

EvoDrive+

INSTALLATION MANUAL



Parts 1 & 2 of the Installation, User, and Maintenance Manual
This section must be given to the installation technician

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EvoDrive+ AUTOMATIC DOOR OPERATOR

FOR INTERIOR SLIDING DOOR

PART 1

Prologue

The first part of the manual explains the considerations that must be taken into account before installing and commissioning the **EvoDrive+** automatic door operator.



It is very important to read this manual in full, and to observe and follow all instructions as described herein.

1. INTRODUCTION

Dear client,

We thank you for your confidence in Linear Motor Applications SL and for acquiring this innovative **EvoDrive+** automatic operator for interior sliding doors.

At Lineal Motor Applications SL we offer products designed and developed following high demanding production standards, to ensure we deliver a product with the best quality, as well as a superb user-friendly experience and easy installation.

This manual includes important and necessary information for the correct and safe installation, use, and maintenance of this automatic door operator. Please, read these instructions in full before starting the installation and commissioning.

Yours sincerely,

Mr. Oriol Guilera
General Manager



2. GENERAL NORMS

This manual is applicable to the Installation, User and Maintenance of the **EvoDrive+** automatic operator for sliding doors, which is designed for being used indoors. It can not be installed on evacuation routes, exteriors of buildings, or fire exit doors.

The section in this manual related to installation and commissioning is limited only and exclusively for use by qualified skilled technicians.

2.1. WARNINGS

Before installing, using, or performing any maintenance task on the **EvoDrive+** operator, it is compulsory to read and understand the content of this manual in full.

This manual is an integral part of the automatic door operator and will have to be kept by the client or user, for future reference or consultation by the installation or after-sales service technician.

The **EvoDrive+** automatic door operator is designed only and exclusively for professionals. It is prohibited the installation and commissioning of this operator by DIY individuals.

In order to prevent damage to people, animals, or other objects, the transportation, manipulation, assembly, commissioning and maintenance must be carried out only and exclusively by qualified technicians, who must wear the appropriate protective clothing and use the suitable tools for each one of the described functions.

Once finished the installation of the **EvoDrive+** operator with its sliding leaf and related accessories, the complete assembly will form a unique piece of machinery, as described in the Directive 2006/42/CE on Machinery.

The complete risk assessment to determine the health and safety requirements, shall only be considered valid if:

- The procedures described in the installation manual have been followed and respected in full.
- The type of installation corresponds to that described in the manual.
- Any procedure of installation or measure adopted during the handling, installation, operation, maintenance, and disposal of this machine, not described or provided in this manual, will be considered as not included in the mentioned risk assessment, and therefore Linear Motor Applications S.L. declines all responsibility, being the installation or maintenance technician the full and unique responsible and liable for the compliance of the essential requirements of safety and health protection.

Due to our policy of continuous development and improvement of the products, Linear Motor Applications SL reserves the right to modify or develop the product described herein, without previous advice. Therefore, the drawings, descriptions, and data contained in this manual must not be considered as a contractual obligation, but only indicative.

All data contained in this document has been prepared and controlled rigorously, however, Linear Motor Applications SL declines all responsibility for any eventual impreciseness that may have been caused by errors or omissions during the transcription of the same.

2.2. GENERAL NORMS

The automatic **EvoDrive+** operator has been designed and developed:

- Only and exclusively for the automation of interior sliding doors, and therefore it cannot be used for purposes other than those described in this manual, in order to ensure the safety and performance of the product, under all circumstances.
- Following all points described in Directive EN16005 “Power operated pedestrian doorsets - Safety in use - Requirements and test methods” and Directive EN16361 “Power-operated pedestrian doors –Product standard, performance characteristics”, paying special attention to the articles referred to automatic sliding doors for internal use.
- For a correct performance, the maximum weight per leaf is limited to 80 Kg.

Linear Motor Applications SL declines all civil or criminal liabilities for injuries caused to persons, animals, and/or objects as a result of:

- Not proceeding following the indications contained in the installation, user, and maintenance manuals.
- A non-authorized manipulation of the product.
- The replacement of parts and/or pieces of the operator, as well as the use of accessories that are not original, or which have not been homologated by the manufacturer.
- Removing, deleting, or altering the stickers, labels, and/or other indications placed in origin, on the automatic door operator or its accessories.
- Standing within the course of the door leaf of the automatic door, or performing tasks near possible parts in motion.

