTRONIC CONNECTIVITY SCHEME

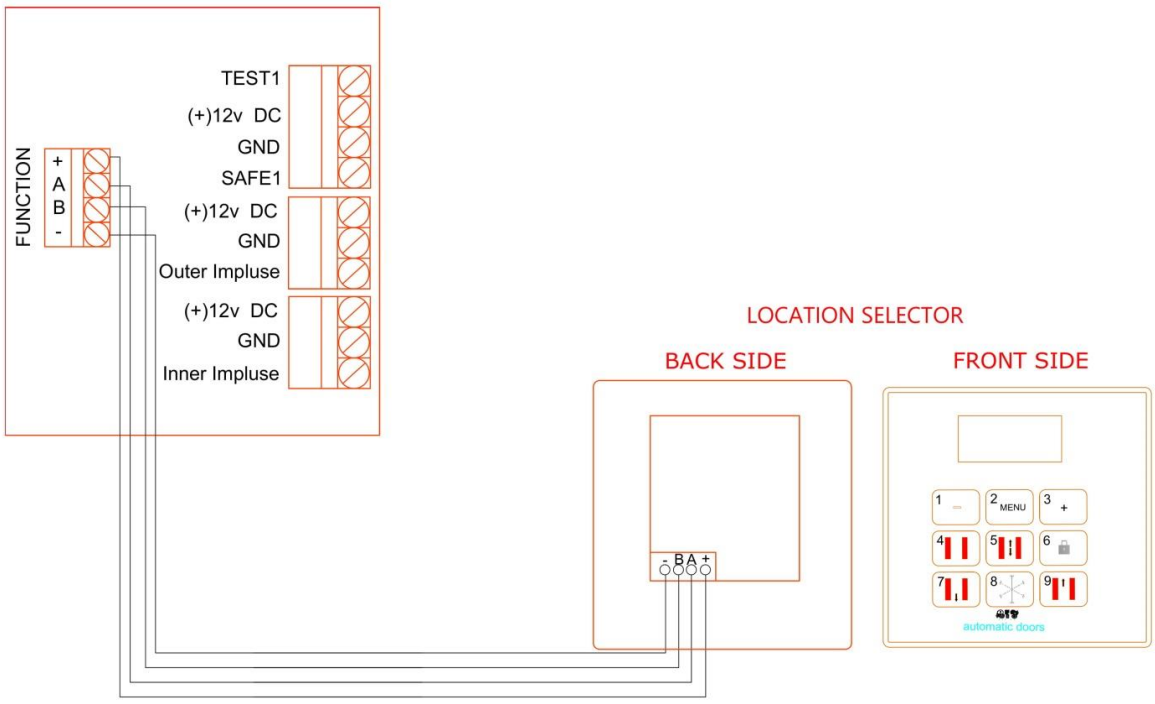


OPTEX 3D RADAR CONNECTIVITY SCHEME



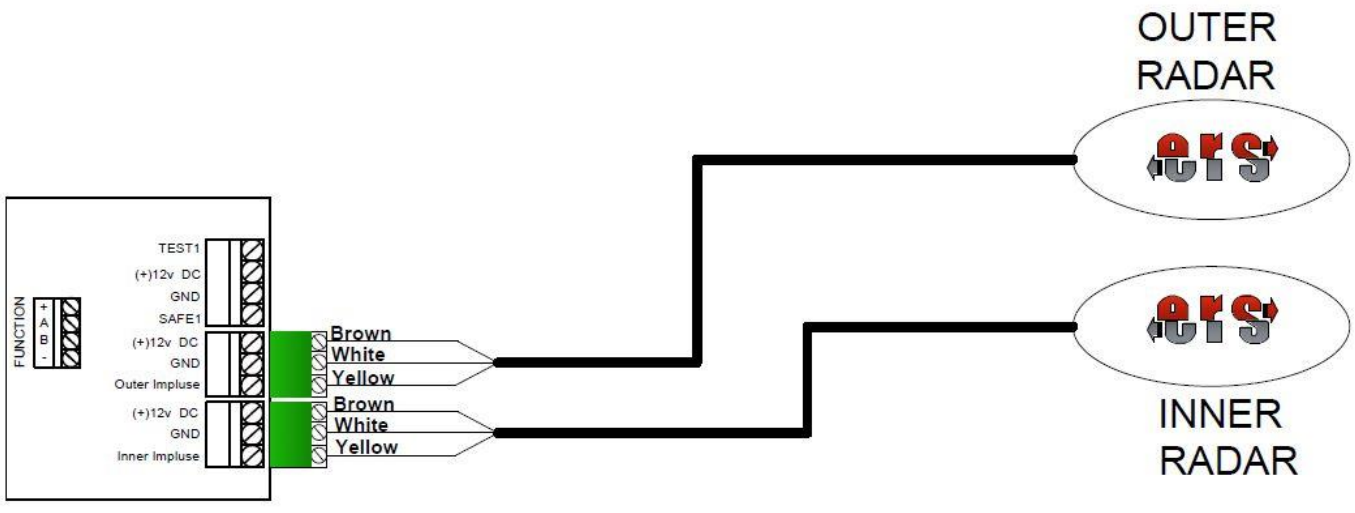
DIGITAL FUNCTION SELECTOR - CONNECTIVITY SCHEME

ERS Digital function selector provide 6 different position such mode as Auto **(automatic position) -** Half **(Half open - Winter / Pharmacy position) -** Open **(open/on-position) -** Lock **(locked position) -** In **(only entry position) -** Out **(only exit position) . It reports errors of all kinds and displays the error code on the digital function selector with the consisted error code number. It ensures the correct use of errors caused by operating errors.**



