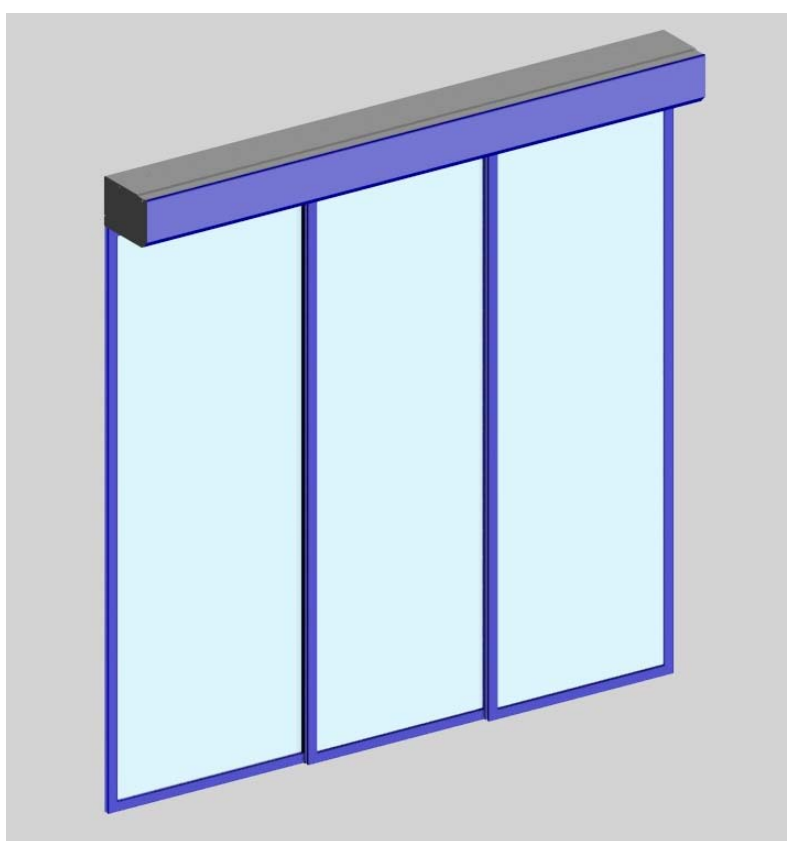




AUTOMATIC DOORS

INSTALLATION MANUAL



TELESCOPIC SYSTEM

Operator 1450/1850



INTRODUCTION

ERREKA Automatic Doors would like to thank you for placing your trust in us and for selecting one of our products. Please read this installation manual carefully to ensure the door is correctly installed.

ERREKA Automatic Doors is not liable for any damages caused by failure to comply with the instructions provided in this Installation Manual.

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1. KEY TO TOOLS
2. ELECTRICAL PRE-INSTALLATION
3. TECHNICAL SPECIFICATIONS
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6. START-UP
7. PARAMETER ADJUSTMENT USING THE SELECTOR
8. ANNEXES

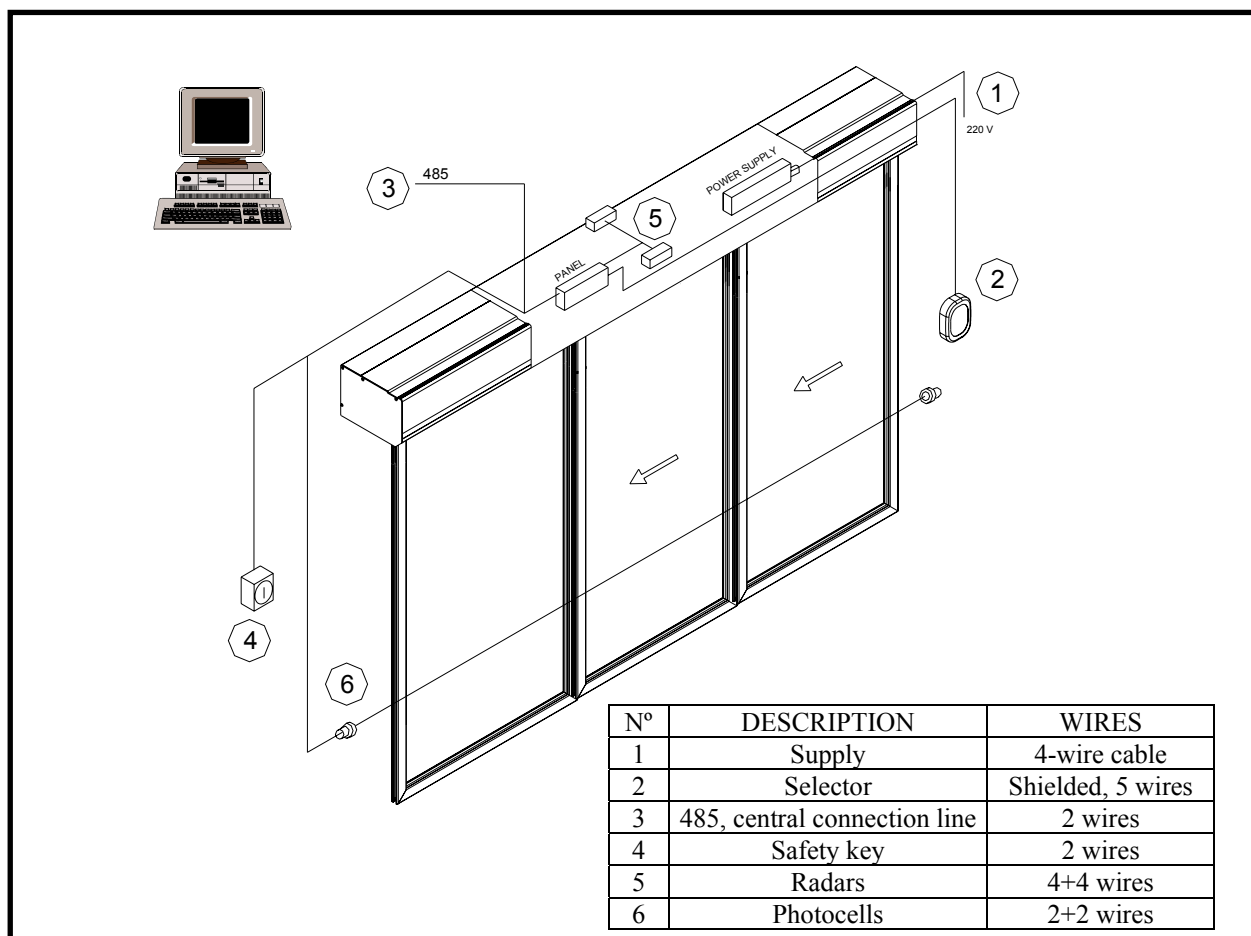
0. REVIEW

Review 0.0

1. KEY TO TOOLS



2. ELECTRICAL PRE-INSTALLATION

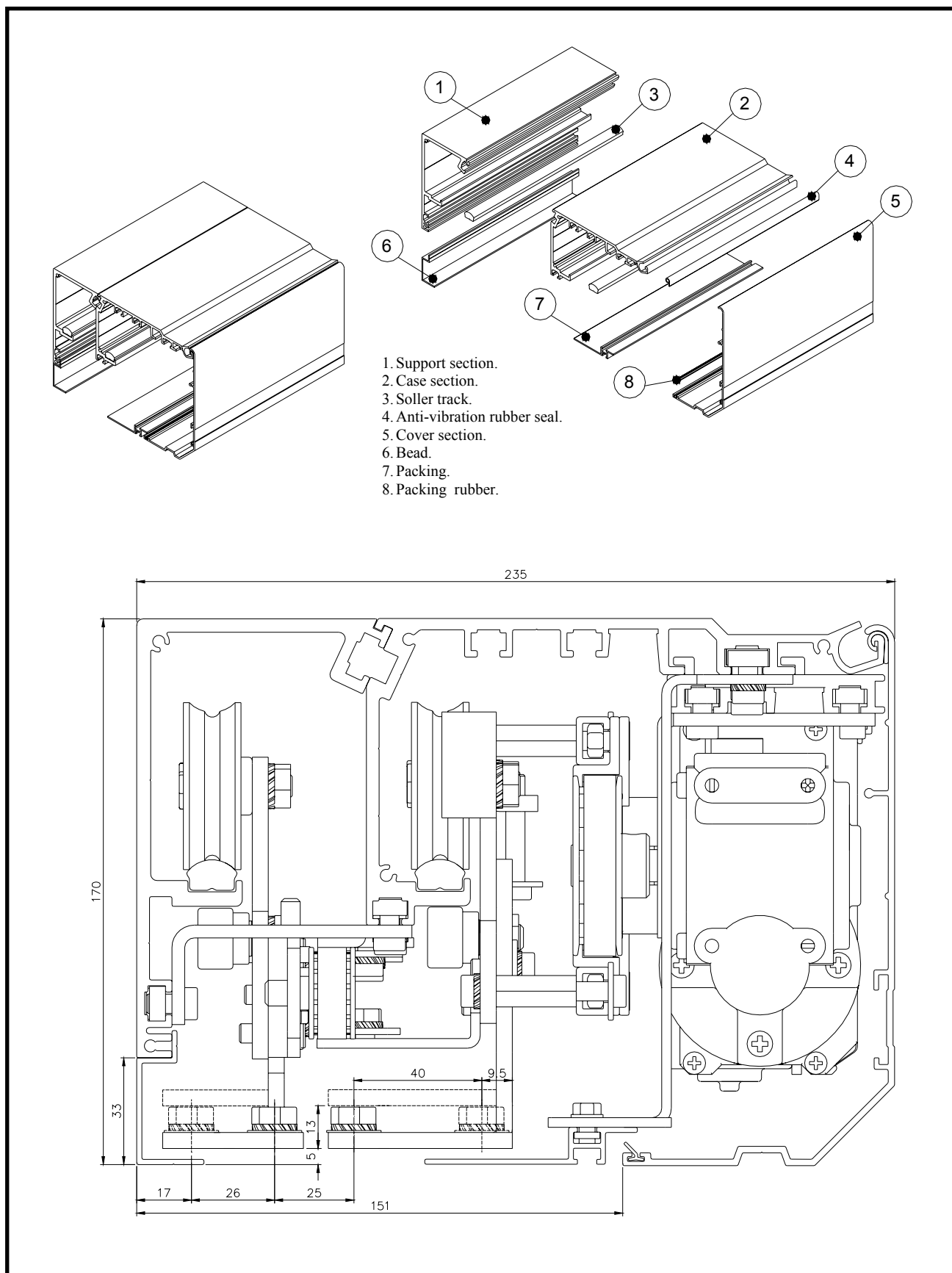


3. TECHNICAL SPECIFICATIONS

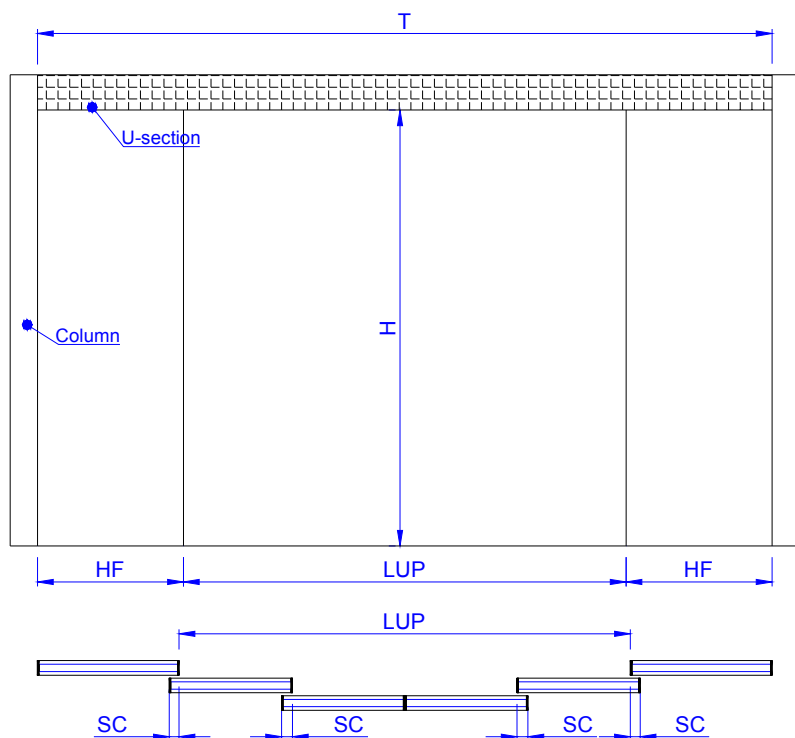
	<i>Operator 1450</i>	<i>Operator 1850</i>
Clearance (4 leaves)	1800 - 2400	1800 - 3200
Clearance (2 leaves)	900 - 1200	1150 - 1600
Maximum leaf width (4 leaves)	650	850
Minimum leaf width (4 leaves)	450	450
Maximum leaf width (2 leaves)	650	800
Minimum leaf width (2 leaves)	500	650
Maximum leaf weight (4 leaves)	60 Kg.	60 Kg.
Maximum leaf weight (2 leaves)	100 Kg.	100 Kg.
Opening speed	0.4 – 0.9 m/s	0.4 – 0.9 m/s
Closing speed	0.2 – 0.5 m/s	0.2 – 0.5 m/s
Maximum closing force	150 N	150 N
Minimum closing force	50 N	50 N
Operator dimensions	170x235	170x235
Door open timing	60 sec.	60 sec.
Latch drop timing	120 sec.	120 sec.
Power supply	220 V (single-phase)	220 V (single-phase)
Power consumption	75 W	75 W
Battery	Lead (12+12 v)	Lead (12+12 v)

4. INSTALLATION

This section provides a detailed explanation of how to assemble and install the door. For your information, we have included a Key to the different door sections and external motor unit measurements.



4.1. MEASURE THE EXISTING STRUCTURE



Measure the distance between the standard U-section and the floor, and the distance between columns.