2.3. RECOMMENDATIONS

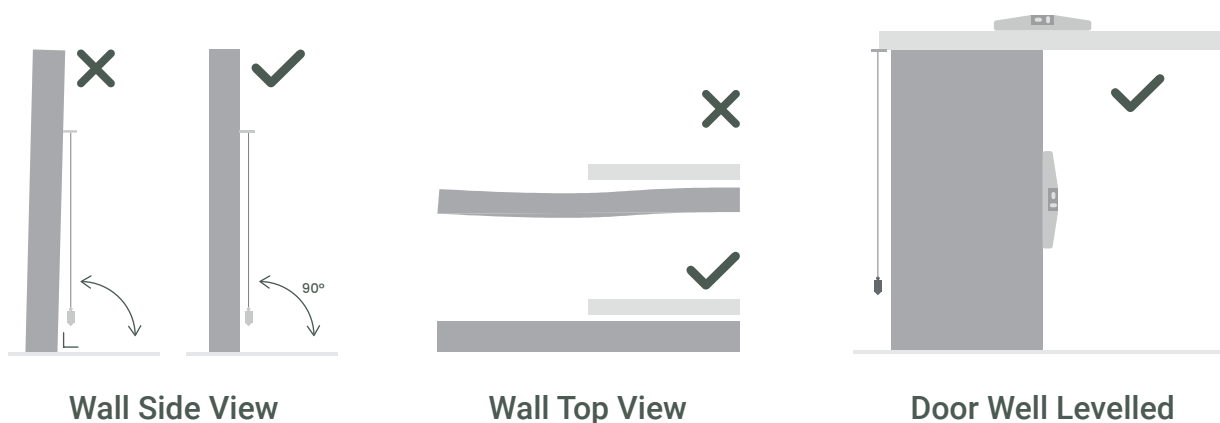
All **EvoDrive+** automatic operators are delivered with a serial number displayed on an identification sticker. For a proper identification of the product in case of claims or inquiries, the data displayed on the sticker must be communicated to the concerned person.

Before the installation starts, please check that the product described on the sticker attached to the packaging corresponds to the material ordered, and with that described in the delivery note. Verify that the product has not suffered any damage during transport. In case of damage or discrepancy, please immediately inform the manufacturer.

To prevent possible water condensation inside the packaging during the storage period, we recommend to keep the product inside its original packaging, to not expose it outdoors, to keep it away of sunlight, and to always store it in a dry environment.

2.4. INSTALLATION REQUIREMENTS

- The power cable that connects with the cable supplied must have a minimum section of 1,5 mm².
- For a good performance, the operator must be levelled in all 3 axis, and must be firmly fixed to a solid vertical surface.



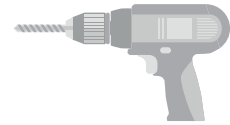
2.5. LIST OF TOOLS REQUIRED FOR INSTALLATION



Level



Wrench (n°10 and 13)



Electric Drill/Screwdriver



Hex Key (n°4)



Philips Screwdriver



Screwdriver

2.6. WARRANTY

The manufacturer's warranty for the **EvoDrive+** automatic operator will be VOID if:

- The installation, use and/or maintenance of the product was not carried out following the norms, instructions and indications described in this manual.
- Using non-original components, accessories, parts, pieces, or electronics systems, being these new or for replacement purpose, when these parts haven't been supplied or homologated by the supplier.

2.7. DISPOSAL AND RECYCLING

When disposing the packaging materials, it is recommended to check the specific norms and regulations in force at the installation site, before proceeding to dispose them.

Packaging materials are similar to other urban solid waste materials, and therefore they can be easily disposed after doing a selective classification and recycling.

When the product needs to be disposed, as this is composed of different materials, we recommend:

- Materials such as aluminium, plastic, steel, electrical cables, etc... are solid waste materials, which need to be carefully classified for a proper recycling in authorized recycling centres.
- Other components such as the plates of electronic circuits, capacitors, batteries, magnets, etc... may contain contaminating materials, and as such, they must be carefully removed and delivered to companies specialized in their evacuation, classification and disposal.



Do not throw away the packaging or product materials anywhere.
Recycle!