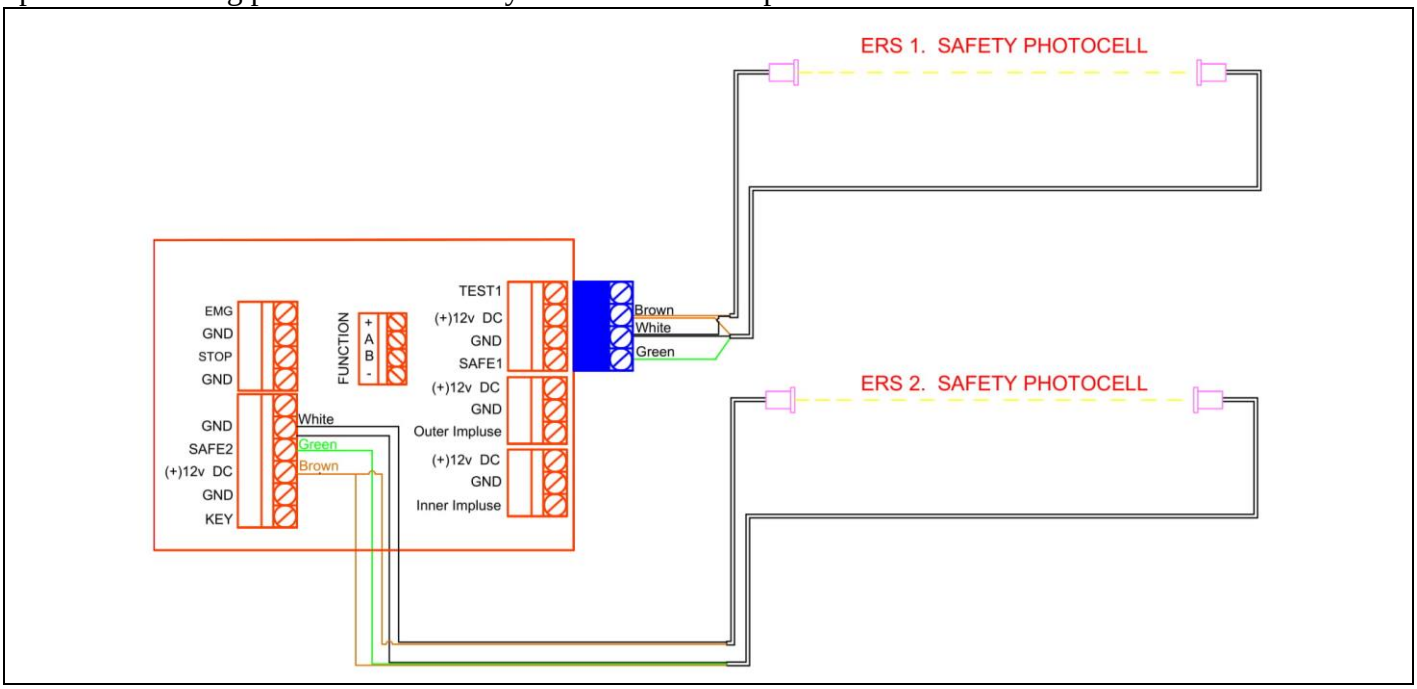
RADAR CONNECTIVITY SCHEME

The radar is used to detect the incoming person and to have the door open automatically. On request can be mounted on the inside and outside of the door. Detection distance should be minimum less than 1.5mt.



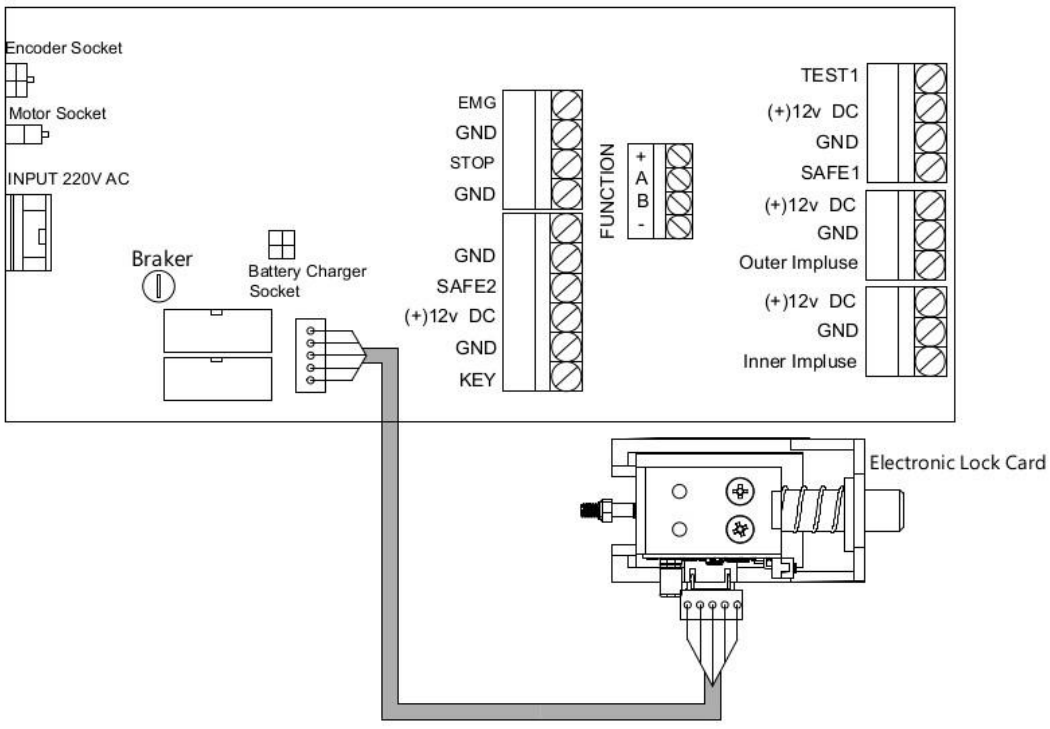
SAFETY PHOTOCELL SENSOR - CONNECTIVITY SCHEME

The door that completes the opening is automatically closing. At this time photocell is switched on when the new person or waiting person is detected by infrared line and opened back.



