

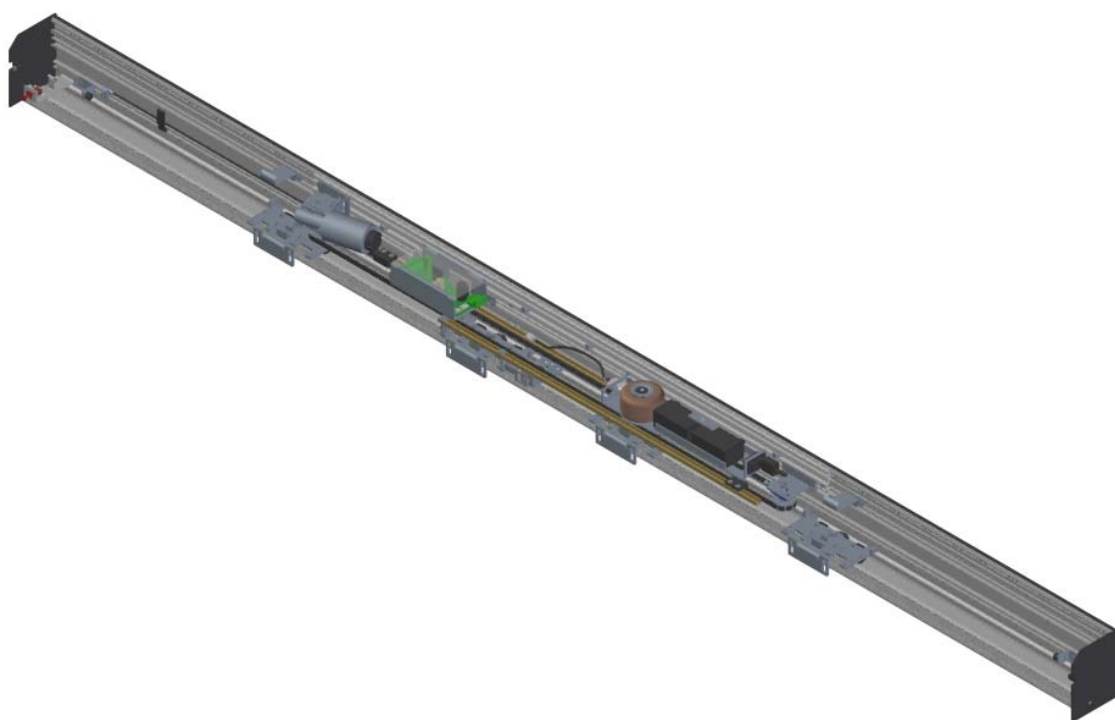
ERTAIN SYSTEM

ACTUATOR FOR SLIDING DOORS

OPERATOR 1450/1850

INSTALLATION MANUAL

www.erreka.com



ERREKA
AUTOMATION SYSTEMS / AUTOMATIC DOORS



INTRODUCTION

ERREKA Automatic Doors thanks you for the trust placed in us and for having selected a product that we manufacture. We recommend detailed reading of this installation manual for proper assembly, the performance of your automatic door will depend on the quality of your work.

ERREKA Automatic Doors will not be held liable for any damages caused by an installation not in accordance with this Installation Manual.

This installation manual applies to operators from version v.2.1 of Ertain System onwards.

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1. WARNING FOR THE INSTALLER

Importance of this manual

- Before installing, please read this manual and follow all instructions. Otherwise, the installation may be faulty and may cause accidents and breakdowns.
- ERREKA Automatic Doors will not be held liable for any damages caused by an installation not in accordance with this Installation Manual.

Projected Usage

- This product has been designed to be installed as part of automatic opening and closing sliding pedestrian doors. It is designed for intensive use within the weight limits indicated on the characteristics. Installation and use is indicated to use inside buildings.
- Any use for any purpose other than indicated is considered inadequate and therefore dangerous.

Safety elements

- The unit meets all current safety standards. Follow the instructions of all the elements fitted in the installation.
- Erreka Automatic Doors doesn't accept any responsibility for the safety and smooth operation of the door when using system components other than those produced by Erreka.

2. EC CONFORMITY STATEMENT

Manufacturer: MATZ ERREKA, S. Coop.
 B ° San Juan 93
 20570 Bergara (GUIPUZCOA) - SPAIN

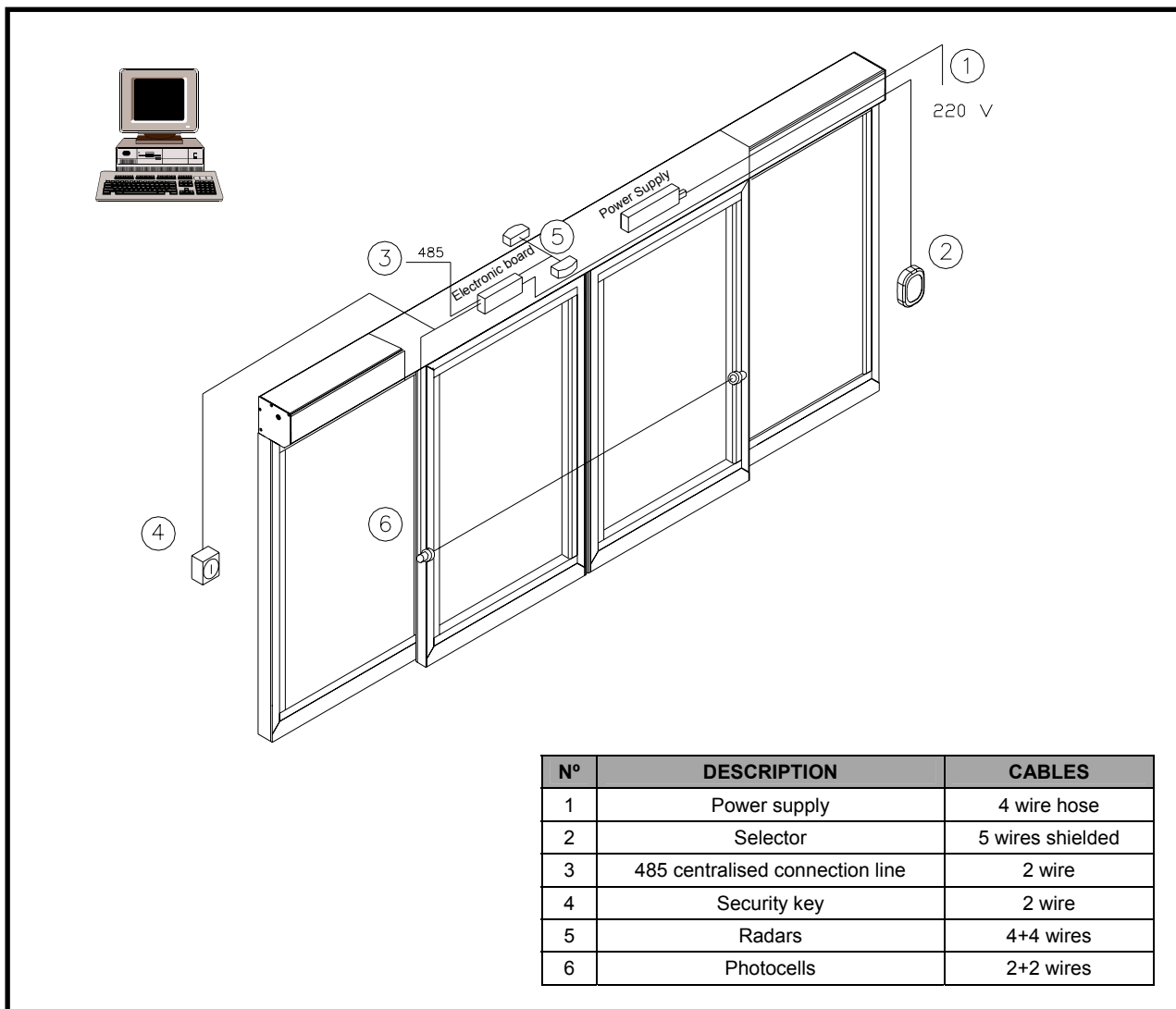
Product: Operator for automatic sliding door ERTAIN SYSTEM 1450-1850

- States that:** The operator has been constructed to be incorporated into the machinery or to be assembled with other elements to create a machine under the following guidelines and standards:
- Machinery Directive 89/392/EEC and subsequent amendment 2006/42 EEC
 - EMC Directive 89/336/EEC and subsequent amendment 92/31/EEC
 - Low Voltage Directive 73/23/EEC and subsequent amendment 93/68/EEC
 - Construction Products Directive 89/106/EEC

3. TOOL KEY



4. ELECTRIC PRE-INSTALLATION



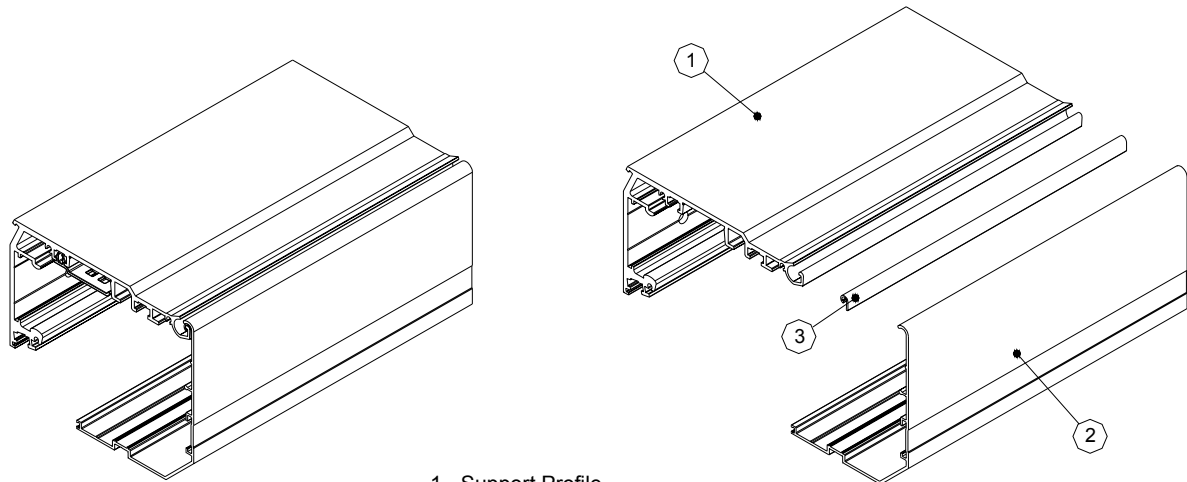
5. TECHNICAL CHARACTERISTICS:

