

Installation manual.

VERSA · Magnetic system for automatic interior doors

Table of contents.

01	Introduction	03
02	General rules	03
	2.1 Usage warnings	03
	2.2 Residual risks	04
	2.3 Noise and vibration	04
	2.4 Transport and handling	04
	2.5 Warranty	05
	2.6 Disposal and recycling	05
03	Pre-installation requirements	05
	3.1 Preliminary checks and stability conditions	05
	3.2 Safety conditions in special situations	06
	3.3 Tools required	06
04	VERSA system	06
	4.1 Main components	06
05	Measurement and installation	07
	Step 1 Sections, plan and elevations	08
	Step 2 Cutting the system	11
	Step 3.1 System installation	13
	Step 3.2 Wooden leaf installation	16
	Step 4 Accessory installation	21
	Step 5 Commissioning and system configuration	30
06	Technical parameters	32
07	I/O Board (Master) and driver LED description	37
08	Malfunction codes and solutions	38
	8.1 Action in case of malfunction	38
	8.2 Malfunction codes	38
09	Dismantling	40
10	Final verification in accordance with UNE-EN 16005	41
	10.1 Declaration of incorporation	42

01

Introduction.

All VERSA magnetic systems are supplied with an identification label showing the designation of the machinery, which allows their correct identification in accordance with the provisions of the Machinery Directive 2006/42/EC. In the event of technical enquiries, service requests or complaints, the data shown on that label must always be stated.

Before any intervention on the product, it is recommended to check that the material indicated on the packaging label corresponds to the material ordered and to that detailed on the delivery note, and to verify that the components have not been damaged during transport.



If you detect any anomaly or discrepancy, or if you need help from technical support, please provide the serial number (XXXXXX-YYYY) to the Technical Service.

02

General rules.

This manual contains the information required for the correct installation, adjustment and commissioning of the automatic sliding door equipped with the VERSA magnetic system. Before starting any intervention, it is essential to read this manual carefully and in full and to observe all the instructions and safety warnings it contains. The installation, adjustment, commissioning and configuration of the system must be carried out exclusively by qualified technical personnel, following the instructions described here and complying with the applicable regulations in force, in particular UNE-EN 16005.

2.1 Usage warnings

The VERSA magnetic system for automatic interior doors is intended for the automation of interior pedestrian sliding doors, for the passage of people, and must be installed and used exclusively in indoor environments, in accordance with the technical and safety limitations established by the manufacturer and with the regulations in force, in particular the Machinery Directive 2006/42/EC and standard UNE-EN 16005. Any use other than that described will be considered unintended or incorrect use.

In particular, incorrect use includes, among others:

- Installation or use of the product outdoors or in environments not protected from the weather or with excessive humidity.
- Installation on escape routes, emergency exits or fire doors or fire-resistant doors.
- Use of the automatic door for purposes other than pedestrian use.
- Exceeding the maximum admissible leaf weight of 80 kg or the technical limits indicated by the manufacturer.
- Tampering with, disabling or disconnecting the safety devices.
- Adjustments, repairs or modifications carried out by unqualified personnel.
- Use of components, accessories or spare parts not approved by the manufacturer.
- Any structural modification of the door or the system without the manufacturer's express authorisation.

Any unintended or incorrect use releases Klein Ibèrica S.A.U. from all civil or criminal liability for any damage to persons, animals or property resulting from:

- Failure to follow the instructions in the installation, user and maintenance manual.
- Unauthorised tampering with the product or replacement of parts or components of the system, as well as the use of accessories that are not original or approved by the manufacturer.
- Removing or altering the labels or markings originally placed on the magnetic system or its accessories.
- Placing oneself in the path of the automatic door, or working near parts that may be moving.

2.2 Residual risks

Although the VERSA magnetic system has been designed and manufactured to ensure safe operation and the necessary complementary protective measures have been adopted, residual risks may persist.

Automatic doors involve risks of crushing, cutting and impact. Depending on the structural conditions, the door version and the safety equipment, these risks may not be completely eliminated.

In accordance with European standard UNE-EN 16005, the travelling area of an automatic door must always be protected, to prevent as far as possible the impact of the leaf on persons. To eliminate these risks, the VERSA system adopts the following measures:

- The possibility of using safety sensors, which detect both the movement and the presence of persons and objects in the clear opening area.
- "Low energy" mode (LE): Depending on the weight of the leaf, its speed is reduced to a preset value in the closing cycle, so that the dynamic energy of the leaf and the contact force are lower than those permitted by the aforementioned standard.
- Automatic lock release in the event of a power failure, if fitted.

In the event of loss of signal from a safety sensor during movement, the system immediately stops the leaf and does not resume the cycle until the sensor recovers the signal. In the event of loss of communication between the driver and the I/O Board (ERROR 22), the door remains in the rest position. In all cases, the leaf can be moved manually with a force of less than 20 N.

2.2.1 Danger points by zone

ZONE	RISK	PREVENTIVE MEASURE
Leading edge of the leaf	Finger crushing during opening	Mandatory safety sensor (active presence field)
Trolley sliding area	Cutting due to access to the profile during movement	Do not access the profile while the door is moving
End stop (open position)	Impact due to unexpected closing	Adjust P1 (open pause time) and P27 (end stop distance)
Electrical connections	Electric shock	Disconnect the power supply before any intervention

2.3 Noise and vibration

A-weighted sound power level (LWA): below the mandatory declaration threshold (<70 dB(A)). No declaration of noise values is required in accordance with Directive 2006/42/EC, Annex I, section 1.7.4.

To minimise the noise level during operation: adjust the opening and closing speed to the minimum value that allows the intended use (parameters P2 and P3). Ensure that the end stops are correctly positioned and fixed. Verify that the leaf does not rub against the floor guide or the profile. The VERSA magnetic system does not require lubrication of the running tracks.

2.4 Transport and handling

The VERSA magnetic system must be transported, handled and stored safely, avoiding impacts, falls, deformation of the profile or damage to the electrical and magnetic components.

- During transport and handling: It is recommended to keep the product in its original packaging until the time of installation. Handling must be carried out by qualified personnel, holding the system evenly and avoiding concentrated stresses.
- During storage: The product must be kept in a dry place, protected from the weather, dirt or construction debris, humidity and direct exposure to sunlight, avoiding unstable supports or improper stacking.

The weight of the VERSA magnetic system depends on the length configured for each installation. The assembly has no critical centres of gravity and does not require special lifting equipment when handled.

2.5 Warranty

The product has a 2-year warranty from the date of the sales invoice. This warranty will be void if:

- Installation, use or maintenance has not been carried out in accordance with the instructions in this manual.
- Parts, components or accessories that are non-original or not approved by the manufacturer have been used.

2.6 Disposal and recycling

The packaging materials and the components of the VERSA magnetic system must be disposed of in accordance with the environmental regulations in force at the place of installation. The packaging materials are similar to municipal solid waste, so by sorting them selectively for recycling they can be easily disposed of. At the end of the product's service life:

- Materials such as aluminium, steel, plastics and electrical wiring must be recycled at authorised centres.
- Other components (circuit boards, batteries, capacitors, magnets, etc.) must be managed through specialised companies for their assessment, sorting and disposal.

Contribute to the protection of the environment through responsible waste management.

03

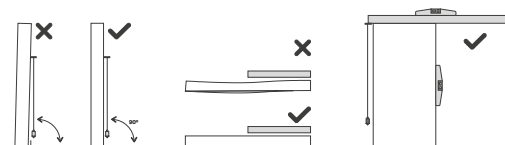
Pre-installation requirements.

Before starting the installation of the automatic sliding door equipped with the VERSA magnetic system, it is essential to check that all the preliminary conditions described in this section are met. Failure to comply with any of these requirements may affect the proper operation of the installation and compromise the safety of persons.

3.1 Preliminary checks and stability conditions

Before proceeding with the installation, the following technical, environmental and structural conditions must be verified:

- The fixing surface (ceiling, wall or beam) must be solid, stable and capable of supporting the loads transmitted by the automatic door. The system must be perfectly level in all three axes.
- The stability of the VERSA magnetic system for automatic interior doors is guaranteed only when the installation is carried out in accordance with the instructions in this manual and by means of a permanent and suitable fixing to a solid load-bearing structure (wall, ceiling or recessed structure).
- The leaf must be rigid, stable and suitable for automation, with a maximum admissible weight of 80 kg.
- It must be possible to move the leaf manually, smoothly and continuously along its entire travel, without tight spots, friction or interference.
- The leaf must be perfectly vertical and balanced, without inclination or deformation. The gap between the leaf (glass, wood or other material) and the floor must be adequate to prevent rubbing or interference during movement.
- The installation must be carried out in indoor environments, protected from the weather, excessive humidity and possible condensation.
- The ambient temperature must be within the permitted operating range, between +5 °C and +40 °C.
- The installation must have a power supply and connections that comply with the technical specifications of the product and the electrical regulations in force.
- The power supply line must be protected by the appropriate safety devices.
- It must be possible to disconnect the power supply safely during installation, adjustment and maintenance operations.

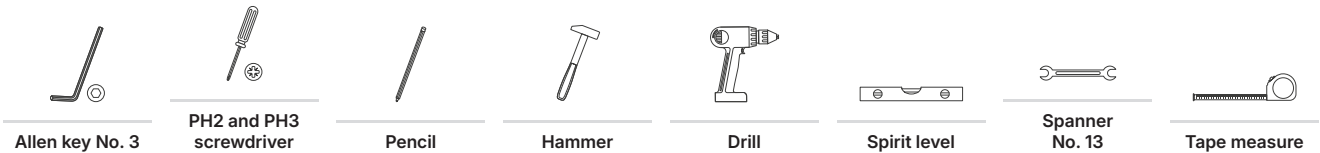


3.2 Safety conditions in special situations

During normal operation, the stability of the installation depends on the correct fixing of the system and the proper suspension of the leaf. **Any intervention on these elements must be carried out with the power supply disconnected and the moving leaf secured to prevent unintended movement.** When out of service, during testing or in the event of a foreseeable breakdown, the VERSA magnetic system must remain fixed to its support and the leaf secured, so that no uncontrolled movement can occur.

3.3 Tools required

To install the VERSA magnetic system correctly, it is recommended to have suitable tools available before starting work. The use of appropriate tools will facilitate assembly, ensure correct fixing of the components and contribute to a safe installation:



04

VERSA system.

The VERSA magnetic system for automatic interior doors is a compact and versatile drive system, designed for the automation of pedestrian sliding doors in indoor environments.

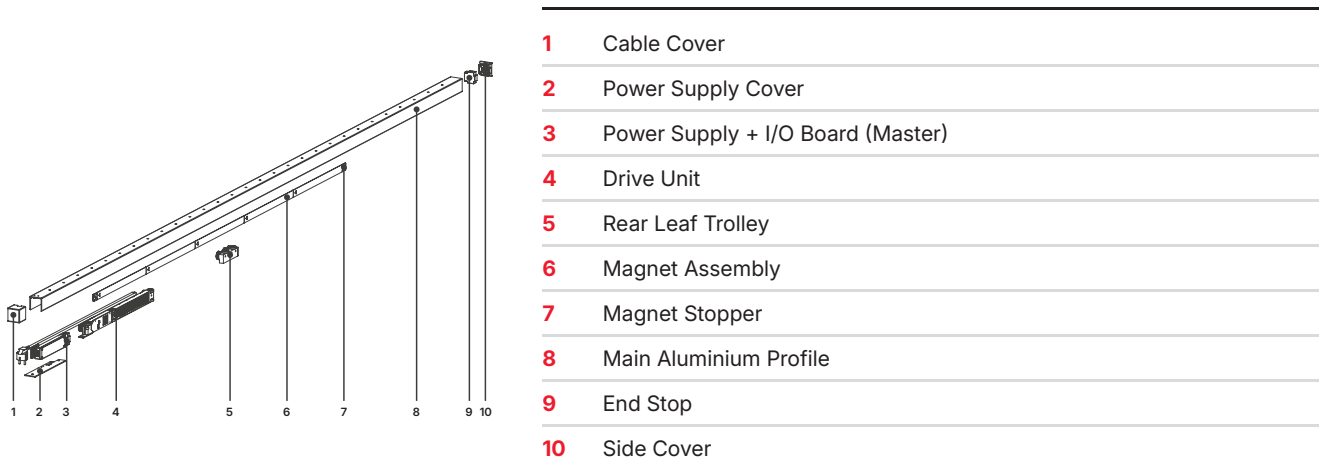
Its ultra-compact design, measuring 45 × 46 mm, allows discreet and aesthetic integration into different types of installation, without compromising the performance or safety of the system. Magnetic drive technology allows smooth, controlled and quiet movement of the leaf, in accordance with the safety requirements established in the regulations in force, in particular UNE-EN 16005.

4.1 Main components

The system is supplied with the components required for its correct installation and operation. It can also be purchased with compatible accessories supplied or authorised by the manufacturer, such as:

- Wall or recessed fixing systems.
- Suspension systems for wooden, glass or aluminium leaves.
- Activation devices (proximity sensors, push-buttons, remote controls).
- Safety devices (infrared sensors).
- Automatic lock.
- Operating mode selector.

Before starting assembly, it is recommended to verify that all items are present and in good condition, and to become familiar with their identification:



05

Measurement and installation.

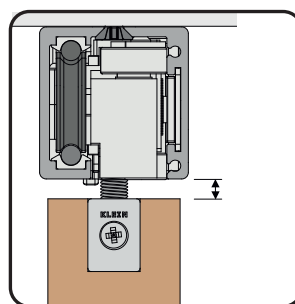
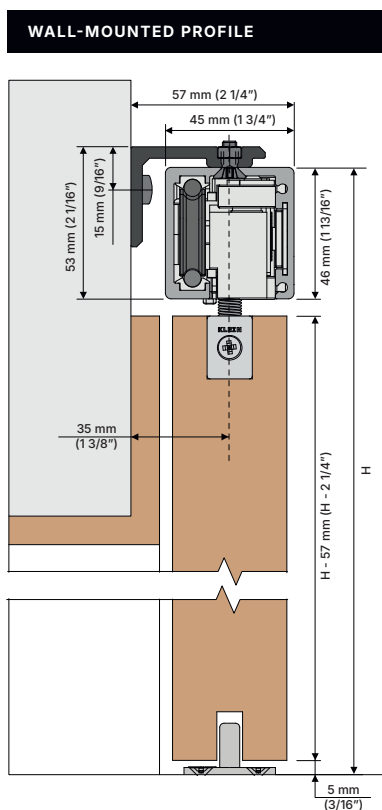
The VERSA magnetic system allows different installation configurations depending on the type of leaf, the suspension system, the support and the dimensions of the opening.

Before cutting the system or assembling the system, it is essential to follow the correct order of preparation described below:

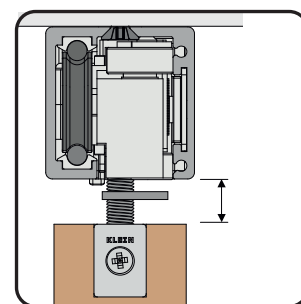
Step 1	Fill in only one of the following calculation sheets, depending on the type of leaf to be installed:		
	▪ Dimension calculation for wooden leaf		→ Page 8
Step 2	Determine whether the system needs to be cut:		
	▪ Yes, it is necessary		→ Page 11
	▪ No, the system is already the right length		→ Continue with STEP 3
Step 3	Install the system according to the type of installation. Refer to the corresponding sections in order, according to the following table:		
	Step 3.1	Wall-mounted	Page 13
	System installation	Ceiling-mounted	Page 14
		Between partitions	Page 15
	Step 3.2	Wood	Page 16
	Leaf installation	Wood between partitions	Page 18
Step 4	Accessory installation		
	▪ General wiring diagram		→ Page 21
	▪ Activation and safety sensor (Flex-T)		→ Page 23
	▪ Activation and safety sensor (Mirage T)		→ Page 24
	▪ Activation and safety sensor (Dual T)		→ Page 25
	▪ Proximity sensor		→ Page 26
	▪ Bathroom mode		→ Page 27
	▪ Remote control		→ Page 28
	▪ Digital selector		→ Page 29
Step 5	Commissioning and system configuration		→ Page 30

Step 1

Sections, plan and elevations · VERSA RETRAC.



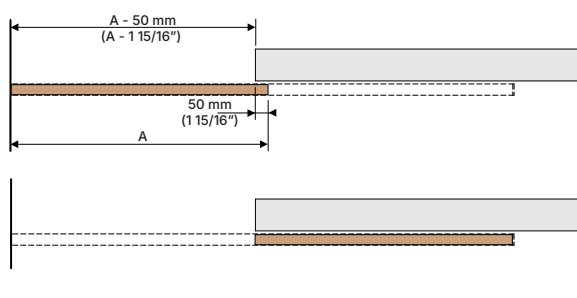
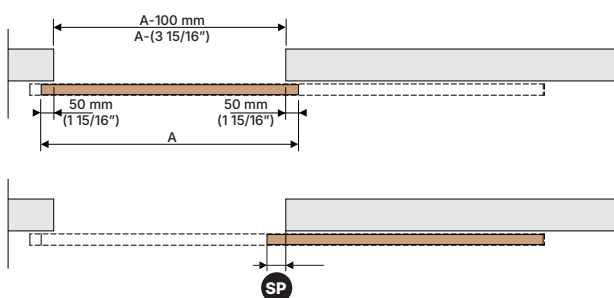
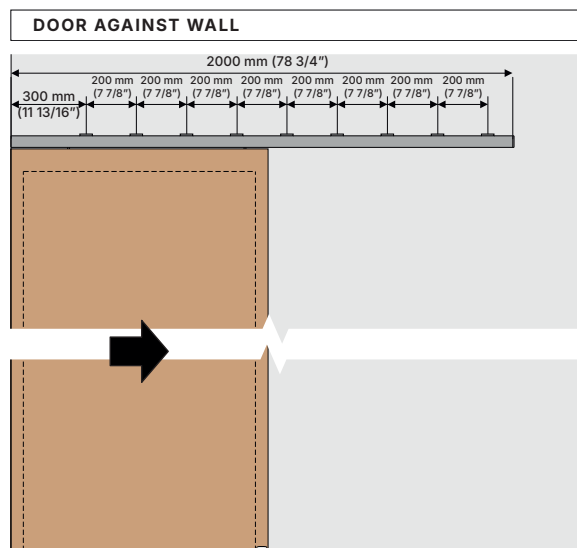
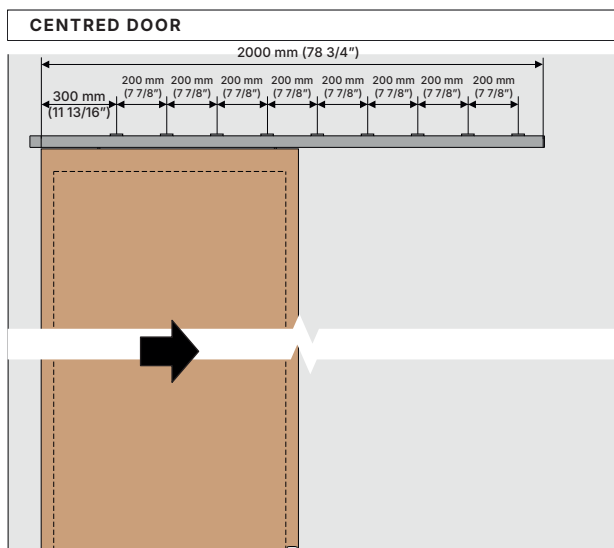
WITHOUT LOCK
6 ± 2 mm (1/4" ± 1/16")



WITH LOCK
11 ± 2 mm (7/16" ± 1/16")

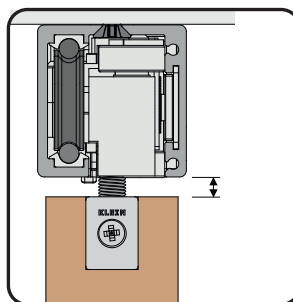
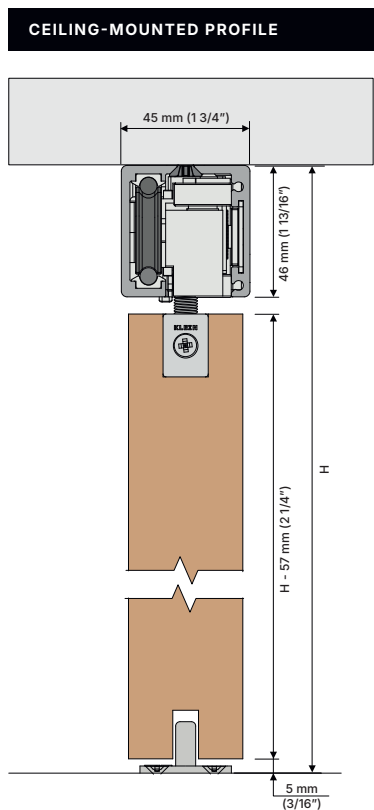
DOOR WIDTH FORMULAS

SP = 0 mm	870 mm (34 1/4") ≤ A ≤ 1,025 mm (40 3/8")
SP = 50 mm (1 15/16")	900 mm (35 7/16") ≤ A ≤ 1,050 mm (41 5/16")
SP = 100 mm (3 15/16")	920 mm (36 1/4") ≤ A ≤ 1,075 mm (42 5/16")
SP = 150 mm (5 15/16")	950 mm (37 3/8") ≤ A ≤ 1,100 mm (43 5/16")

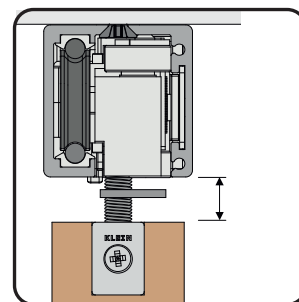


Step 1

Sections, plan and elevations · VERSA RETRAC.