PART 2

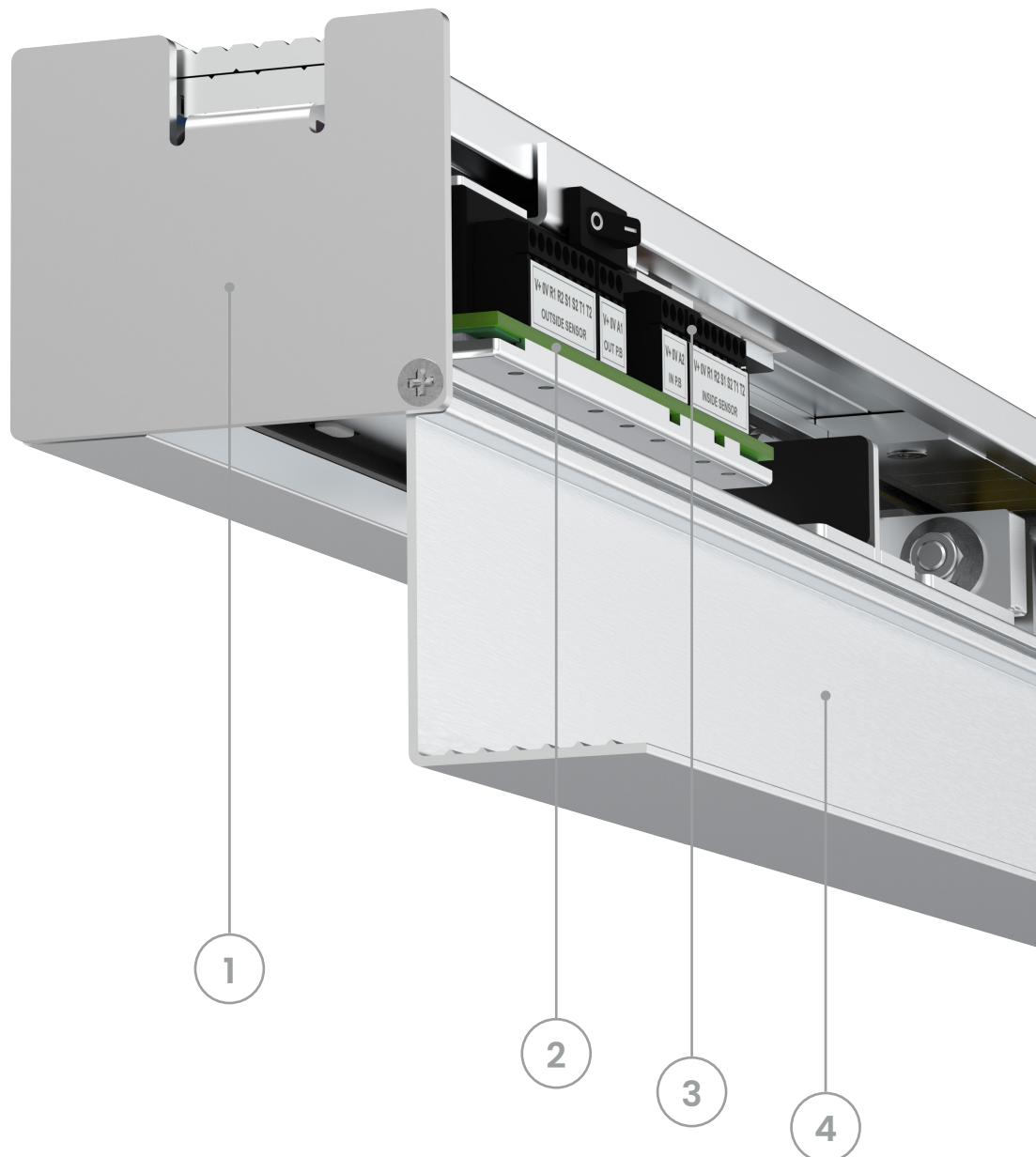
Installation

The second part of the manual explains the steps you must follow to mount the **EvoDrive+** automatic door operation.