CHARACTERISTICS	Operator 1450	Operator 1850
Clearway (2 sliding-leaves)	1000-2300mm	1100-3000mm
Clearway (1 sliding-leaf)	750-1150mm	1000-1550mm
Maximum weight per leaf (2 leaves)	80 + 80 Kg.	80 + 80 Kg.
Maximum weight per leaf (1 leaf)	120 Kg.	120 Kg.
Opening speed	0.4-0.7 m / s	0.4-0.7 m / s
Closing speed	0.2- 0.5 m/s	0.2- 0.5 m/s
Maximum closing force	150 N	150 N
Temperature	-20°C/ +50°C	-20°C/ +50°C
Door open timing	90 sec.	90 sec.
Power Supply *	230 V ~ (± 10 %) / 50 Hz	230 V ~ (± 10 %) / 50 Hz
Consumption	100 W	100 W
Batteries	Lead (12 +12 v)	Lead (12 +12 v)

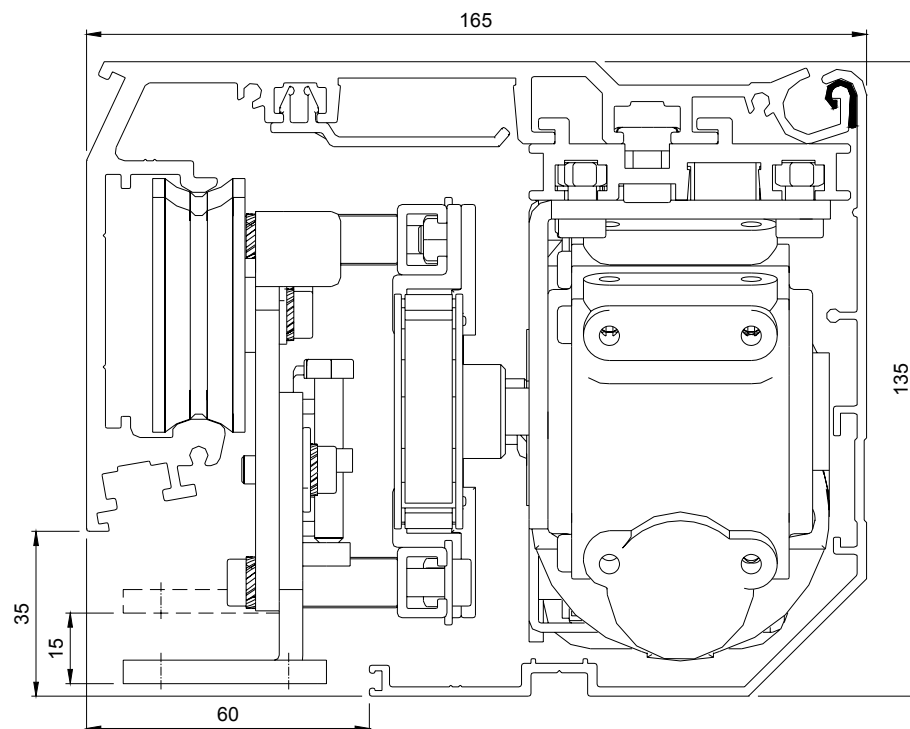
* Available upon request, the version of the operator for the supply of: 110 V ~ (± 10 %) / 60 Hz

6. ASSEMBLY

This section explains in detail how to perform the installation mounting. For your information the following shows a diagram of the profiles and external dimensions of the motorization.



- 1.- Support Profile.
- 2.- Cover Profile.
- 3.- Anti-vibration rubber band.

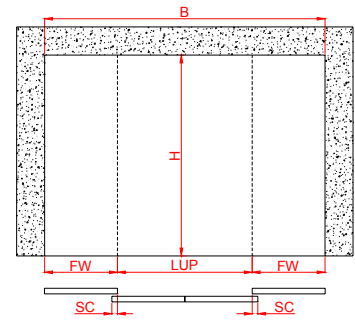


6.1 Measuring the structure beforehand

Measure the dimensions of the gap where the door will be installed:

- Clearance height (H)
- Total width (B)
- Define what the Clearway (LUP) is, the Clearance Height Width of the fixed leaves (FW), and the length of the support profile (B).

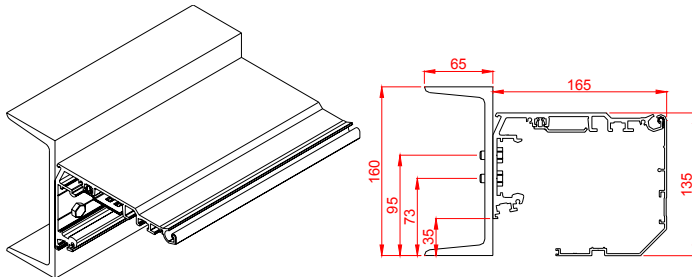
$$B=2 \times LUP + 2 \times SC + 100$$



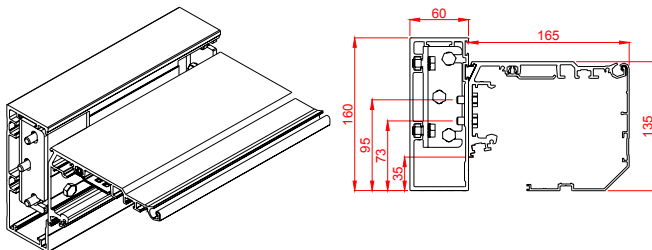
6.2 Fitting the support profile

Support profile fitting variants;

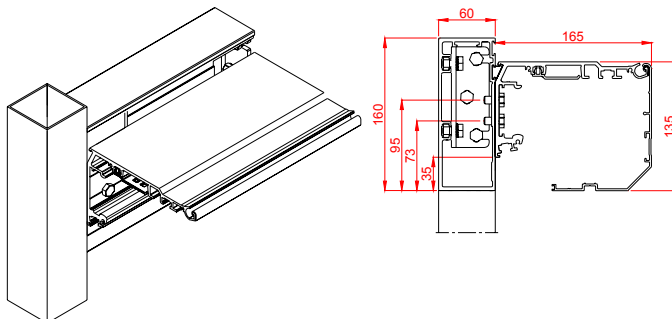
1.- Wall or UPN



2.- Erreka Dintel - self supporting Beam 1



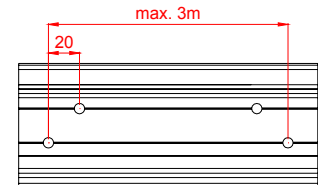
3.-Erreka Dintel – self supporting Beam 2



Steps to follow

1. - Mark the installation height of the support profile. The profile must be set at 35mm from the base of the beam (wall / structure).

2. - Make holes in the support profile on the marking lines.



3. - Fit the profile in the correct position and drill holes in the beam.

4. - In accordance with the characteristics of the beam:

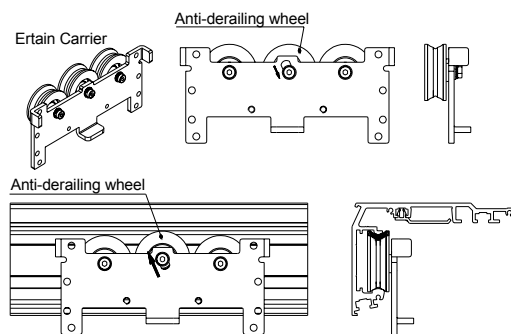
- Screw the holes for fixing the profile with M8 screws.
- Place anchors bolts to fix with spits.
- Fix the support with a special tapping screw.

5 - Secure the support profile. Make sure the profile is levelled.

(See also the installation drawings and manuals supplied and the mounting manuals when installing the Load bearing Structure!).

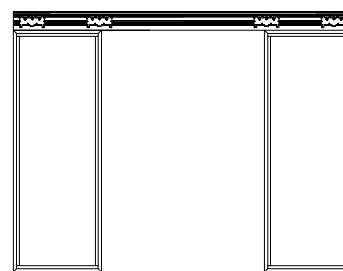
6.3 Positioning the carriages on the rail

- With a size 4 Allen wrench loosen the half-way wheel (anti-derailing wheel) and move to the lowest position of the slot.
- Put the carriage above the carriageway of the support profile.
- Once the carriage is on track, move the anti-derail wheel up and secure it.



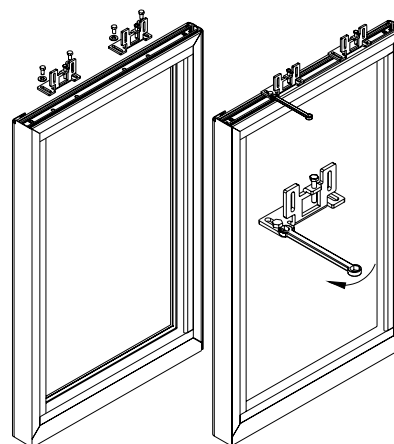
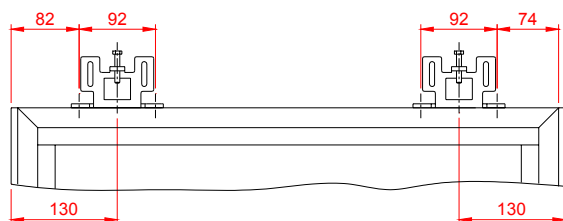
6.4 Place the fixed leaves

- Attach the fixed leaves, in accordance with the manual of the profile to be installed.



6.5 Fasten the attack to the sliding leaves

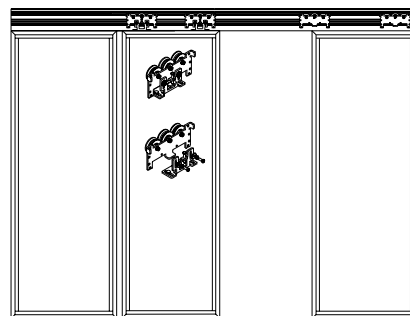
- Secure the attack brackets to the sliding leaves as in the drawing, the centre of the attack must be approx. 130 mm from the sides of the moving sheet.
- Fasten the M8x25 screws with a size 13 wrench (2 per attack).
- For all profiles, make the holes at the following measurements at the 2 ends.



- With a sliding leaf and electrolock, the centre of the attack must be approx. at 175mm.

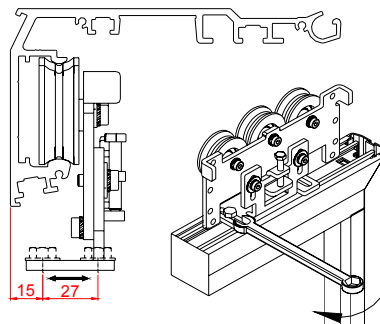
6.6 Hang the leaves on the carriages

- Secure the attacks on the carriages with M6x16 Allen screws, the toothed washers and flat washers.