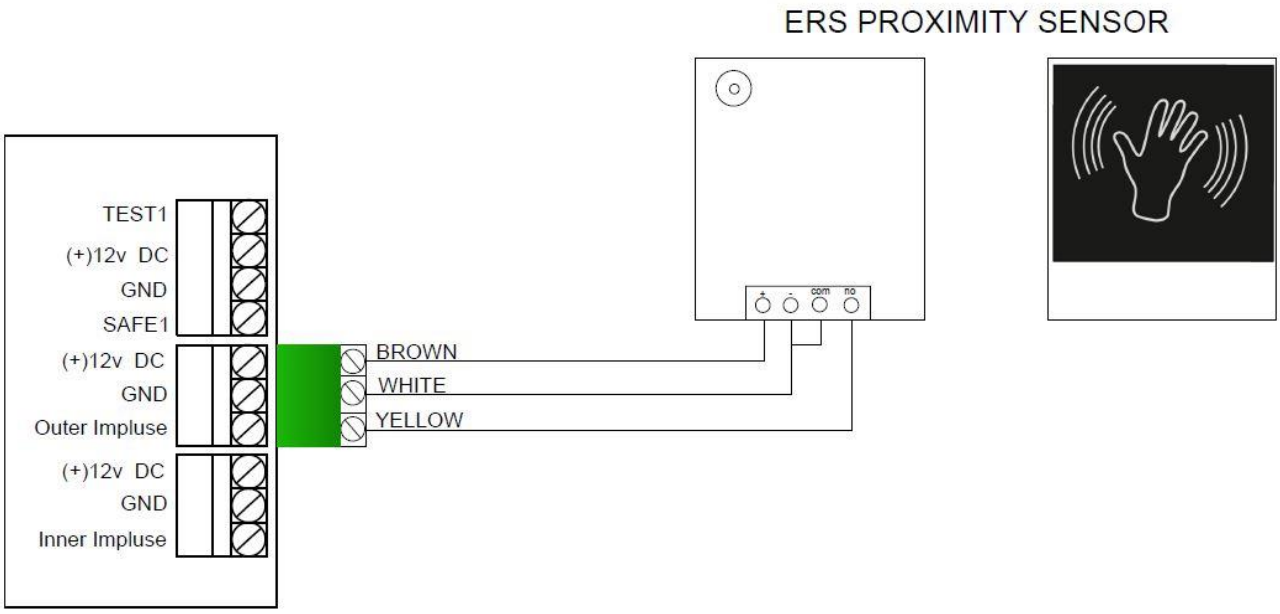
ELECTRONIC LOCK - CONNECTIVITY SCHEME

By Image series can be added to the optional mechanism to prevent the moving photocell doors from being opened by external intervention. When position locked, it prevents the door from opening because it is locked from the center.



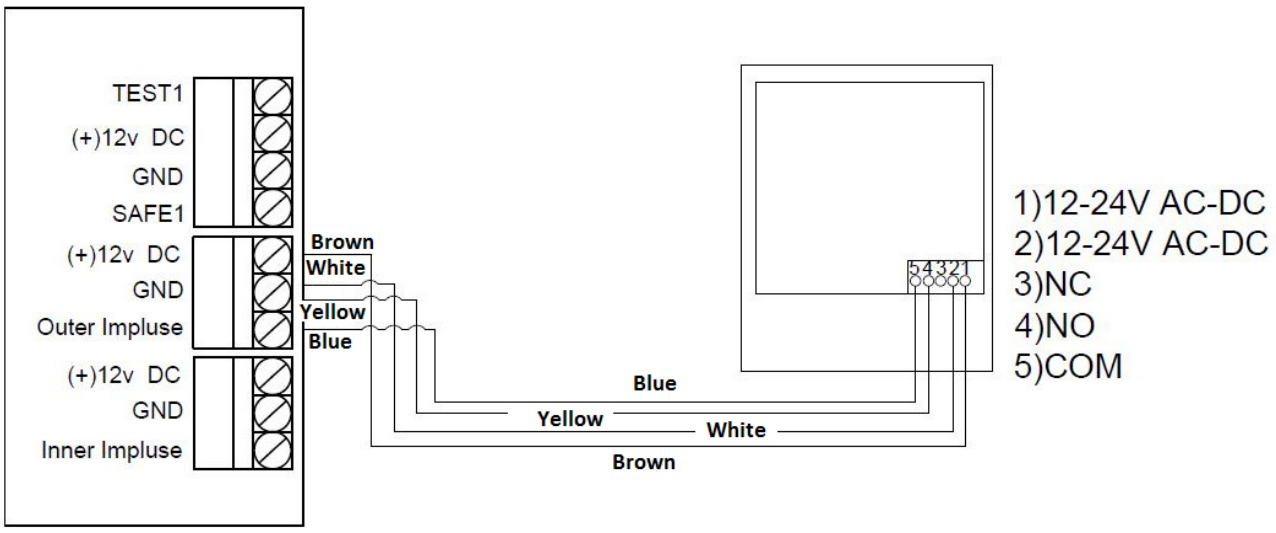
PROXIMITY SENSOR - CONNECTIVITY SCHEME

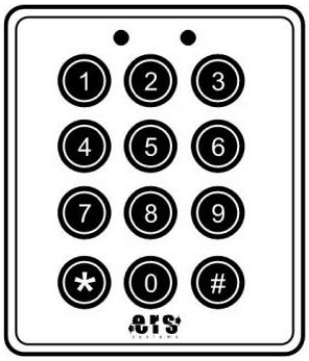
In public areas, radar is used to avoid unnecessary door entry by entering each circuit and opening it noncontact like surgical doors.