- Erreka recommends using a standard 160mm U-section between two columns.

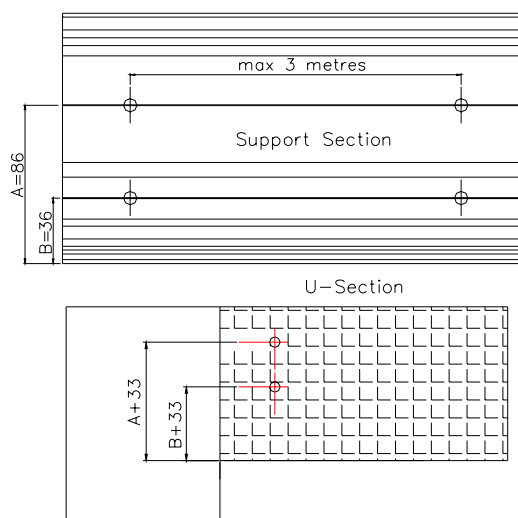
- Define the free passage width (LUP), the clear height (H), the width of the fixed leaves (HF) and the width of the sliding leaves (HM).

$$T = (3 \times LUP + 4 \times SC + 200) / 2$$

$$HF = (LUP + 4 \times SC + 200) / 4$$

$$HM = (LUP + 4 \times SC) / 4$$

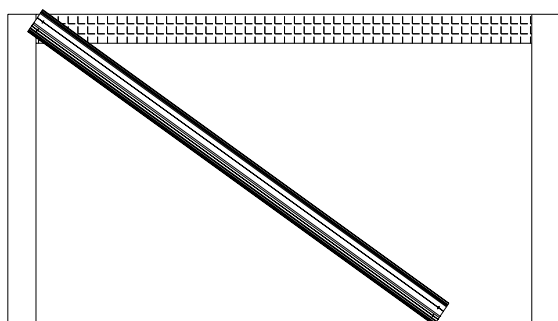
4.2. DRILL HOLES IN THE CASE SECTION



- Drill $\varnothing 8.5$ holes in the support section (8 holes if the case section is $> 4m$, and 6 holes if it is $< 4m$), making the holes on the line (see diagram).

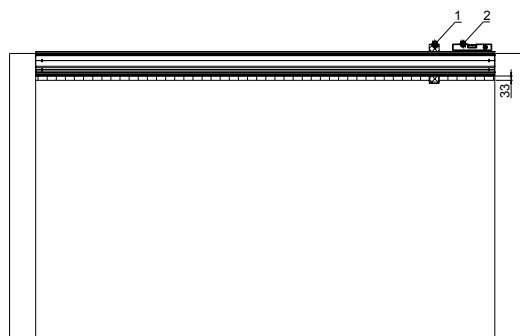
- Drill a $\varnothing 7$ hole in the standard U-section. The case section is to be fixed at the measurement shown in the diagram, i.e. the base of the section must be **33 mm** from the base of the standard U-section. Then thread an M8 bolt through the holes.

4.3. FIT THE CASE SECTION



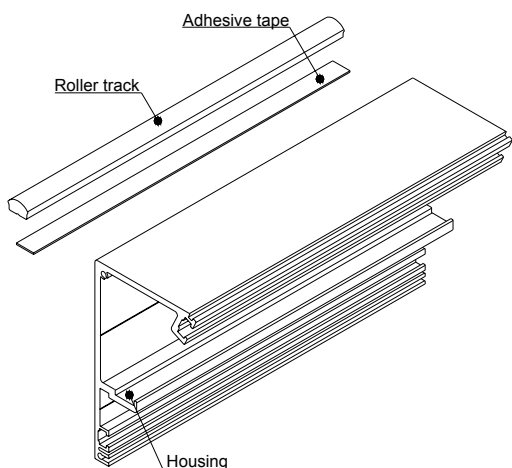
- Secure the case section to the standard U-section with an M8 hexagonal bolt, using a size 13 spanner, and rest the other side on the floor (do not fully tighten the bolt).

- Raise the other side of the case section and fix it in place with a clamp (1). Place the case section **33mm** above the bottom of the standard U-section.



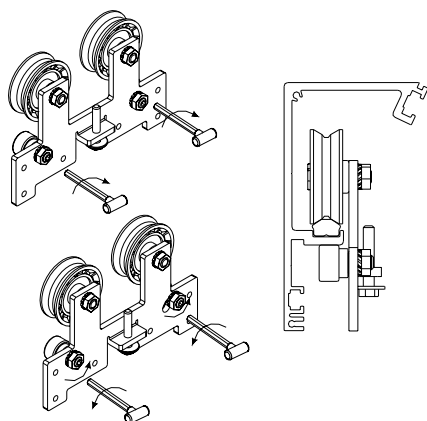
- After levelling it, drill the holes and thread the M8 bolt through them. Lastly, fix the case section to the beam with the M8x25 bolts.

4.4. FIT THE ROLLER TRACK



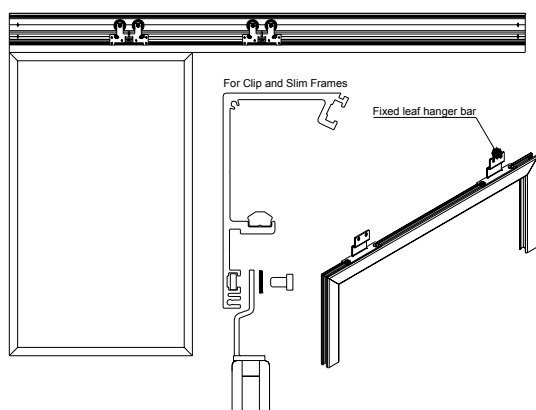
- Stick the double-sided adhesive tape to the roller track.
- Thoroughly clean the roller track housing (remove any shavings).
- Peel off the adhesive backing paper and gradually insert the roller track in the housing.

4.5. POSITION THE CARRIERS ON THE TRACK



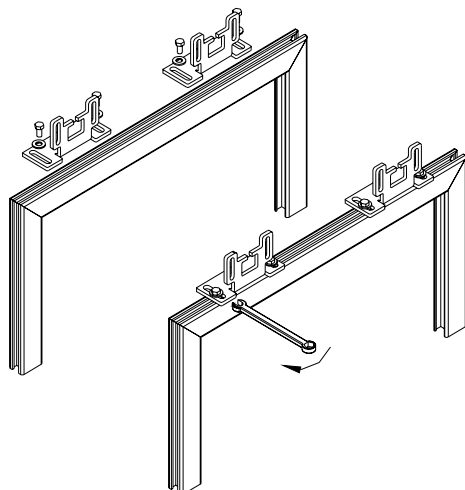
- Loosen the anti-derailing wheels by turning the Allen bolt to the right with the n° 4 Allen wrench, and move the wheel to the central part of the seat.
- Place the carrier on the roller track.
- Then move the wheel to the ends, using the Allen wrench, and fix the nut by turning the Allen wrench to the left.

4.6. FIT THE FIXED LEAF



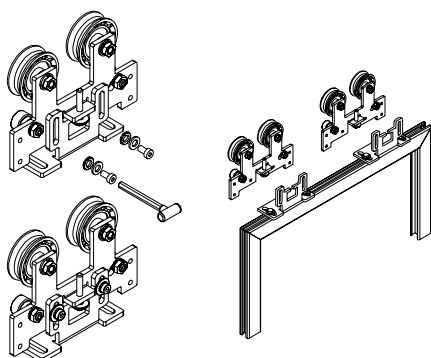
- Mount the fixed leaves, following the instructions provided in the door frame installation manual.
- If the frame to be installed is a slim frame or clip frame, secure the upper part of the fixed leaf using the “fixed leaf hanger bar” (see diagram).

4.7. FIX THE HANGER BAR TO SLIDING LEAF 1



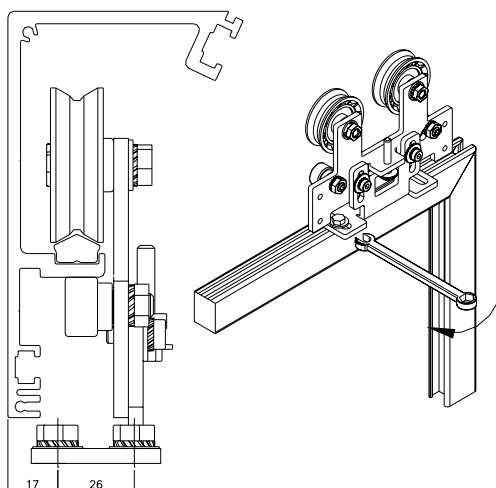
- Mount the hanger bars on the sliding leaves as shown in the diagram (the hanger bar centre should be approximately 120 mm from the ends of the sliding leaf).
- Fix two M8x25 bolts to each of the hanger bars, using a n° 13 spanner.
- Make holes at each end of all the frames, in accordance with the measurements shown below.

4.8. HANG THE LEAF ON THE CARRIERS



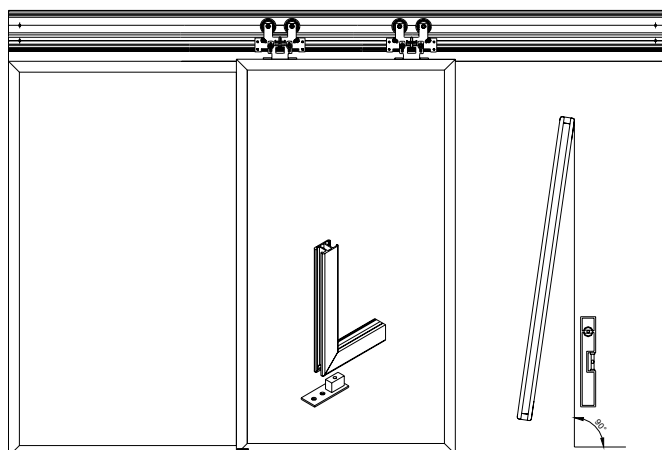
- Fix the hanger bars to the carriers using M6x16 Allen bolts, the toothed washers and the flat washers.

4.9. ADJUST THE DEPTH OF SLIDING LEAF 1



- Use the n° 13 spanner to position the sliding leaf parallel to the case section.

4.10. FIT THE GUIDE

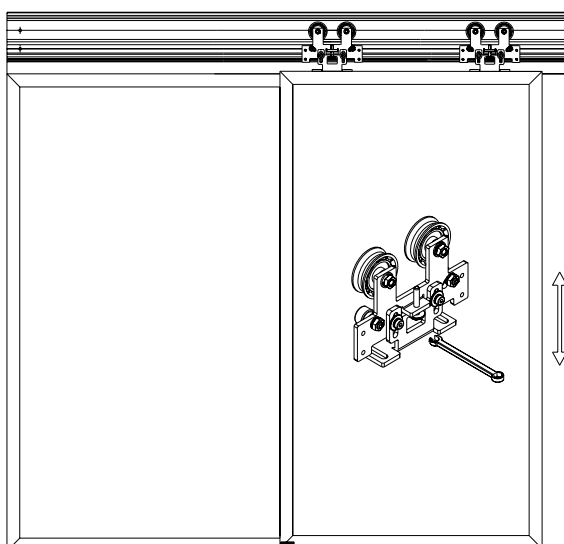


Using a spirit level, move the sliding leaf until it is at 90° to the floor.

- Then position the guide on the floor at the end of the fixed leaf, with the block in the sliding leaf guide. Make a mark on the floor when the leaf is level.

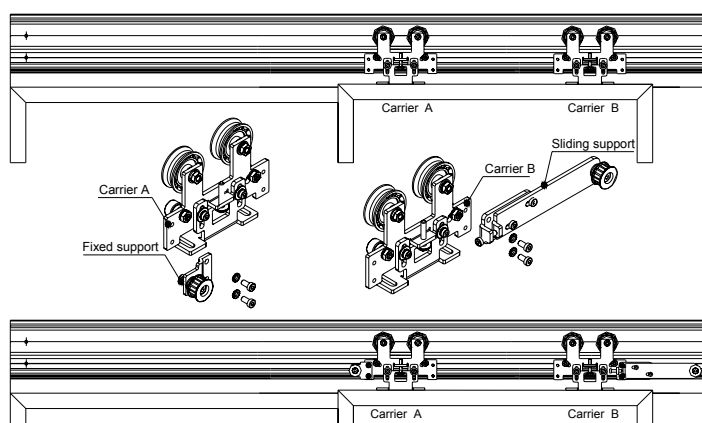
- Then fix the guide to the floor and slide the leaf onto the guide.

4.11. ADJUST THE HEIGHT OF SLIDING LEAF 1



- Using a size 10 spanner, adjust the leaf height with the central carrier bolt. This adjustment is important in order to obtain a perfect fit between the two sliding leaves.

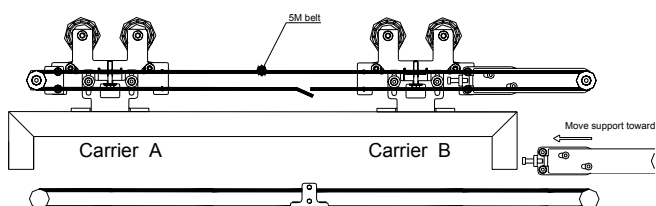
4.12. FIT THE INNER SUPPORTS



- Fit the fixed support to Carrier A (see diagram), using two M6x12 bolts and two grooved washers.

- Fit the sliding support to Carrier B (see diagram), using two M6x12 bolts and two grooved washers.