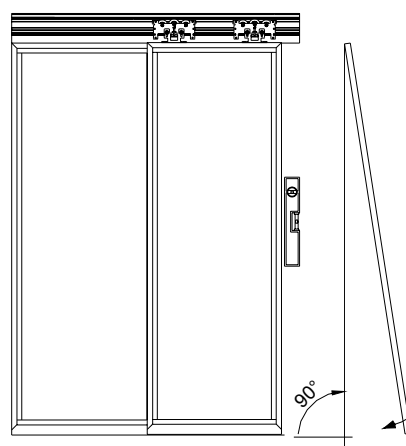
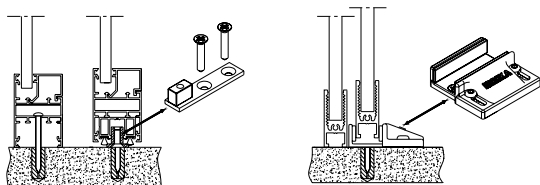
6.7 Depth adjustment of the sliding leaves

- Use a size 13 wrench to position the moving leaf parallel to the box profile, then measure the distance between the leaf and the beam or the wall. Put the 2 ends of the sheet at 5 mm.



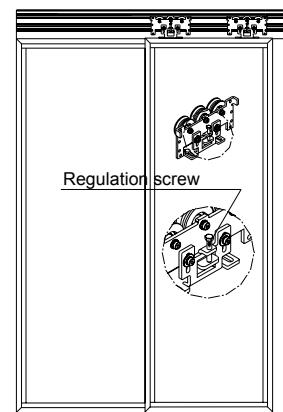
6.8 Fitting the Guide

- Move the sliding leaf to find an angle of 90° degrees, to do so use a level.
- At this point, position the guide on the ground at the end of the fixed leaf, with the block inserted into the sliding leaf guide, mark the ground when the blade is level.
- Then secure the guide to the ground and slide the leaf over the guide.



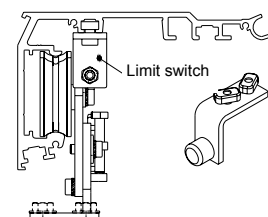
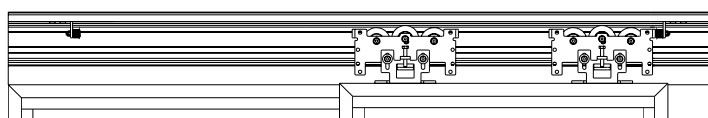
6.9 Height Adjustment of the Leaves

- Adjust the leaf height using the central screw of the carriage. This regulation is very important, the leaves must be parallel when they meet.



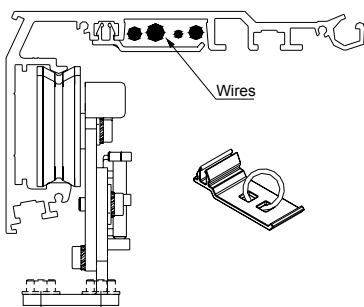
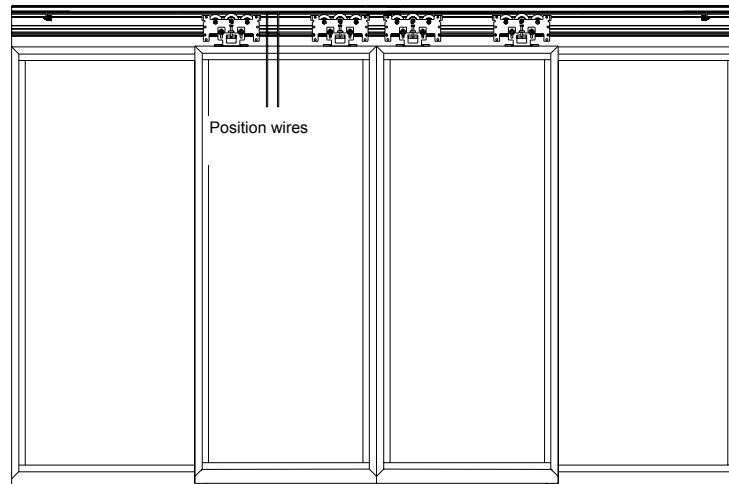
6.10 Placing the limit switch

- Place a limit switch where the moving blades meet, to do so insert 2 long nuts on the rail and fasten the limit switch stop with M6x10 Allen screws.
- The other limit is placed on one side.

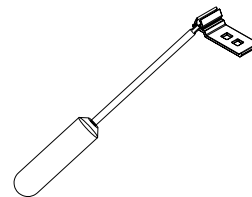


6.11 Preparation of wiring

- It is **ADVISABLE** to pass peripheral device wiring (photocells, radars, selector, etc.) before placing the motorization, as afterwards there is little room for your hands. Try to pass them to the positioning height of the frame to make it easier afterwards the connection to the frame. Use grommets to attach the cables, which are supplied and placed in the support profile (see the picture below).



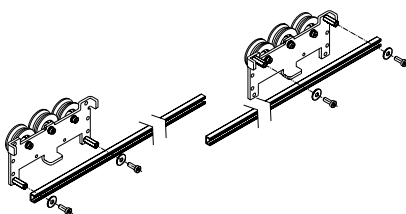
Use a screwdriver to remove the grommet!



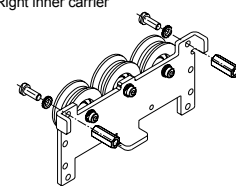
6.12 Attaching the arms of the carriers

2 Sliding leaves

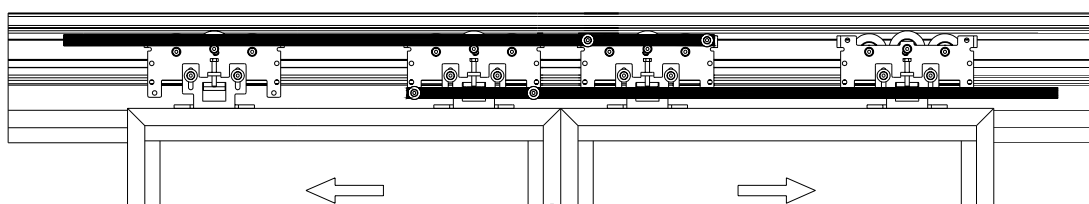
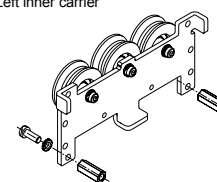
- Fix the separating nuts with DIN 7984 M6x16 allen screw and splined washer using a wrench n°10.
- The arms must be installed as follows: the right arm in the up position (inside right carrier) and left in the down position (inside left carrier.)



Right inner carrier



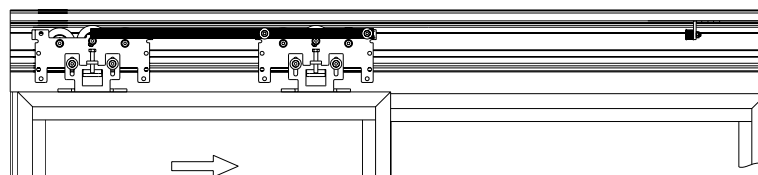
Left inner carrier



1 Sliding Leaf

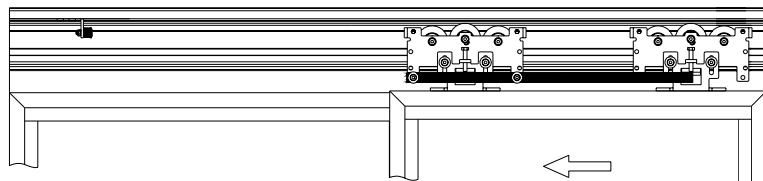
- Right opening

Fix the arm to the right carriage above.



- Left Opening

Fix the arm to the left carriage below.



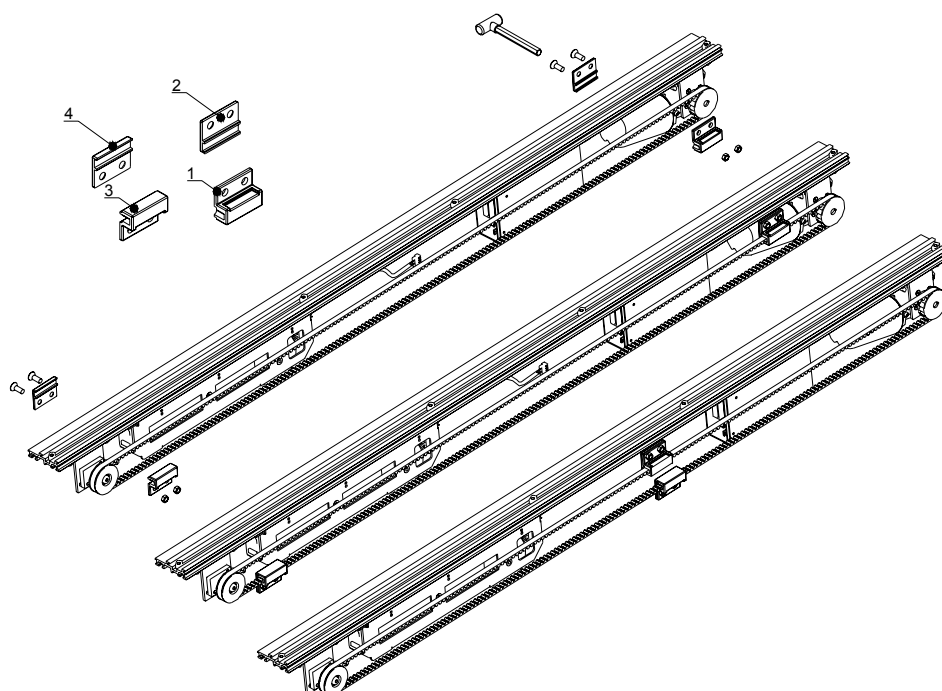
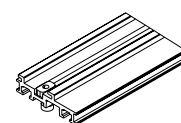
6.13 Fit the brackets to the belt

- Insert brackets (1) and (3) on the belt at the same number of teeth with respect to each one of the pulleys.

- Place the covers (2) and (4) on the brackets and secure them with 2 countersunk screws and M6 nuts.

- Move the bracket towards the centre of the motorization pulling on the strap.

Warning: In case of a single moving leaf, one bracket is fitted.



6.14 Positioning and fastening the motorised profile

- Remove the 4 screws M6x16, flush with the elongated nut and leave them on the rail as illustrated.

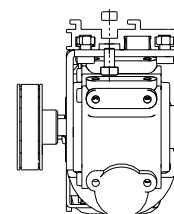
- Open the doors before placing the motorization, so that arms are not in your way.