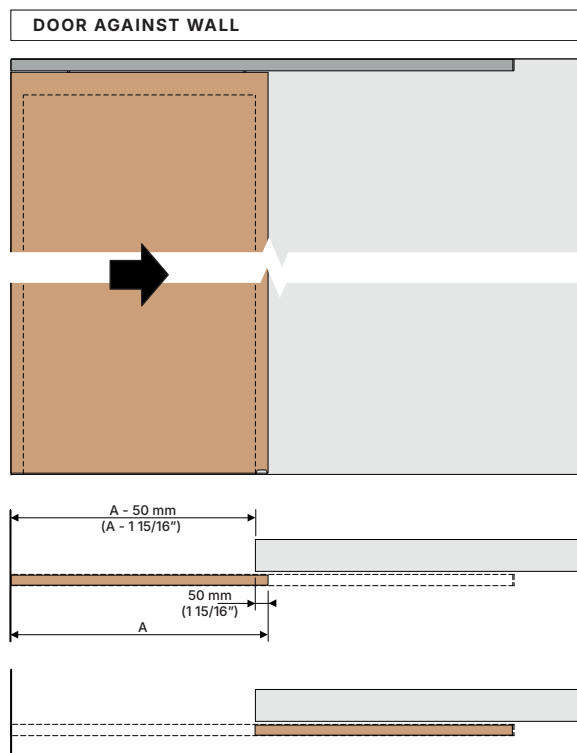
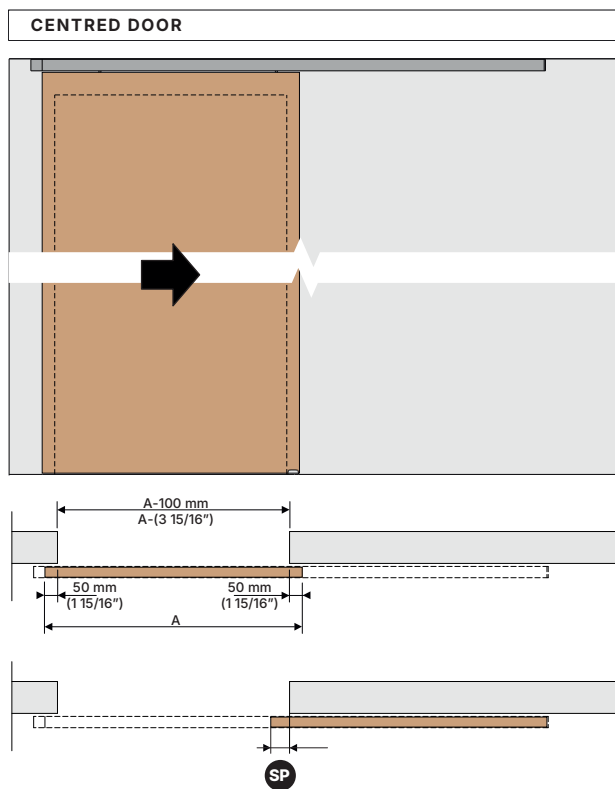
WITHOUT LOCK
6 ± 2 mm (1/4" ± 1/16")



WITH LOCK
11 ± 2 mm (7/16" ± 1/16")

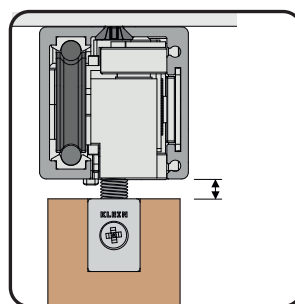
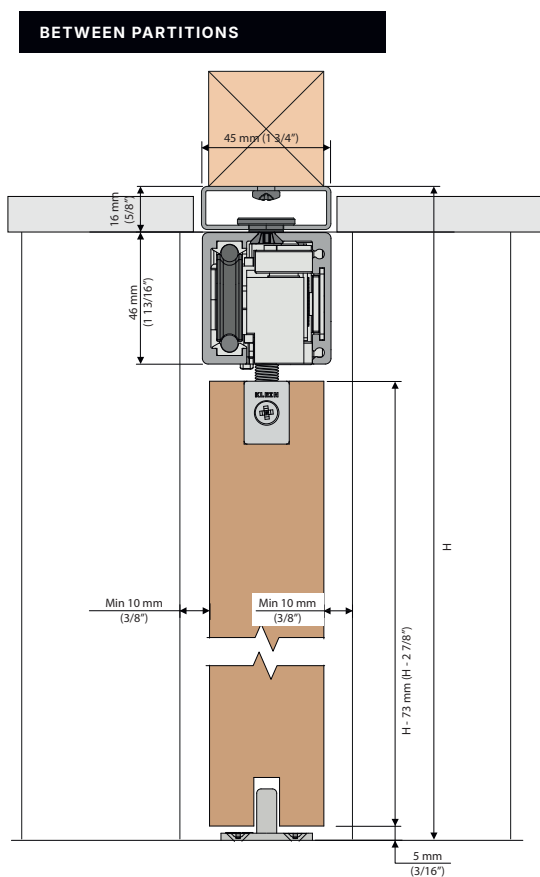
DOOR WIDTH FORMULAS

SP = 0 mm	870 mm (34 1/4") ≤ A ≤ 1,025 mm (40 3/8")
SP = 50 mm (1 15/16")	900 mm (35 7/16") ≤ A ≤ 1,050 mm (41 5/16")
SP = 100 mm (3 15/16")	920 mm (36 1/4") ≤ A ≤ 1,075 mm (42 5/16")
SP = 150 mm (5 15/16")	950 mm (37 3/8") ≤ A ≤ 1,100 mm (43 5/16")

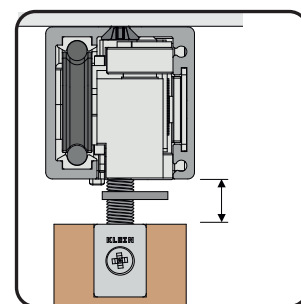


Step 1

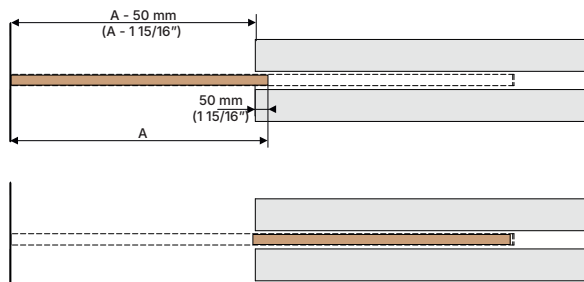
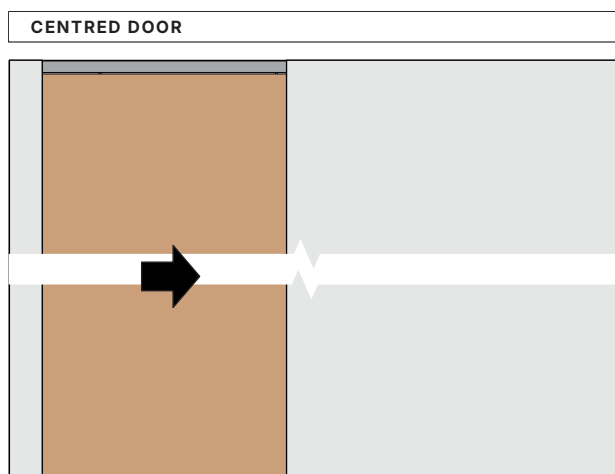
Sections, plan and elevations · VERSA RETRAC.



WITHOUT LOCK
6 ± 2 mm (1/4" ± 1/16")



WITH LOCK
11 ± 2 mm (7/16" ± 1/16")

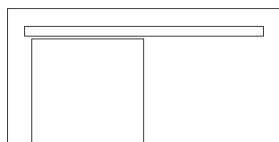


Step 2

Cutting the system.

The VERSA magnetic system can be cut to different lengths to suit the leaf width of the installation, without the need to remove magnets, provided that the leaf width (SW) remains within the permissible range according to the profile length and the type of installation.

! Do not cut the profile outside the ranges shown in the following table. Doing so could result in the motor not having full magnet coverage along its entire travel and, consequently, in the system not operating correctly.



Without side wall

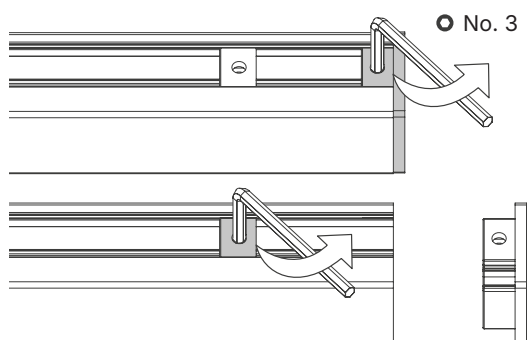


With side wall

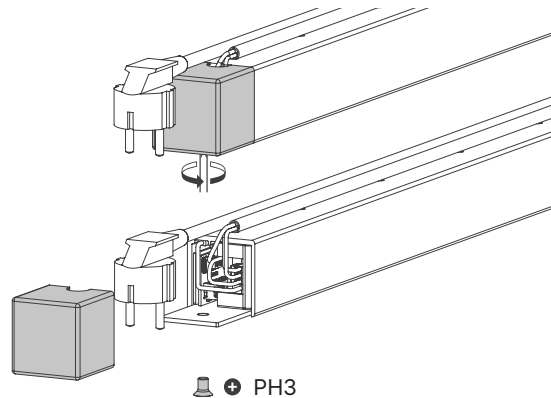
VERSA SYSTEM	SW	PROFILE LENGTH*	SW	PROFILE LENGTH*
PF. VERSA 2m	870 - 1025 mm	1690 - 2000 mm	770 - 1025 mm	1690 - 2000 mm
PF. VERSA 3m	1025 - X mm	X - X mm	1025 - X mm	X - X mm

! The aluminium profile is always measured and cut without covers; the covers are parts added after cutting.
DL is the final dimension of the assembled system, including covers; the profile length to cut is always less than DL.
DL = 45 (cable cover, if fitted) + Profile Length + 5 (side cover)

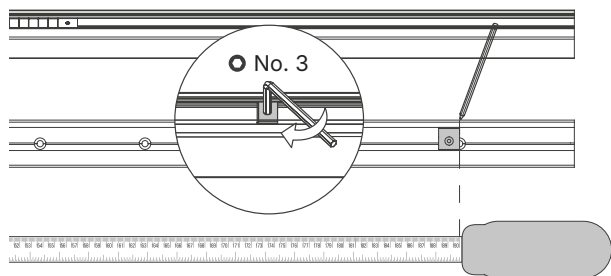
2.1 Remove the side cover and loosen the end stop



2.2 Remove the cable cover (if applicable)

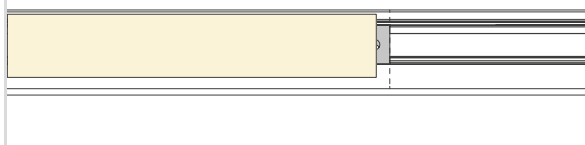


2.3 Mark the profile length and fix the end stop



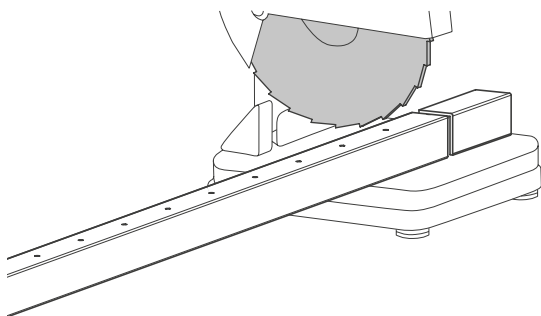
2.4 Protect the profile during cutting

Before cutting, temporarily cover the profile (for example, with masking tape) to prevent metal swarf from getting inside the track during cutting.



Step 2 · Cutting the system (continued)

2.5 Cut the profile

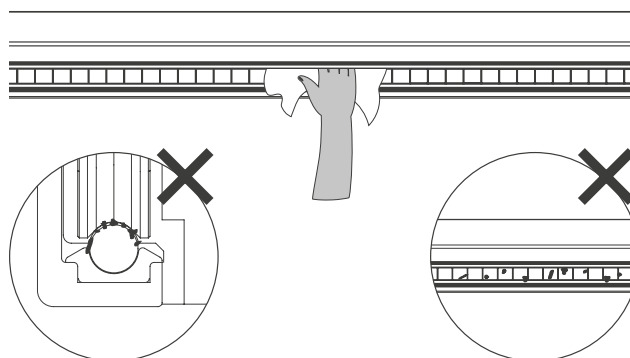


Use a cut-off saw with a disc compatible with stainless steel and aluminium. If a suitable cut-off saw is not available, an angle grinder with a metal cutting disc can be used; verify that the cut is clean, perpendicular and free of burrs.

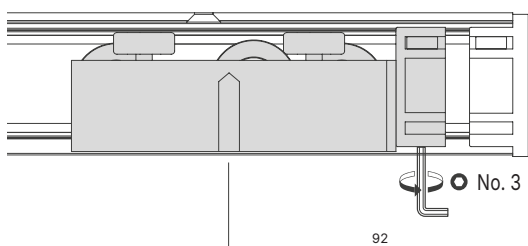
2.6 Clean the profile

It is mandatory to leave the magnet assembly and the running track completely free of swarf before continuing with assembly.
The presence of swarf in the track can damage the graphite brush or prevent the motor from operating correctly.

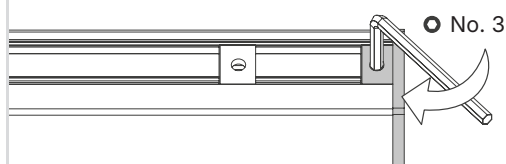
! Verify that the profile is clean and free of swarf.



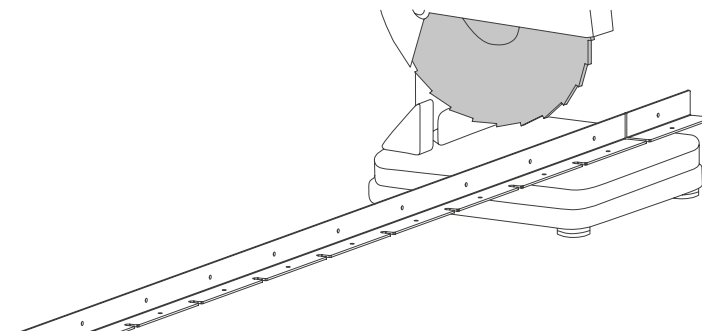
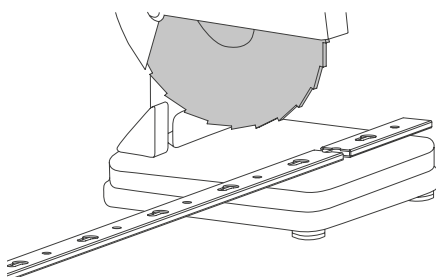
2.7 Fix the end stop at the dimension shown



2.8 Fix the side cover



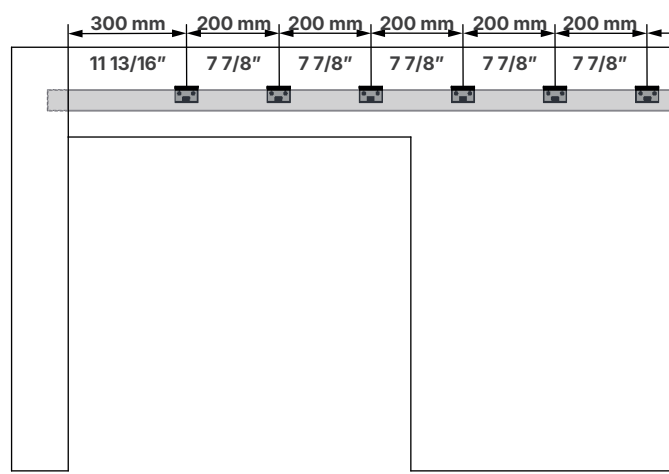
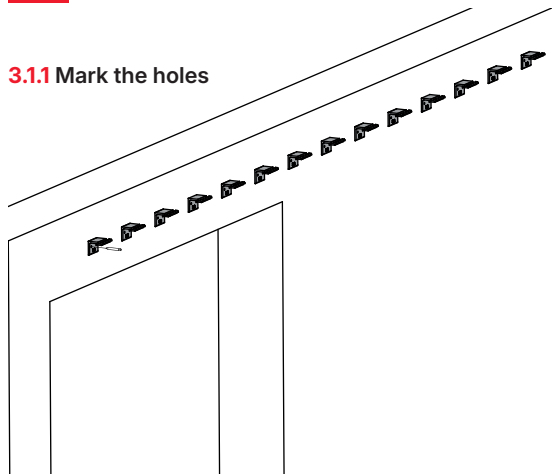
2.9 Cut the fixing profile, depending on the installation, to the same length as the profile



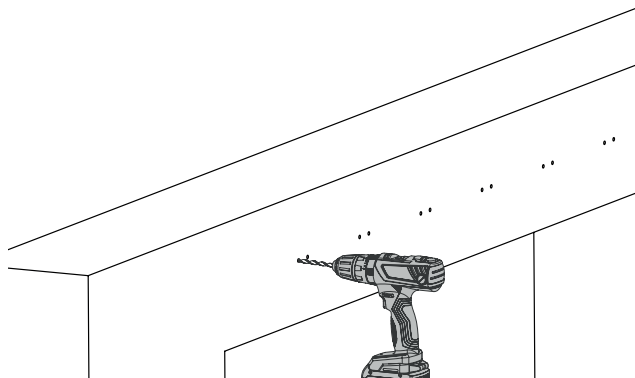
Step 3.1

Wall installation.