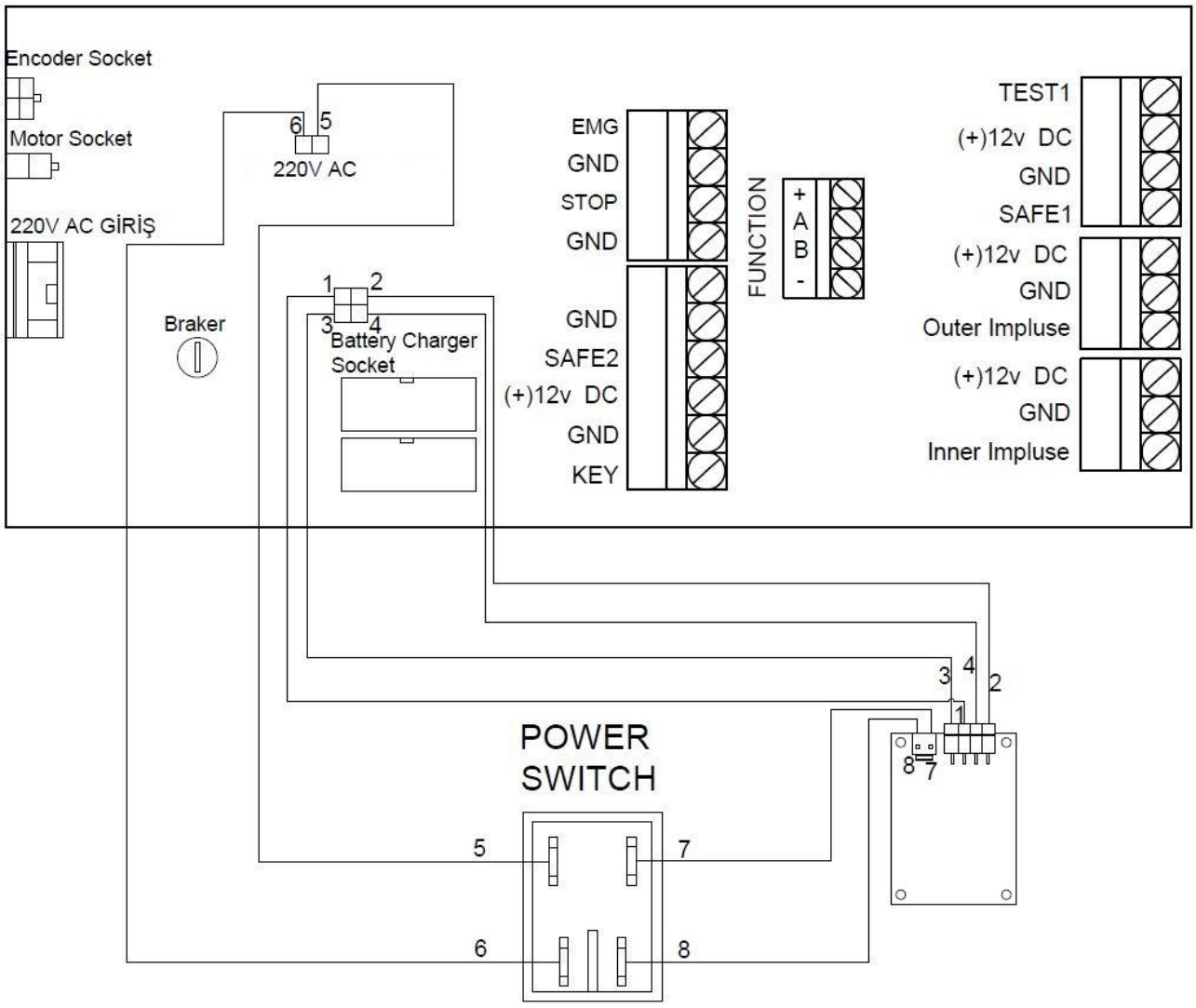
CARD TRANSITION & PASSWORD ACCESS - CONNECTIVITY SCHEME

To prevent inward unauthorized access, the desired cryptographic passthrough unit is implemented.