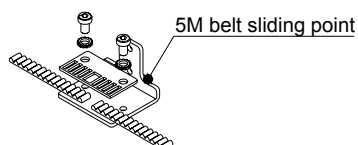
4.13. FIT THE 5M BELT



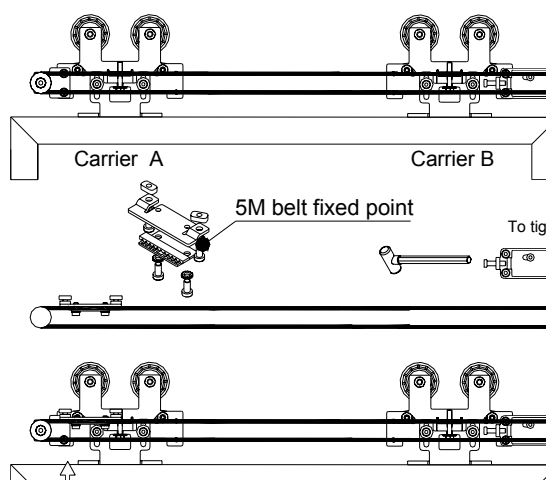
- When the supports have been mounted, move the sliding support towards the rear.

- Cut the 5M belt to size.

- Fix the two ends of the belt with the 5M belt sliding point.



4.14. FIT THE 5M FIXED POINT

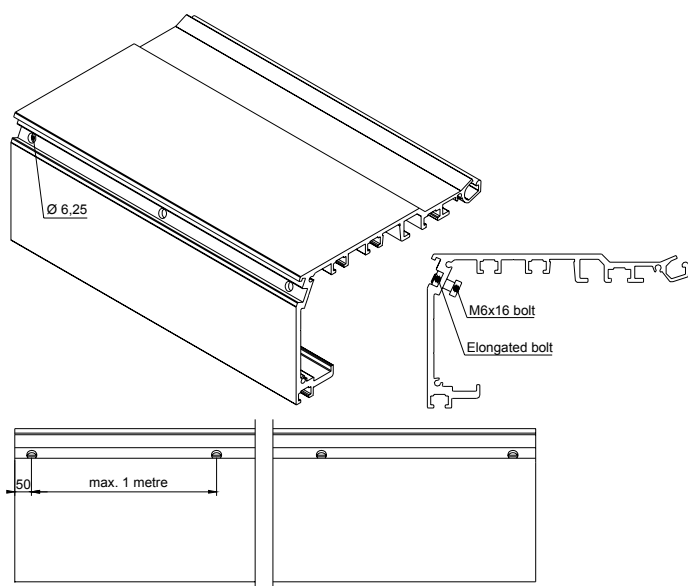


- Tighten the 5M belt by moving the sliding support.

- Move the sliding point towards the sliding support (see diagram).

- Fix the 5M belt fixed point to the opposite side (see diagram).

4.15. DRILL HOLES IN THE CASE SECTION



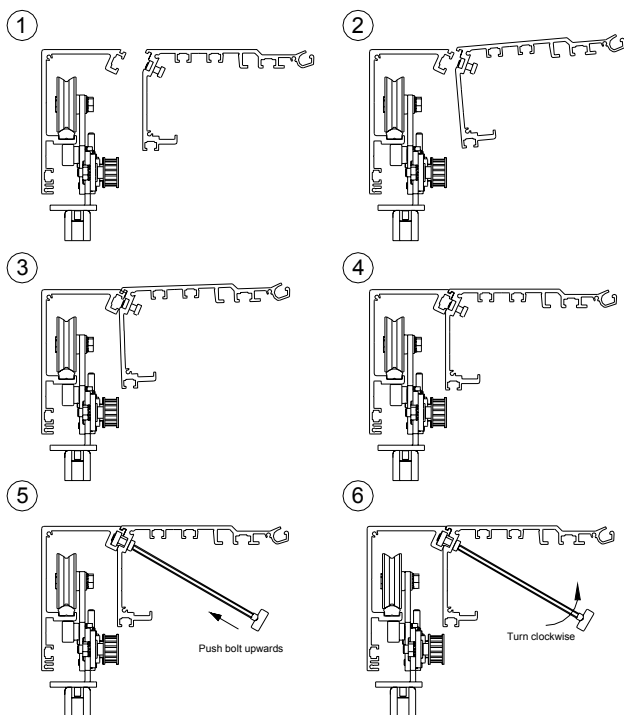
- Drill \varnothing 6.25 holes in the case section (see diagram). Make the holes on the line.

- Maximum distance between holes: 1 metre.

- Distance from hole centre to edge: 50mm.

Place a M6x16 bolt in each hole, with an elongated nut. Level the bolts with the elongated nuts and leave them in the track as shown in the diagram.

4.16. FIT THE CASE SECTION

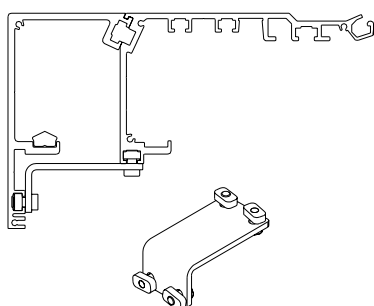


- Check the M6x16 bolts are levelled with the elongated nuts.

- Fit the case section in the support section (see diagrams).

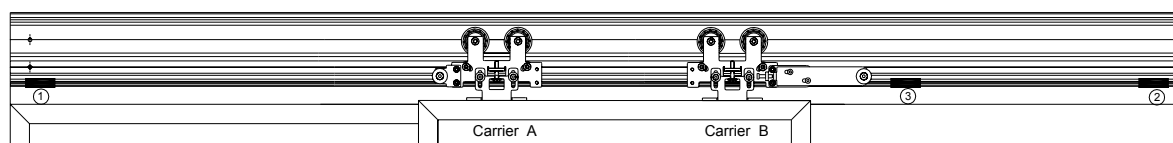
- Push the Allen bolts in until they are touching the support section. Then turn the bolts until you can see that the case profile is firmly pressed against the case section.

4.17. FIT THE CASE SECTION TO THE SUPPORT SECTION

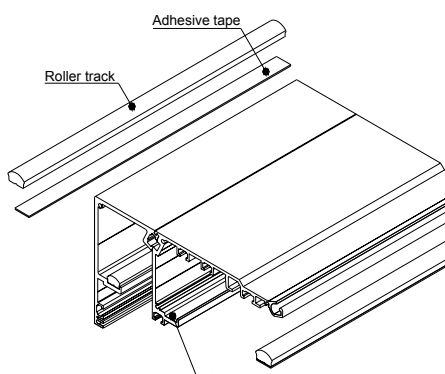


- Fix the support and case sections using the L-shaped part.

- Fit parts 1 and 2 in the corners, one in each corner (see diagram). For heavy doors (100kg per door), fit a third part, part 3. The **correct position** of the third part is as shown in the diagram. If you place it any further to the left it will obstruct the internal mechanism!!!



4.18. FIT THE ROLLER TRACK

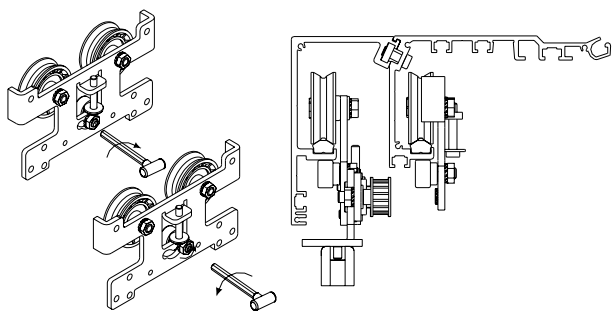


- Stick the double-sided adhesive tape to the roller track.

- Thoroughly clean the roller track housing (remove any shavings).

- Peel off the adhesive backing paper and gradually insert the roller track in the housing.

4.19. POSITION THE OUTER CARRIERS

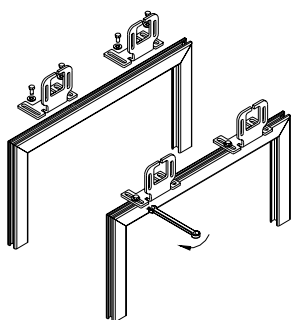


- Loosen the anti-derailing wheel by turning the Allen bolt to the right with the n° 4 Allen wrench, and move the wheel to the central part of the seat.

- Place the carrier on the roller track.

- Then move the wheel to either of the ends, using the Allen wrench, and fix the nut by turning the Allen wrench to the left.

4.20. FIX THE HANGER BAR TO SLIDING LEAF 2

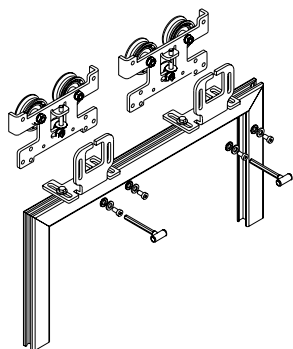


- Mount the hanger bars on the sliding leaves as shown in the diagram. The centre of the hanger bar should be approximately 120 mm from the ends of the sliding leaf.

- Fix two M8x25 bolts to each of the hanger bars, using a n° 13 spanner.

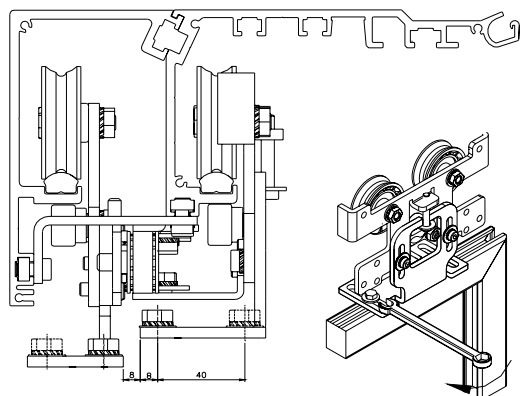
- Make holes at each end of all the frames, in accordance with the measurements shown below.

4.21. HANG THE LEAF ON THE CARRIERS



- Fix the hanger bars to the carriers using M6x16 Allen bolts, the toothed washers and the flat washers.

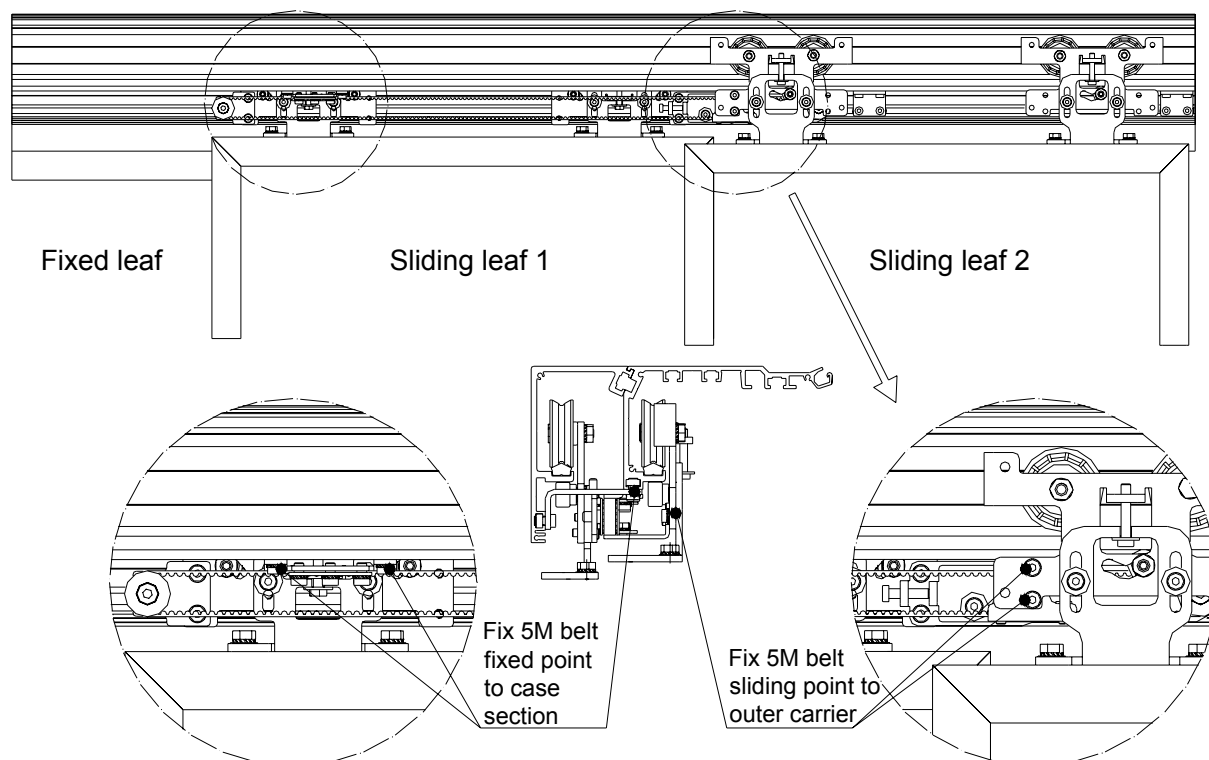
4.22. ADJUST THE DEPTH OF SLIDING LEAF 2



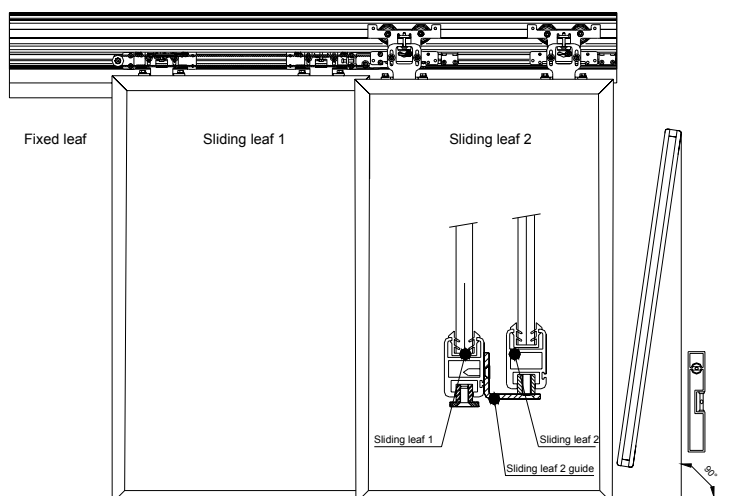
- Use the n° 13 spanner to position the sliding leaf parallel to the case section.