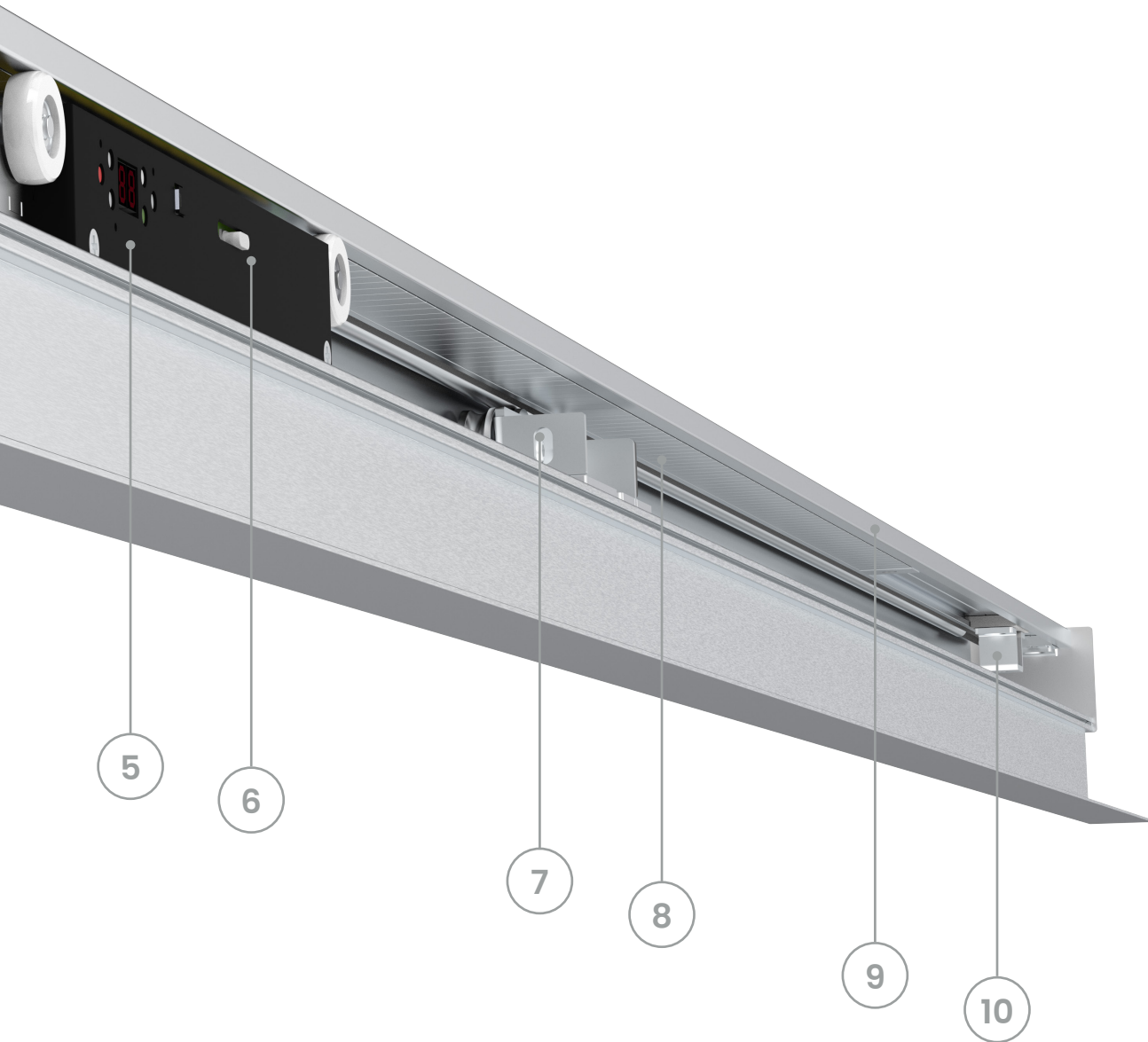


Is very important to read it carefully.