3.1.1 Mark the holes

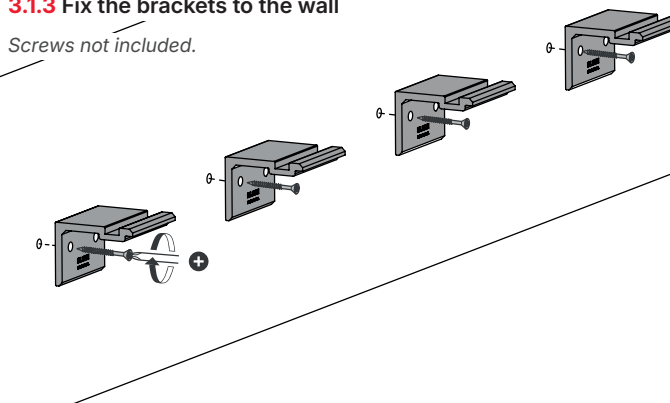


3.1.2 Drill the holes

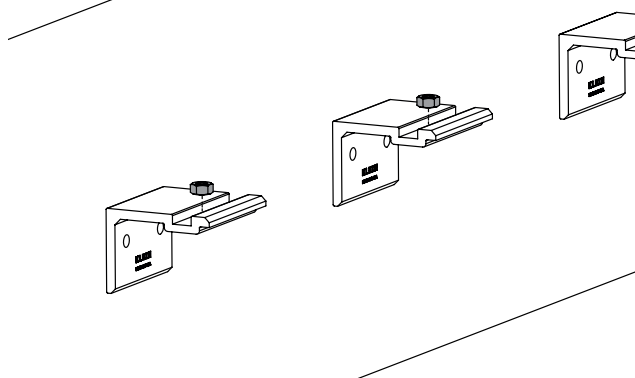


3.1.3 Fix the brackets to the wall

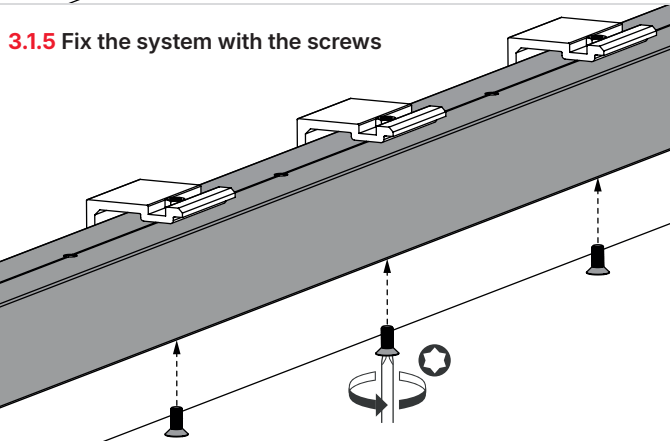
Screws not included.



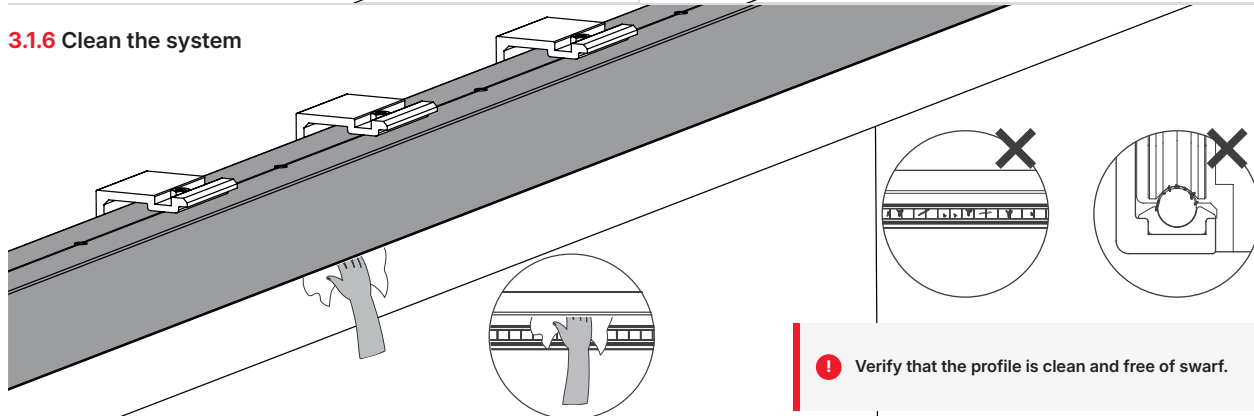
3.1.4 Fit the nuts



3.1.5 Fix the system with the screws



3.1.6 Clean the system

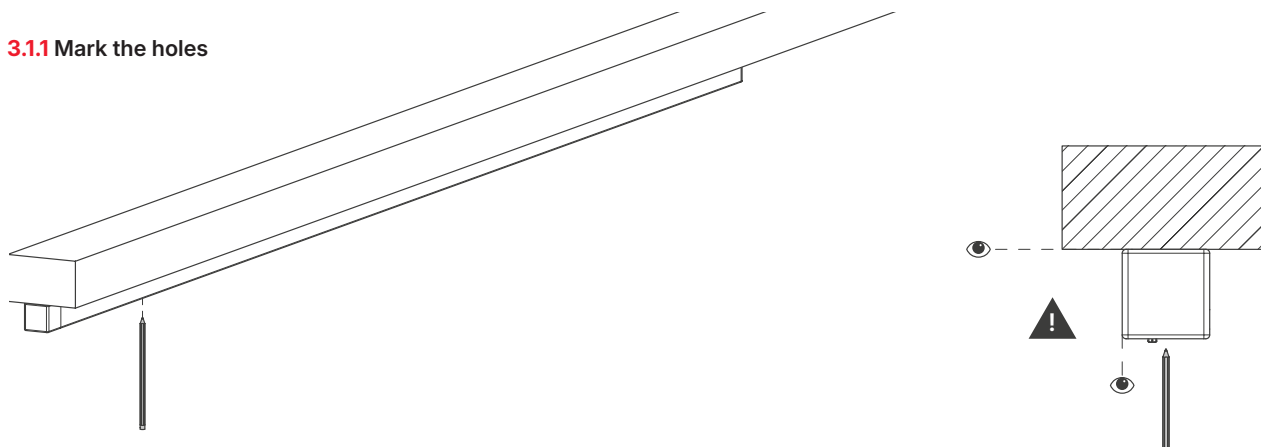


! Verify that the profile is clean and free of swarf.

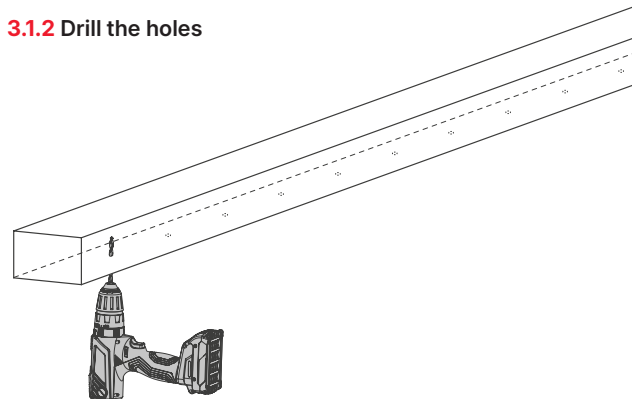
Step 3.1

Ceiling installation.

3.1.1 Mark the holes

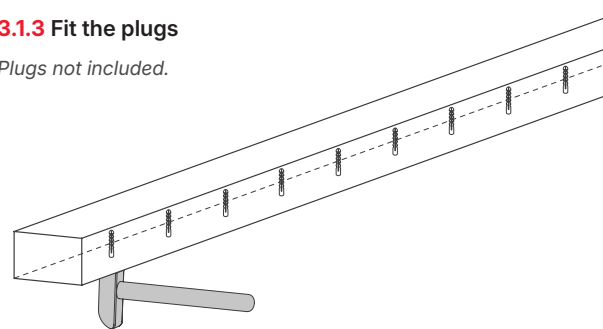


3.1.2 Drill the holes



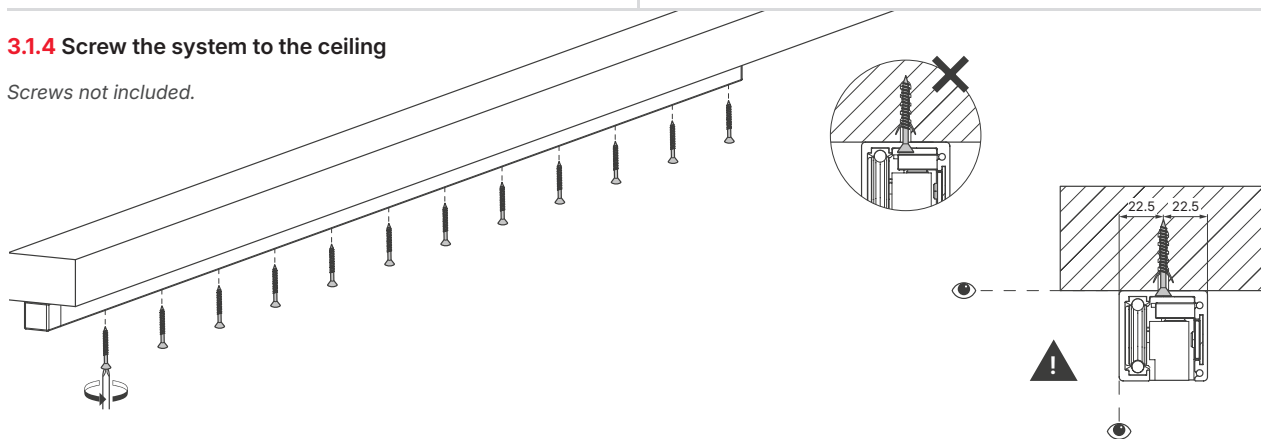
3.1.3 Fit the plugs

Plugs not included.

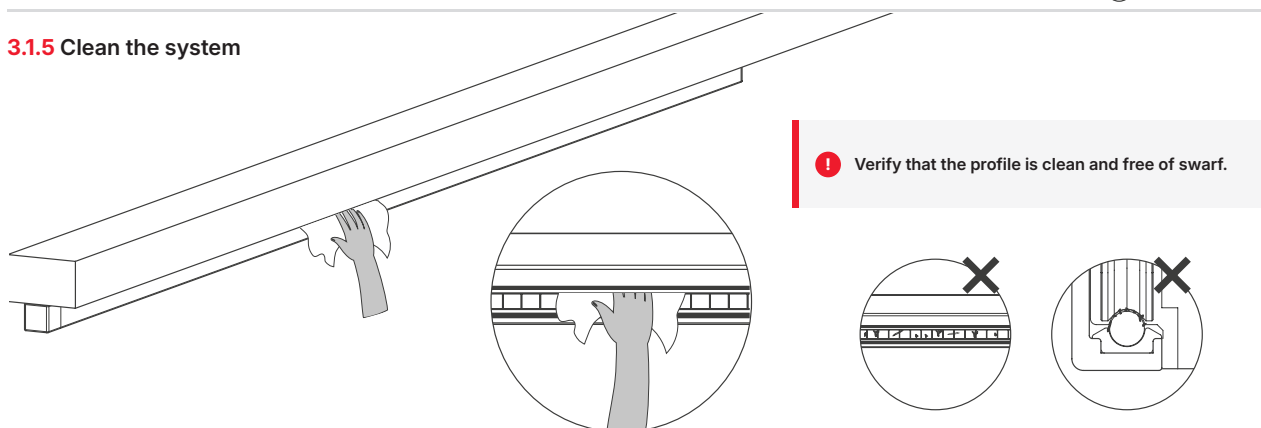


3.1.4 Screw the system to the ceiling

Screws not included.



3.1.5 Clean the system

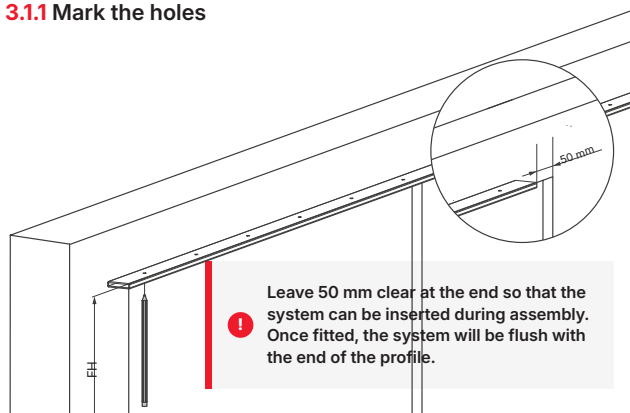


! Verify that the profile is clean and free of swarf.

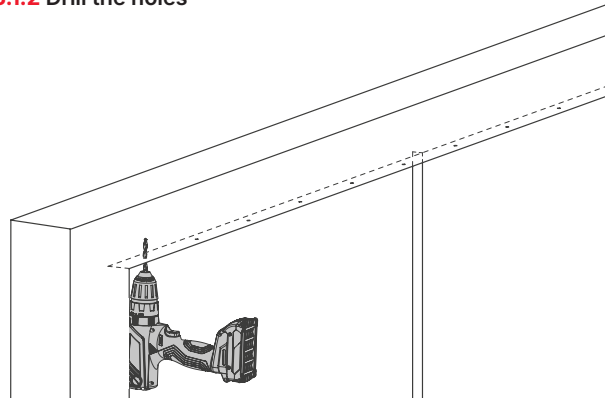
Step 3.1

Installation between partitions.

3.1.1 Mark the holes

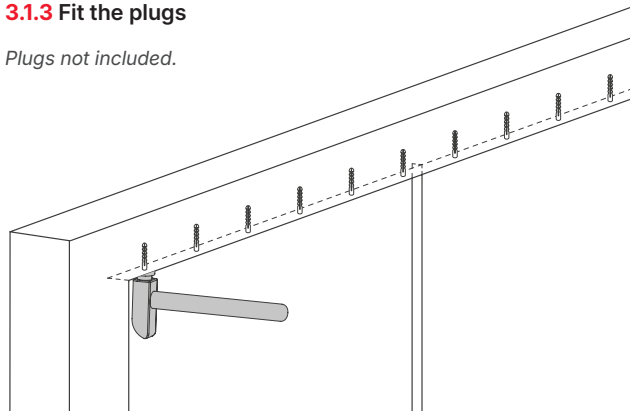


3.1.2 Drill the holes



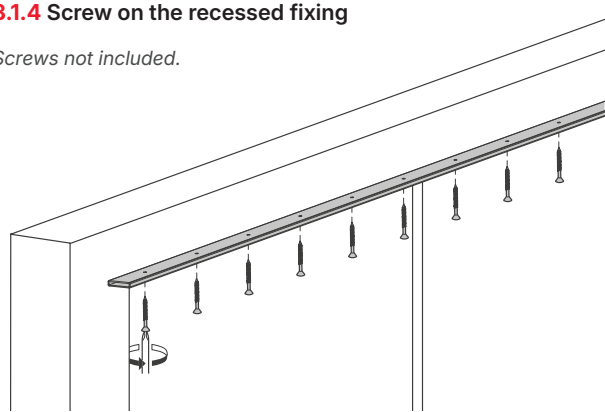
3.1.3 Fit the plugs

Plugs not included.



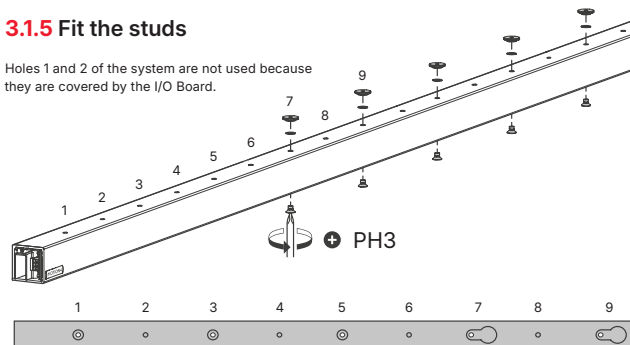
3.1.4 Screw on the recessed fixing

Screws not included.



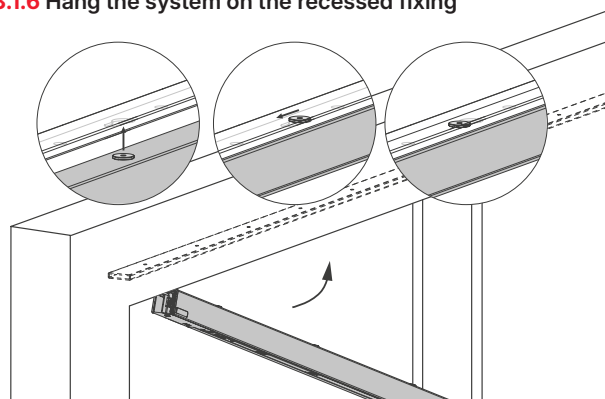
3.1.5 Fit the studs

Holes 1 and 2 of the system are not used because they are covered by the I/O Board.

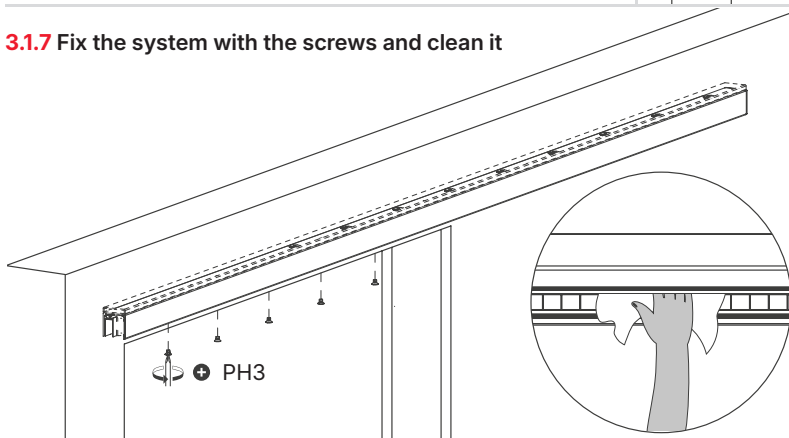


1,3,5: Used to fix the adapter profile to the ceiling.
4,6,8,...: Used to fix the system to the adapter profile.
7,9,...: Used to fix the adapter profile to the ceiling and to receive the stud.

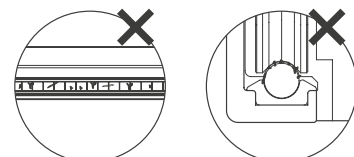
3.1.6 Hang the system on the recessed fixing



3.1.7 Fix the system with the screws and clean it



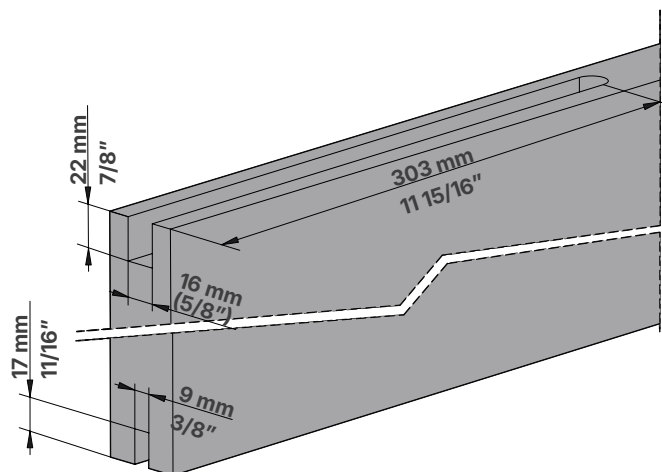
! Verify that the profile is clean and free of swarf.



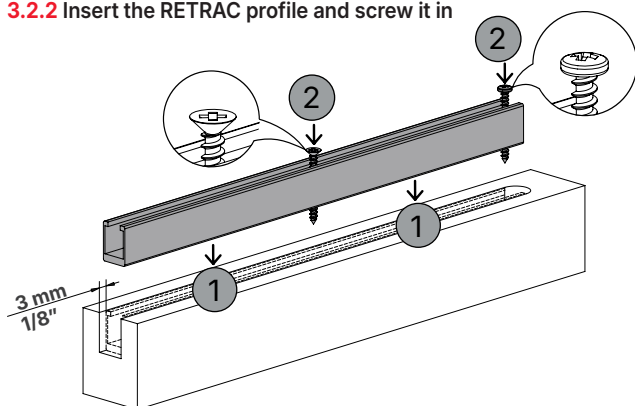
Step 3.2

Wooden leaf installation.