4.23. FIT THE FIXED AND SLIDING POINTS

- Fit the 5M belt sliding point to the outer carrier using two M6x12 bolts and two grooved washers (see diagram).
- Fit the 5M belt fixed point to the case section using two M6x12 bolts and two grooved washers (see diagram).

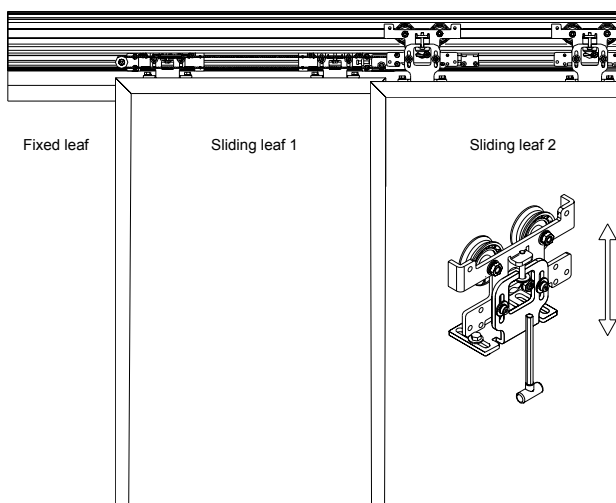


4.24. FIT THE GUIDE TO SLIDING LEAF 2



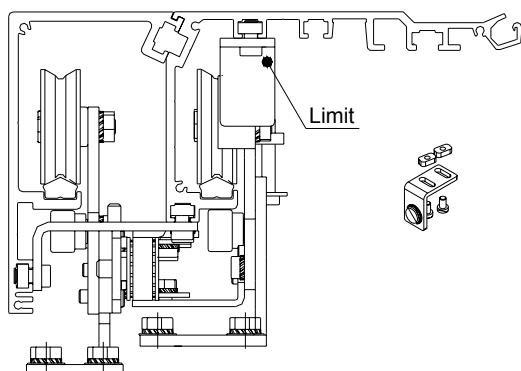
- Fix the guide to sliding leaf 1 using two plate bolts (see diagram).

4.25. ADJUST THE HEIGHT OF SLIDING LEAF 2



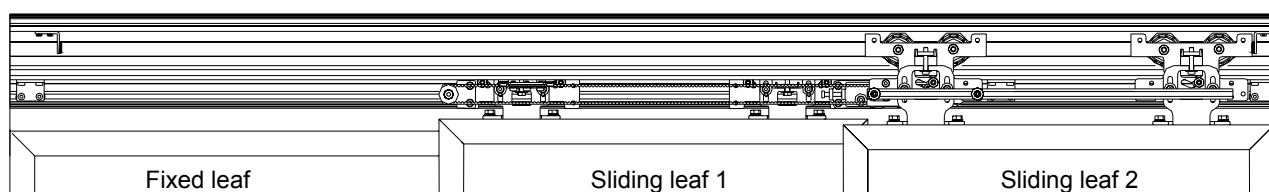
- Using a size 4 Allen wrench, adjust the leaf height with the central carrier bolt. This adjustment is important in order to obtain a perfect fit between the two sliding leaves.

4.26. FIT THE LIMIT SWITCHES



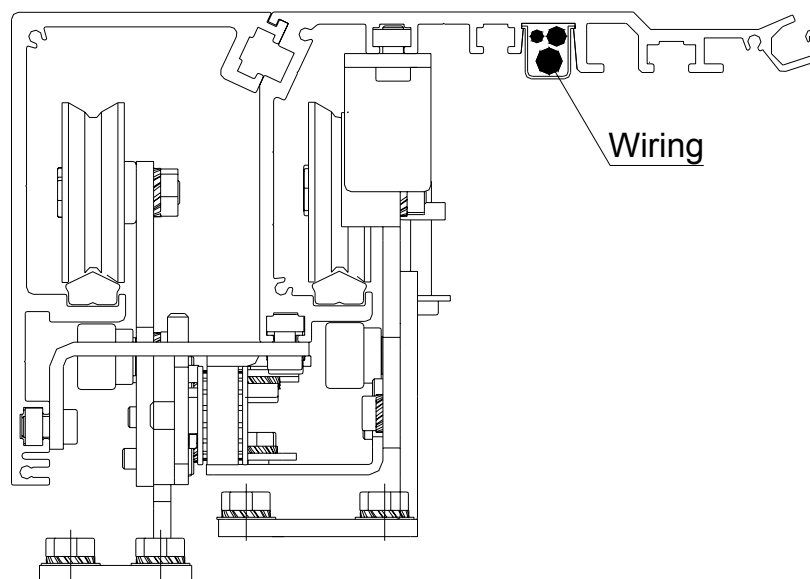
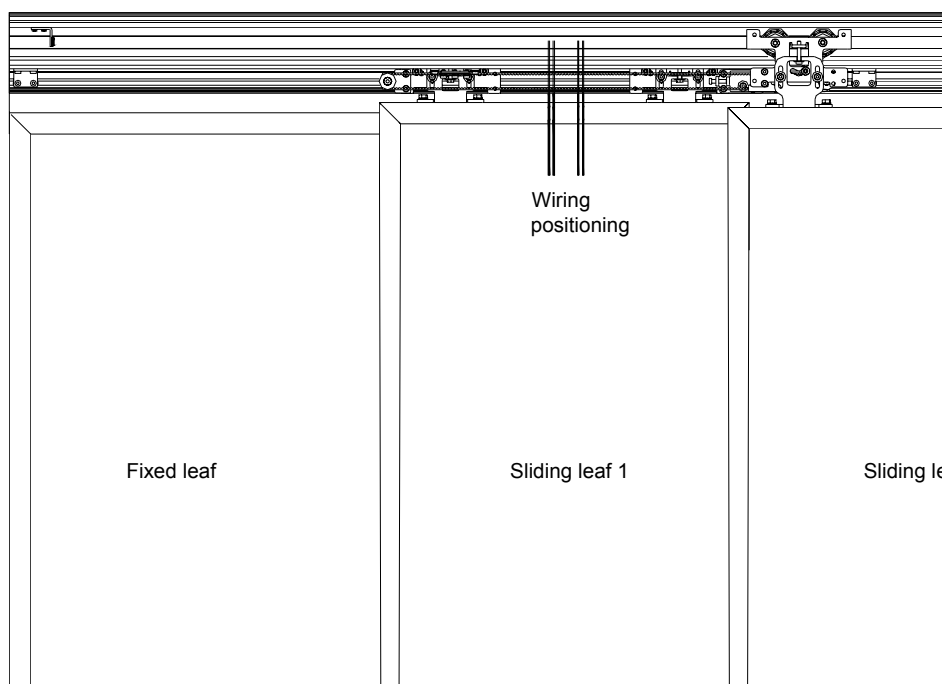
- Place a limit switch at the point where sliding leaves 2 meet. To do this, insert the elongated nuts in the slide and fix the limit switch unit in place using M6x10 Allen bolts.

- Fit the other limit switch to one of the sides.



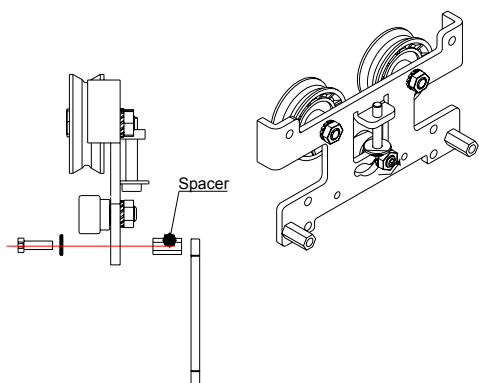
4.27. PREPARING THE WIRING

- It is **VERY IMPORTANT** to wire the peripherals (photocells, radars, selector, etc.) before fitting the operating device, as once this has been done there will be very little space for your hands. Thread the wires up to the panel positioning height to facilitate subsequent panel connection. Use the cable covers supplied to hold the wires in place, placing them in the housing as shown in the diagram below.



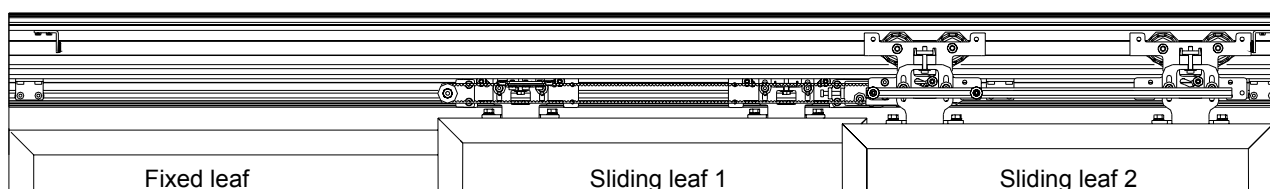
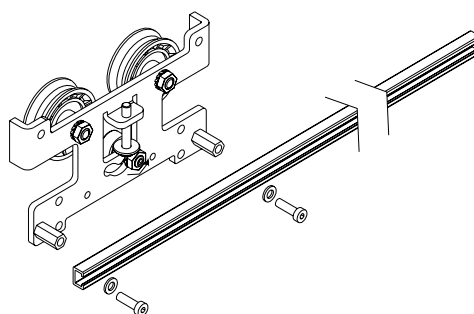
4.28. MOUNT THE ARMS ON THE CARRIERS

- **2 left-opening sliding leaves**

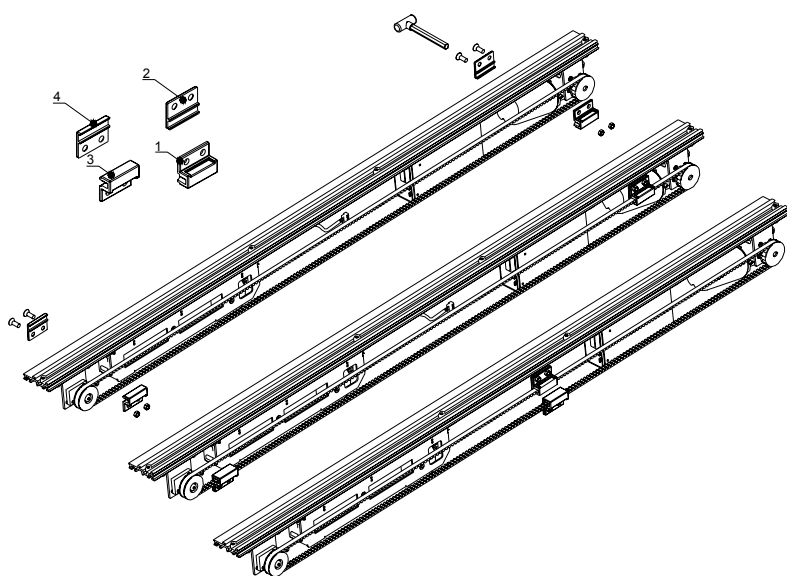


- Fix the spacer nuts using a size 10 spanner, inserting the M6x20 bolts in the rear of the carrier with toothed washers.

- In this case (two left-opening sliding leaves) the arm goes in the lower position (left inner carrier).



4.29. FIT THE BRACKETS TO THE BELT



- Fit the brackets (1 and 3) to the belt, at the same number of teeth from each of the pulleys.

- Fit the covers (2 and 4) to the brackets and fix them in place with 2 countersunk bolts and M6 nuts.

- Slide the brackets to the centre of the drive by pulling the belt.

Important: For doors with only one sliding leaf, use only one bracket.

4.30. POSITION AND FIX THE MOTOR UNIT SECTION

- Loosen the 4 M6x16 bolts until they are at a level with the elongated nut, and leave them on the track as indicated in the diagram.

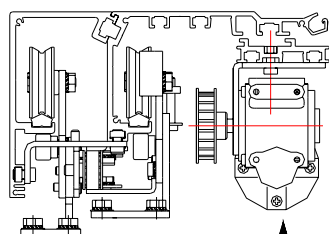
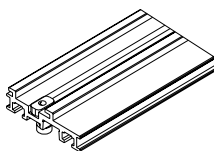
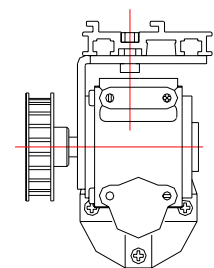
- Open the doors before fitting the motor unit, so that the arms do not obstruct the mechanism.

- Take hold of the motor unit and move it upwards until it reaches its limit against the case section.

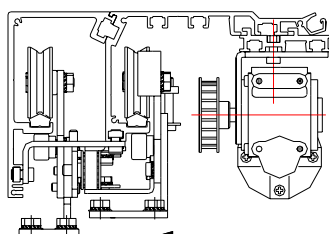
- Move the motor unit inwards, so that the tabs fit into place. The unit can then be released.

- Place the motor unit laterally, according to the type of installation.

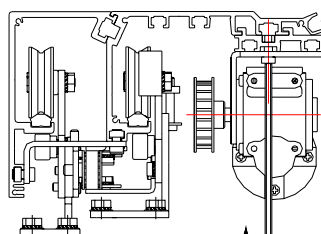
- Insert the M6x16 Allen bolt until it reaches the case section, and turn the bolt until the motor unit is firmly fixed to the case section.