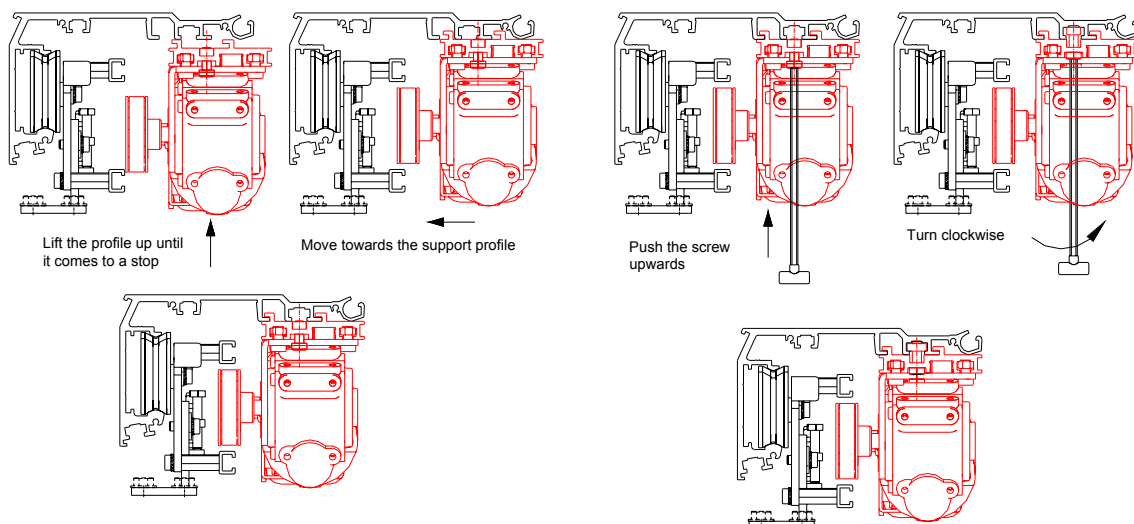
- Hold the motorization with both hands and push it until it fits snug with the support profile.

- Move the assembly inward so that it fits into the tabs. Once seated, the motorization can be released.

- Position the motorisation to the side depending on the type of installation.

- Push the M6x16 Allen screw until it touches the support profile and turn the screw, until you see the motorization profile press it against the support profile.



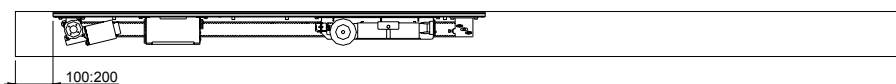


Place the motorization in the support profile

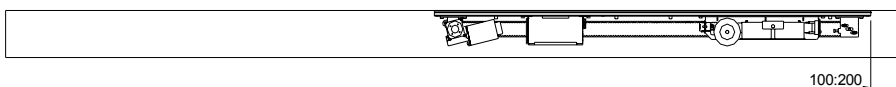
-2 Sliding leaves: **IN THE CENTRE**



- 1 right opening sliding leaf: **ON THE LEFT**



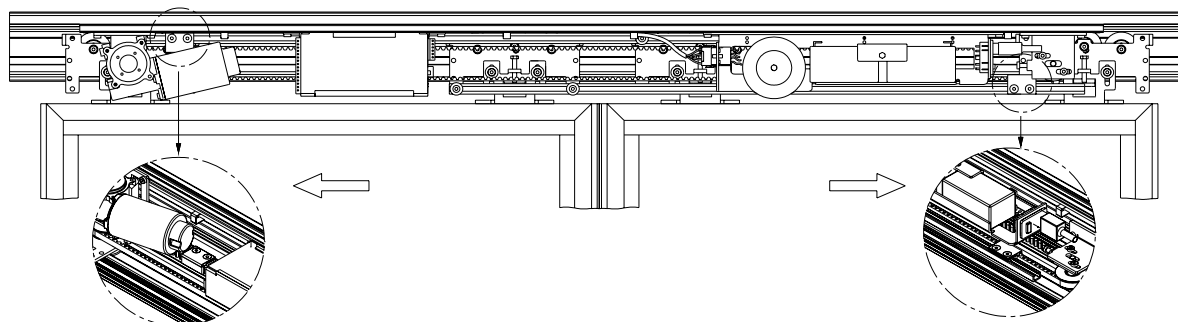
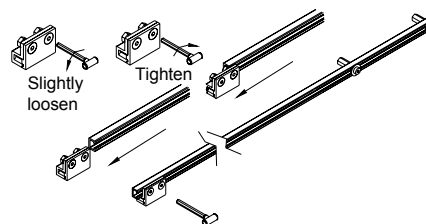
- 1 left opening sliding leaf: **ON THE RIGHT**



6.15 Secure the brackets to the arms

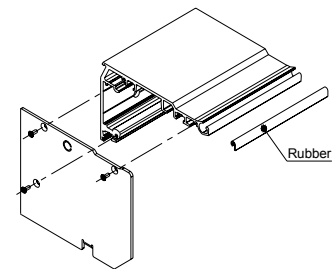
- Release a little the countersunk M6x12 screws, which the brackets have been attached to, move one of the sliding leaves. When M6 nuts used to secure the bracket are located within the arm rail, fasten the M6 countersunk screws with a size 4 Allen wrench.

- Move the 2 loose-leaves until they meet, then secure the other bracket, to the other arm, perform the same operation and carry out a manual check of the movement of the leaves to the end of the course.



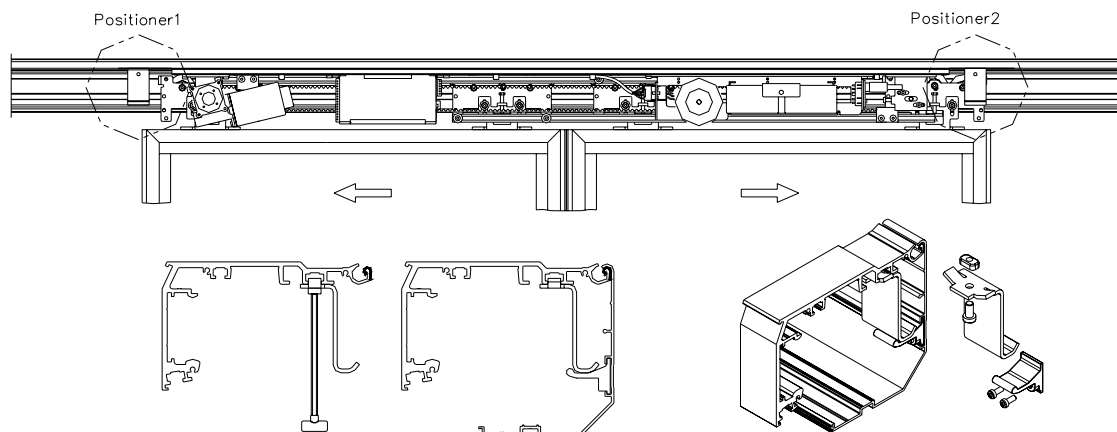
6.16 Place the rubber and the side covers in the support profile

- Place the rubber (on the entire length) in the support profile.
- Place the side covers, securing them to the support profile with tapping screws \varnothing 4.2x13 countersunk head.



6.17 Put the cover positioners

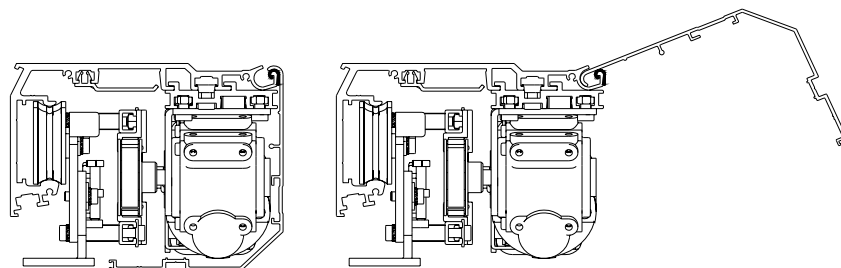
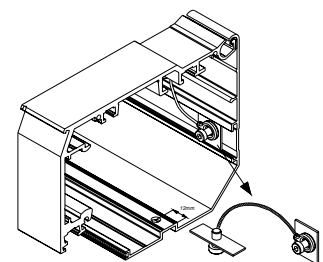
- Place the elongated nuts in the direction of the rail profile support, move the screws up until they stop against the profile. Turn the key clockwise and fit the positioner plate to the support.
- Place the two positioners brackets.
- Put the positioners in the Cover Profile. These should be at the same height of the bracket set in the support profile!



6.18 Secure the cover profile

- Drill two 6.5 mm diameter holes at both ends of the cover profile.
- The distance from the centre of the hole to the end should be 12mm.
- Attach the hanging system cables (one at each end of the machine) to the support profile and to the cover profile, as shown in the figure.
- To place the cover profile bracket first, rest the end of the cover on the ball of the support profile. Supporting the profile, let it fall under its own weight which the lid pivots. Finally secure the profile to the side covers using two M6x15 screws (one at each end).

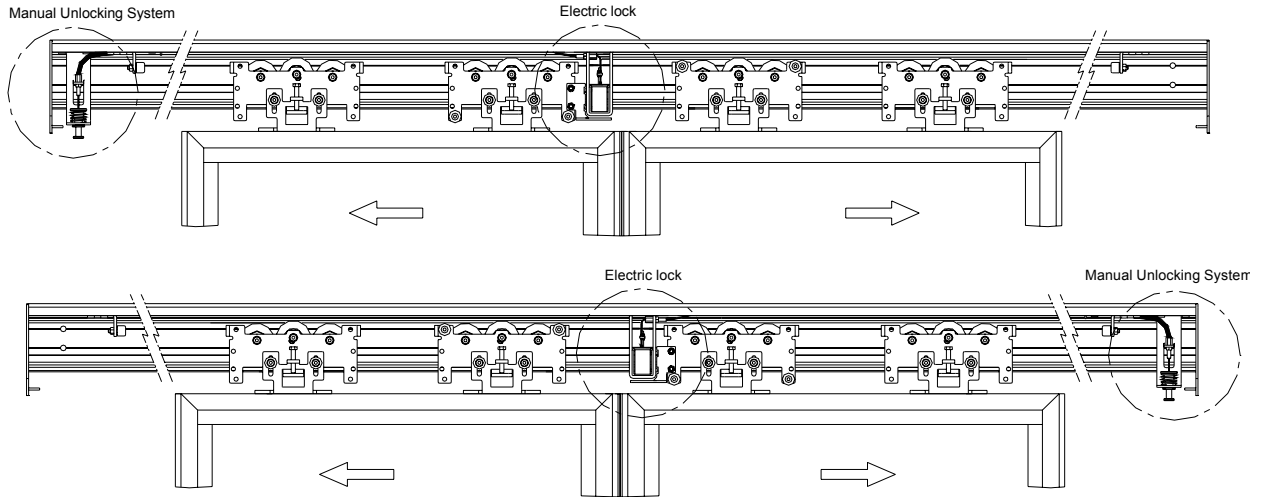
Note: For maintenance you can leave the lid attached by the support profile or suspended by the hanging cords.



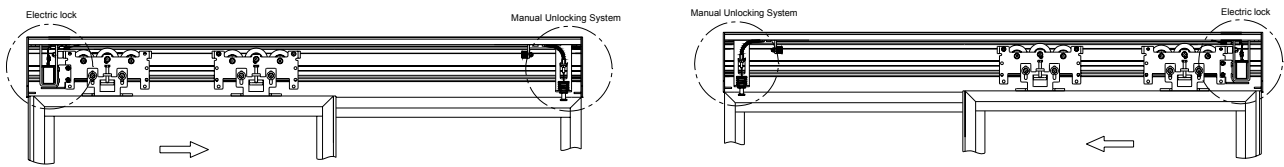
6.19 Electrolock assembly and manual unlocking

If the door does not have any electrolock system, go directly to the next chapter, otherwise follow the instructions mentioned below. Depending on the type of installation, the electrolock will be placed in different positions:

2 Moving leaves



1 Moving Leaf



- Secure the "Locking plate (2)" to the "Carriage "(1)" with two screws. With the door open, insert the two "Elongated Nuts" (3) more or less in the middle of the support profile,.