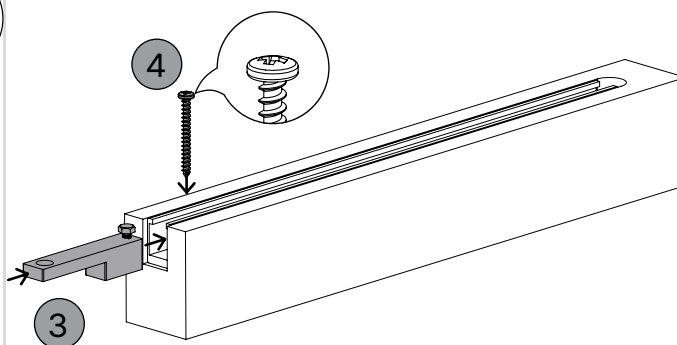
3.2.1 Rout the door



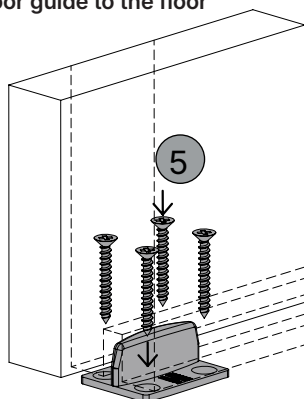
3.2.2 Insert the RETRAC profile and screw it in



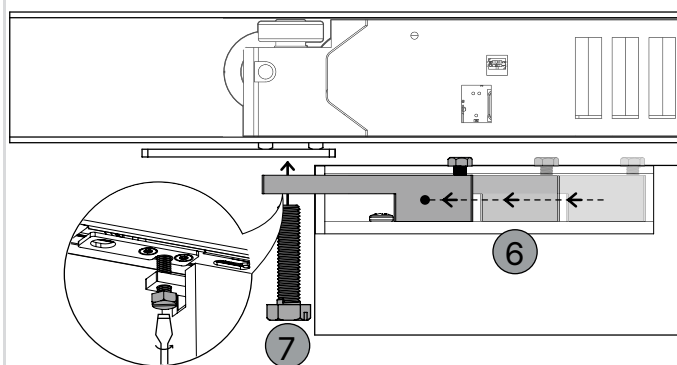
3.2.3 Insert the suspension body into the profile



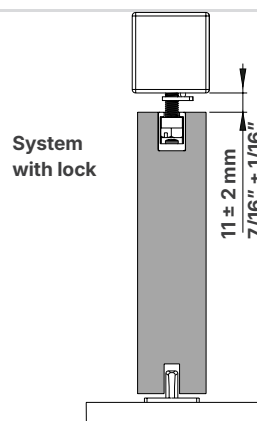
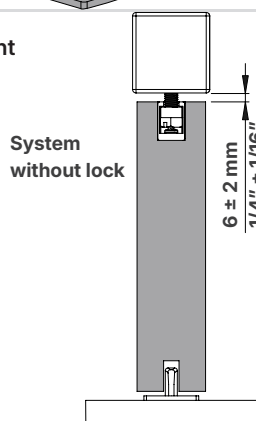
3.2.4 Fix the floor guide to the floor



3.2.5 Screw the suspension body to the roller

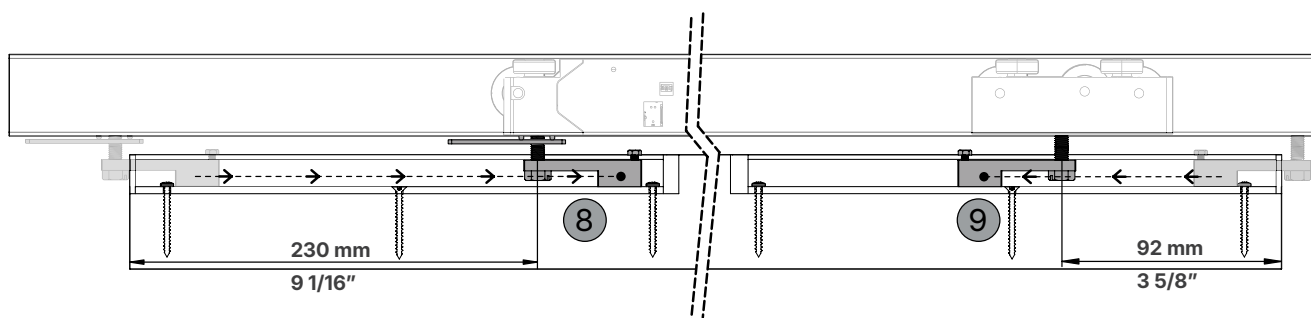


3.2.6 Adjust the height

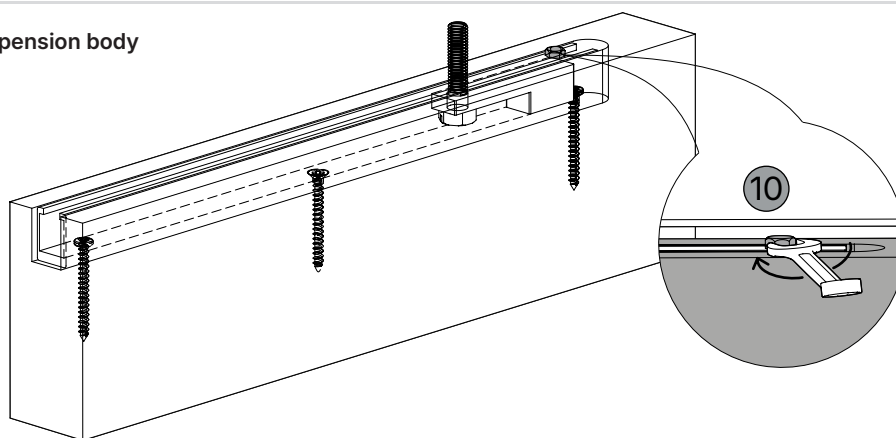


Step 3.2 · Wooden leaf installation (continued)

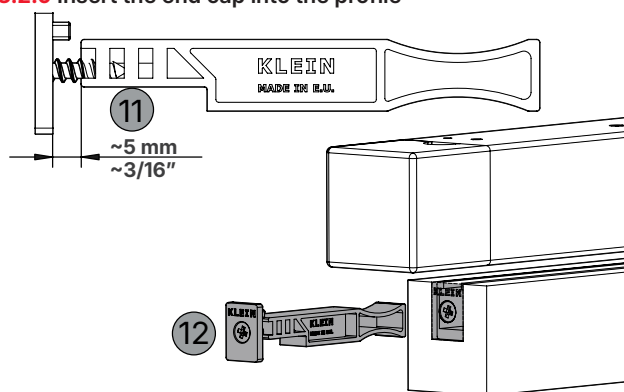
3.2.7 Move the suspension body to the dimension shown



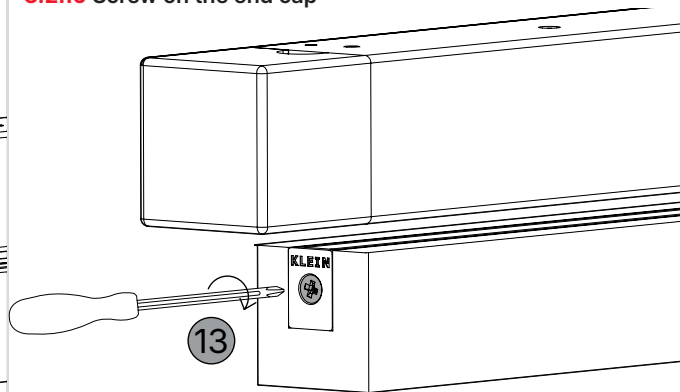
3.2.8 Fix the suspension body



3.2.9 Insert the end cap into the profile



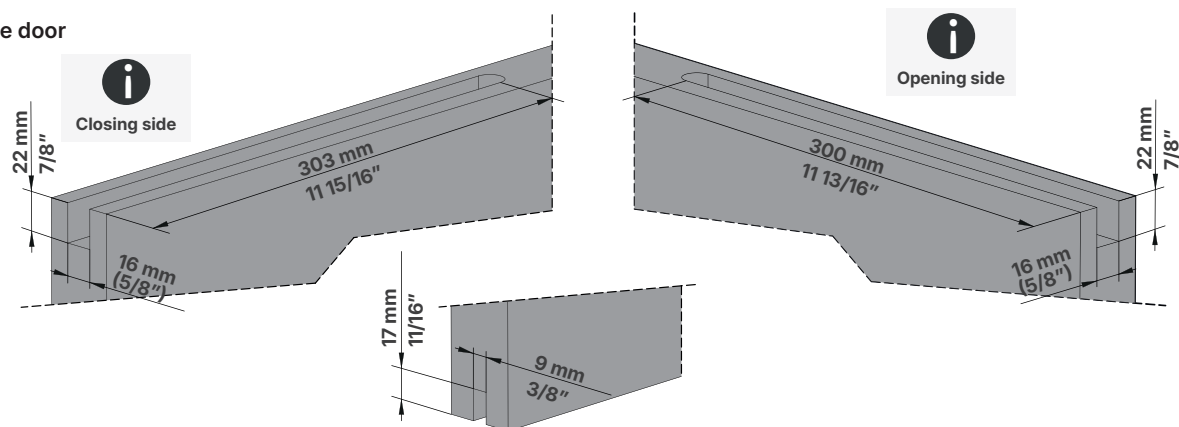
3.2.10 Screw on the end cap



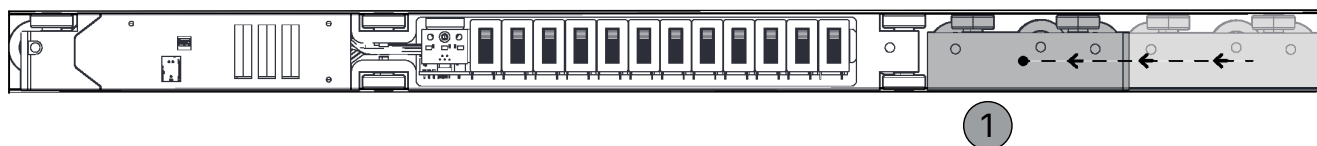
Step 3.2

Wooden leaf installation between partitions.

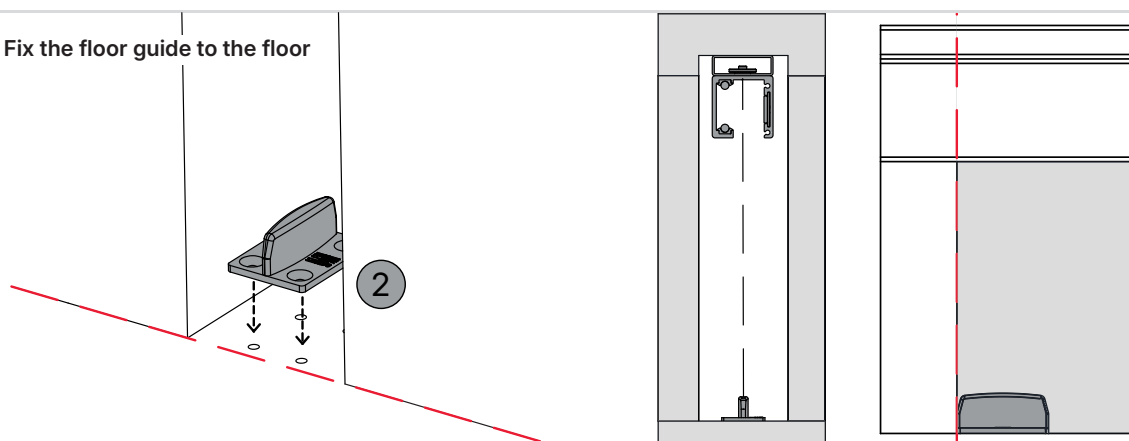
3.2.1 Rout the door



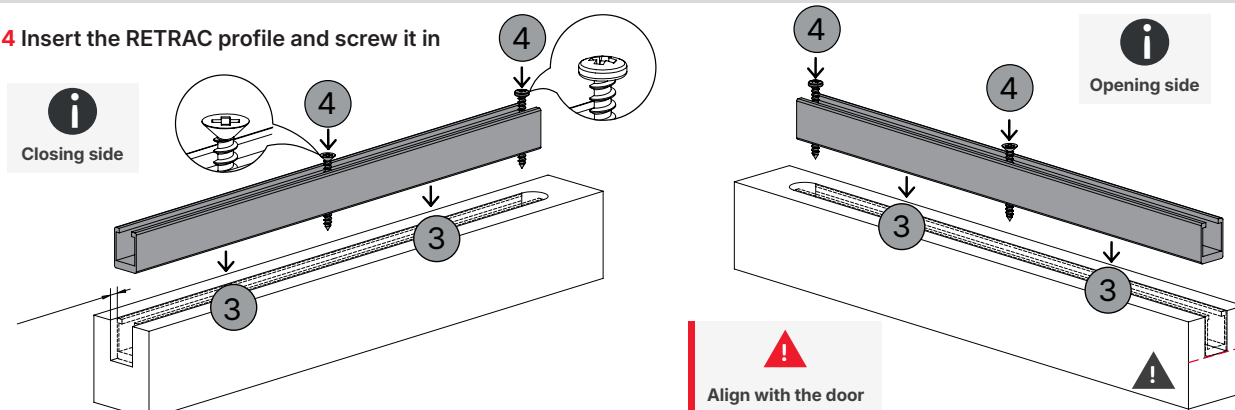
3.2.2 Move the small roller to the passage area



3.2.3 Fix the floor guide to the floor

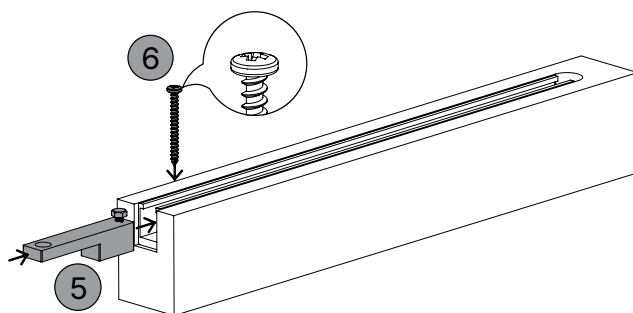


3.2.4 Insert the RETRAC profile and screw it in

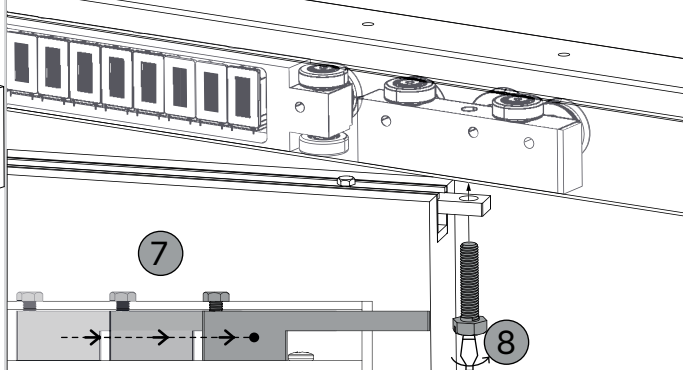


Step 3.2 · Wooden leaf installation between partitions (continued)

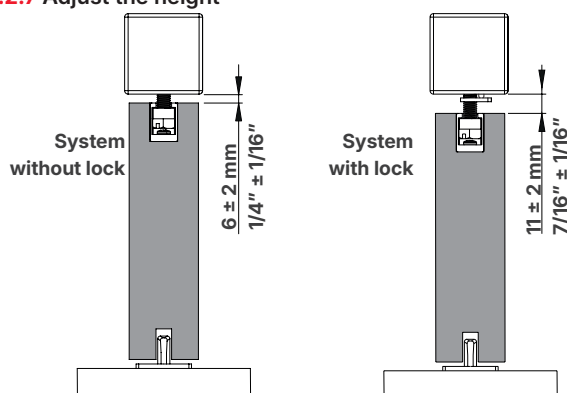
3.2.5 Insert the suspension body into the profile



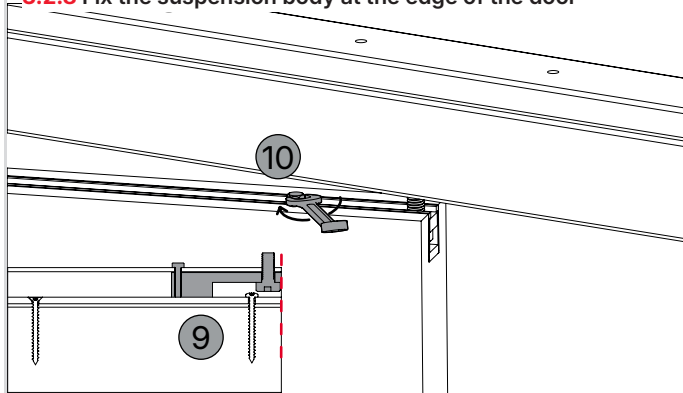
3.2.6 Screw the suspension body to the roller



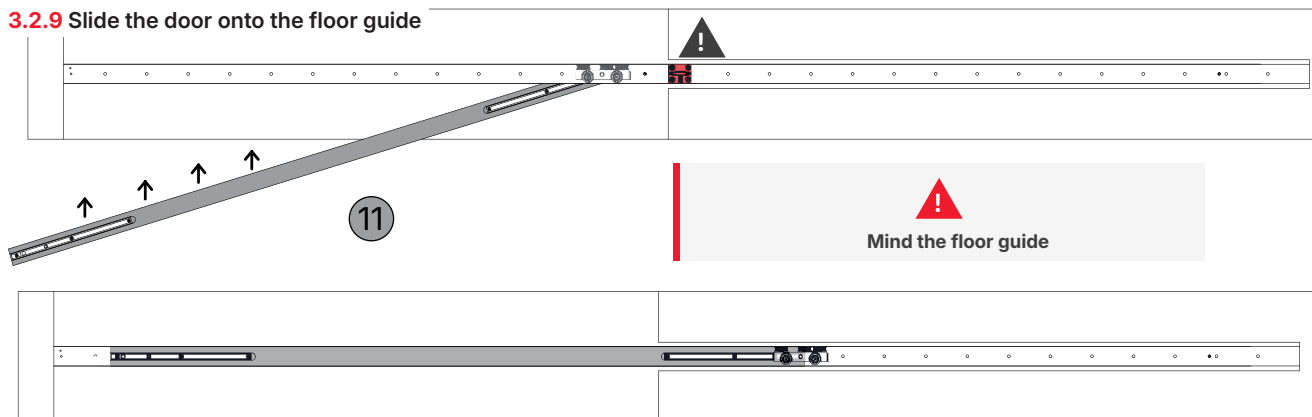
3.2.7 Adjust the height



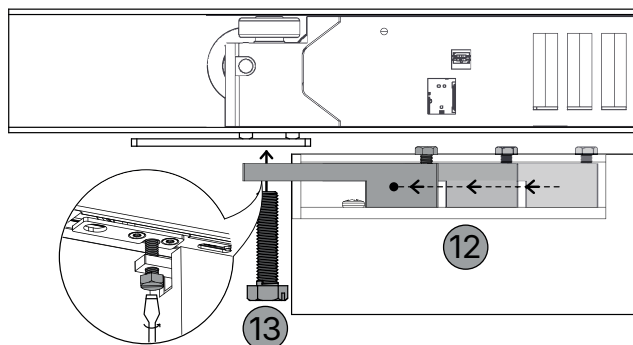
3.2.8 Fix the suspension body at the edge of the door



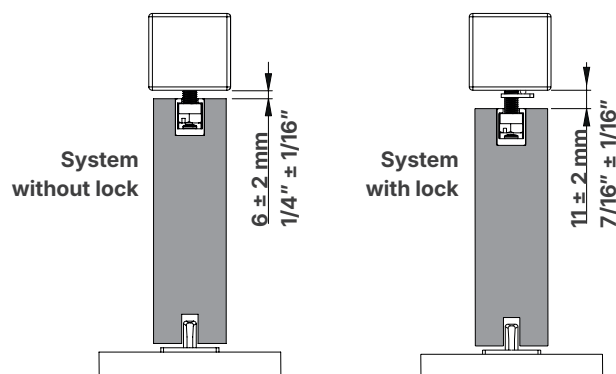
3.2.9 Slide the door onto the floor guide