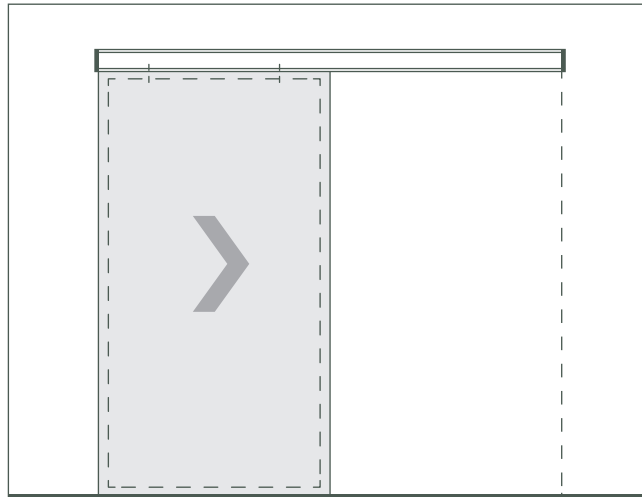
1. EVODRIVE+ COMPONENT OVERVIEW



- 01. Side Covers
- 02. Power Supply Circuit
- 03. I/O Module - Master
- 04. Aluminium Cover Profile
- 05. Linear Motor Type LSMPM
- 06. Motor Driver
- 07. Leaf Trolleys
- 08. Permanent Neodymium Magnets
- 09. Aluminium Main Profile
- 10. End Stops

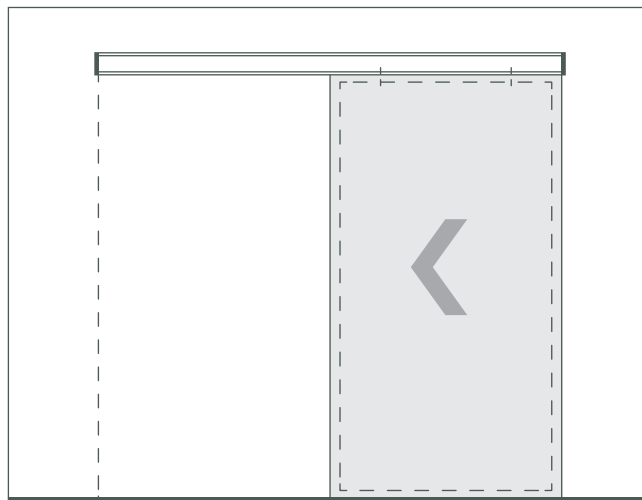


2. VERIFY THE OPENING DIRECTION AND THE OPERATOR LENGTH



RIGHT SIDE OPENING

(From the operator side)