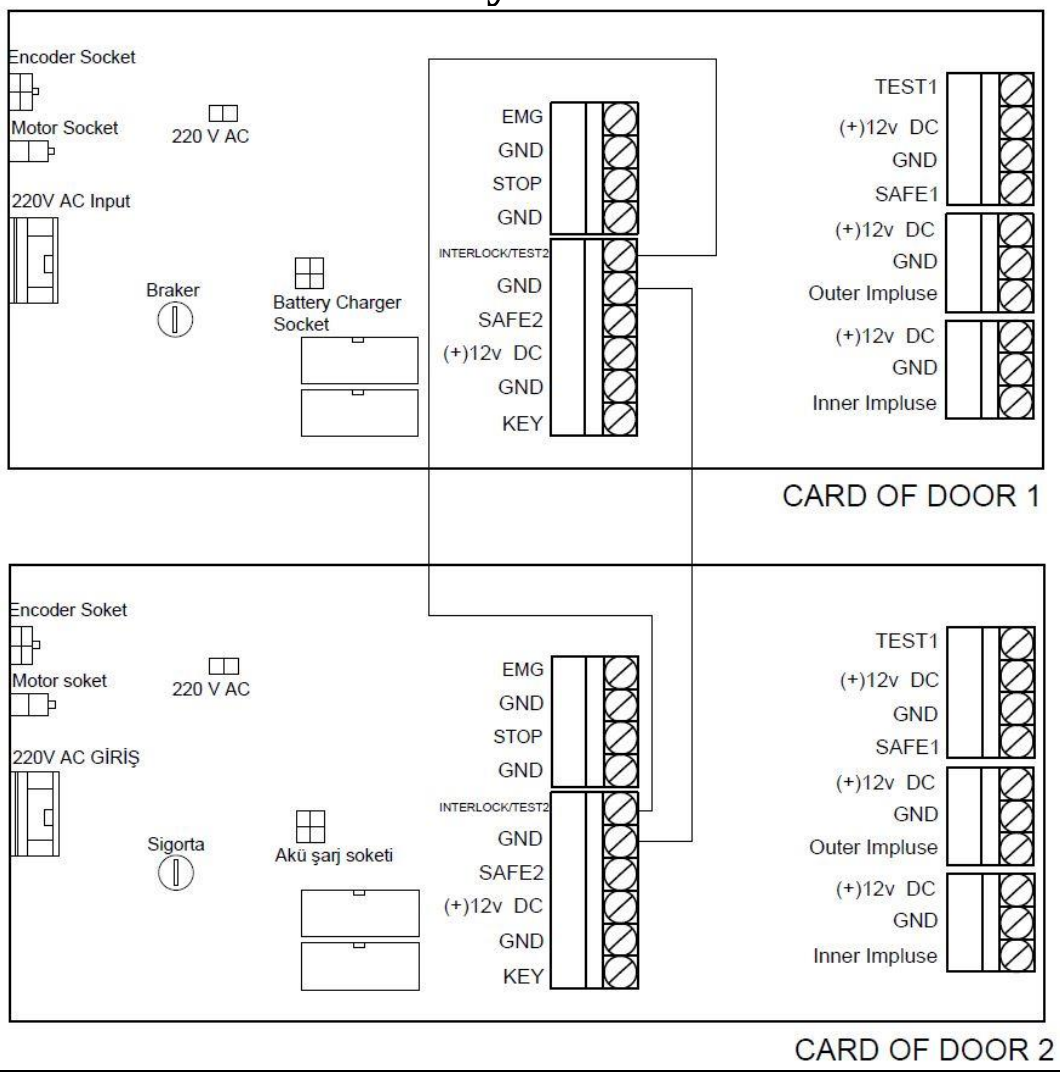




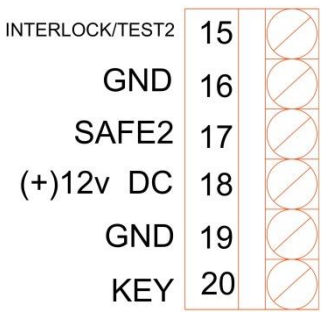
STORAGE BATTERY – CONNECTIVITY AND SCHEME POWER SWITCH - CONNECTIVITY SCHEME



Interlock Connectivity Scheme

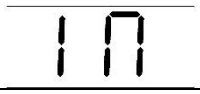


EMG: Output power relay used with closed contact is normally for emergency connections. When the signal arrives here, the door switches to the open state and the signal remains in this position until the state is corrected.
STOP: During the Break-out leaves system as soon as the break of the leaves performed, the system is in the stop position and allows manual use. Upcoming the Break-out leaves system is restored, it returns to its original state after the door has been scanned himself.



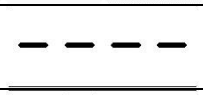
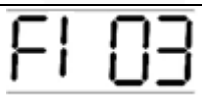
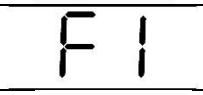
INTERLOCK, GND: Connection point of the air curtain system. Provides 2 or 3 doors connection to each other.
KEY: Remote control, wireless etc. and the connection point of devices that can come in link with the door. The door opens in case of contact at any position and closes after 5 seconds.

7. DIGITAL FUNCTION SELECTOR - APPEARANCE & SETTINGS

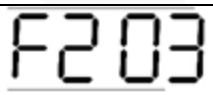
BUTTON	INDICATOR	EXPLANATION
		Used to change options in the setup menu and reduce digits in customization mode. It is used as push button 1 for password use.
		Used to enter the menu and accept settings still in the menu.It is used as push button 2 for password use.
		Used to change options while in menu, and to increase digits in setting mode. It is used as push button 3 for password use.
		Keeps the door at open mode . By glass wiping and manual operation must be brought into the OPEN door position to enter the setting mode. It is used as push button 4 for password use. Used also to exit the setting mode
		Used to take the door to the automatic position. It is used as push button 5 for password use.
		Door locked mode. The electronic lock is activated and the door locks. It is used as push button 6 for password use.
		The door is the only entry actor and the external radar is activated. Internal radar is disabled. It is used as push button 7 for password use.
		The door is half open winter / pharmacy mode . The desired aperture is set from the menu F4 Factory default is 75%.It is used as push button 8 for password use.
		The door is the only entry actor and the Internal radar is activated.external radar is disabled.It is used as push button 9 for password use.