3.2.10 Screw the suspension body to the motor

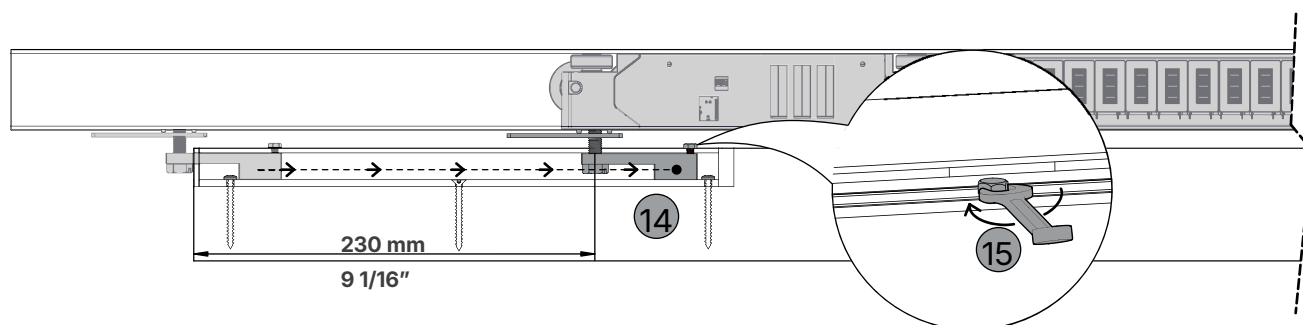


3.2.11 Adjust the height

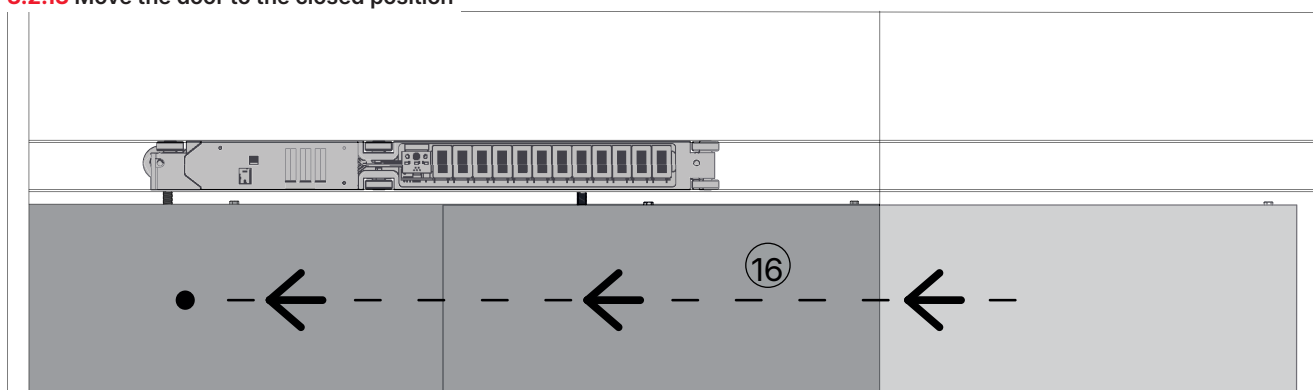


Step 3.2 · Wooden leaf installation between partitions (continued)

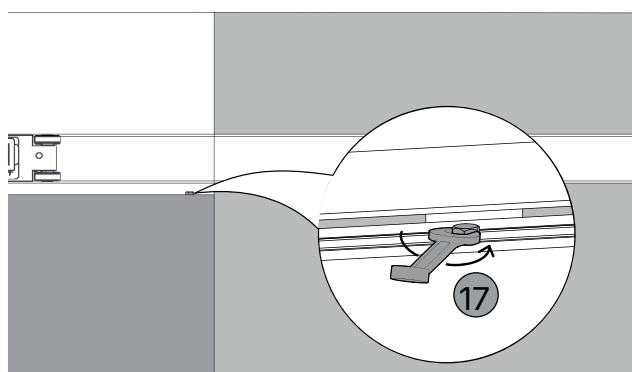
3.2.12 Move the motor suspension body to the dimension shown



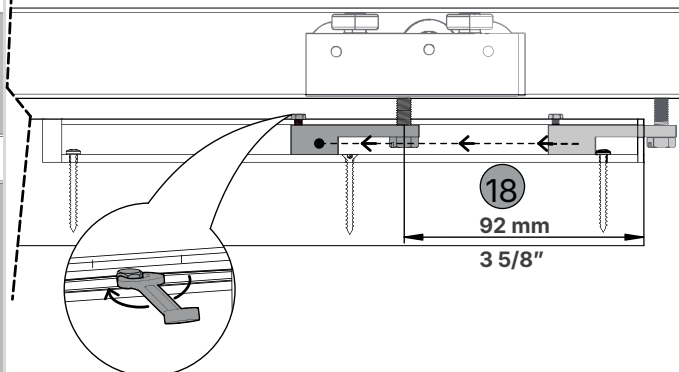
3.2.13 Move the door to the closed position



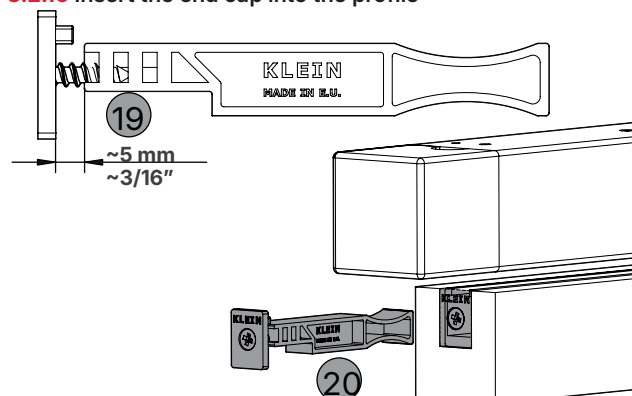
3.2.14 Loosen the roller suspension body



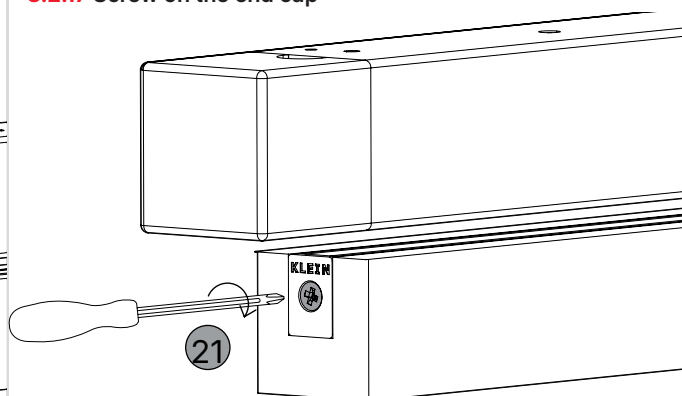
3.2.15 Move and fix the roller suspension body



3.2.16 Insert the end cap into the profile



3.2.17 Screw on the end cap

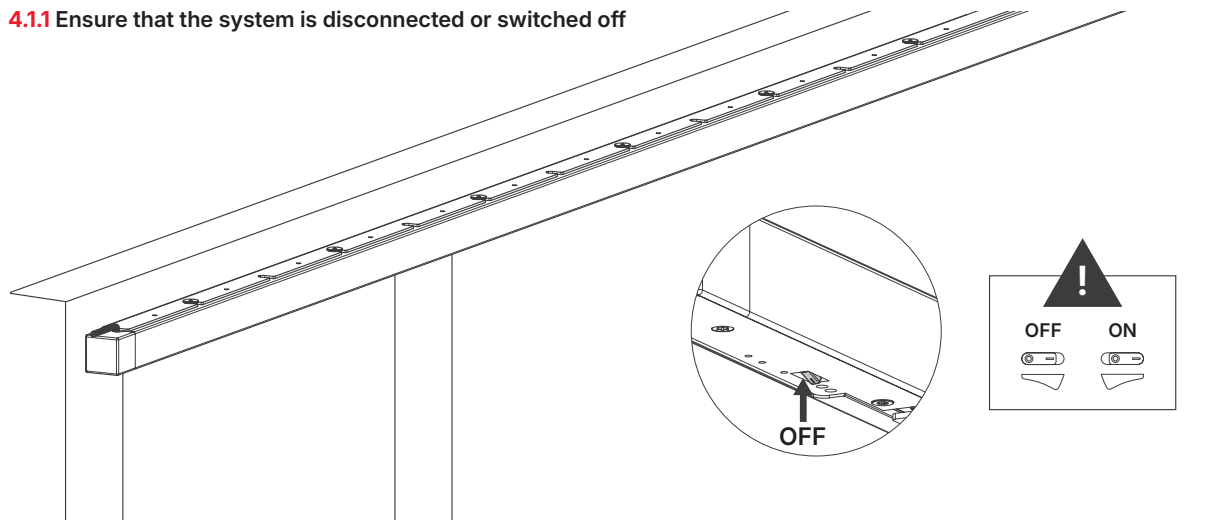


Step 4

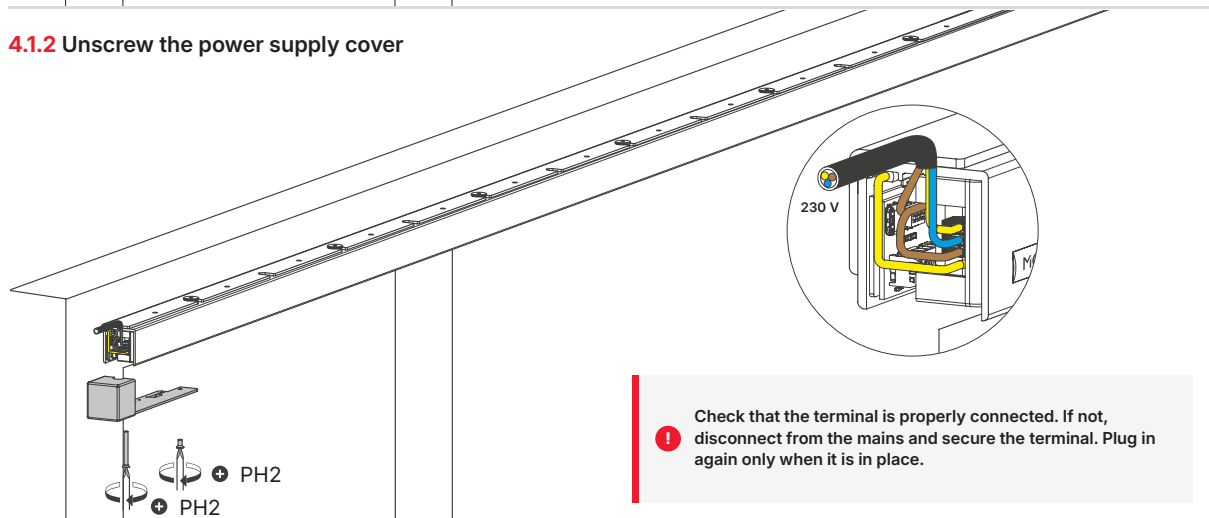
General wiring diagram.

Before connecting the VERSA magnetic system to the power supply, all accessories and devices must already be wired to the I/O Board (Master). If accessories have been purchased, keep the system switched off and disconnected from the mains before carrying out any wiring operation. To wire the accessories, follow these steps:

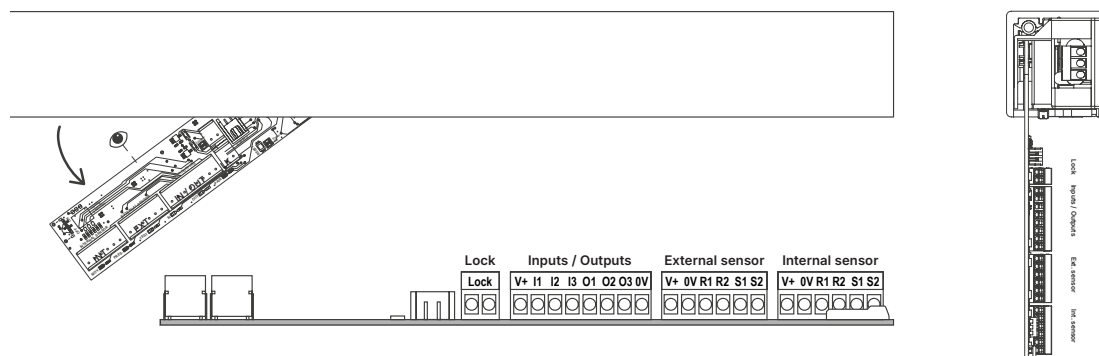
4.1.1 Ensure that the system is disconnected or switched off



4.1.2 Unscrew the power supply cover

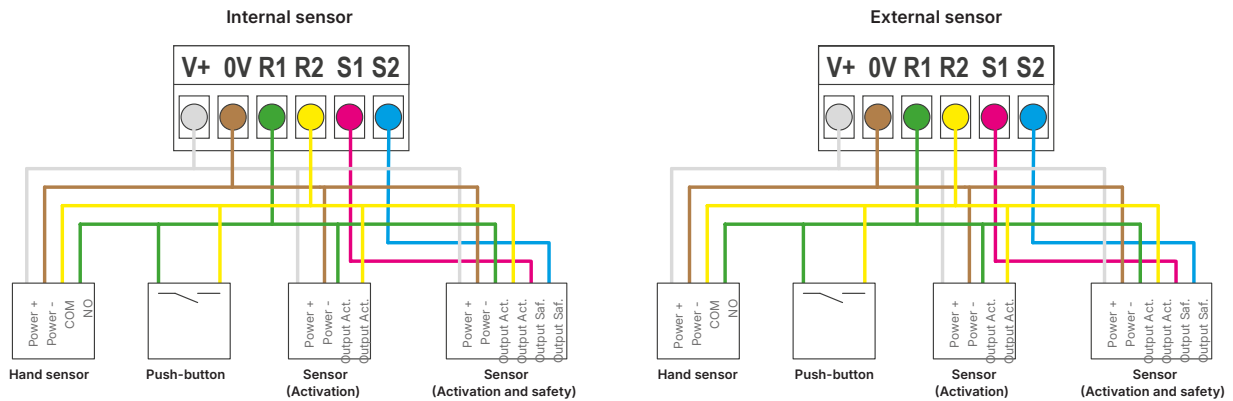


4.1.3 Fold down the I/O Board



Step 4 · General wiring diagram (continued)

The following pages show the wiring of the official accessories supplied by Klein Ibèrica S.A.U. If third-party accessories are used, the general diagram described below allows the wiring to be carried out easily, provided that these devices are electrically compatible.



Terminal description

- V+: Power supply (24 VDC)
- 0V: Ground
- R1, R2: Activation – dry contact, volt-free
- S1, S2: Safety – dry contact, volt-free
- I1, I2, I3: Inputs
- O1, O2, O3: Outputs

- White Power + (24 V)
- Brown Power - (0 V)
- Green Activation signal
- Yellow Activation signal
- Pink Safety signal
- Blue Safety signal

*Colour for reference only. The accessory need not be this colour.

General connections

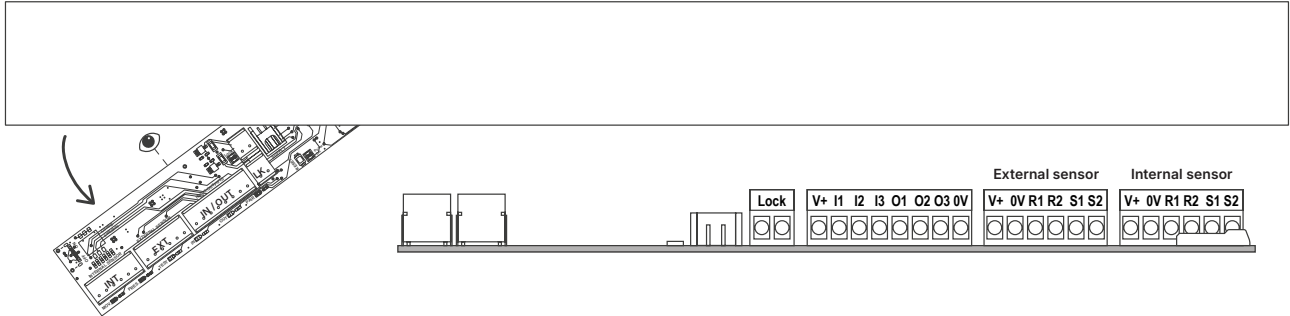
As a general rule, make the connections as follows:

- Connect the power supply to terminals V+ and 0V.
- Connect the activation to terminals R1 and R2 (internal or external sensor).
- Connect the safety devices to terminals S1 and S2 of the internal or external sensor, or to the corresponding inputs on the I/O Board.

Step 4.2

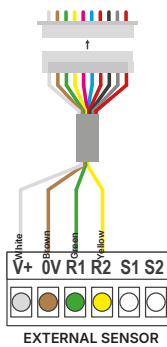
Activation and safety sensor (OA-FLEX T).

! Keep the system switched off and disconnected from the mains before wiring any accessory to the I/O Board (Master).

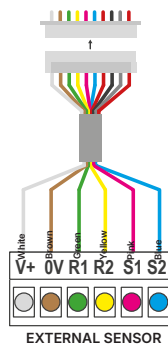


EXTERNAL ACTIVATION AND SAFETY SENSOR

Microwave (Activation)

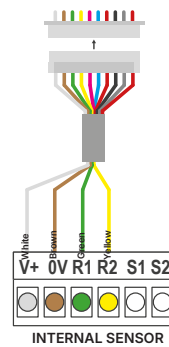


Infrared (Activation and Safety)

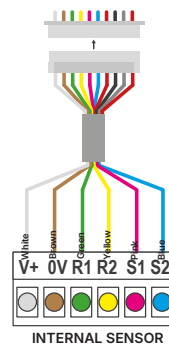


INTERNAL ACTIVATION AND SAFETY SENSOR

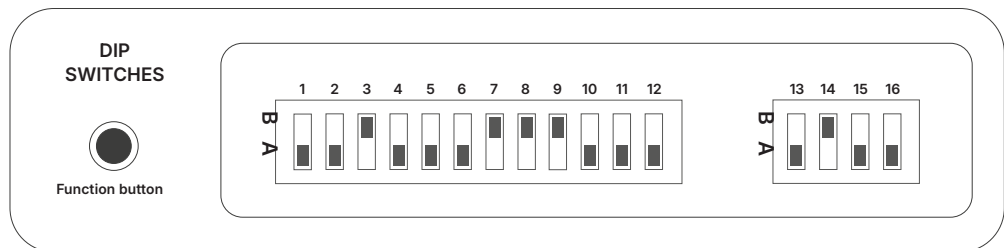
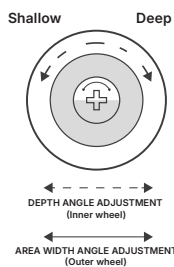
Microwave (Activation)



Infrared (Activation and Safety)

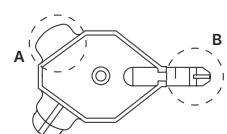


Parameter configuration



- 1 Adjust the depth angle of the presence safety and motion activation zone (B) and turn clockwise/anticlockwise as required.
- 2 Adjust the area width angle of the motion activation and safety zone (A) and turn clockwise/anticlockwise as required.
- 3 Set the DIP switches as shown in the image.
- 4 After making the adjustments, press and hold the function button for 2 seconds until the light goes out.

ADJUSTMENT TOOL

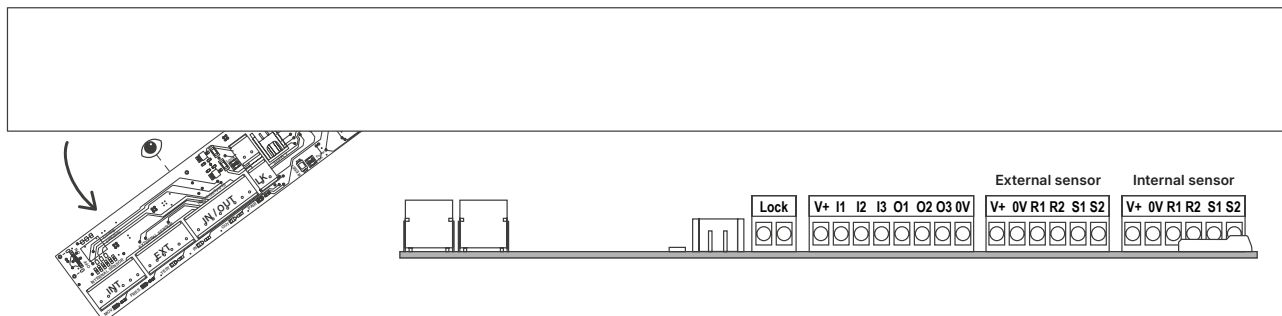


For more information on how to adjust the detection area, refer to the installation manual that you will find inside the sensor box.