- Fix the "Electrolock" (9) with two screws. Manually, take the door to the closed position. Adjust the location of the Electrolock so that the electromagnet couples the "Locking plate."

- Place the "Release cable bracket" (4) at 60mm on the left (or right as appropriate) of the "Electrolock".

- Place the "Unlock puller" (5) at one end of the support profile (right or left as per installation)

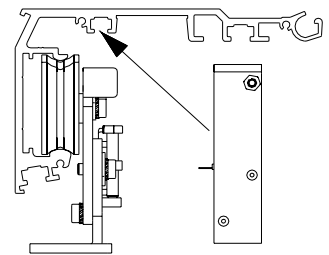
- Slide the "Case" (7) between the "Unlock Cable Support" (4) and Puller (6).

- Pass the "Cable" (8) from the "Electrolock" to "Release Puller." Be careful to insert the "Spring" (11) and "The Brass Bracket" (10) between the "Unlocking Cable Support" and "Electrolock".

- With "Unlock Puller" in down position and the "electromagnet" in up position, cut the "Cable" to the height of the base of the "Unlock Puller" and attach the "Cable" to the puller with the catch. Pulling the lever to check that the "Electrolock" unleashes the carriage and releasing the " Electrolock "it falls down.

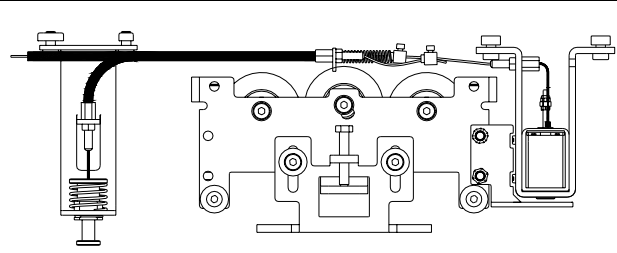
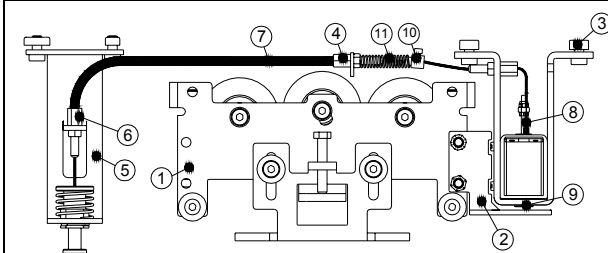
Fasten the "Brass Bracket" (10) to the "Cable", so when the "electrolock" is down the "Spring" (11) gently will push the "Cable" towards the "Electrolock"!

- Connect the wires to the frame. Adjust the length of the cable using the terminal block. Specially on single moving leaf door.



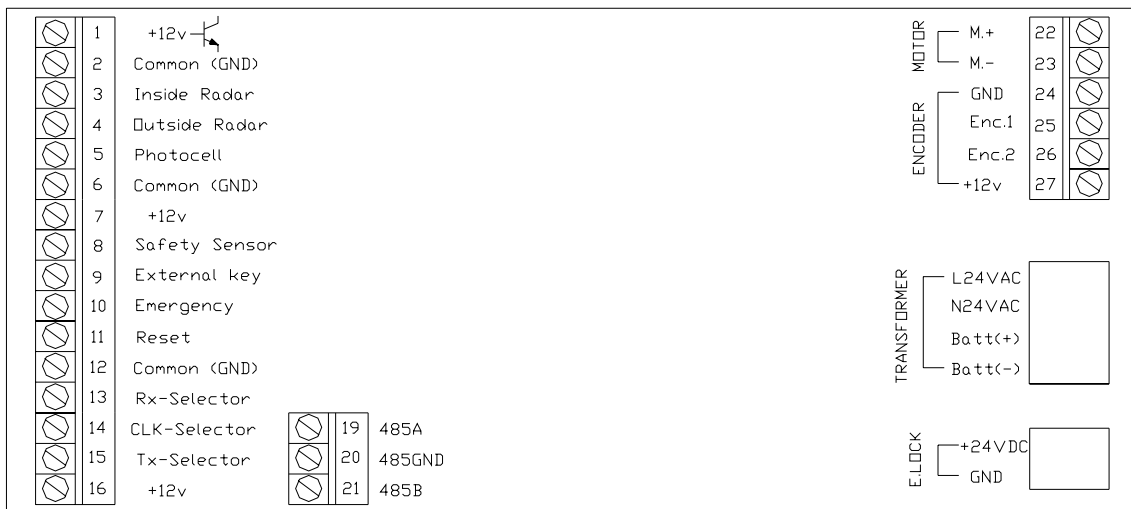
Inner unlock

Internal and exterior unlock



7. ELECTRONIC OPERATION PANEL

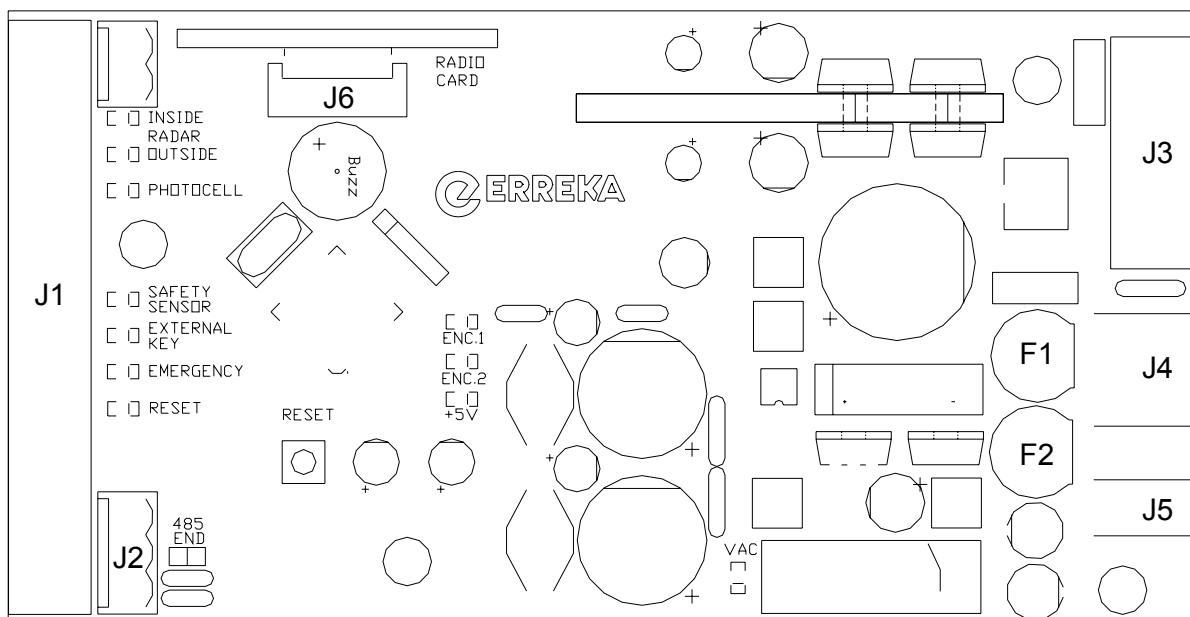
7.1 Connection terminals



Inputs that normally are closed (NC): Photocell: terminals 2 and 5; Safety sensor: terminals 6 and 8; External key: terminals 9 and 12.

Terminal 1 of the supply input, is transistorised. It cuts the power supply in the "Closed Door" mode or when the external key signal (terminal 9) is in open position. So when the doors are closed the peripherals connected to this input will not be supplied and consuming.

7.2 Control panel diagram

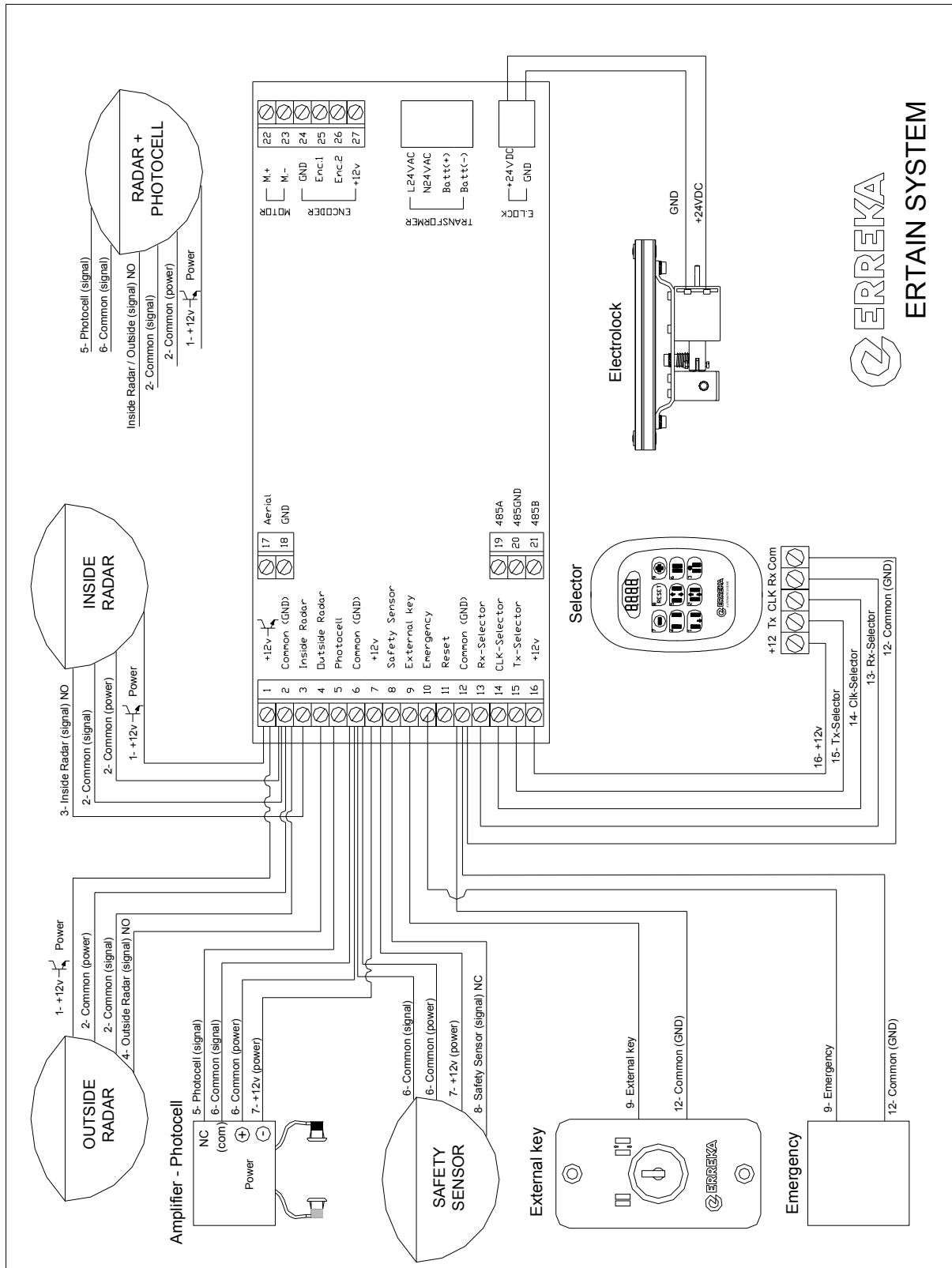


LED DIODES	ON	OFF
VAC	220V supply present	Lack of power supply
ENC1	1st signal, via the encoder	
ENC2	2nd signal, via the encoder	
+5 V	Microprocessor Powered	No power to the microprocessor
INSIDE RADAR	Inside radar input closed	Inside radar input open
OUTSIDE RADAR	Outside Radar Input closed	Outside radar input open
PHOTOCELL (NC)	Photocell input closed	Photocell input open
SAFETY SENSOR (NC)	Safety sensor input closed	Safety sensor input open
EXTERNAL KEY (NC)	External key input closed	External key input open
EMERGENCY	Emergency input closed	Emergency input open
RESET	Performing reset operation	