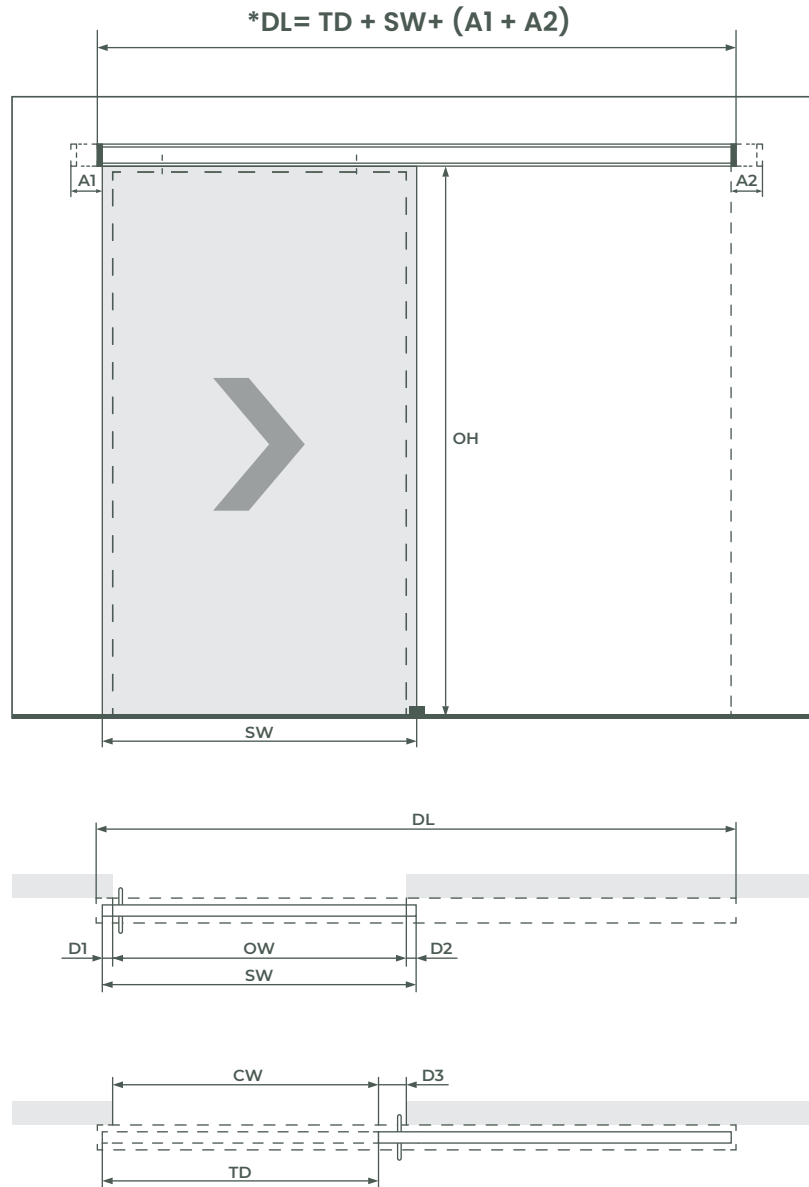


LEFT SIDE OPENING

(From the operator side)

3. MOUNTING THE OPERATOR

3.1. SINGLE LEAF DOOR: MEASURE THE OPENING WIDTH AND HEIGHT



LEGEND

DL = Drive Length

OH = Opening Height

OW = Opening Width

COW = Clear Opening Width

SW = Width of Sliding Leaf

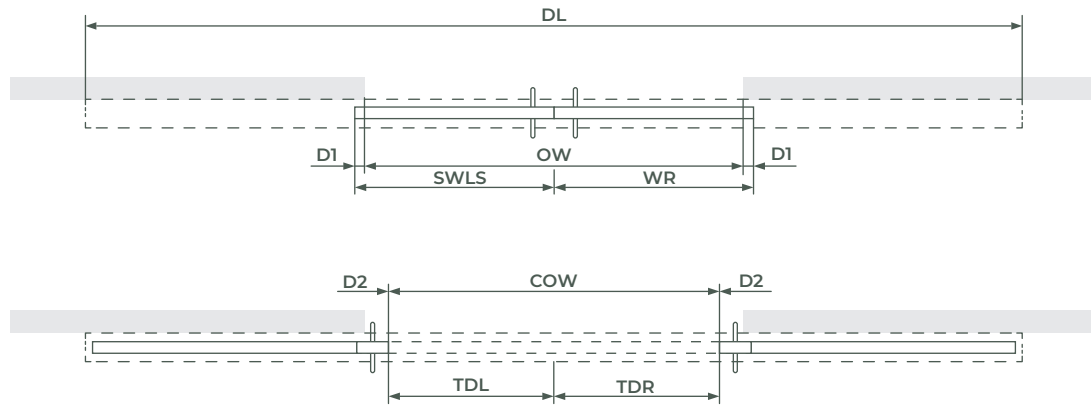
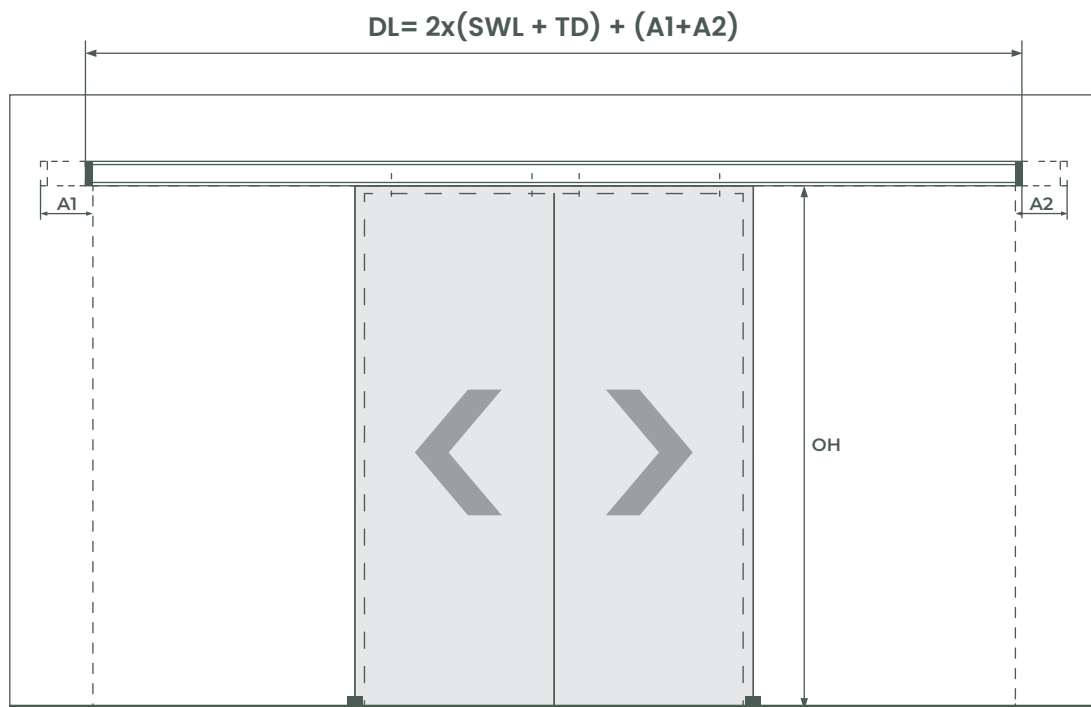
TD = Travelling Distance