8. DIGITAL FUNCTION SELECTOR- SETTINGS

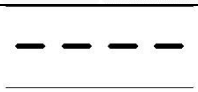
F1 SETTING - DOOR OPENING SPEED

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article.
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears at screen . The door makes the adjustment of the opening speed.
	Press Menu button
	The opening speed is entered in the setting menu. The speed value flashes.
	Use the + and - keys to set the speed.
	Press the Menu button to save the value you have set.
	F1 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

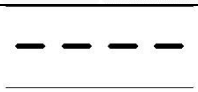
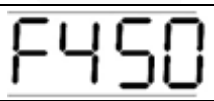
F2 SETTING - DOOR CLOSING SPEED

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears at screen .
	Use the - and + keys to select the F2 mode.
	F2 is for door closing speed setting
	Press Menu button
	The closing speed is entered in the setting menu. The speed value flashes.
	Use the + and - keys to set the speed.
	Press the Menu button to save the value you have set.
	F2 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

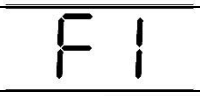
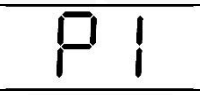
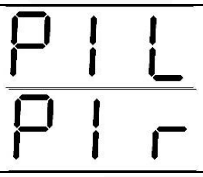
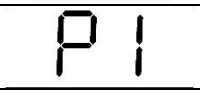
F3 SETTING - STANDBY BEFORE DOOR CLOSING

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select F3 mode.
	F3 is the door closing standby
	Press Menu button
	The closing Standby is entered in the setting menu. Standby value flashes.
	Use the + and - keys to set the standby.
	Press the Menu button to save the value you have set.
	F3 appears on the screen
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

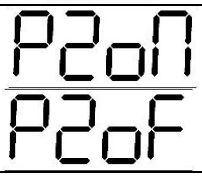
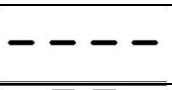
F4 ADJUSTING DOOR HALF OPEN - WINTER / PHARMACY MODE

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article.
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select F4 mode.
	F4 is for half opening - Winter / Pharmacy Mode
	Press Menu button
	The Winter / Pharmacy Mode is entered in the setting menu. half opening value flashes.
	Use the + and - keys to set the half opening distance
	Press the Menu button to save the value you have set.
	F4 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

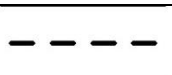
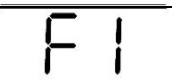
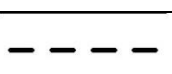
P1 SETTING - DOOR OPENING DIRECTION

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select P1 mode.
	P1 is Setting for door opening direction
	Press Menu button
	Used to set the opening direction of the door to the right or left. Factory default direction is left (L)
	Use the + and - keys to set the time
	Press the Menu button to save the value you have set.
	P1 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

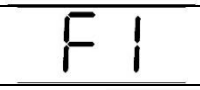
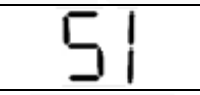
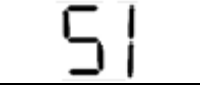
P2 DIGITAL FUNCTION DEVICE - PASSWORD SETTINGS

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select P2 mode.
	P2 used for Digital Function Selector password setting . It also prevents unauthorized intervention.
	Press Menu button
	Position ON is for create password.Position OF is for keyless use. Factory default is OF
	Use the - and + keys to select ON-OF
	Press the Menu button to save the position you have set.
	By ON position, see CodE and press password.
	Enter your 4-digit password.
	Password entered
	P2 appears on the screen.
	By pressing the OPEN button exits setting mode.

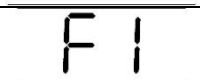
P3 OPERATOR PASSWORD SETTING

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select P3 mode.
	P3 is for Operator Password Setting
	Press Menu button
	Position ON is for create password.Position OF is for keyless use. Factory default is OF.
	Use the - and + keys to select ON-OF
	Press the Menu button to save the position you have set.
	By ON position, see CodE and press password.
	Enter your 4-digit password.
	Password entered
	P3 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

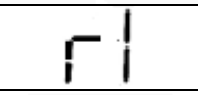
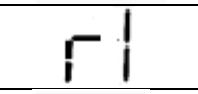
S1 SAFETY SENSOR - ACCESS OR CANCELLATION SETTING

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select S1 mode.
	S1 Performs the act of safety sensor access or cancellation setting. Use is not recommended, it should only be used when necessary.
	Press Menu button
	Position ON activates the safety sensor. Position OF is used to deactivate safety sensor.
	Use the - and + keys to select ON-OF
	Press the Menu button to save the value you have set.
	S1 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

S2 SAFETY SENSOR - ACCESS OR CANCELLATION SETTING

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select S2 mode.
	S2 Performs the act of safety sensor access or cancellation setting. Use is not recommended, it should only be used when necessary.
	Press Menu button
	Position ON activates the safety sensor. Position OF is used to deactivate safety sensor.
	Use the - and + keys to select ON-OF
	Press the Menu button to save the value you have set.
	S2 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

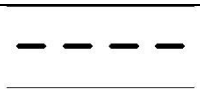
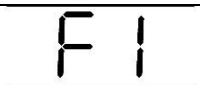
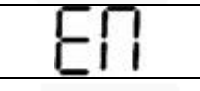
r1 RADAR - ACCESS OR CANCELLATION SETTING

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select R1 mode.
	R1 Performs the act of safety sensor access or cancellation setting. Use is not recommended, it should only be used when necessary.
	Press Menu button
	Position ON activates the safety sensor. Position OF is used to deactivate safety sensor.
	Use the - and + keys to select ON-OF
	Press the Menu button to save the value you have set.
	R1 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

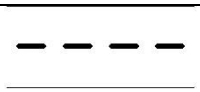
r2 RADAR - ACCESS OR CANCELLATION SETTING

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered.
	F1 appears on the screen.
	Use the - and + keys to select R2 mode.
	R2 Performs the act of safety infrared access or cancellation setting. Use is not recommended, it should only be used when necessary.
	Press Menu button
	Position ON activates the safety sensor. Position OF is used to deactivate safety sensor.
	Use the - and + keys to select ON-OF
	Press the Menu button to save the value you have set.
	R2 appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