CONNECTORS	MEANING
J1	Terminal strip input peripherals
J2	Input connector communication unit (485)
J3	Gearmotor connector + encoder
J4	Input supply connector (mains + battery)
J5	Electrolock Input Connector
J6	Pluggable connector for remote control receiver

FUSES	MEANING
F1	Fuse 5x20 8 A (motor protection)
F2	Fuse 5x20 5 A (battery protection)
F3 (Power Supply Input fuse)	For 220V fuse 5x20 2A
	For 110V Fuse 5x20 4A

7.3 Standard Connection



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Photocells

Place the amplifier in the motorization assembly or support profile. Secure it with the adhesive tape that the box contains.

- Install the transmitter photocell lens, receiver/transmitter in its corresponding position according to profile type. If installing 1 photocell, this will be placed at 500 mm from the ground. If you are installing 2; one at 1000 mm and the other at 200 mm from the floor.

- Pass the transmitter and receiver cables through the grommets to the photocell amplifier and make the following diagram 1.

- With a 4-wire hose make the connections from the amplifier to the frame, shown in diagram 2.

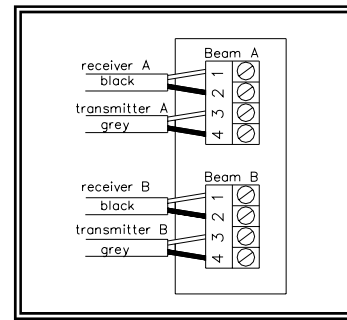


Diagram 1

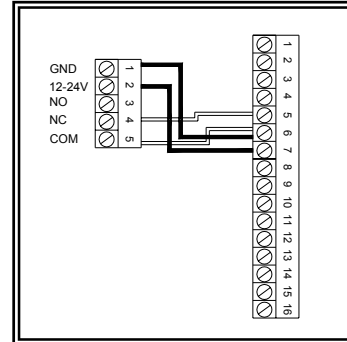
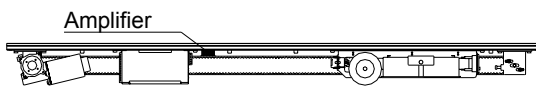


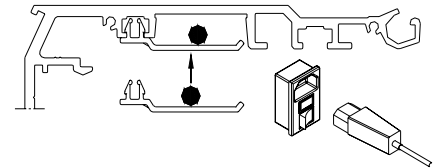
Diagram 2



Network connection

- Pass the cable over the cable conduit and then clip it into the support profile and take it to the power supply unit. To do this, strip the wires and attach the connector on the end, then insert the connector onto the base situated in the power supply.

In the event of mains failure, the function selector will indicate "Err5."



Warning: Power supply's batteries must be replaced at least every three years.

Radars

- Connect the inside radar directly to the frame. Take the outside radar cable to the left side of the motorization by the UPN, make a hole through the support profile and pass the cables through the grommets to the frame.

- To make the connections, follow up the diagram 3.

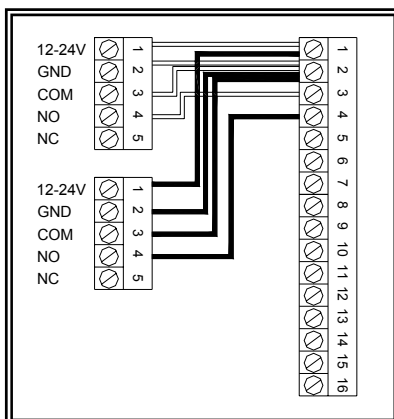
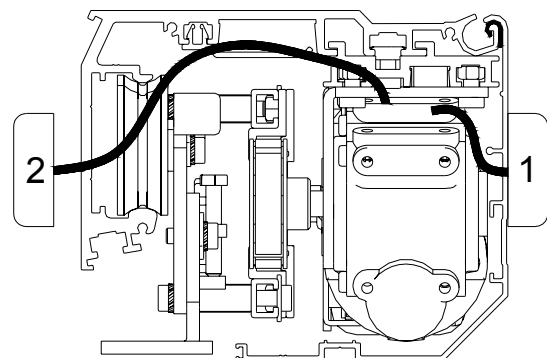


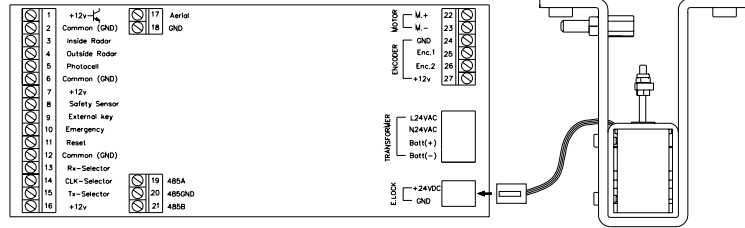
Diagram 3



1.- Inside radar
2.- Outside radar

Electrolock

Connect the electrolock assembly terminal in the frame input connector



Selector

- The selector is the communication device between the frame and the user, it allows us to control and perform the following tasks:

- 1.-Choice of different operating modes of the automatic device
- 2.-Regulation of operating parameters
- 3.-On / Off options
- 4.- Faults and failure modes diagnosis.

- During the door operation, the display indicates the operation mode that is running at that time.

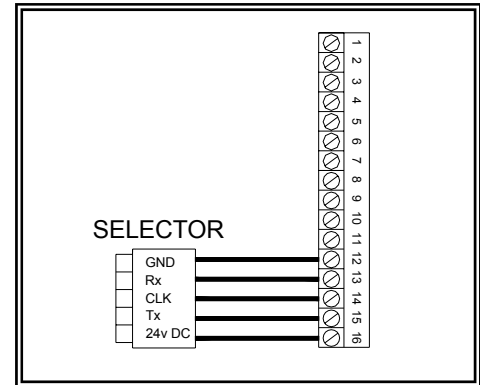
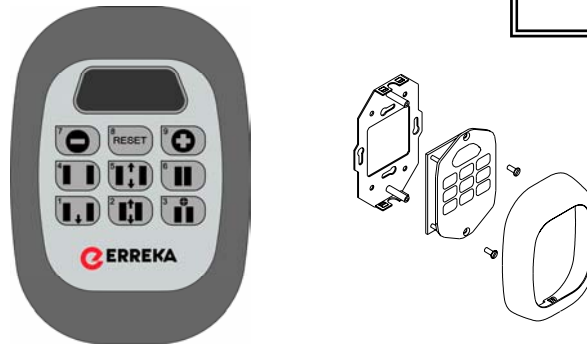


Diagram 4



5.4 Auxiliary Connection

External key

- The external key is a lock operated from the outside. The input is NC. It contains these two positions:



Deactivated (the contact is closed)

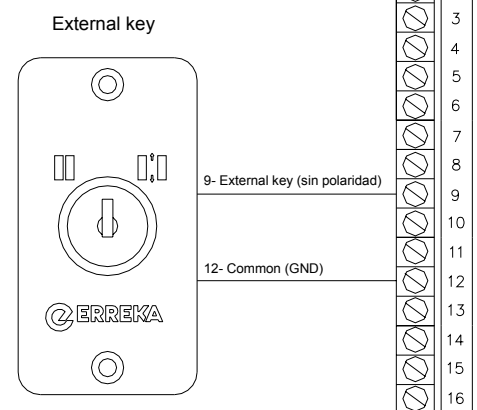


Activated (the contact is open)

- When the lock is in the **Deactivated** position, the door is in the "Door Closed" condition and locking comes on (if this is incorporated).

- In the activated **Position** the door returns to the last function it was in before the lock was enabled. Even in a "Closed door" status the door will always open to allow the person who activates the lock to enter.

To leave from the inside, if the key is activated; you can leave by pressing the "EXIT" selector or the key "1". From the moment it is pressed it will remain 1 minute in the "EXIT" mode. After the minute, it returns to the key mode or door closed.



Side safety sensor

- This avoids people being trapped during the opening operation, by stopping and continuing at a slower speed.

Warning: If an object is placed in the sensors detection area, the door will be opened in slow motion.

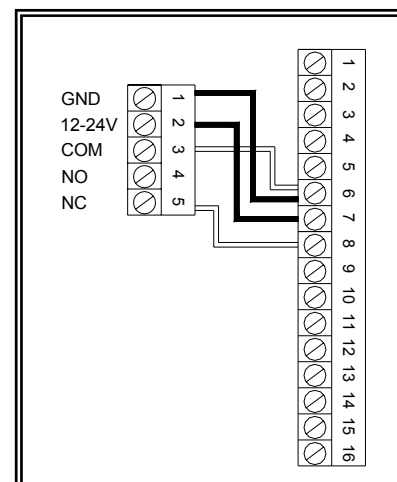
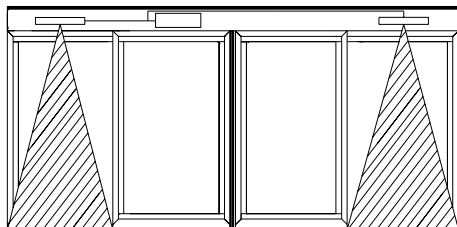


Diagram 5

Reset button

We will use the reset button if the Selector is not installed. In this case, its performance would be to activate the Reset operation to start the motorization.

When the Selector is not installed, the door can only perform the Bidirectional Automatic operation directly. We cannot perform any other operation, such as; Open Doors, Close Doors, Exit only....