D1/D2 = Overlap

D3 = Door Handle Distance

A1/A2 = Header Extension

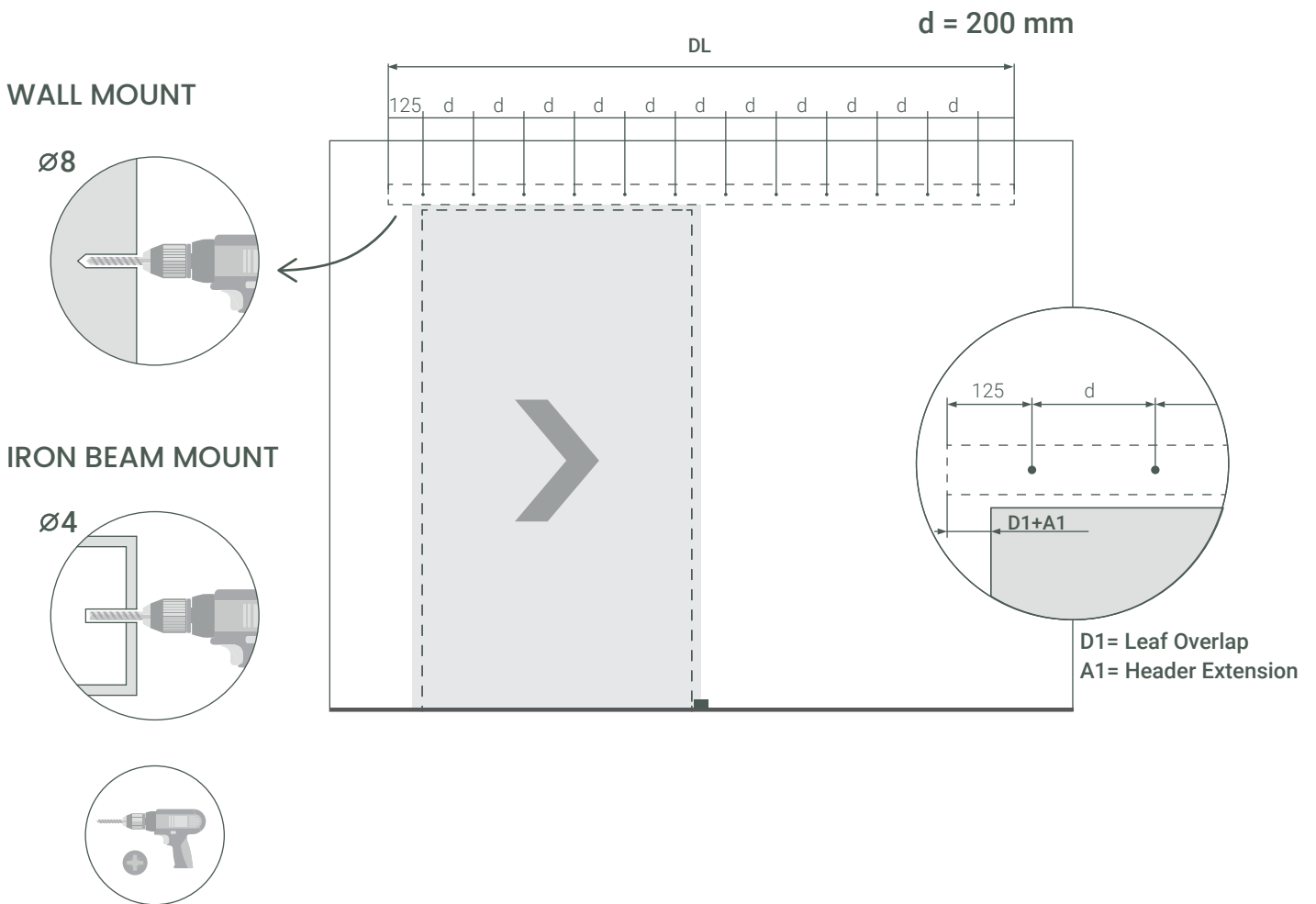
3.2. DOUBLE LEAF DOOR: MEASURE THE OPENING WIDTH AND HEIGHT



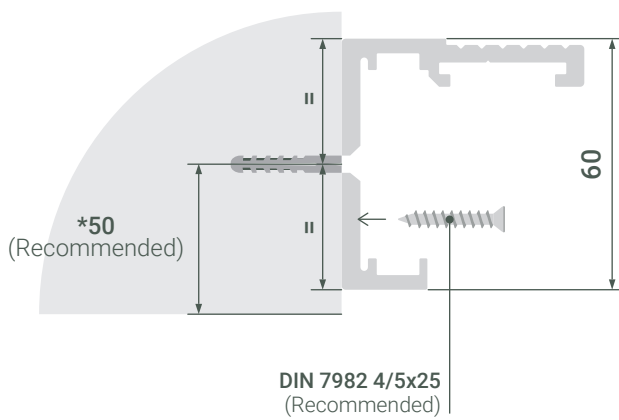
LEGEND

- DL** = Drive Length
- OH** = Opening Height
- OW** = Opening Width
- COW** = Clear Opening Width
- SWL / SWR** = Width of Left Sliding Leaf / Right Sliding Leaf