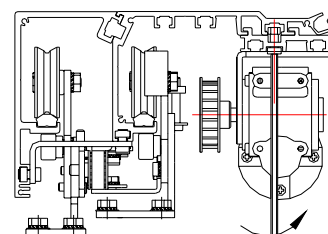
Raise section as far as it will go



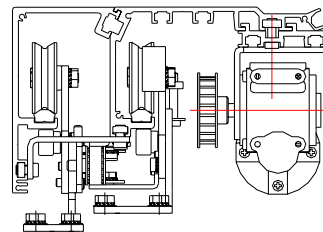
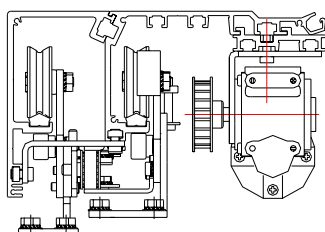
Move towards case section



Push bolt upwards



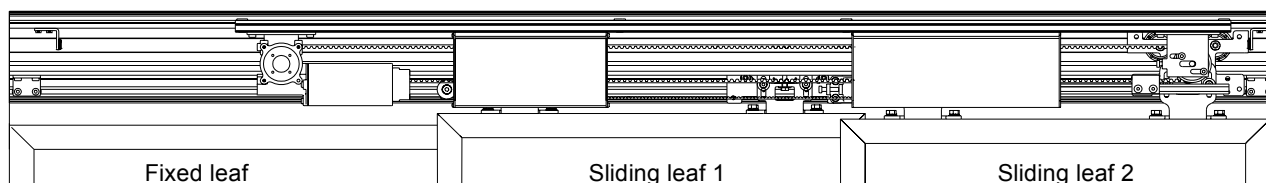
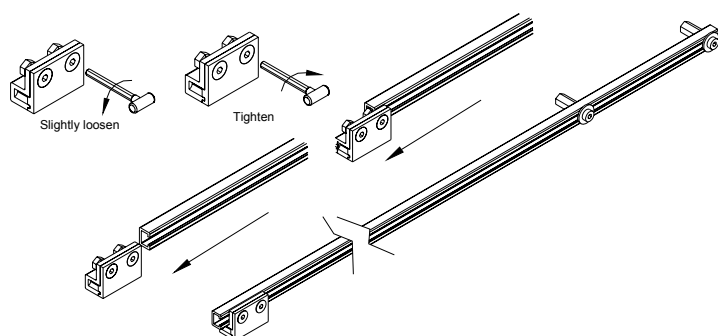
Turn anti-clockwise



4.31. FIXING THE BRACKETS TO THE ARMS

- Slightly loosen the M6x12 countersunk bolts holding the brackets in place, and move the sliding leaves. Insert the M6 nuts to fasten the bracket inside the arm rail, then tighten the M6 countersunk bolts using the n° 4 Allen wrench.

- Check manually that the leaves move up to the limit switch.

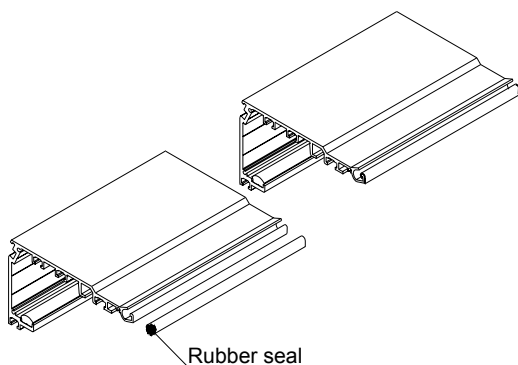


Fixed leaf

Sliding leaf 1

Sliding leaf 2

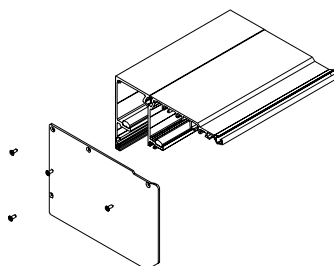
4.32. FIT THE RUBBER SEAL TO THE CASE SECTION



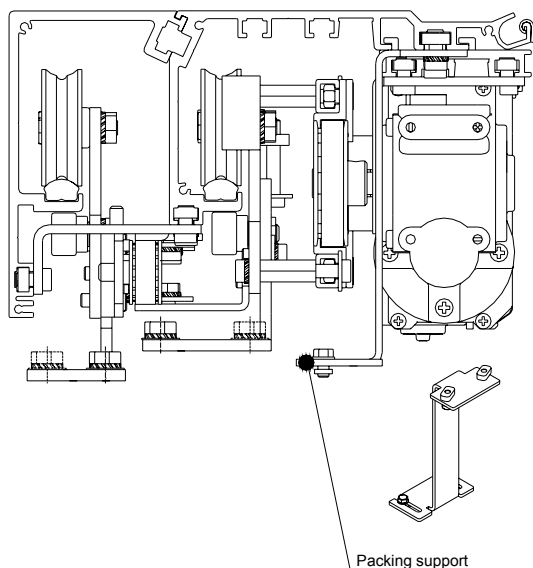
- Fit the entire length of the rubber seal to the case section (see figure)

4.33. FIT THE SIDE COVERS

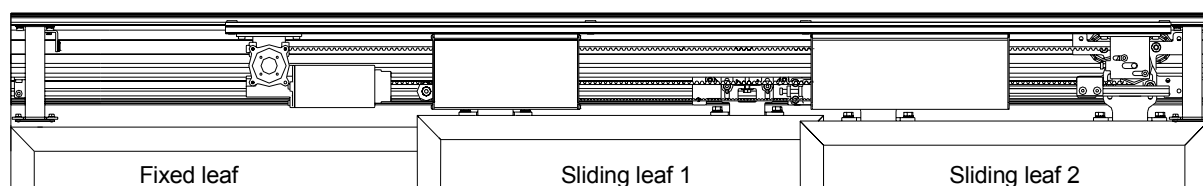
- Fix the side covers to the case section using $\varnothing 4.2 \times 13$ countersunk plate bolts.



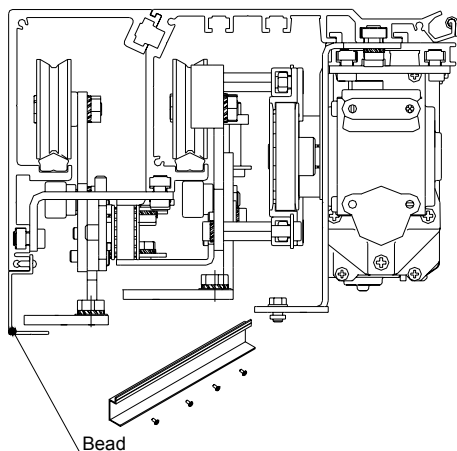
4.34. FIT THE PACKING SUPPORTS



- Fit the packing supports, one at each end of the section (see diagram).

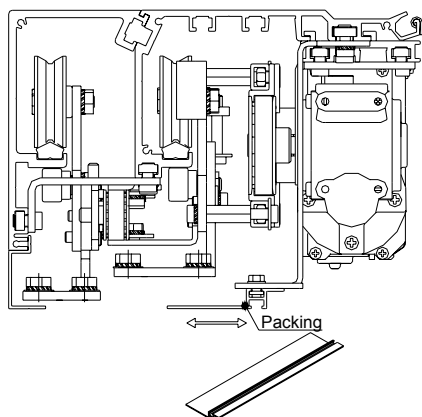


4.35. FIT THE BEAD



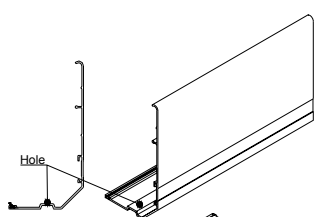
- Fit the support section to the bead section using plate bolts.

4.36. FIT THE PACKING SECTION



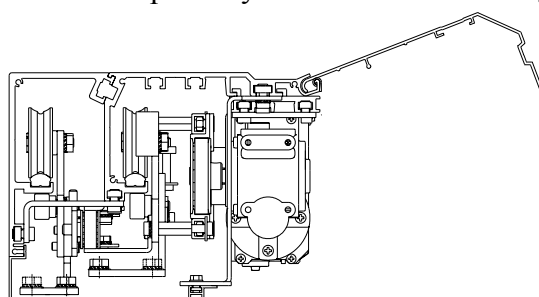
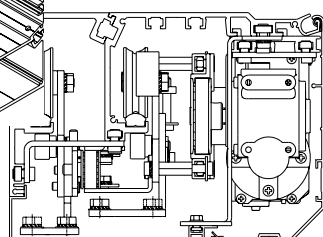
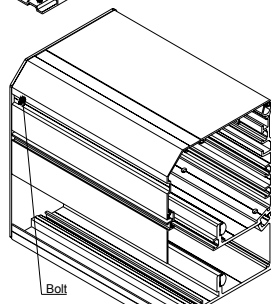
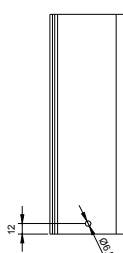
- Fit the packing and adjust its depth.

4.37. FIT THE COVER SECTION



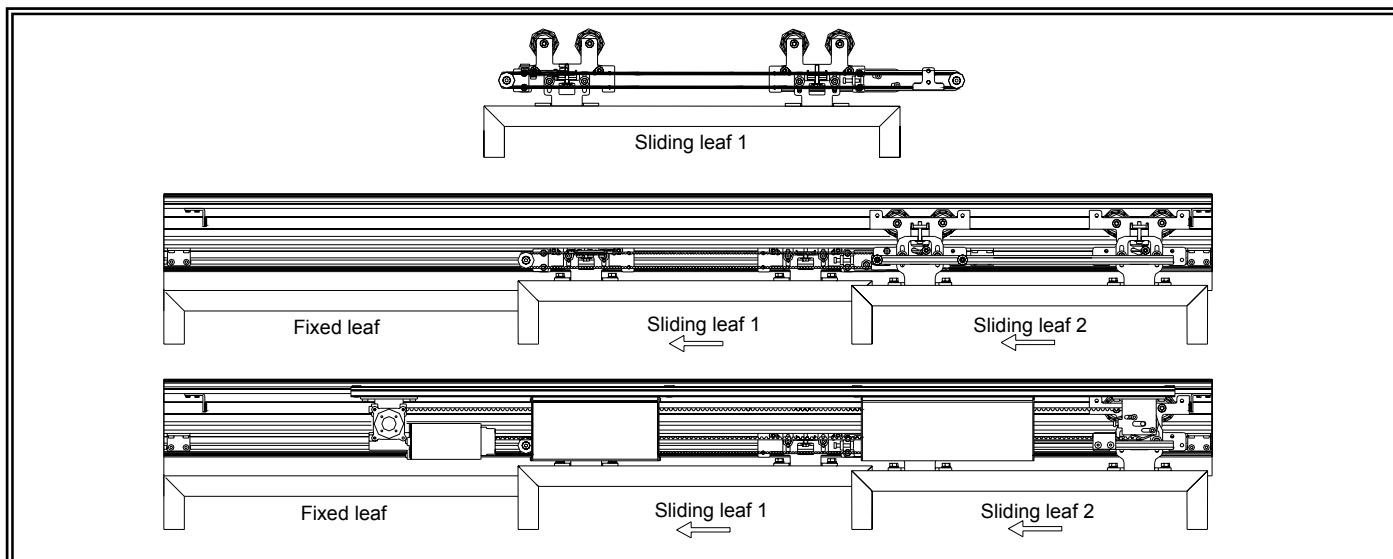
- Drill two 6.5 mm diameter holes in the two ends of the cover section. *The distance from the centre of the hole to the end should be 12 mm.*
- Fit the rubber strip to the cover section.
- To fit the cover, first rest the end of the cover in the case section ball.
- When the section is positioned, allow it to slide down by its own weight until the cover pivots. Lastly, fix the cover section to the side covers using two M6x15 bolts (one at each end).

Important: The cover does not need to be completely detached from the unit for maintenance: it can be partially detached and left hanging.