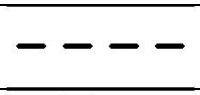
ACTIVATION OF TESTS AND CONTROLS APPLIED ACCORDING TO **EN16005** STANDARDS

PROCESS	EXPLANATION
	**press OPEN button**
	**See OPEN article**
	**Press and hold the MENU button for 5 seconds**
	**Look at CodE and choose password**
	**Factory default password is 3-5-3-5**
	**Password entered**
	**F1 appears on the screen.**
	**Use the - and + keys to select EN mode.**
	**It controls the functionality of the radar sensor suitably with EN 16005. The radar also enables the operation of the device without a radar connection in the event of a fault.**
	**Press Menu button**
	**Position ON activates the safety sensor EN. Position OF is used to deactivate safety sensor.Factory default position is OF.**
	**Use the - and + keys to select ON-OF**
	**Press the Menu button to save the value you have set.**
	**EN appears on the screen.**
	**By pressing the OPEN button exits setting mode.**
	**The door remains in OPEN status in the setting mode. The desired position can be switched.**

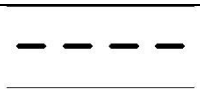
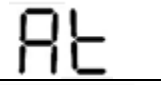
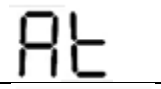
AC EMERGENCY CASES - ACCESS OR CANCELLATION SETTING

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select AC mode.
	AC Performs the act of emergency access or cancellation setting. Use is not recommended, it should only be used when necessary.
	Press Menu button
	Position ON activates the emergency access . Position OF is used to deactivate emergency access .Factory default position is OF.
	Use the - and + keys to select ON-OF
	Press the Menu button to save the value you have set.
	AC appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

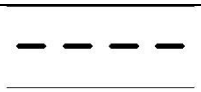
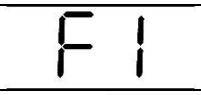
IL INTERLOCK CONNECTION - ACTIVATION

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select IL mode.
	Two doors leaves allow to work in the synchronized interlock mode
	Press Menu button
	Position ON activates IL system . Position OF is used to deactivate IL system . Factory default position is OF.
	Use the - and + keys to select ON-OF
	Press the Menu button to save the value you have set.
	IL appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

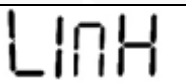
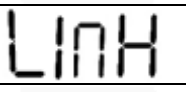
At DETERMINING AND CHECKING THE EMERGENCY TYPE MODE

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select IL mode.
	Determines door emergency mode.
	Press Menu button
	Use the - and + keys to select emergency mode. 02 = Factory default 01 = Remains Closed 00 = Remains Open
	Press the Menu button to save the value you have set.
	At appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

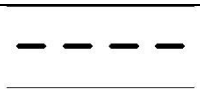
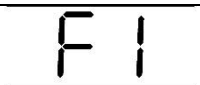
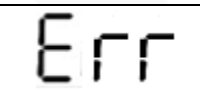
Ir ERROR CODE SCREEN - SETTING PERFORMING TIME

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Use the - and + keys to select IL mode.
	Determines the failure time of the door.
	Press Menu button
	Use the - and + keys to adjust time selection
	Press the Menu button to save the value you have set.
	Ir appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

LInH CANCELLING ELECTRONIC LOCK AT HALF MODE

PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered.
	F1 appears on the screen.
	Use the - and + keys to select LInH mode.
	Used to activate or deactivate the Electronic lock when the leaves are in the Semi-open position(Half Mode).
	Press Menu button
	Position ON make the system ON mode. Position OF make the system OF mode.
	Use the - and + keys to select ON-OF
	Press the Menu button to save the value you have set.
	LInH appears on the screen.
	By pressing the Open button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

Err ERROR CODE ALERT

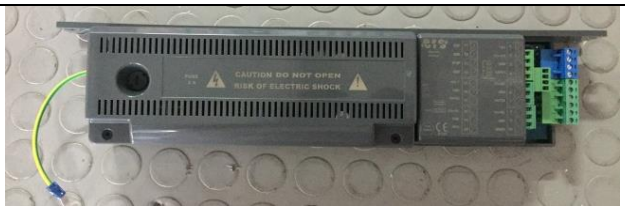
PROCESS	EXPLANATION
	press OPEN button
	See OPEN article
	Press and hold the MENU button for 5 seconds
	Look at CodE and choose password
	Factory default password is 3-5-3-5
	Password entered
	F1 appears on the screen.
	Determines the failure time of the door.
	Press Menu button
	Use the - and + keys so you can see the error codes
	Press the Menu button to save the value you have set.
	Err appears on the screen.
	By pressing the OPEN button exits setting mode.
	The door remains in OPEN status in the setting mode. The desired position can be switched.

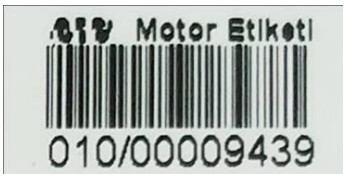
9. DIGITAL FUNCTION SELECTOR - FAILURE CODE & MEANING

SCREEN	*ERROR*	CORRECTION
Er 01	***İnfrared safety sensor Error***	There may be an obstacle in front of the safety sensor barrier or the Safety sensor barrier has failed.
Er 02	There is an obstacle in the opening direction. An obstacle or pressure has occurred on the back of the leaves .	The obstacle must be removed. Check the pressure condition.
Er 03	There is an obstacle in the closing direction. An obstacle or pressure has occurred on the front of the leaves .	The obstacle must be removed. Check the pressure condition.
Er 04	it is not used	it is not used
Er 05	The unlock signal input part is in continuous contact state.	Key impulse signal input is in continuous contact, press release contact should be connected
Er 06	Emergency exit button activated.	Emergency 1 signal input continuous contact . The Emergency button must taken to the OF position.
Er 07	Motor and encoder cable connection error.	Motor and encoder connection directions are reversed. Look at it. Turn off and on again.
Er 08	There is an motor malfunction, electronic card malfunction or pressure.	Motor error, reducer or pulley not rotating, there is jamming. The electronic card may have error .
Er 09	It may have been hit damage on the door.	The door faced may with stringent hit ,or electronic card error . The system do protects of itself,makes Restarts .
Er 10	Excess voltage	Excess voltage on electronic card . The system do protects of itself,makes Restarts .
Er 11	Battery empty.	The battery is not charging . There is an voltage problem, or battery life may have expired.
Er 12	Indicates that it has gone to the Stop state.	Visible at Breakout mechanism. According leaf be returned to its original state, error code is cleared.