Step 4.3

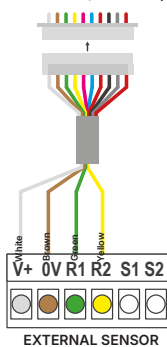
Activation and safety sensor (OPTEX MIRAGE T).

! Keep the system switched off and disconnected from the mains before wiring any accessory to the I/O Board (Master).

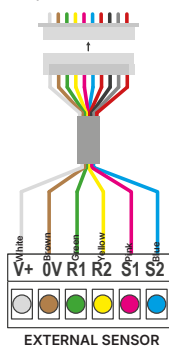


EXTERNAL ACTIVATION AND SAFETY SENSOR

Microwave (Activation)

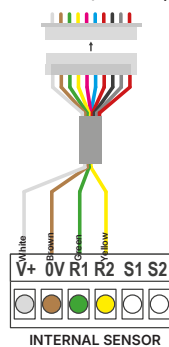


Infrared (Activation and Safety)

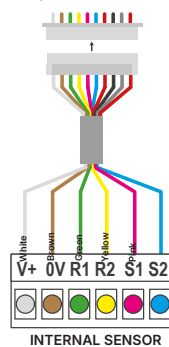


INTERNAL ACTIVATION AND SAFETY SENSOR

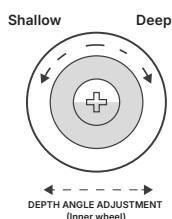
Microwave (Activation)



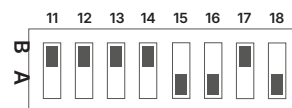
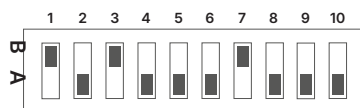
Infrared (Activation and Safety)



Parameter configuration

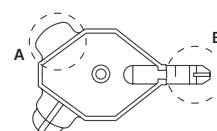


DIP SWITCHES



- 1 Adjust the depth angle of the motion activation zone (Microwave) by inserting the cross tip of the adjustment tool (B) and turning it clockwise/anticlockwise as required.
- 2 Set the DIP SWITCHES as shown in the image.
- 3 After making the adjustments, press and hold the FUNCTION SWITCH button for 2 seconds until the light goes out.

ADJUSTMENT TOOL

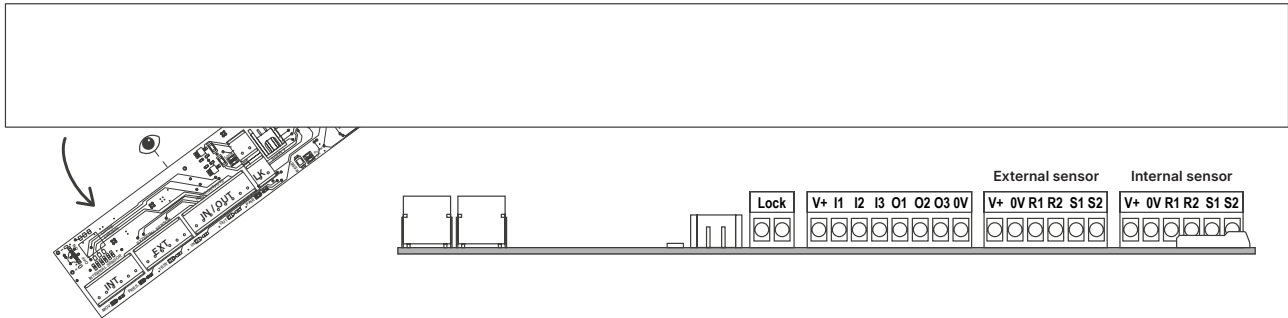


For more information on how to adjust the detection area, refer to the installation manual that you will find inside the sensor box.

Step 4.4

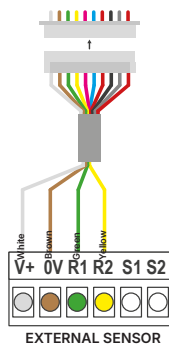
Activation and safety sensor (OPTEX OAM-DUAL T).

! Keep the system switched off and disconnected from the mains before wiring any accessory to the I/O Board (Master).

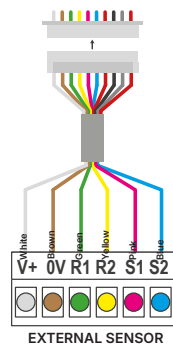


EXTERNAL ACTIVATION AND SAFETY SENSOR

Microwave (Activation)

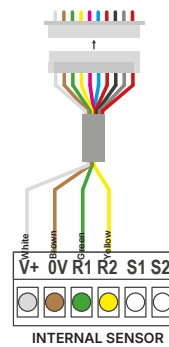


Infrared (Activation and Safety)

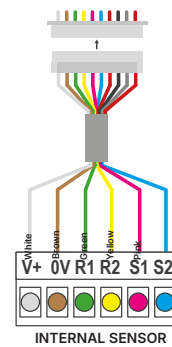


INTERNAL ACTIVATION AND SAFETY SENSOR

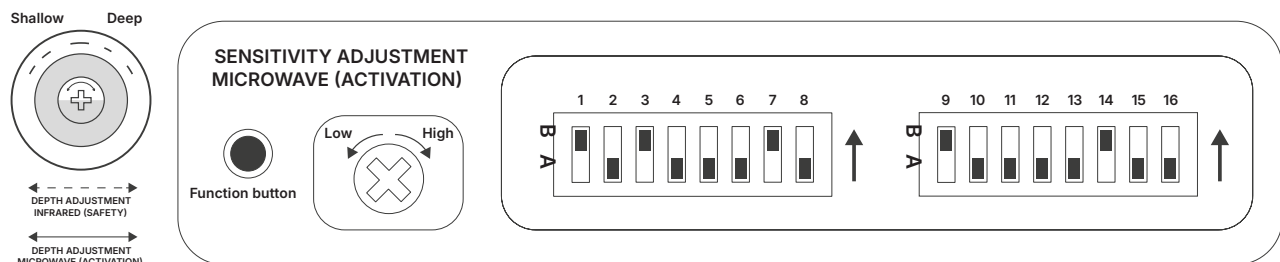
Microwave (Activation)



Infrared (Activation and Safety)

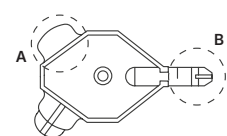


Parameter configuration



- 1 Adjust the depth angle of the presence safety zone (Infrared) by inserting the flat tip of the adjustment tool (A) and turning it clockwise/anticlockwise as required.
- 2 Adjust the depth angle of the motion activation zone (Microwave) by inserting the cross tip of the adjustment tool (B) and turning it clockwise/anticlockwise as required.
- 3 Adjust the sensitivity of the activation zone (Microwave) by turning the potentiometer with a screwdriver.
- 4 Set the DIP SWITCHES as shown in the image.
- 5 After making the adjustments, press and hold the FUNCTION SWITCH button for 2 seconds until the light goes out.

ADJUSTMENT TOOL

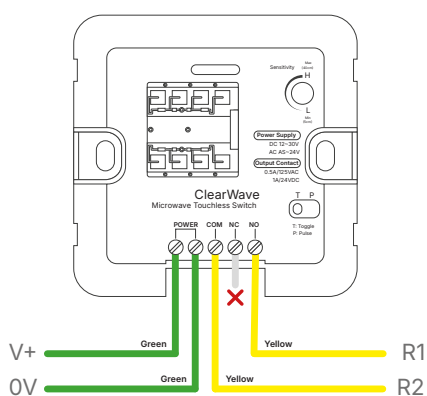
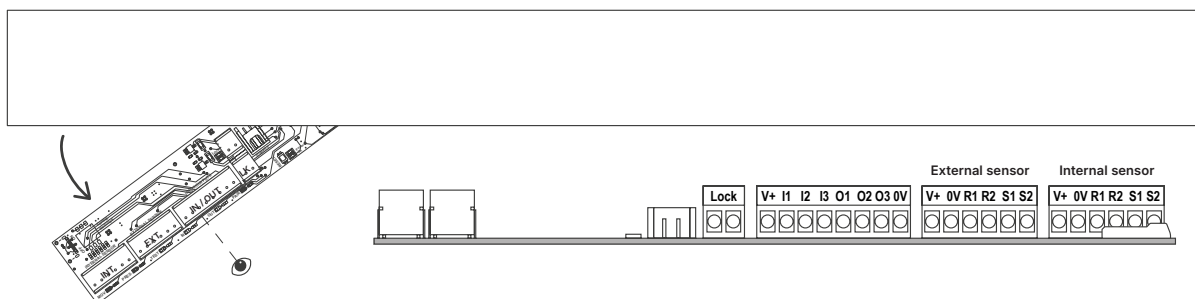


For more information on how to adjust the detection area, refer to the installation manual that you will find inside the sensor box.

Step 4.5

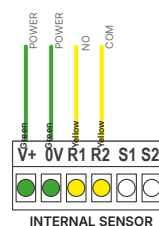
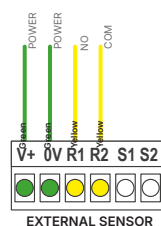
Proximity sensor.

! Keep the system switched off and disconnected from the mains before wiring any accessory to the I/O Board (Master).



EXTERNAL PROXIMITY DETECTOR

INTERNAL PROXIMITY DETECTOR



NOTE:

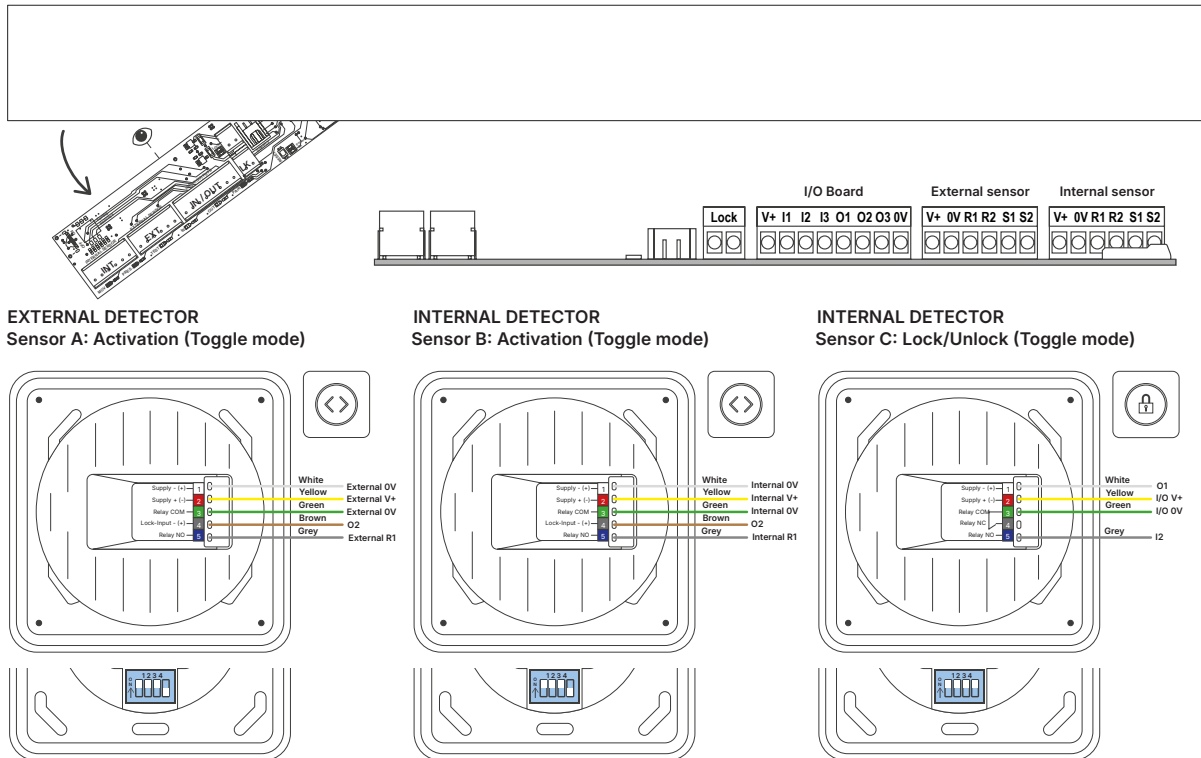
Configure the T/P switch of the sensor:

- "T" - Toggle: a first detection opens the door, a second one closes it.
- "P" - Pulse: one detection opens and closes the door.

Step 4.6

Bathroom mode.

! Keep the system switched off and disconnected from the mains before wiring any accessory to the I/O Board (Master).



In the app, under Technical parameters, in the Setup menu, configure the inputs and outputs:

GDI1 - Input 1 = (0 - Not used)

GDI2 - Input 2 = (2 - Force close with lock)

GDO1 - Output 1 = (3 - Closed (without automatic lock))

GDO2 - Output 2 = (2 - Lock active (automatic lock))

HOW DOES IT WORK?

OPTION 1: Operation mode "AUTO" and parameter P5 set to "SEQUENTIAL".

- 1 To enter the bathroom, wave your hand in front of SENSOR A (with green LED) to open the door, enter the bathroom and the door will close automatically.
- 2 With the door completely closed, wave your hand in front of SENSOR C to lock the door and deactivate the other sensors (all sensors turn red).
- 3 To leave the bathroom, wave your hand in front of SENSOR C (if it is red) to unlock the door and activate the other sensors (all sensors turn green).
- 4 Wave your hand in front of SENSOR B to open the door from the inside, leave the bathroom and it will close automatically.

OPTION 2: Operation mode "AUTO" Parameter P5 set to "BISTABLE"

- 1 To enter the bathroom, wave your hand in front of SENSOR A (if it is green) to open the door and enter.
- 2 Wave your hand in front of SENSOR B from the inside to close the door.
- 3 With the door fully closed, wave your hand in front of SENSOR C to lock the door (all sensors turn red).
- 4 To leave the bathroom, wave your hand in front of SENSOR C (if it is red) to unlock the door and activate the other sensors (the sensors turn green).
- 5 Wave your hand in front of SENSOR B to open the door and leave the bathroom.
- 6 The door will stay open until someone activates SENSOR A from the outside, or SENSOR B from the inside.

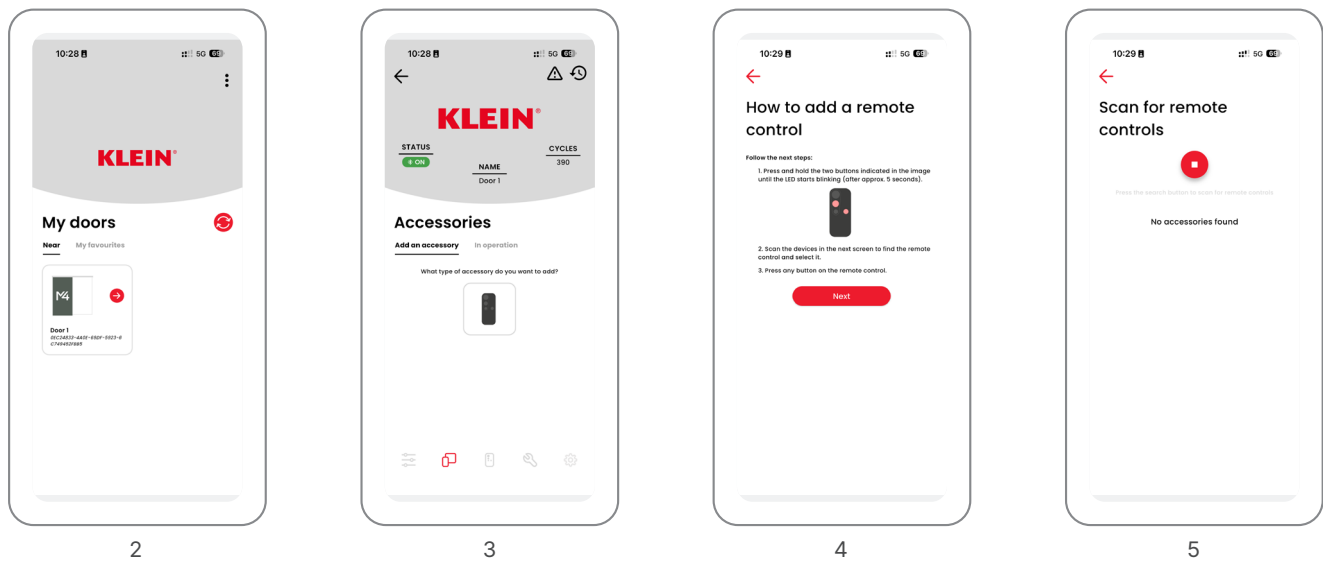
NOTE: With this diagram, the lock is only activated (door locked) when SENSOR C is red.

Step 4.7

Remote control.

TO PAIR THE REMOTE CONTROL WITH THE SYSTEM:

- 1 Switch on the system (switch set to ON).
- 2 Open the KLEIN app and select the door you want to pair a remote control with. To access the door for the first time, you must enter the default password 01234567. (After the first access, it will be possible to set another password; it is very important to inform the user if the password is changed.)
- 3 Go to the "Accessories" section.
- 4 Select "Add an accessory" and follow the instructions.
- 5 Scan for remote controls.
- 6 Press any button on the remote control.

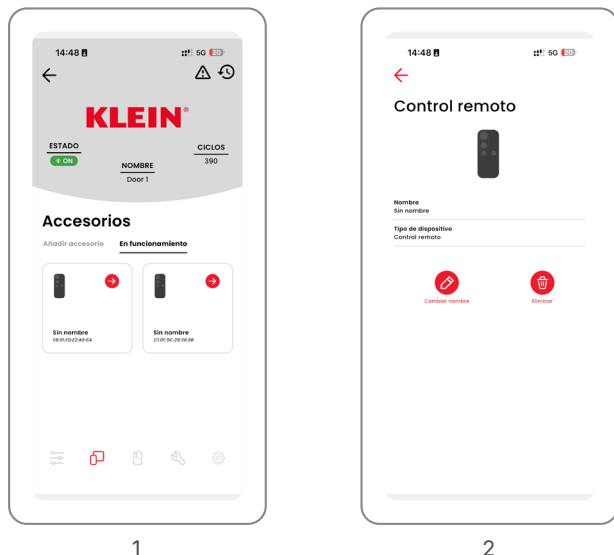


TO ADD MORE REMOTE CONTROLS:

Repeat steps 4, 5 and 6 to pair additional remote controls. A remote control can be paired with several systems and a system can be controlled from up to 4 remote controls.