In these cases, it is advisable to place a reset button (for example in one of the side panels for cases where it is necessary to perform a "reset") so that the door will recover the parameters (in any other case).

Remote control

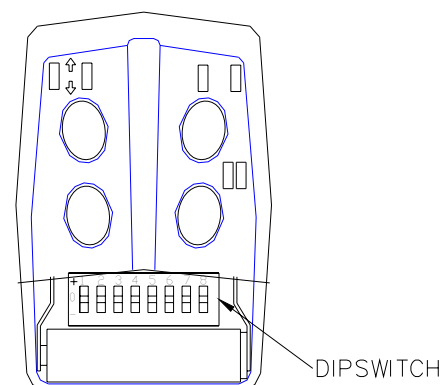
This accessory consists of a 433MHz four-channel transmitter and receivers that connects directly into the frame. The remote control allows 2 modes of operation:

1. - Reduced selector. Which activates three modes of operation; "Door open" "Door closed" and "Automatic" mode. The three modes are indicated above each button.
2. - Release pulse. Which makes every pulse on the remote control open the door.

Programming the transmitter

To program the transmitter with the receiver the following steps should be carried out:

1. - Choose a code by fitting the 8 emitter dipswitch (see figure) in the desired position.
2. - Push one of the transmitter buttons and keep it pushed.
3. - Then, press the button of the receiver with it being inserted into the frame. Keep it pressed until the led on the receiver performs 3 blinks.



Civil Emergency / Fire Prevention

For emergency situations, 10 and 6 input terminals will be used.

For operating, this input will take precedence over all others. This is normally connected to the building's fire alarm, that's why this function will take priority over the others, as it concerns personnel safety.

There will be 2 emergency mode options, one door will open and the other will close. You also have the option of two types of input signal.

Functioning Mode:

1.- From functions "--++" (Func) "3" (AI-0)

(AI-0): When you enter the signal, the door will go to total opening and it will remain in this position as long as the emergency signal is maintained.

(AI-1): The door will close without regard to the radars, just the photocells. After the door is closed it will remain in this position as long as the emergency signal is maintained.

Signal type

The opportunity to make an emergency signal or an occasional signal will be given.

2.- From "--++" functions (Func) "6" (LA-0)

(LA-0): Continuous and uninterrupted signal. As long as the door signal operates in the emergency mode, when the signal leaves it will revert to the previous working mode.

(LA-1): Signal point. With a signal, the door will go to the emergency mode and it will remain in this mode. The mode will return to normal operation by resetting from the frame.

When the emergency signal enters, it should appear on the display (Err6).

- Emergency power when the electrical supply leaves:

If power is lost and the emergency signal starts the emergency operation will have priority. Therefore with or without power, the behaviour of an emergency signal is the same.

In the power cut event before entering the emergency signal, if the door open was open in "Err-5" it would remain open (in case of "Err6") but with the emergency warning on the display.

8. START-UP (Set Up)

Once the door has been installed, the automatic device and the function selector, they should be connected to the power supply:

- 1.- Connect all the peripherals (sensors, photocells, selector, etc.) to the frame.
- 2.- With the cover profile raised we plug in the mains connector in its position of the power supply unit. Press the two-way switch that activates the source, input and batteries. At this point, the reset or initialization operation starts automatically. The lid is closed while the door performs the operation.

The Reset operation is always carried out on starting up the door for the first time. Its function is to measure the course of the leaves, set their initial values for all the parameters and start the counters. The operation is an opening cycle to the end of the course, followed by closing until the two leaves meet. During this cycle the switchboard makes the mentioned measurements and is ready to begin normal operation.

- 3.- With the function switch connected, you must perform the initial setup (SET UP). To do this, you must press the keys in sequence "+ - - +" and the code (the release number). The default release number is "1 1 1 1".

The door will start a second reset manoeuvre, but in this case it also calculates the weight of the leaves and automatically saves on the memory the appropriate curve for the weight conditions and width of the leaves.

- 4.- Once the Reset has finished the door goes into the "Door closed" status. At this time, we are in a position to command the door from the selector to choose the operating mode.

If the selector is not installed, it passes directly to "two-way automatic."

If it were necessary to modify the operation parameters, we would put the door on the "open Door" mode which is the normal working mode. We have the option of varying the initial parameters for others that we feel most appropriate for the installation. In this case we will up follow point 9." PARAMETER SETTING WITH THE SELECTOR".

- 5.- Once the performance has been adjusted to suit the client, the working mode can be selected from the selector.

8.1 Working Modes

Are the different types of operation or states in which the door can operate. This automatic device offers 6 different working modes:

- 1.- Door open



(OPEN)

The door opens and remains open in the maximum opening position.

- 2.- Door closed



(CLSE)

The door closes and stays closed in this position until the mode remains unchanged. If you install the electrolock, the door will close and lock so that no one may enter.

- 3.- Two-Way Automatic



(AU - b)

This is the most common way of working. This mode allows traffic in both directions, so that all the detection devices are enabled. The door remains closed until one of the devices is not activated. If any of these activates the door, it opens and after a hold-open time (adjustable) it is closed again until further detection.

4.- Partial Automatic



(AU - P)

These operates the same way as the two-way automatic mode, but with the difference that the leaves do not open to the maximum openness. This opening is adjustable by the user (see point 9).

5.- Door partially open



(OPE n)

This mode does not really have its own key. It is the same as door open and it functioning is also equal to the difference that the door stops in a partially open position.

This mode comes only in the case that the door has been in the "Partially automatic mode." If you want to return to "door open (total)" first press the "two-way Automatic" mode.

6.- Only Exit



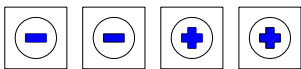
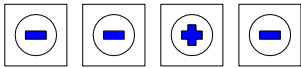
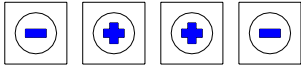
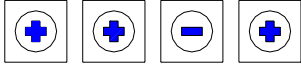

(EXI t)

It allows traffic to exit in the outside direction. In this direction, it works as "Two-way automatic" and in the entry mode "Door Closed".

9. PARAMETER SETTING WITH THE SELECTOR

To enter adjustments we must always start from the working mode "Door Open". From any other mode it is not possible to enter adjustments.

There are 5 levels of adjustable parameters:

	Functions (Func)	NORMAL ADJUSTMENTS
	MAIN PARAMETERS (PARA)	
	SPECIAL FUNCTIONS (ESPE)	SPECIAL ADJUSTMENTS (For installers)
	OPENING PARAMETERS (PAAP)	
	CLOSING PARAMETERS (PACL)	

List of parameters.

To enter programming you should follow the sequence of 4 pulses one after the other indicated by pressing the "+" and "-" selector.

- - + + FUNCTIONS (FUNc)

Emitter configuration	"1" (rF-0)	Selector: the remote control works as a selector (Three channels)
	"1" (rF-1)	The remote control generates an opening impulse. To use with a single-channel remote.
Closing delay	"2" (rC-0)	Disable the delay-timer to the activation of the "Closed Door" mode.
	"2" (rC-1)	Enable the delay-timer to the activation of the "Closed Door" mode. So that until you pass the set time the door only operates in the "Exit Only" mode. Once past the time (90 sec) it will automatically switch to "Doors Closed".
Emergency Behaviour	"3" (EF-0)	Door open: When activated the door signal places itself in the open position and remains in this position.
	"3" (EF-1)	Door close: When activated the door signal places itself in the closed position and remains in this position.
Battery Operation	"4" (bA-0)	Panic mode. In the case of mains power failure, the door opens and stops during the opening. If the door is in Doors Closed position it will be kept in this position.
	"4" (bA-1)	Autonomous mode: In case of mains power failure the door continues to operate normally until the batteries are completely running out.
Emergency Behaviour	"6" (ES-0)	Continuous emergency signal. To maintain emergency operations the active signal must be maintained. When the signal is deactivated the door returns to the normal operation.
	"6" (ES-1)	Timely emergency signal. A single impulse activates emergency behaviour and maintains it. To restore operation, you have to carry out a reset.

- - + - MAIN PARAMETERS (PARA)

Slowing down at closing	"1" (bc-0)	Standard value, (bc-0). Regulation; from 01 (max. force) to 09 (min. force)
Percentage of partial opening	"2" (P-50)	Standard Value, (P-50). 50% Regulation; from 30 to 70%.
Slowing down on opening	"3" (ba-5)	Standard value, (bc-5). Regulation; from 01 (max. force) to 09 (min. force)
Opening speed	"4" (A-55)	Standard Value, (A-55). 0.55 m / sec Regulation; from 0.50 to 0.90 m / sec
Waiting time on opening	"5" (E-03)	Standard value (E-03),, 3 seconds. Regulation; from 0 to 20 seconds
Closing speed	"6" (C-30)	Standard Value, (A-30). 0.3 m / sec. Regulation; from 0.20 to 0.50 m / sec

-++-SPECIAL FUNCTIONS (ESPE)

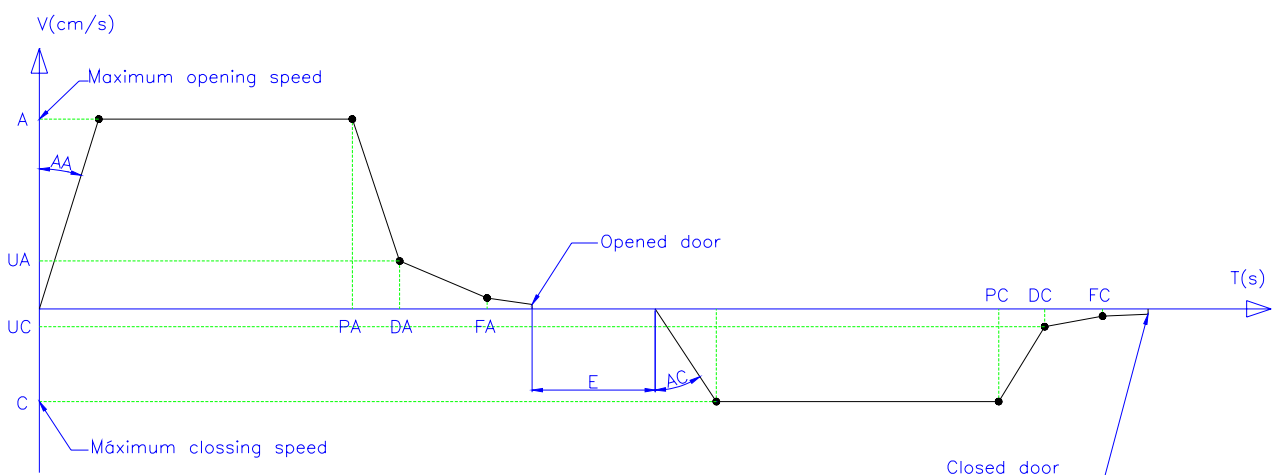
Sensitivity	"1" (SP-0)	Disables the pulse sensitivity, less sensitivity.
	"1" (SP-1)	Triggers pulse sensitivity, greater sensitivity.
Obstacle Detection	"2" (CA-0)	Standard; When an obstacle is detected on closing the door it will open at slow motion and close at normal speed. When it detects an obstacle on opening the door it will open at slow motion (After 10 attempts, if the obstacle still remains, the door closes at normal speed).
	"2" (CA-1)	Special, when it detects an obstacle when closing the door, it opens and closes using slow motion. When an obstacle is detected 3 times consecutively on closing, the door stops on opening. To restore operation, you have to carry out a reset. When an obstacle is detected on opening, the door stops and opens using slow motion. When an obstacle is detected on opening 3 times consecutively the door will stop and beep. To restore operation, you have to carry out a reset.
Reset Settings	"3" (CR-0)	When the switchboard is supplied, the door automatically performs a reset.
	"3" (CR-1)	When the electric switchboard is powered, the door performs a Reset if the external key is activated.
Automatic / Semiautomatic	"4" (AU-0)	Automatic. Normal operation of the door carrying out a full cycle for each activation signal (opening and standby and closing).
	"4" (AU-1)	Semiautomatic. Each activation a half cycle is performed. A pulse opens and another closes.
Battery Monitoring	"5" (nb-0)	Monitoring function off.
	"5" (nb-1)	Monitoring feature is enabled. Battery load level readings performed continuously. If the batteries are discharged or broken the door will go to open position and a "BATT" flashing sign will appear in the selector.
Door Address	"6" (d-00)	Parameter to consider in the case of installing centralized control. You must assign a different address to each door connected to the system (from 0 to 99).