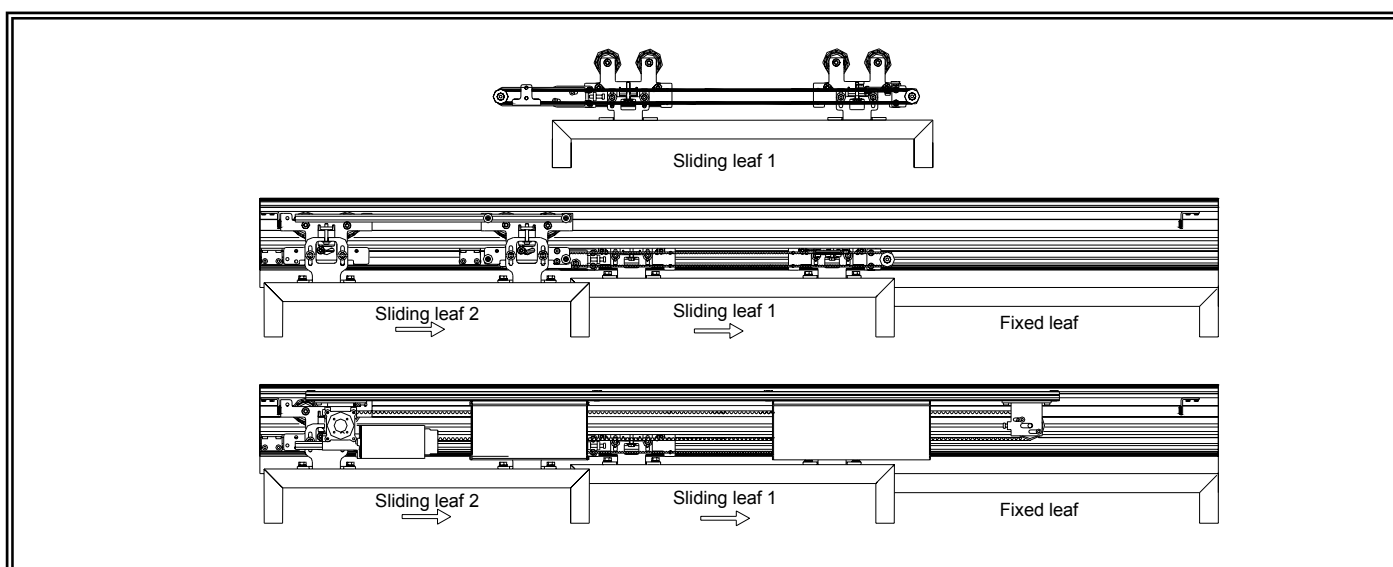


4.38. DIFFERENT TYPES OF INSTALLATION

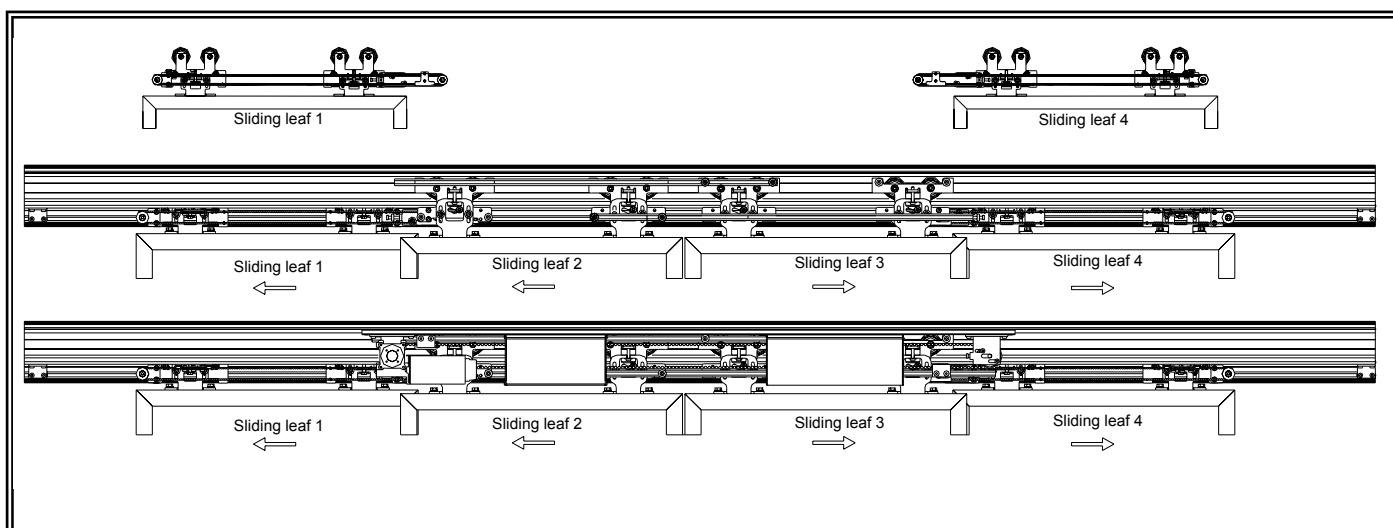
Telescopic System 2+1 Right-opening

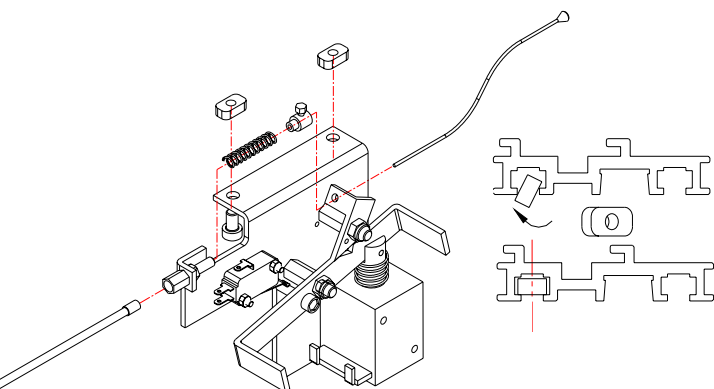


Telescopic System 2+1 Left-opening



Telescopic System 4+2

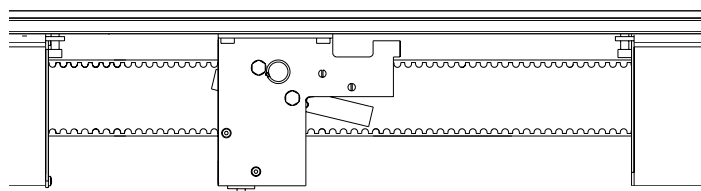
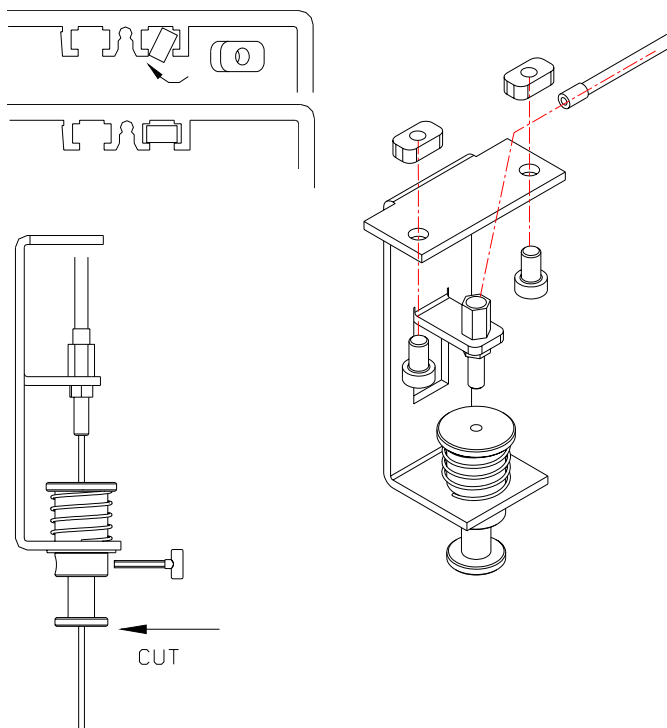


4.39
ASSEMBLY OF THE ELECTRICAL LOCKING KIT
4.39.1
ASSEMBLY OF THE ELECTRICAL LOCKING DEVICE


- Take the cable, first pass it through the catch, then through the set screw, the spring, put it in the tightener and finally through the casing.

- Loosen the long nuts and place them in the drive track. Put the lock between the board and the power supply unit.

- Move the casing towards the case profile end passing through the cable conduit.

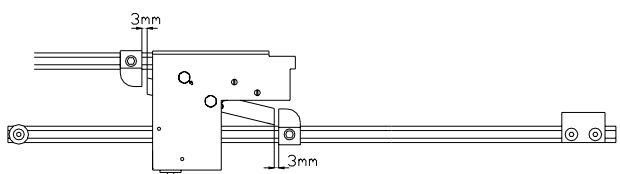

4.39.2
ASSEMBLY OF THE MANUAL RELEASE DEVICE


- Loosen the long nuts and place them in the drive track, with a $\varnothing 4$ T-handle Allen wrench fasten the allen M6x12 screws.

- Take the cable, first pass it through the tightener and then through the knob. The cable will protrude from the knob slightly, hand stretch the cable to tense it slightly and fasten the set screw. Then cut the cable as shown in the drawing. Loosen the set screw allowing the cable to retract and refasten the set screw.

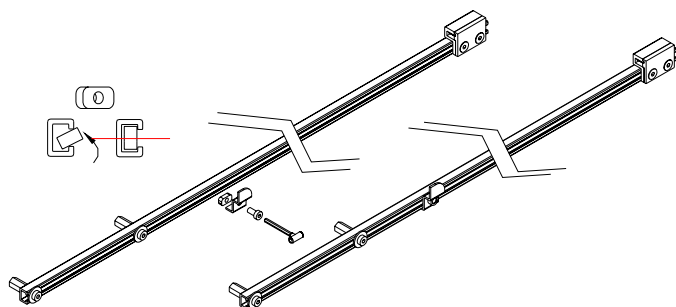
4.39.3

FITTING THE MECHANICAL STOPS

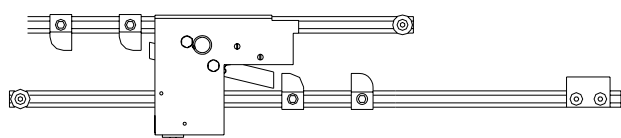


- Close the doors, take the long nut and insert it in the arm.

- Take the latch and fasten it to the arm with M6x10 screw. Fasten them so that they are almost touching the electrical locking device latch. But it is very important to have 3mm minimum distance (look at the drawing) in order to release the latch.



- If there are two sliding leaves, place the other latch on the other arm and perform the same operation.



- In order to use The “Pharmacy opening” mode two more latches at the needed distance. The door will look for the latches at the moment that we press “Pharmacy opening”. You can position them depending on the opening measure you want.

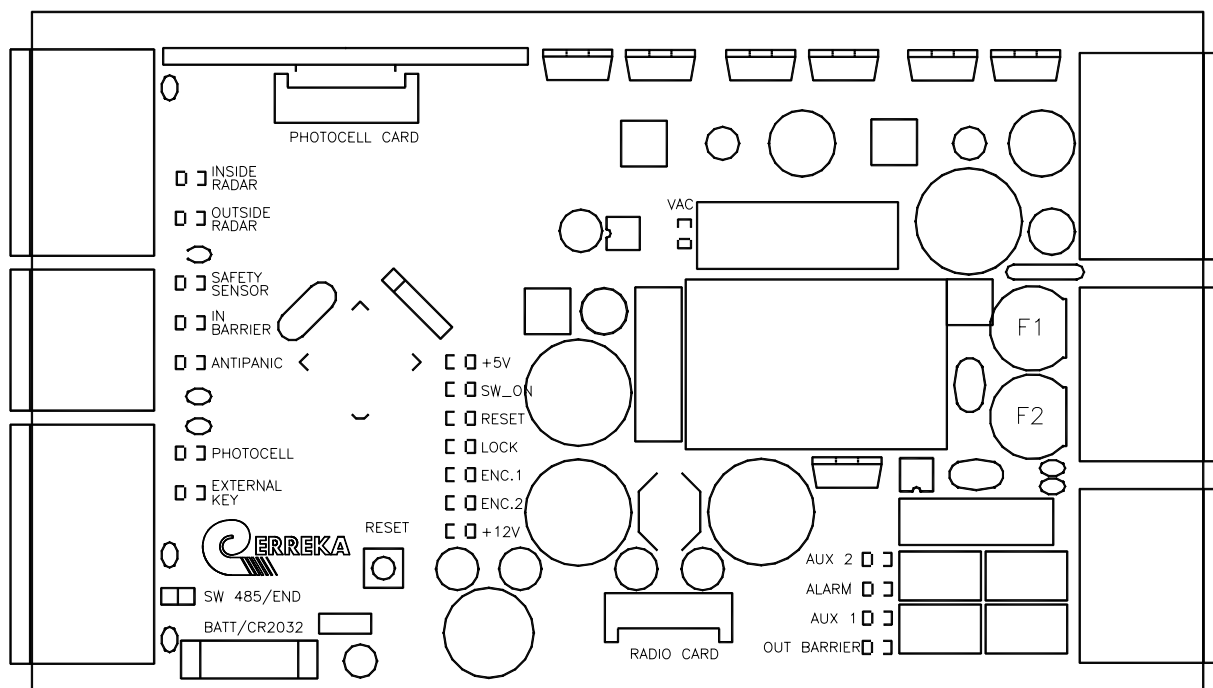
5. CONNECTIONS

GEAR MOTOR						BAT. EMERGEN.					AUX. RELAYS																																														
50	+12 (Blue)	66	Motor-A	44	N33VAC	60	Batt +	39	Alarm1	55	Relay2-A	43	GROUND	59	Batt -	38	Alarm2	54	Relay2-B	42	L33VCA	58	Emergen.1	37	Out.barrier1	53	Relay1-A	41	N12VAC	57	Emergen.2	36	Out.barrier2	52	Relay1-B	40	L12VAC	56	GND	35	GND	51	Aerial														
49	GND (Brw)	65	Motor-B	POWER SUPPLY					ALARM BARR.					48	SW (Red)	64	P-GND						47	SW (Black)	63	Encoder1						46	Reset	62	Encoder2						45	Reset	61	P+12V													
ELEC. LOCK						KNOB1																																																			
RADARS						BARR. PANIC				PHOTOCELL				485																																											
18	Transmitter1	1	P+12V	7	Inp.Barrier1	11	P+12V	28	Key-A	30	P+ 12V	15	485-A	29	Key-B	12	Photoce11	31	RX	13	Photoce12	16	485-GND	32	CLK	14	P-GND	17	485-B	33	TX	19	Common GND	2	Internal radar1	8	Inp.Barrier2	20	Receiver1	3	Internal radar2	9	Panic.Brkout1	21	Transmitter2	4	External radar1	10	Panic.Brkout2	22	Common GND	5	External radar2	23	Receiver2	6	P-GND
LENS-A						SAFETY SENSOR				KEY				MULTIFUNCTION SELECTOR				LENS-B																																							

These inputs are bridged: - Photocell; terminal 12 and 13. – Safety sensor; terminal 25 and 26
 - Key; terminal 28 and 29. – Lock switch; terminal 47 and 48.

5.1

CONTROL BOARD DIAGRAM



LED DIODES	ON	OFF
VAC	220V mains voltage to unit	No mains voltage
ENC1	Encoder track 1 signal	
ENC2	Encoder track 2 signal	
+5V	Voltage to microprocessor	No voltage to microprocessor
INSIDE RADAR	Internal radar input closed	Internal radar input open
OUTSIDE RADAR	External radar input closed	External 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
RESET	Performing reset operation	
+12V	Power for devices	No power for devices
LOCK	Electric lock's switch activated	Electric lock's switch deactivated
SW-ON	Emergency input activated	Emergency input deactivated
IN BARRIER	Barrier input activated	Barrier input no activated
OUT BARRIER	Barrier output activated	Barrier output no activated
AUX 1	Opened door signal	Door not opened
AUX2	Closed door signal	Door not closed
ALARM	Stoped door alarm	

FUSES	FUNCTION
F1	Fuse 5x20 8 A (Motor protection)
F2	Fuse 5x20 2 A (Devices protection)

5.2 STANDARD CONNECTION

5.2.1 PHOTOCELLS

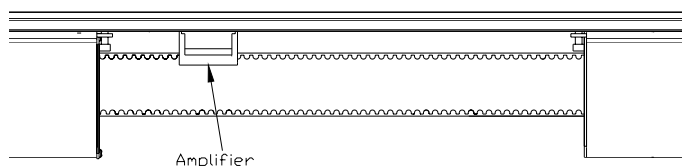


Diagram 1

- Mount the amplifier on the drive unit, some 80 mm from the control board.