TO DELETE ALL REMOTE CONTROLS:

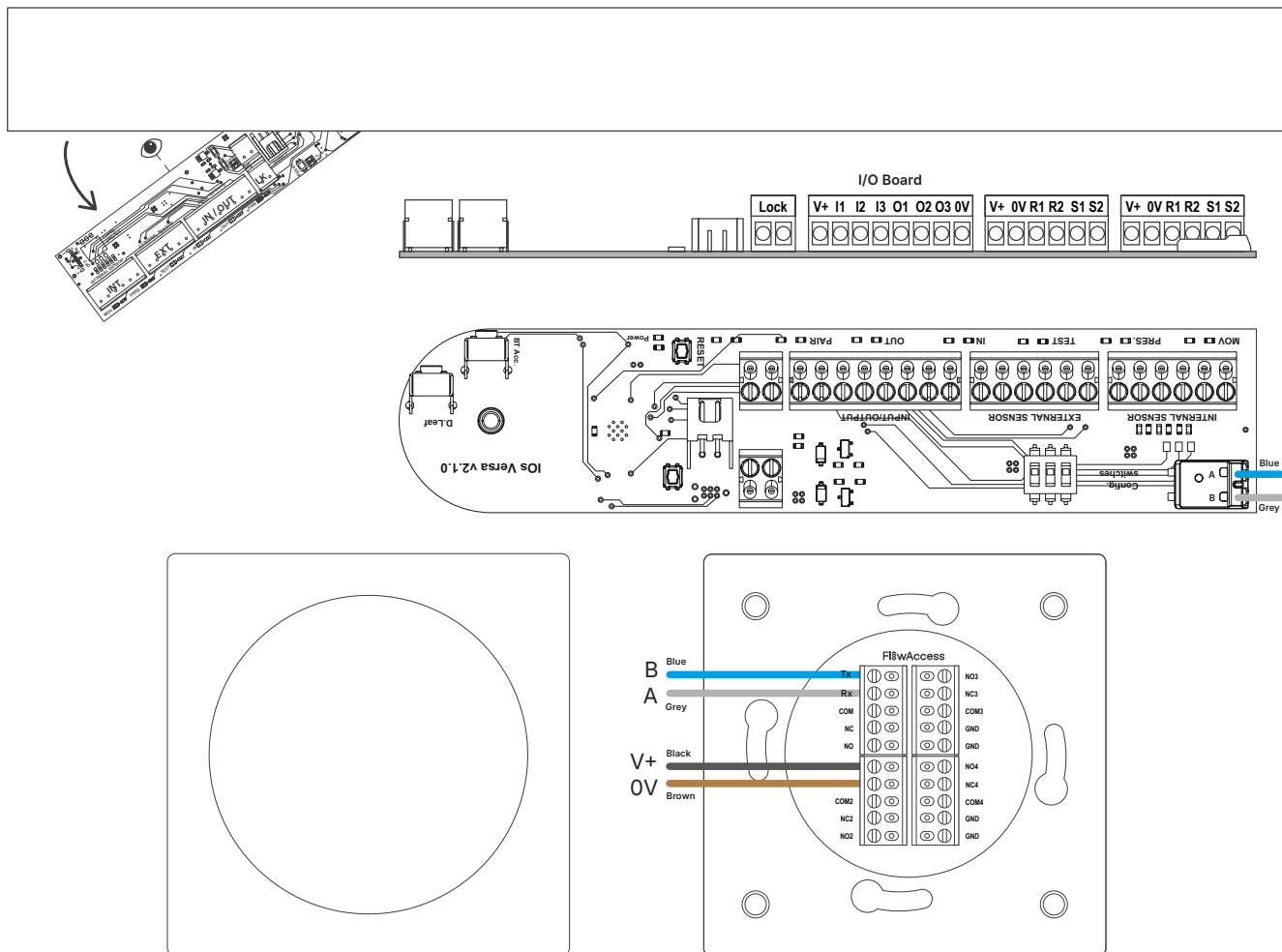
- 1 In the "Accessories" section, select the "In operation" section.
- 2 Select the remote control you want to remove and tap the "Delete" option.



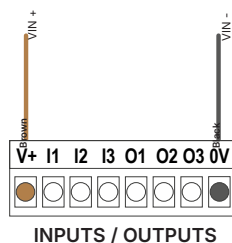
Step 4.8

Digital selector.

! Keep the system switched off and disconnected from the mains before wiring any accessory to the I/O Board (Master).



Mode selector

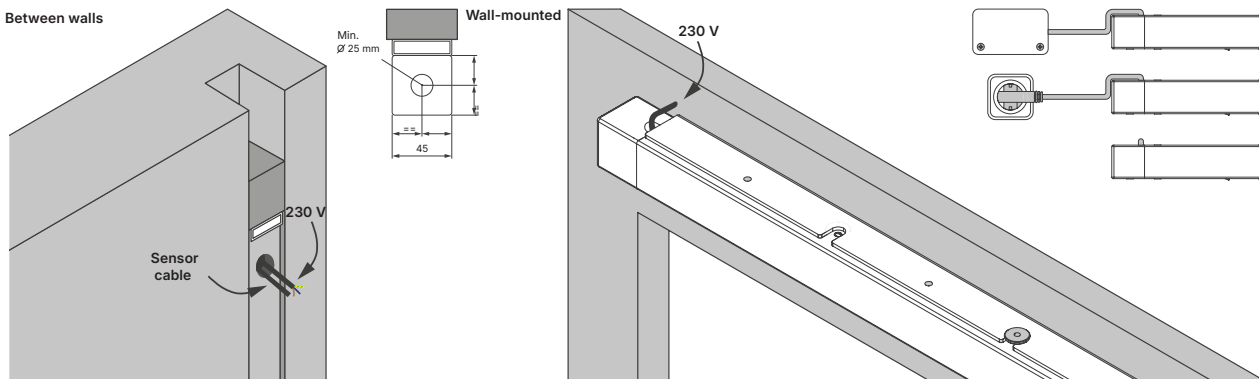


Step 5

Commissioning and system configuration.

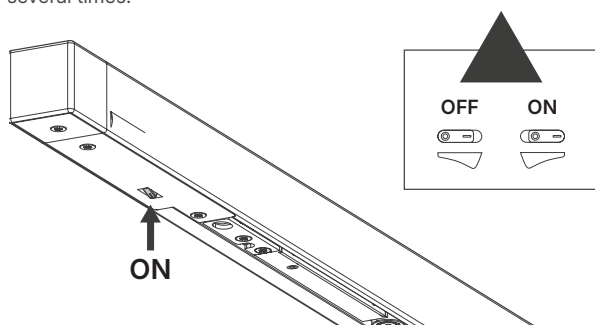
5.1 Connect the system to the mains

Between walls



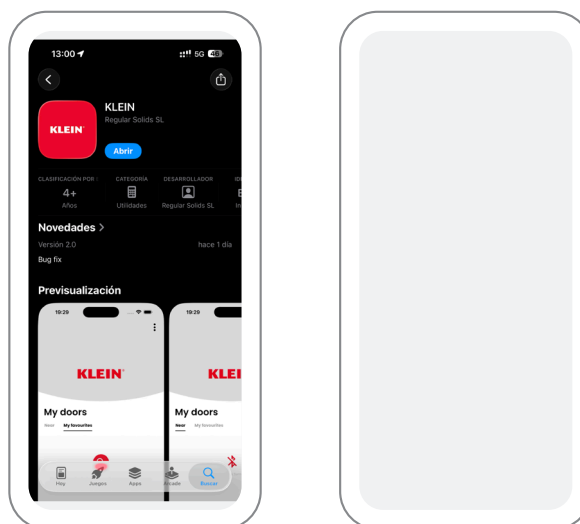
5.2 Set ON/OFF switch to ON

A self-adjustment will start, in which the door will open and close several times.



5.3 Download the KLEIN app

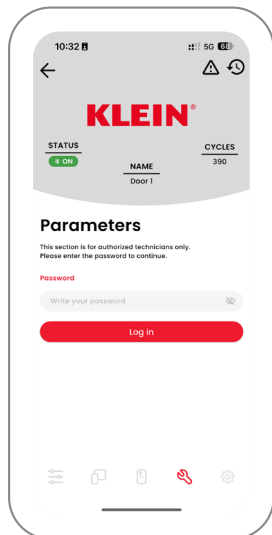
Available on the App Store and Google Play.



Step 5 · Commissioning and system configuration (continued)

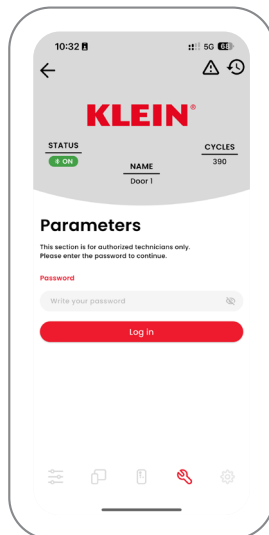
5.4 Start a self-adjustment from the app

The self-adjustment process is necessary for the proper operation of the door. During the process, the moving leaf will move in both directions to calculate the distance between end stops and the leaf weight. Once completed, the system will calculate the acceleration and deceleration ramps according to the leaf weight and travel. To do this, follow these steps:



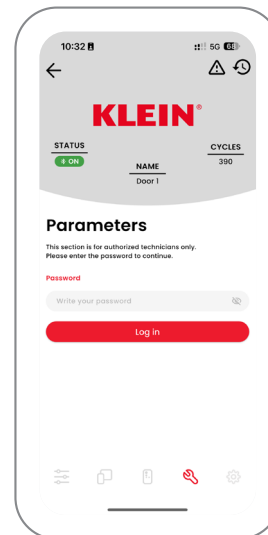
STEP 1

To access the door for the first time, you must enter the default password 01234567. (After the first access, it will be possible to set another password; inform the user if it is changed)



STEP 2

Go to Technical parameters and enter the technical service password provided by the distributor. If you do not have it, please get in touch.

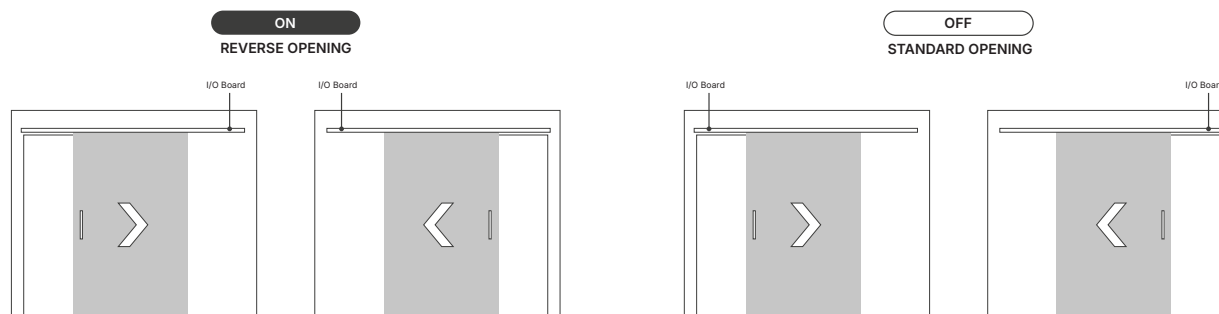


STEP 3

Go to the Setup section and tap the "RUN SELF-ADJUSTMENT" button. A message will appear and you must tap to confirm. **Do not touch the leaf or interrupt the process until self-adjustment is complete.**

5.5 If the opening direction is changed

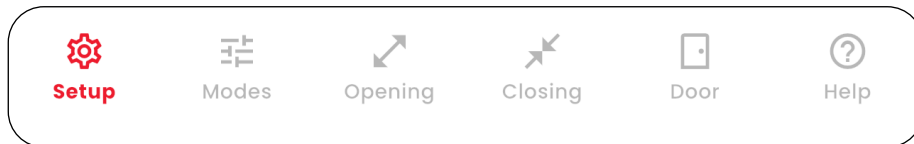
If you want the leaf to open opposite to the standard direction, activate Reverse mode (P96).



06

Technical parameters.

Access to this section is restricted by a password provided by the manufacturer or the distributor, ensuring that only qualified technicians can make modifications. Once access is gained, a menu is displayed, organised in the usual order of use and configuration of the door: first the setup, followed by the different modes and the rest of the available options. Each section is explained below, screen by screen, indicating the corresponding parameters and functions and their configuration procedure. In general, to change them, you must move the slider to the required value and then press the **✓ APPLY** button to apply the change to the parameter value. All the parameters are shown below:



Setup screen

Low energy mode (LE)

Two types of mode can be selected: high energy (normal operation) or low energy (operation with limitation of the kinetic energy and static force of the door, as described in European Standard EN 16005). In low energy mode, the adjustment of the opening and closing speeds and of the closing force is disabled, and these will be adjusted automatically by the system itself according to the mass and the length of travel of the leaf, so that the movement is safe for the user. The use of safety sensors is not necessary if the risk assessment carried out by the installer so indicates.

(LE) Low energy mode ⓘ

HIGH ENERGY

LOW ENERGY

Protected installation mode

Enabled only when "HIGH ENERGY" has been selected. In "STANDARD" mode the speed increases compared with low energy mode, although the kinetic energy and static force remain limited in accordance with standard EN 16005. The use of safety sensors is not necessary if the risk assessment carried out by the installer so indicates. In "PROTECTED INSTALLATION" mode, the opening and closing speeds can be adjusted to allow faster opening of the clear opening, and the use of safety sensors is mandatory.

Protected installation mode ⓘ

🔒 Can only be changed in high energy.

STANDARD

PROTECTED
INSTALLATION

Self-adjustment

The door opens and closes several times in order to determine the travel and the weight.

Self-adjustment ⓘ

RUN SELF-ADJUSTMENT

Inputs and outputs

The I/O Board has 2 configurable inputs and 2 configurable outputs, which allow the operation of the door to be adapted to different needs of the installation. Each input or output can be assigned one of the available functions:

Inputs

- 0 - Not used
- 1 - Force open
- 2 - Force close WITH lock
- 3 - Force close WITHOUT lock

Outputs

- 0 - Not used
- 1 - Door open
- 2 - Lock active (automatic lock)
- 3 - Closed (without automatic lock)
- 4 - Door moving

- 5 - Fault
- 6 - Bathroom occupied (With Bircher cleanswitch sensors)
- 7 - Bathroom free (With Bircher cleanswitch sensors)
- 8 - Lock NOT active

Technical parameters (continued)

Safety sensor test

Used to activate the test function for the safety sensors. To do this, the sensor test wires must be connected to the Inputs/Outputs connector of the I/O Board. The black wire must be connected to O3 and the red wire to V+. Then, in the app, under Technical parameters, in the Setup menu, set the sensor in use to (1 - Tested):

Side radar (LAT_SEC/GDI3)

0 - Not tested

1 - Tested

External radar (EXT_SEC)

0 - Not tested

1 - Tested

Internal radar (INT_SEC)

0 - Not tested

1 - Tested

Weight (P24)

During self-adjustment, the system sets the door weight; if it is incorrect, the value can be increased and adjusted to the actual weight. If the system has set a higher weight, the parameter cannot be lowered.

Range: 00 to 80 kg.

(P24) Weight ⓘ

50 kg / 80

Measured weight: 52 kg · Minimum: 50 kg



The door has detected a weight closer to 0 kg

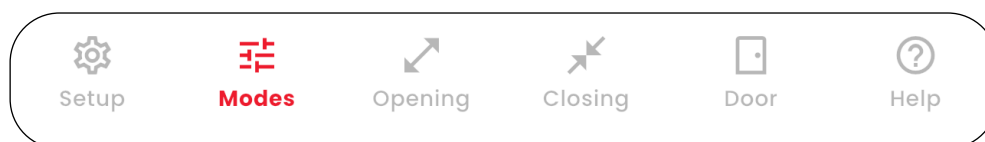
The door has detected a weight closer to 80 kg

Factory Reset

Resets the parameters to the factory values and runs a new self-adjustment.

Factory Reset ⓘ

⚠ FACTORY RESET



Modes screen

Operation mode (P0)

Sets the operating mode of the door.

(P0) Operation mode ⓘ

AUTO

OPEN

CLOSE

EXIT ONLY

Automatic activation mode (P5)

Function incompatible with activation radars (FLEX-T, MIRAGE, DUAL-T or similar). **"Bistable"** mode: a first activation by push-button or proximity sensor, or by pushing the door by hand, opens the door and it stays open. A second activation, or pushing the door in the opposite direction, closes it. **"Sequential"** mode: an activation by push-button or sensor, or by pushing the door by hand, opens the door and closes it after a programmable open pause time (parameter P1).

(P5) Automatic activation mode ⓘ

BISTABLE

MANUAL

Reverse mode (P96)

Sets the opening direction of the door. If the leaf is to open opposite to the standard direction, set it to ON. Otherwise, OFF.

(P96) Reverse mode ⓘ

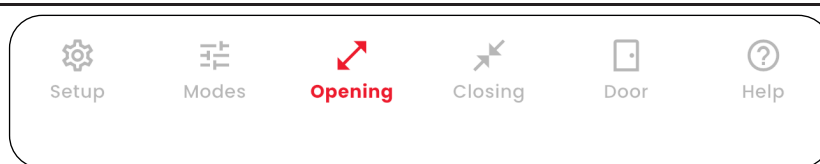
ON

OFF

REVERSE OPENING

STANDARD OPENING

Technical parameters (continued)

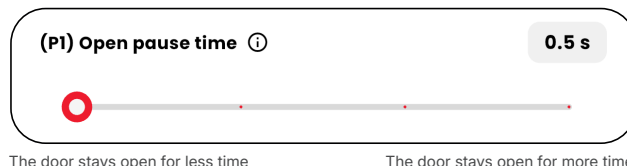


Opening screen

Open pause time (P1)

Sets the time during which the door stays open before closing again.

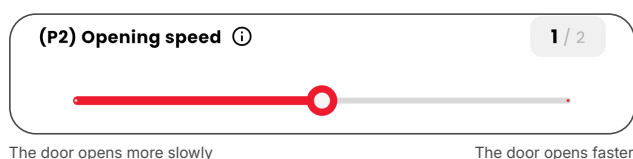
Range: 0.5 to 10 s.



Opening speed (P2)

Sets the speed at which the door will open. This value is relative, as it depends on the clear opening and the weight of the leaf.

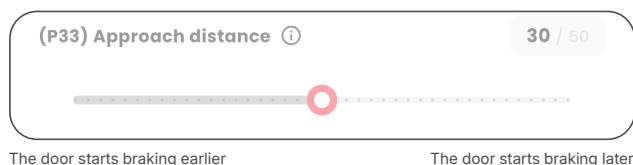
Range: 00 to 04.



Approach distance (P33)

Sets the point at which the second braking phase begins in the final stretch of the travel during the opening cycle.

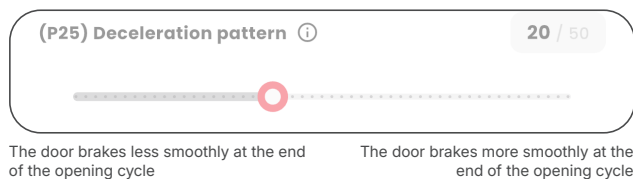
Range: 00 to 50.



Deceleration pattern (P25)

Sets the deceleration pattern at the end of the opening cycle.

Range: 00 to 30.



Acceleration pattern (P26)

Sets the acceleration pattern at the start of the opening cycle.

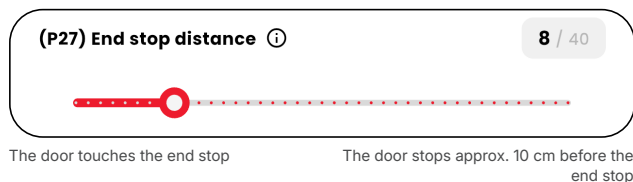
Range: 00 to 40.

The door moves more smoothly and gradually at the start of the opening cycle The door moves faster and more abruptly at the start of the opening cycle

End stop distance (P27)

Adjusts the distance between the end stop and the leaf in the fully open position.

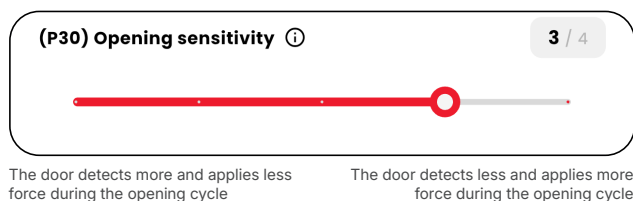
Range: 00 to 40.



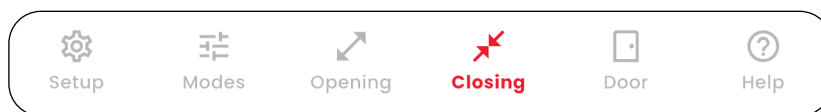
Opening sensitivity (P30)

Regulates the sensitivity level required to stop the leaf when an obstruction is encountered during the opening cycle.

Range: 00 to 04.



Technical parameters (continued)

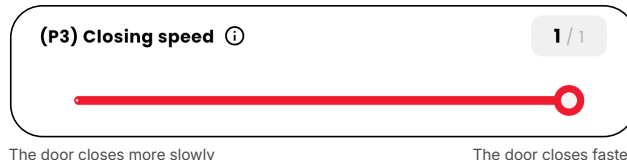


Closing screen

Closing speed (P3)

Sets the speed at which the door will close. This value is relative, as it depends on the clear opening and the weight of the leaf.

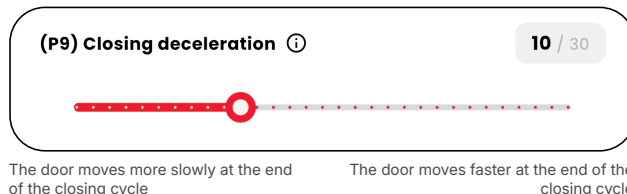
Range: 00 to 03.



Closing deceleration (P9)

Adjusts the speed on the deceleration ramp before full closing.