Er 13	Out safe error	There may be an obstacle in front of the safety sensor barrier or the Safety sensor barrier has failed.
Er 14	Second safe error	There may be an obstacle in front of the safety sensor barrier or the Safety sensor barrier has failed..
Er 15	Crash in the opening and closing direction.	The obstacle must be removed. Check the jam condition.
Er 16	Overcurrent error in the motor pressure	Eliminate the excessive load on the door.
Er 17	Encoder error during operation.	Check the encoder connections.
Er 18	Encoder green cable broken off	Check the green cable
Er 19	Encoder yellow cable broken off	Check the yellow cable
Er20	Solenoid overcurrent error	Check solenoid connections. Contact the technical service.
Er21	Solenoid switch error	Check if the switch is in contact with the solenoid positions.
Er22	Solenoid communication error	Check solenoid connection
Er23	Class B error	
Er24	Overcurrent in opening direction	Check the mechanical control components
Er25	Overcurrent in closing direction	Check the mechanical control components

USED TAGS AT ERS AUTOMATIC DOOR DESIGN

TAGS	TAG LAYOUT	USED PLACE
PRODUCT INFORMATİON TAG		ON PACKAGED PRODUCT .
CAUTION VOLTAGE WARNING TAG		 **SMPS TAG ON THE SIDE**
PRODUCT INTRODUCTORY TAG		 CONTROL UNIT ON SUB-PART
CONTROL UNIT TAG		 ON PRINTED-CIRCUIT CARD COVER

MOTOR SERIES NO LABEL		 On Motor
VERSION LABEL		CONTROL UNIT BOTTOM
DIGITAL FUNCTION SELECTOR SERIES NO LABEL		 ON DIGITAL FUNCTION SELECTOR
CARD SERIES NO LABEL		 ON CARD

CARRIAGE & MAINTENANCE

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10. .1. CARRIAGE;

When shipping the product, It should be carefully packed before shipment to protect it from damage or shock. When product and component etc. carriage by forklift, the person who carries it must have the necessary driving license. Product and component to be delivered to the warehouse must be removed from the packaging either by contacting the place parallel to the ground or by keeping it on a solid surface ground. Do not place upright and do not placed against wall..

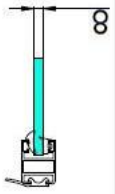
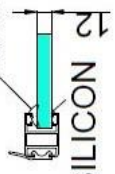
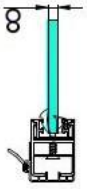
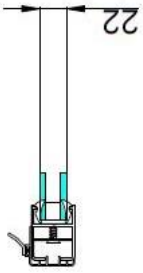
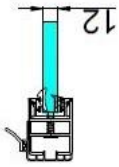
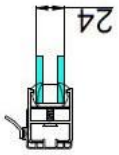
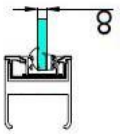
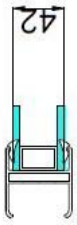
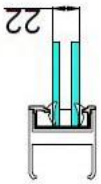
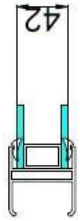
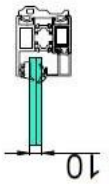
10.2. Maintenance;

*** ERS System - AUTOMATIC DOORS must be used clean .**
*** Keep the mechanism of dust and dirt as far as possible,too should be cleaned with a damp swab .**
*** During the cleaning of the windows , electricity must be cut off and Attention water should not be flushed in the mechanism.**
*** Especially Motor – Radar and safety sensors must not be in contact with water or liquid.**
*** Before pasting picture poster, etc installation.Approval must be obtained from ERS executive.**
*** Never use oil or similar materials in the system. ERS system works in dry.**
*** Any foreign object must be removed from the movement area of the leaves.**
*** Speed settings made by ERS authorized personnel,such as opening and closing speed etc.,cannot be changed by unauthorized persons.**
*** When faced with any error in the system do not intervene,cut off electricity and call the authorized service.**
*** Checkup of correct operation, safety functions and devices is recommended once a year.**

10.3. Warranty ;
*** Our product is 2 years guaranteed against production error .**
*** In case of malfunctions that may occur, technical executive must be informed it must also be acted according to the instructions.**
*** On request, a periodic maintenance contract can be concluded.**

10.4. Operational Lifetime ;
*** ERS products has Operational Lifetime of 10 years**

GLASS THICKNESS FOR ALL OUR FRAMES

SERİ / SERIES	MİNİMUM DÖNÜŞTÜRÜCÜLÜ (MIN. THICKNESS WITH CONVERTER)	MİNİMUM DÖNÜŞTÜRÜCÜSÜZ (MIN. THICKNESS WITHOUT CONVERTER)	MAKSİMUM DÖNÜŞTÜRÜCÜLÜ (MAX. THICKNESS WITH CONVERTER)	MAKSİMUM DÖNÜŞTÜRÜCÜSÜZ (MAX. THICKNESS WITHOUT CONVERTER)
28				
36				
55				
45				

Manufacturer

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