- Install the photocell lens transmitter/receiver in its corresponding position depending on the profile type. If 1 photocell is installed, this will be placed 500 mm from the floor, if there are 2, one at 1000 mm and the other at 200 mm from the floor.

- Pass the transmitter and receiver cables through the cable conduit to the photocell amplifier and make the connection as per diagram 1.

- With the 4 wire hose, make the connections from the amplifier to the panel, as indicated in diagram 2.

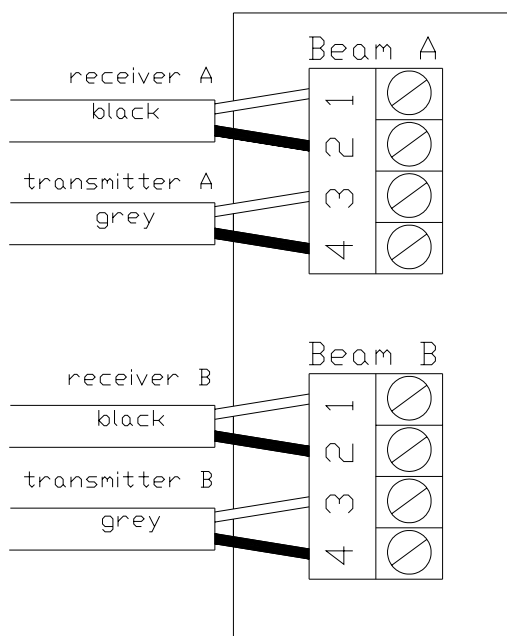
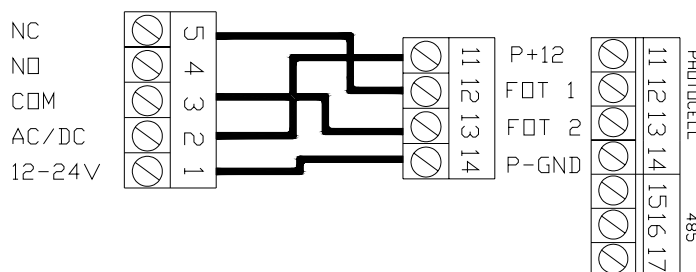
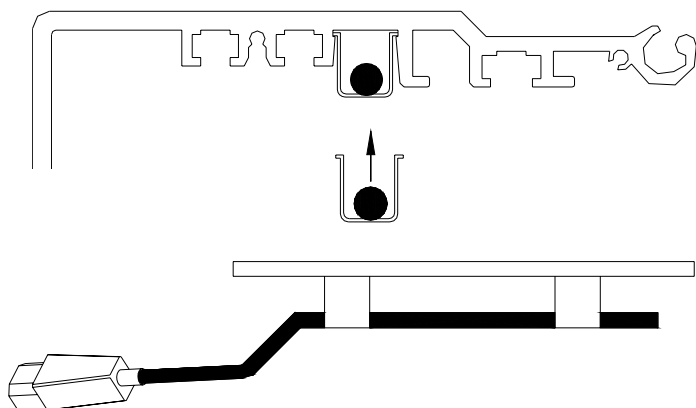


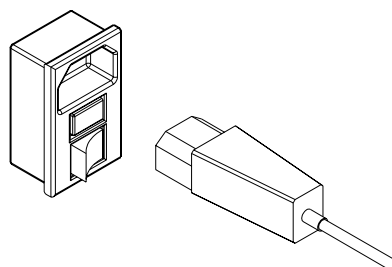
Diagram 2



5.2.2 CONNECTION TO THE POWER SUPPLY

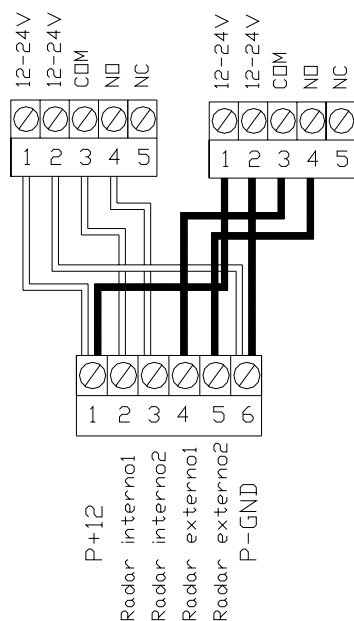


- Pass the cable over the cable conduit and then clip it on the case profile and take it to the power supply unit. For this, strip the cables and fix the connector to the end, finally insert the connector in the socket located on the power supply.



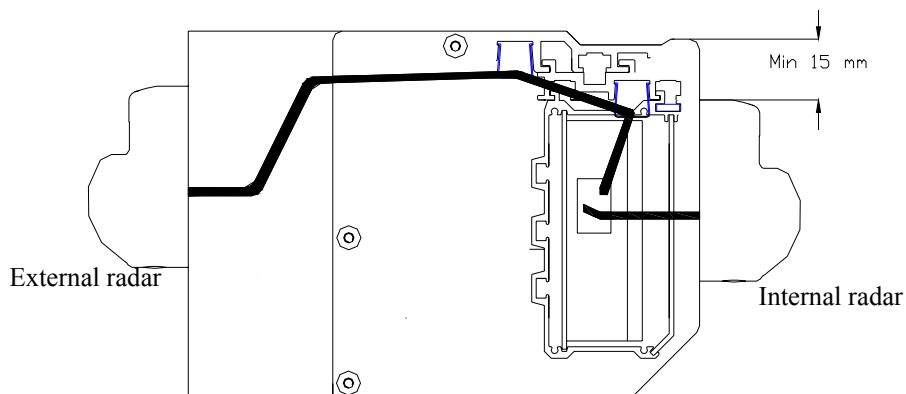
5.2.3 RADARS

External radar Internal radar



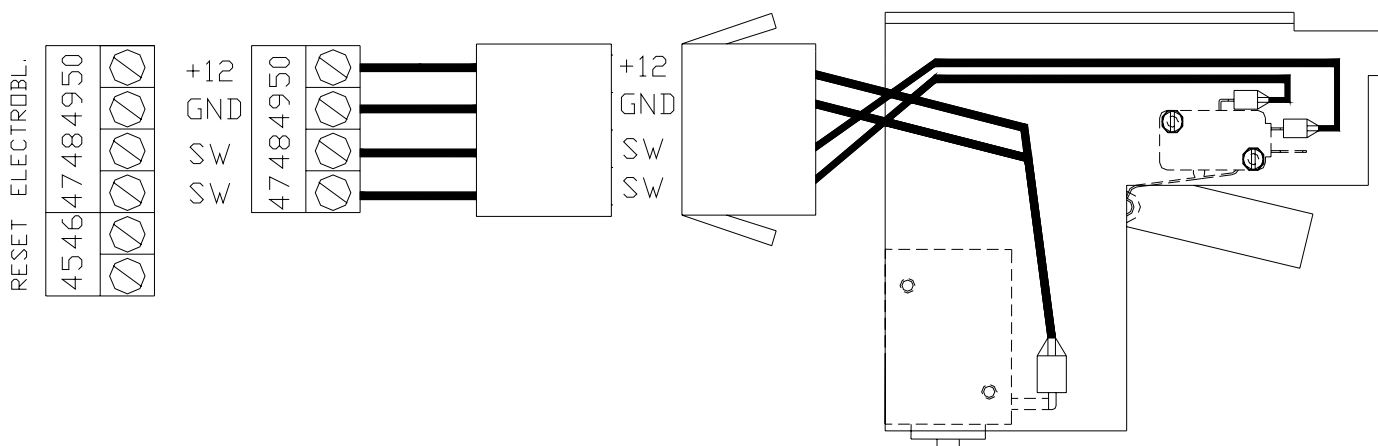
- Connect the internal radar directly to the panel, take the external radar cable to the left side of the drive through the UPN structure. Make a hole through the case profile and pass the cables through the cable conduit to the panel.

- To make the connections see the diagram.

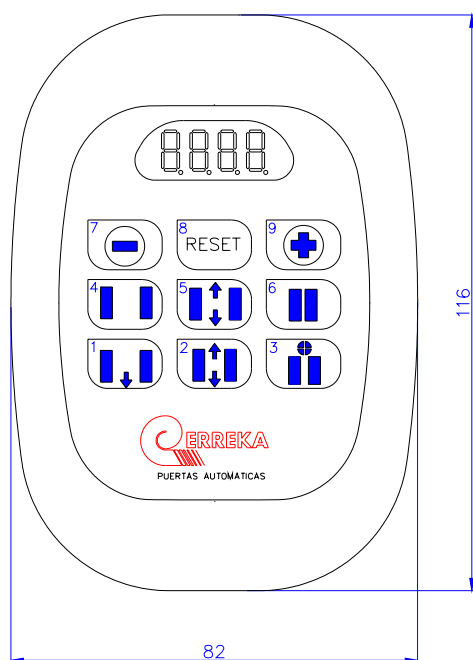


5.2.4 ELECTRICAL LOCKING DEVICE

- Make the connection to the electrical locking panel as indicated in the diagram.
- Put off the bridge in the terminals 47 and 48.



5.2.5 SELECTOR

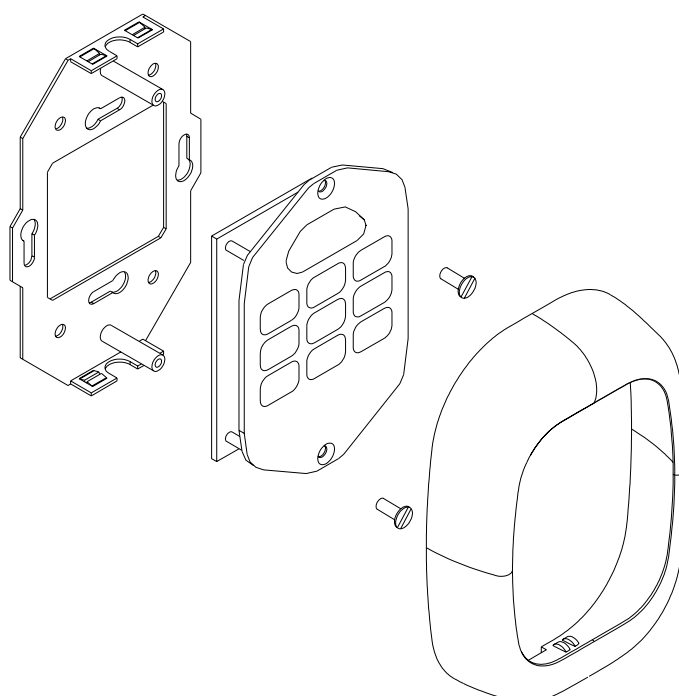
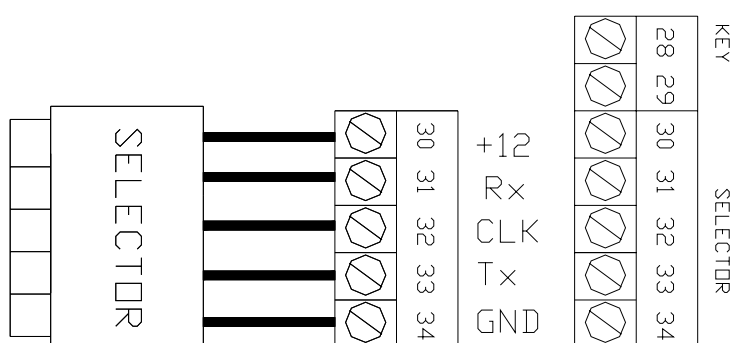


- The selector is the communications device between the control board and the user. It enables us to control and perform the following

- 1.-Select different operating modes.
- 2.-Set operating parameters
- 3.-Switch options on and off
- 4.-Diagnose breakdowns and error modes.

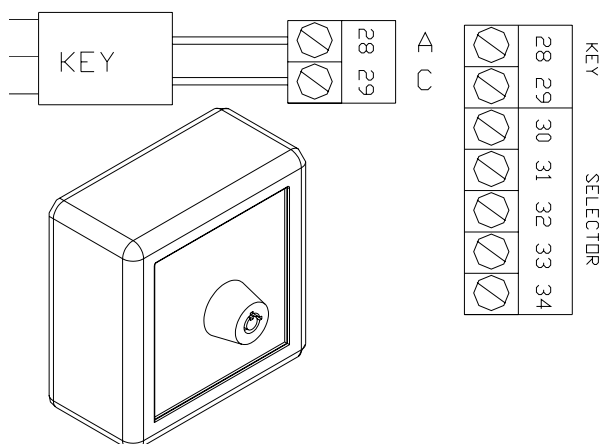
- Selection is performed by pressing the keys on the fix part of the selector - the function is indicated by the relevant LED lighting up.

- The diagram below shows how to assemble the selector.



5.3 AUXILIARY CONNECTIONS

5.3.1 EXTERNAL KEY



- The external key is a safety switch that is operated from outside. The input is NC. It has two positions:

- A: Enabled
- C: Disabled (the contact opens)

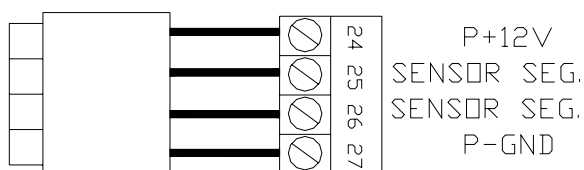
- When the lock is in the enabled position, the door is in the "locked" condition and the blocking function is activated (if incorporated).

- In the disabled position, the door returns to the last function it was in before the lock was enabled. Although if it was in the "Door closed" position, it will always open once, to enable the person who activated the lock to enter.