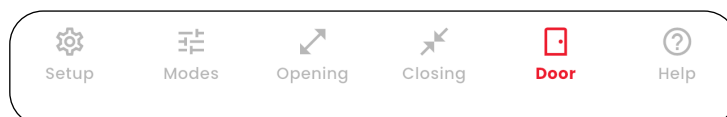
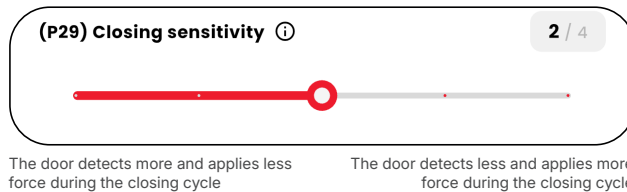
Range: 00 to 30.



Closing sensitivity (P29)

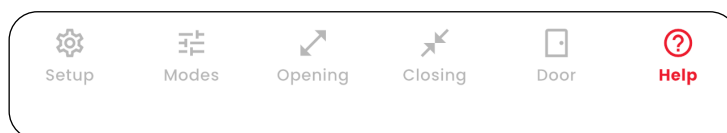
Regulates the sensitivity level required to stop the leaf when an obstruction is encountered during the closing cycle.

Range: 00 to 04.



Door screen

The Door screen shows an animation representing the full operating cycle of the door, from opening to closing. The screen also includes a travel bar that divides the cycle into the different operating stretches. For each stretch, the parameters that apply are indicated, making it possible to identify visually how the door behaves and which values are used in each phase of the travel. In this way, it is possible to easily visualise the relationship between the configured parameters and the behaviour of the door throughout the cycle.



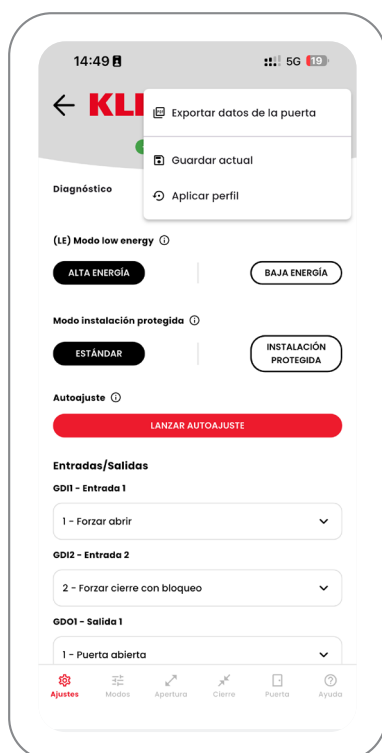
Help screen

The Help screen makes it easy to identify which parameter must be adjusted to modify the behaviour of the door. The travel does not depend on a single setting; each stretch of the cycle uses its own parameters. To find the required setting, there are two options:

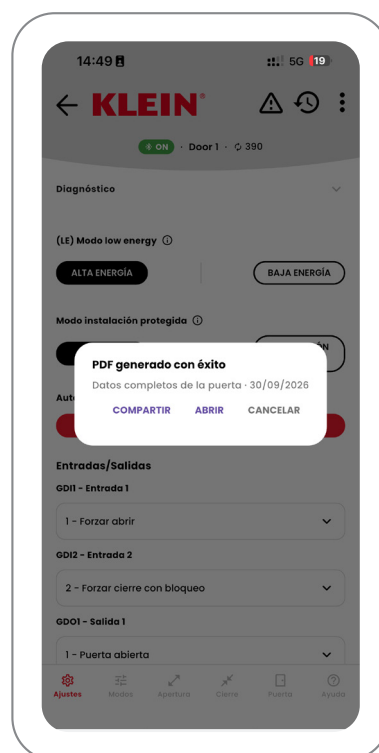
- Tap a point of the travel directly on the door diagram. The app will show the parameters related to that stretch.
- Find the situation that best matches the behaviour observed in the door using the available questions. When the corresponding option is selected, the app guides the technician to the parameter that must be modified.

Technical parameters (continued)

Finally, as the installing technician, in addition to modifying the parameters, you can generate a PDF document that details and confirms how all the parameters have been set once the installation is complete. To do this, follow these steps:



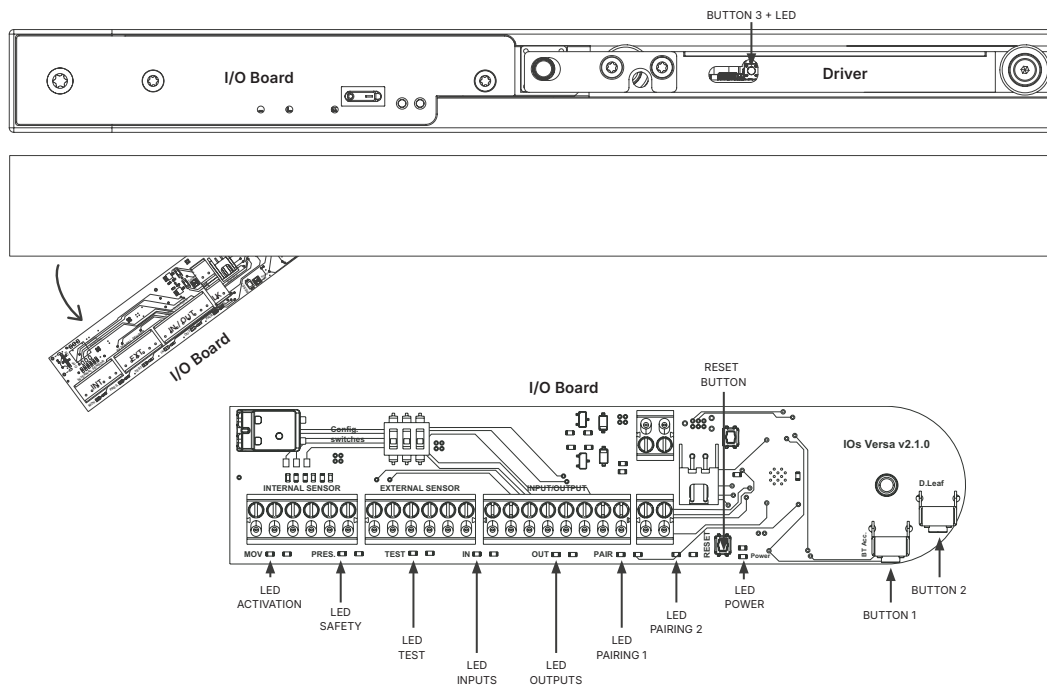
Press the three dots and select
"Export door data"



Download or share the PDF

07

I/O Board (Master) and driver LED description.



LEDS	ACTIVATION	ON when activated, OFF when not activated.
	SAFETY	ON when activated, OFF when not activated.
	TEST	ON when activated, OFF when not activated.
	INPUTS	ON when activated, OFF when not activated.
	OUTPUTS	ON when activated, OFF when not activated.
	PAIRING 1	BLINKING during the pairing process. ON when paired. OFF when not paired.
	PAIRING 2	BLINKING during the pairing process. ON when paired. OFF when not paired.
	POWER	ON when the system is powered.
BUTTONS	BUTTON 3	BLINKING in pairing mode, OFF when not activated.
	BUTTON 1	Used to pair driver 1 and the I/O Board.
	BUTTON 2	Used to pair driver 2 and the I/O Board.
	BUTTON 3	Used to pair the driver and the I/O Board.
SERIES OF COMBINATIONS	RESET BUTTON	Used to perform a reset.
	PAIR REMOTE CONTROL WITH MOTOR	Press button 1 five times consecutively and then press any button on the remote control to pair the remote control with the motor.
	PERFORM SELF-ADJUSTMENT	Press button 2 five times consecutively to run self-adjustment on all paired motors.
	RESET PASSWORD	Press button 1 three times consecutively and then button 2 three times consecutively to reset the password in order to access the door from the app.

08

Malfunction codes and solutions.

8.1 Action in case of malfunction

In case of malfunction, breakdown or irregular behaviour of the VERSA magnetic system, use of the automatic door must be stopped immediately and the passage area must be kept clear.

If the installation has signalling devices, the system will display an error warning through the app or the mode selector, indicating a malfunction code that allows the fault to be identified. Before carrying out any intervention, the power supply to the system must be disconnected. If the movement of the leaf is blocked, the leaf must be secured to prevent unintended movement.

Unblocking, adjustment or repair operations must be carried out exclusively by qualified and authorised technical personnel. The user must not attempt to force the opening or closing of the door or to tamper with the system components.

8.2 Malfunction codes

In case of malfunction, a warning will appear in the app or on the digital selector. This code allows the fault to be identified, facilitating faster diagnosis and resolution. Refer to the following list to determine the meaning of each malfunction code and the recommended corrective actions:

ERROR 00	No error The system is operating normally. Corrective action: No action is required. The system operates normally.
ERROR 01	Overheating error The system temperature has exceeded the maximum permitted limit. Corrective action: Verify that the ambient temperature is below 40 °C. Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 02	Low-temperature error The system temperature is below the minimum permitted limit. Corrective action: Verify that the ambient temperature is above the minimum operating limit. Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 03	Overvoltage error The power supply voltage has exceeded the maximum permitted limit. Corrective action: Check the power supply voltage. Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 04	Undervoltage error The power supply voltage is below the minimum required limit. Corrective action: Check the power supply voltage and ensure that it meets the minimum requirements. Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 05	Encoder error The motor encoder signal is not being received correctly. Corrective action: Verify the presence of magnets along the entire motor travel; ensure that the stoppers at both ends of the magnet assembly are firmly secured and do not move; and ensure that there are no gaps between the magnets (composed of individual 250 mm modules with 20 magnets on each module).
ERROR 06	Power stage overcurrent error Excessive current has been detected in the power stage. Corrective action: Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 07	Phase A overcurrent error Excessive current has been detected in motor phase A. Corrective action: Switch the operator off and turn on again. Check the motor wiring connections. If the error persists, contact a qualified technician.
ERROR 08	Phase B overcurrent error Excessive current has been detected in motor phase B. Corrective action: Switch the operator off and turn on again. Check the motor wiring connections. If the error persists, contact a qualified technician.

Malfunction codes and solutions (continued)

ERROR 09	Phase C overcurrent error Excessive current has been detected in motor phase C. Corrective action: Switch the operator off and turn on again. Check the motor wiring connections. If the error persists, contact a qualified technician.
ERROR 11	Weight error The detected weight of the door leaf exceeds the maximum permitted limit. Corrective action: Check that the door leaf weighs less than 80 kg; verify that friction at the floor guide is not excessive; check that the leaf is completely vertical (without inclination) and properly balanced; and ensure that the leaf slides smoothly along its entire travelling distance.
ERROR 12	Oscillator error The internal clock oscillator is malfunctioning. Corrective action: Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 13	EEPROM error Read/write failure in the internal non-volatile memory. Corrective action: Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 14	Class B error A failure has been detected in the safety self-diagnostic system. Corrective action: Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 15	Safety sensor test failure One or more safety sensors are not responding correctly. Corrective action: Repair the defective sensor or check its connections and configuration. If everything is correct, switch the operator off (OFF position) and then switch it on again (ON position). If the error persists, contact a qualified technician.
ERROR 16	Test error An internal system test has failed. Corrective action: Switch the operator off and turn on again. If the error persists, contact a qualified technician.
ERROR 17	Obstruction detected during the opening cycle An obstruction has been detected while the door was opening. Corrective action: Remove any obstruction from the door opening path. Check that the safety sensors are not generating false detections. If the error persists, contact a qualified technician.
ERROR 18	Obstruction detected during the closing cycle An obstruction has been detected while the door was closing. Corrective action: Remove any obstruction from the door closing path. Check that the safety sensors are not generating false detections. If the error persists, contact a qualified technician.
ERROR 19	Stall error The motor has stalled and cannot continue moving. Corrective action: Check that the door leaf slides smoothly along its entire travelling distance. Verify that friction is not excessive and that no physical obstruction is blocking the movement. If the error persists, contact a qualified technician.
ERROR 20	I/O connection error Communication with the I/O Board has been lost. Corrective action: Check the connection between the app and the I/O Board. Ensure that Bluetooth is enabled and that the device is within the coverage range. Try connecting again.
ERROR 21	I/O Board locked Communication with the I/O Board has been locked. The board has not received the expected communication frame. Corrective action: Check the connection between the app and the I/O Board. If the error persists, contact a qualified technician.

Malfunction codes and solutions (continued)

ERROR

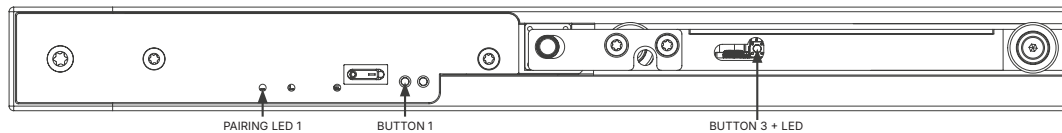
22

Internal communication error

Bluetooth communication between the motor driver and the I/O Board has been lost.

Corrective action: Check that the pairing LED 1 on the I/O Board is lit and displaying a blue colour. If not, pair the motor driver and the I/O Board again as described below. If the error persists, contact a qualified technician.

- 1 Press BUTTON 3 (on the motor driver) until the BUTTON 3 LED starts blinking.
- 2 Press BUTTON 1 (on the I/O Board) until PAIRING LED 1 starts blinking. When PAIRING LED 1 remains steadily lit, the devices have been paired.

**09**

Dismantling.

- ! Before starting dismantling, completely disconnect the power supply and ensure that the leaf is immobilised.

To dismantle the VERSA magnetic system, follow the steps in the order shown:

- 1 Fill the fixing holes in accordance with the building regulations.
- 2 Remove the wall or ceiling fixing.
- 3 Unhook the system from the fixing system (remove the fixing screws and studs).
- 4 Unscrew and remove the leaf trolley and the permanent magnets from the main profile.
- 5 Remove the leaf from the leaf trolley (unscrew the suspensions and pull the leaf out downwards).
- 6 Disconnect all accessories: safety sensors, activation sensors, lock and mode selector.
- 7 Disconnect the power supply from the mains.

10

Final verification in accordance with UNE-EN 16005.

Technician: _____
 Address: _____
 Postcode: _____
 City: _____
 Country: _____

System serial number:

MECHANICAL VERIFICATION	PASS	FAIL	N/A	COMMENTS
The system is firmly fixed to the support and correctly aligned.	☐	☐	☐	
The system is level in all three axes.	☐	☐	☐	
The leaf is correctly suspended and perfectly vertical.	☐	☐	☐	
The leaf moves smoothly along the entire travel, without rubbing or blockages.	☐	☐	☐	
The leaf weight does not exceed the maximum value permitted by the manufacturer.	☐	☐	☐	
The gap between the leaf and the floor is correct and does not cause friction.	☐	☐	☐	
ELECTRICAL VERIFICATION	PASS	FAIL	N/A	COMMENTS
The electrical installation complies with the regulations in force.	☐	☐	☐	
The wiring is correctly connected and secured.	☐	☐	☐	
There are no damaged, stripped or exposed cables.	☐	☐	☐	
The earth connection is correctly connected, if applicable.	☐	☐	☐	
The system can be safely disconnected from the mains.	☐	☐	☐	
FUNCTIONAL VERIFICATION	PASS	FAIL	N/A	COMMENTS
The door opens and closes correctly in all configured modes.	☐	☐	☐	
The opening time is suitable for the intended use.	☐	☐	☐	
The opening and closing speed is suitable and stable.	☐	☐	☐	
The door responds correctly to the activation devices.	☐	☐	☐	
In the event of manual opening, the behaviour of the leaf is correct.	☐	☐	☐	
SAFETY DEVICE VERIFICATION	PASS	FAIL	N/A	COMMENTS
The safety sensors are correctly installed and aligned.	☐	☐	☐	
The sensors correctly detect the presence and movement of persons or objects.	☐	☐	☐	
The activation of a safety device interrupts or reverses the movement of the door, as appropriate.	☐	☐	☐	
There are no unprotected travelling areas where the regulations require protection.	☐	☐	☐	
In the event of operation in low energy mode (LE), the speed and force parameters comply with the limits established by the regulations.	☐	☐	☐	
IN THE EVENT OF A POWER FAILURE	PASS	FAIL	N/A	COMMENTS
The automatic lock releases.	☐	☐	☐	
The moving leaf slides correctly in manual mode.	☐	☐	☐	
RESIDUAL RISKS	PASS	FAIL	N/A	COMMENTS
The residual risks associated with the installation have been identified.	☐	☐	☐	
The necessary complementary protective measures have been implemented.	☐	☐	☐	
The user has been informed of the existing residual risks.	☐	☐	☐	
EXTERNAL SENSOR	PASS	FAIL	N/A	COMMENTS
The motion area is correctly adjusted.	☐	☐	☐	
The presence area is correctly adjusted.	☐	☐	☐	
The presence area timer is correctly configured.	☐	☐	☐	
HANDOVER	PASS	FAIL	N/A	COMMENTS
The inner running track and the magnets are properly clean.	☐	☐	☐	
The user has the user manual.	☐	☐	☐	
The user has been informed of the functions of the system.	☐	☐	☐	
The user has been informed of the necessary maintenance.	☐	☐	☐	

INSTALLED BY

Company: _____
 Address: _____
 Postcode: _____
 City: _____

Country: _____
 Contact: _____
 Installer's name: _____
 Installation date: _____

10.1 Declaration of incorporation

Manufacturer:	Hawa Dynamics, S.L.U.
Brand:	MOTION4
Model:	Versa Mini
Description:	Magnetic operator for automatic interior doors
Serial number:	XXXXXX-YYYY

Address:

Pasaje Arrahona 4, Nave 1 (Pol. Ind. Santiga)
08210 Barberà del Vallès
Barcelona, Spain
Tel.: +34 938 575 406
www.motion4.eu

EU Directives:

Directive 2006/42/EC

"Machinery Directive"

Directive 2014/30/EU

"Electromagnetic Compatibility (EMC)"

Directive 2014/35/EU

"Low Voltage Directive"

Directive 2014/53/EU

"Radio Equipment (RED)"

Harmonised standards:

UNE-EN IEC 62368-1:2020/AC2020-05 (Partial)

UNE-EN IEC 61000-3-2:2019 +A1:2021

UNE-EN IEC 61000-3-3:2013 +A1:2020 +A2:2022

UNE-EN IEC 55014-1:2021

UNE-EN IEC 55014-2:2021

UNE-EN 55032:2016+AC:2016-07+A11:2020 + A1:2021

UNE-EN 55035:2017+A11:2020

UNE-EN 301 489-1 v2.2.3 (2020-01-01)

UNE-EN 301 489-3 v2.1.1 (2019-05-01)

UNE-EN 301 489-17 v3.2.4 (2020-11-01)

Applicable standards and safety standards:

UNE-EN 16005+A1:2024

"Power operated pedestrian doorsets – Safety in use – Requirements and test methods"

UNE-EN ISO 12100:2012

"Safety of machinery – General principles for design – Risk assessment and risk reduction"

UNE-EN ISO 13849-1:2023

"Safety of machinery – Safety-related parts of control systems"

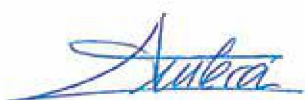
UNE-EN 60204-1:2018

"Safety of machinery – Electrical equipment of machines"

Essential health and safety requirements:

1.1.3, 1.1.5, 1.2.1, 1.2.3, 1.2.5, 1.2.6, 1.3.2 - 1.3.4, 1.3.8.1, 1.3.9, 1.5.1, 1.5.2, 1.5.4 - 1.5.6, 1.5.8 - 1.5.10, 1.5.16, 1.6.1 1.6.4, 1.7.1, 1.7.1.1, 1.7.3, 1.7.4

A-weighted sound power level (LWA): below the mandatory declaration threshold $L_{pA} < 70$ dB(A) Directive 2006/42/EC, Annex I, section 1.7.4.



Oriol Guilera

Technical Director

Barberà del Vallès, 1 September 2026



Notes.



KLEIN EUROPE

Edificio KLEIN · Polígono Industrial Can Cuyás
N-150 Km.1 · 08110 Montcada i Reixac
Barcelona · Spain

KLEIN USA, Inc.

1 Madison Street
East Rutherford, NJ 07073
USA

+ Info

www.klein.pro