++ + OPENING PARAMETERS (PAAP)

Final speed on opening	"1" (FA.02)	Standard value, (FA.02). Regulation; From 01 min. to 15 max.
Minimum speed deceleration on opening	"2" (UA.04)	Standard value, (UA.04). Regulation; From 01 min. to 10 max.
Sensitivity on opening	"3" (SA.09)	Standard value, (SA.09). Regulation; From 01 more sensitive to 09 less sensitive.
Ramp acceleration on opening	"4" (AA.8)	Standard Value, (AA.8). Regulation: From 08 max. to 20 min.
Deceleration point on opening	"5" (PA.65)	Standard Value, (P-50). Regulation; From 40 to 85.
Deceleration ramp on opening	"6" (DA.85)	Standard value, (DA.85). Regulation; From 70 to 95.

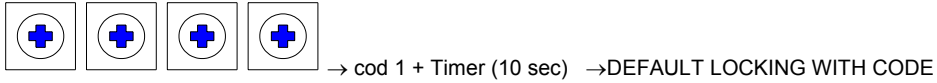
++ - CLOSURE PARAMETERS (PACL)

Final closing speed	"1" (FC.02)	Standard value, (FA.02). Regulation; from 01 min. to 15 max.
Minimum deceleration speed during closing	"2" (UC.03)	Standard value, (UA.03). Regulation; from 01 min. to 10 max.
Sensitivity close	"3" (SC.09)	Standard value, (SA.09). Regulation; from 01 more sensitive to 09 less sensitive.
Acceleration ramp on closure	"4" (AC.10)	Standard Value, (AA.10). Regulation: 08 max. to 20 min.
Deceleration point on closure	"5" (PC.65)	Standard Value, (P-65). Regulation; from 40 to 85.
Deceleration ramp on closure	"6" (DC.85)	Standard value, (DA.85). Regulation; from 70 to 95.



- SPEED CURVE -

Keypad Lock



Cod 2 (displayed on the screen when we enter a new code, e.g. "3458")



CODE (the code should be repeated, so it will be recorded)

After 10 seconds of pressing 4 times the "+", locking will come into action and the working mode corresponding with the points below each each digit "P. - A.b." will appear in the display.

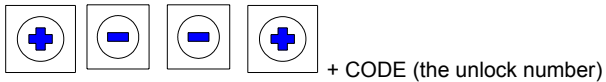
The code must be any number from "1111" to "9998".

Unlock

From any working mode, enter the predefined code. Once pushed, the points of display disappear and the selector will be activated.

Return to the initial parameters

In some cases after making the adjustments of the displacement curves, we can reach the point where we deem that the curve calculated by the micro in the first "Reset" was better. In this case, we would have the option of returning to the initial curves.



At this time, the operator starts an operator reset and re-deploys the initial curves.

10. TROUBLESHOOTING GUIDE

SYMPTOM	DETECTION.	SOLUTION
<ul style="list-style-type: none"> - Conducts a reset slower than normal. - After the reset, if we set to "Automatic", the door will open and "Err5" appears in the display. 	<ul style="list-style-type: none"> - Diode LED, VAC off - Display; Err5. 	<ul style="list-style-type: none"> Lack of power supply - Check the fuse (5x20 2A) of the power supply. - Check the fuse (5x20 8A) of the protection to the motor. - Check if the wires are connected to the power supply and the frame.
<ul style="list-style-type: none"> - On conducting a reset the door remains open and will not close. The alarm reset continues beeping 	<ul style="list-style-type: none"> - LED Diode; Photocell (NC) off 	<ul style="list-style-type: none"> - Check if the photocell is operating properly.
<ul style="list-style-type: none"> - After reset, the door remains closed even though there are attempts to change it from the selector. 	<ul style="list-style-type: none"> - Diode LED, External key (NC) off 	<ul style="list-style-type: none"> - Check if the key is in the closed position. - If the door has no outer key, check the outer key terminals outside of the switchboard are bridged.
<ul style="list-style-type: none"> - When the door works on automatic and detects the radar to reverse the movement, it goes to open doors at full speed without braking and gives a strong blow when reaching the end. 	<ul style="list-style-type: none"> Check the motor power cables. Position: RED (motor power) BLACK (motor power) BLACK (encoder power) GREEN (signal encoder 1) YELLOW (signal encoder 2) RED(Encoder supply) 	<ul style="list-style-type: none"> - Connect the cables as indicated. Both, supply and the encoder.
<ul style="list-style-type: none"> - No power, the motor does not move and does not go to open door. 	<ul style="list-style-type: none"> Could be on "CLSE" - The batteries have no power or they are poorly connected. 	<ul style="list-style-type: none"> - This is okay, because during door closed status the door not need to be opened. - Check the battery connection at the source. Measure with the multimeter the output voltage of the batteries. - Change the batteries, if these are empty.
<ul style="list-style-type: none"> - The display shows "Err6." 	<ul style="list-style-type: none"> - Diode LED, Emergency on. 	<ul style="list-style-type: none"> - Reset the door. If it returns to door open mode and error 6, check the emergency entry, the fire alarm signal.
<ul style="list-style-type: none"> - The door is automatic but does not open on the radar pulse. 	<ul style="list-style-type: none"> - Safety Diode Sensor (NC); If it is off, the door can never open. 	<ul style="list-style-type: none"> - Check the frame connections.
<ul style="list-style-type: none"> - Manual movement of the door forced. 	<ul style="list-style-type: none"> - Rubbing. 	<ul style="list-style-type: none"> Detection and elimination of friction: - Separating the door rubbing with wall or fixed parts. - Raising the door or door friction guide block or ground. - Cleaning rolling channel (chips).
<ul style="list-style-type: none"> - During manual opening or closing of the door, knocks are heard. 	<ul style="list-style-type: none"> - Contact of the moving parts of the door with fixed parts. 	<ul style="list-style-type: none"> Detection of such contacts: - Carriage contact with the fastening screws of the box. Tighten the screw or use a screw with smaller heads. - Carriage clamping arms of the door carriage with the belt on the processor or CPU boxes. Straighten the arm to ensure that it does not knock.
<ul style="list-style-type: none"> - Door opens during the reset but does not close in some cases, it can start closing and return halfway. 	<ul style="list-style-type: none"> - Photocell in disrepair, not connected or acting. - Power Transistor to motor broken. 	<ul style="list-style-type: none"> - Check status of the photocell. - Replace transistor or plaque.
<ul style="list-style-type: none"> - During opening or closing the door stops or recedes. 	<ul style="list-style-type: none"> - Contact friction. 	<ul style="list-style-type: none"> - See mechanical problems.
<ul style="list-style-type: none"> - Indication of battery discharged, or broken, the door remains in open position. 	<ul style="list-style-type: none"> - "Batt" appears on the selector display 	<ul style="list-style-type: none"> - If you see this BaTT intermittently more than one day in a row, you should change the batteries as they may be broken or discharged below their cut-off.

11. ANNEXES

11.1 Maintenance

Automatic door installations require regular maintenance; the frequency will be determined by environmental conditions and traffic density.

- 1.- Remove dust and dirt from the mechanism. Dirt on the running track should be removed with methylated spirits.
- 2.- No part requires lubrication. The timing belt should be kept dry and clean.
- 3.- Check that all nuts and bolts are secured.
- 4.- Adjustment, if necessary only, the speeds of the moving leaves, the opening time held and that the position of the moving leaves are in accordance with existing regulations and requirements of the authorities.

11.2 Warranty

AUTOMATIC DOORS ERREKA declares under their sole responsibility that the products supplied are subject to warranty for a period of 12 months from the date of acquisition. (Date of Work Delivery Protocol) This warranty applies to all manufacturing defects and will include the costs of transporting the material to the nearest approved technical service. It is the installer's responsibility to transfer the equipment to this technical service.

This warranty does not include:

- Damage caused by incorrect installation or use of equipment.
- Damage caused by handling by unauthorized personnel.
- Damage caused by external or atmospheric agents (lightning, floods, etc).

“CE”DECLARATION OF CONFORMITY

Manufacturer : MATZ-ERREKA, S.Coop.
Pol. Ind. San Juan 93
B° San Juan
20570 Bergara (Gipuzkoa) SPAIN

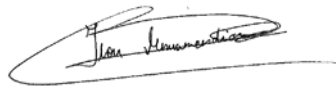
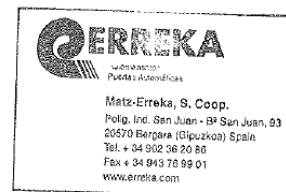
Type of equipment : AUTOMATIC SLIDING DOOR

Model : ERTAIN SYSTEM

This equipment was tested, evaluated and found to comply with the following Standard Directives:

Powered pedestrian doors	prEN 12650-1, pr EN 1650-2
Safety at powered doors for pedestrian use	BS 7036
Low voltage directive	73/23/CEE
Electromagnetic compatibility directive	89/336/CEE
Machinery directive	89/392/CEE - 91/368/CEE, 93/44/CEE
Construction products directive	89/106/CEE

Compliance with standards listed above give presumption of conformity with the requirements directive they are harmonized to. Additional requirements may apply before placing on the market legal e.g. Declaration of Conformity, the CE marking, technical documents prepared/filed/updated and factory quality control.



Ibon Muruamendaraz
Technical Manager

Bergara, July 10th of 2006

ERREKA PUERTAS AUTOMÁTICAS
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