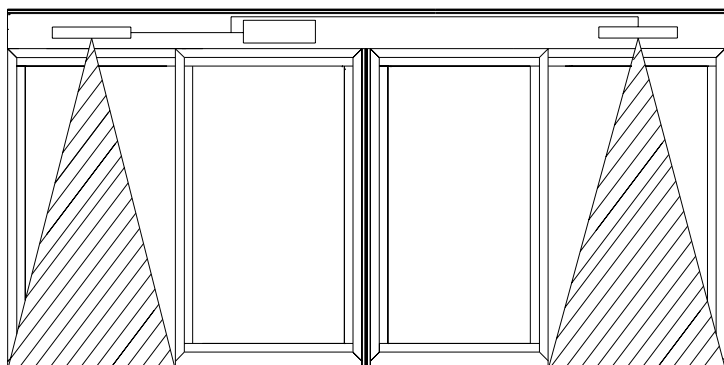
To exit if the key is enabled:

- Push the button "1" in the selector. The door goes to "Exit only" function during one minute. After that the door returns to the key mode. The other buttons in the selector are disabled.

5.3.2 SAFETY SENSOR



- Prevents people from being trapped by the leaves during the opening manoeuvre, this opening process is stopped if the presence of a person is detected in the leaf opening path. 2 units are mounted, one at each side of the mechanism.



5.3.3 RESET BUTTON

This is used if the Selector is not installed. Its purpose is to activate the reset manoeuvre, in order for the motor unit to start up.

If the Selector has not been installed, the door can only perform the Two-way Automatic manoeuvre directly; it cannot perform any other manoeuvres such as Doors Open, Doors Closed, Exit Only, etc.

In such cases it is recommendable to fit a reset button, on one of the side covers for example, for cases in which the door parameters need to be reset.

5.3.4 AUXILIARY RELAYS

Voltage free contacts that give a signal in the door open and door closed positions. They may be used for different applications.

For example: Connection to a door open or closed indicator lamp.

- Aux1: terminals 52 , 53. Switch on in door open position.
- Aux2: terminals 54, 55. Switch on in door closed position.

5.3.5 BARRIER FUNCTION

This is a function that is only valid for installations with two parallel doors, one located behind the other. It offers the possibility of interconnecting two PLC's to perform a discriminatory function. Each door will only operate if the other door is closed.

To clarify this function, we could give the following explanation: a pedestrian moves forward and once he/she has passed through the first door and is facing the second door, this second door will not begin to open until the first one has actually closed. Although the sensors detect the presence of a pedestrian (on both sides of the door) the control board will not consider the signal until the first door is completely closed.

This is very useful as a security or access control system.

5.3.5 REMOTE CONTROL

This accessory consists of a 433MHz four-channel transmitter and a plug-in receiver connected directly to the panel.

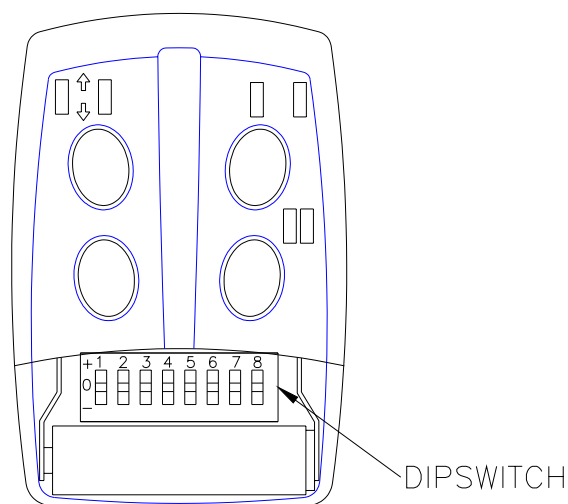
The remote control has two operating modes:

- 1.- Reduced selector, enabling the three operating modes: “Door open”, “Door closed” and “Automatic”. These three modes are shown above each of the buttons.
- 2.- Press to open door: when the button on the remote control is pressed the door will open.

Programming the transmitter

The process for programming the transmitter and receiver is as follows:

- 1.- Select a code from any of those available by turning the 8 transmitter dipswitches to the desired position (see figure).
- 2.- Press and hold down one of the transmitter buttons.
- 3.- Then press the receiver button, with the receiver already inserted in the panel. Hold it down until the receiver LED flashes three times. The transmitter code will then have been recorded and the receiver and transmitter buttons can be released.



5.3.6 EMERGENCY/FIRE PREVENTION FUNCTION

Terminals 57 and 58 are used for the emergency input.

This input is a safety system and therefore has preference over all the other inputs. It is normally connected to the fire alarm in the building.

There are 2 emergency functioning options: the door either opens or closes. There is also a 2 input signal type option.

Operating mode

1.- This is entered from the function “--++”(Func) “3” (AI-0)

- (AI-0): When the signal is received, the door goes into total opening position and remains in this position while the emergency signal remains activated.
- (AI-1): The door only obeys the photocell, not the radars, and goes into closed position. When the door is closed it stays in this position while the emergency signal remains activated.

Signal

There are two types of emergency signal: continuous and single.

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

- (LA-0): Continuous signal. While this signal remains activated, the door will work in emergency mode. When the signal disappears it will return to its previous working mode.
- (LA-1): Single signal. When one single signal occurs, the door will go into emergency mode and remain in this mode. For the door to return to normal functioning it needs to be reset from the panel.

When the emergency signal occurs, (Err6) will appear on the display.

Power outage emergency

If there is an electricity cut and the emergency signal occurs, the battery-powered panic mode has priority for emergency functioning. The reaction to an emergency signal will therefore be the same whether power is reaching the unit or not.

If there is a power outage before the emergency signal occurs, if the door is open on "Err-5" it will remain in this position (in the case of "Err6") but with the emergency warning on the display.

6. START UP

Once the automatism and the selector have been installed, the door should be connected to the mains as follows:

- 1.- Connect all peripheral elements (sensors, photo beams, selector, etc.) to the panel.
- 2.- With the cover raised, plug the mains connector in position in the supply source unit. Press the bipolar switch activating the source input and the batteries. The reset or start operation will begin automatically. Close the cover while the port carries out the operation.

The reset operation takes place when the door is started up for the first time. Its purpose is to measure the length of travel of the door leaves, set the initial values for all the parameters and start up the counters. The operation is one opening cycle until reaching the end of travel limit stop followed by one closing until the two leaves make contact. During this cycle the panel takes the above measurements and is then ready to begin its normal functioning.

- 3.- When the reset operation ends, the door will go to “door closed” status. From this position the door can be commanded from the selector.

To regulate it, take it to “door open” mode, which is the normal working mode. The panel (by default) will choose a determined displacement curve depending on the conditions calculated on reset, and it will therefore not be necessary in principle to change the parameters. However there is the option of varying the initial parameters and using others which you consider the most suitable for each installation. To do this you can follow point 6, “Regulation of parameters by selector”.

- 4.- When the functioning has been regulated as the customer wishes, the working mode of the door can then be chosen on the selector.

6.1 WORKING MODES

These are the different types of operation or statuses in which the door may work. Seven different possible working modes are possible with this automatism:

1.- Door open  (P – A b)

The door opens and remains in its maximum open position.

2.- Door closed



(P – C E)

The door closes and remains closed in this position until the mode is changed. If the electro-lock is installed, the door closes and is blocked so that no-one can enter.

3.- Two-way automatic



(A U – b)

This is the most common working mode. It allows the door to travel in both directions and all the detection devices are enabled. The door remains closed until any of the devices are activated. When this occurs, the door opens and after remaining open for a short time (wait) it closes again until a new detection occurs.

4.- Partial automatic



(A U – P)

The functioning here is the same as for two-way automatic mode, with the difference that the leaves do not go to maximum open position but instead open partially. This opening is user-adjustable (see point 6).

5.- Partial door open



(P – A b)

There is not a separate button for this mode. It uses the same button as door open, and it functions in the same way, the difference being that the door stops at partially open position. This mode only functions when the door has previously been in “partial automatic” mode. If you wish to return to “door open (total)”, press “two-way automatic” first.

6.- Exit only



(S – S A)

The door only functions in exit direction. In exit direction it works in “two-way automatic” mode, and in entry direction its mode is “door closed”.

7.- Pharmacy opening



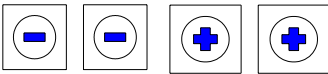
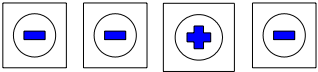
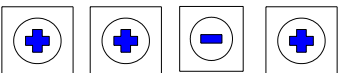
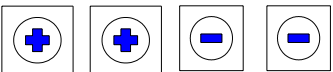
(A – F A)

The electro-lock must be installed for this to function. The door stops in half-open position, with a minimum opening (adjustable), and remains blocked.

7. ADJUSTMENT OF PARAMETERS BY SELECTOR

To adjust the parameters you must start from “door open” working mode. Adjustments cannot be made from any other mode.

There are 4 adjustable parameters:

	FUNCTION (FunC)	STANDARD
	MAIN PARAMETERS (PArA)	ADJUSTEMENTS
	OPENING PARAMETERS (PAAP)	SPECIAL ADJUSTEMENTS
	CLOSING PARAMETERS (PAcL)	(For instalers)

List of parameters

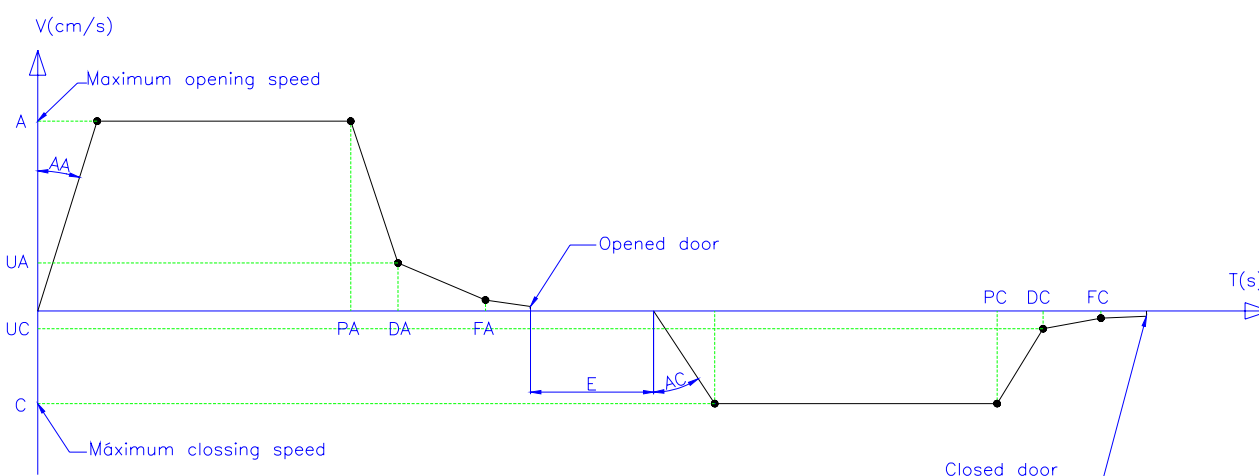
- - + + (FUnc)	<ul style="list-style-type: none"> * “4” (bA-0). Battery functioning (0): panic mode (1): autonomous mode * “2” (rC-0) .Delayed closing (0): deactivated (1): activated * “3” (AI-0) → Emergency operation (0): Door open (1): Door closed * “6” (LA-0) → Emergency signal type (0): Continuous signal (1): Single signal * “5” (-n-0) → Transmitter configuration (0): as selector (1): Press to open
- - + - (PArA)	<ul style="list-style-type: none"> * “4” (A-80) .Maximum opening speed * “5” (E-03) .Wait time open * “6” (C-55) .Maximum closing speed * “2” (P-50) .Partial opening percentage * “3” (b-15) .Closing delay time

++ - +(PAAP)

- * "4" (AA.10) .Acceleration ramp for opening
- * "5" (PA.75) .Deceleration point for opening
- * "6" (DA.80) .Deceleration ramp for opening
- * "1" (FA.05) .Final speed for opening
- * "2" (UA.01) .Minimum deceleration speed for opening
- * "3" (SA.07) . Opening sensitiveness

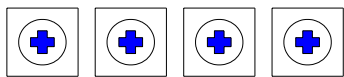
++ - - (PACL)

- * "4" (AC.10) .Acceleration ramp for closing
- * "5" (PC.75) .Deceleration point for closing
- * "6" (DC.80) .Deceleration ramp for closing
- * "1" (FC.05) .Final speed for closing
- * "2" (UC.01) .Minimum deceleration speed for closing
- * "3" (SC.07) . Closing sensitiveness



- SPEED CURVE -

Keyboard lock



→ cod 1 + Timer (10 seg) → LOCKED WITH CODE BY DEFAULT



Cod 2 (on display when a new code is keyed in, e.g. “3458”)



COdE (the new code must be repeated for it to be saved)

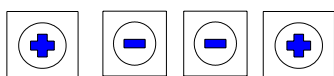
If “+” is pressed 4 times, after 10 seconds it will be locked and the corresponding working mode will appear on the display with dots beneath each digit “P.-.A.b.”
The code must be any number between “1111” and “9998”.

Release

Key in the code previously set from any working mode. When it is keyed in the dots will disappear from the display and the selector will be activated.

Return to initial parameters. Default parameters

After making the adjustments to the displacement curves, in some cases you may reach a point where you consider the curve calculated by the micro on the first reset to be better. In this case you have the option of returning to the initial curves.



+ CODE (the release number)

The automatism will then begin a reset operation and will return to the initial curves.

8. ANEXES

8.1 MAINTENANCE

The automatic door installations need regular maintenance. The frequency of this will depend on weather conditions and amount of traffic.

- 1.-Remove dust and dirt from the mechanism. Dirt in the running track should be removed with methylated spirit.
- 2.-No parts need oiling. The notched belt must be kept clean and dry.
- 3.-Check that all the nuts and bolts are correctly fixed in place.
- 4.-If necessary, adjust the speeds of the moving leaves and the time the door remains open, and make sure the position of the moving leaves is in accordance with the regulations and requirements in force.

8.2 GUARANTEE

ERREKA Automatic Doors remind you that once installation is complete, they have no liability for any possible damages caused by an installation not in accordance with this Installation Manual.