- TDL / TDR** = Travelling Distance Left Sliding Leaf / Right Sliding Leaf
- D1** = Overlap
- D2** = Door Handle Distance
- A1** = Header Extension

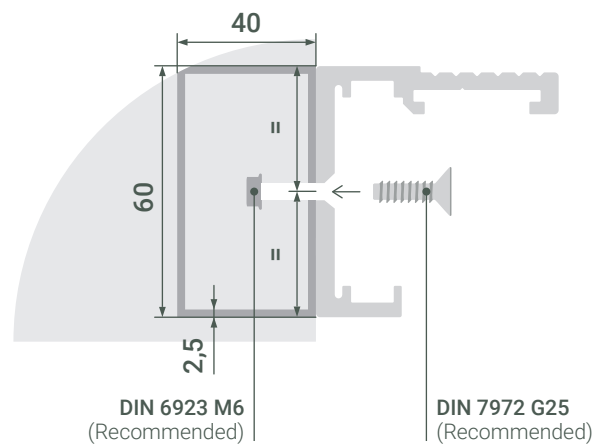
3.3. PREPARATIONS BEFORE MOUNTING



WALL MOUNT

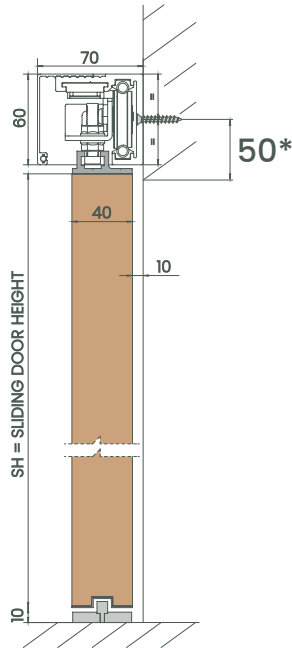


MOUNT TO IRON BEAM

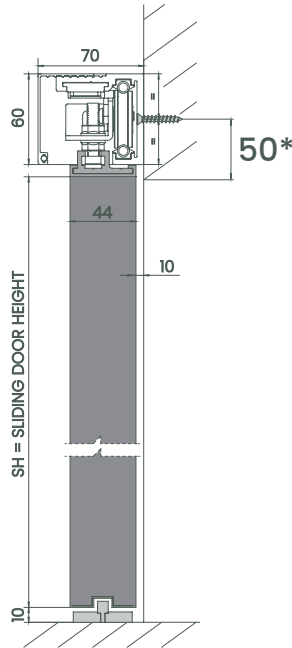


3.4. TYPES OF LEAF ADAPTERS

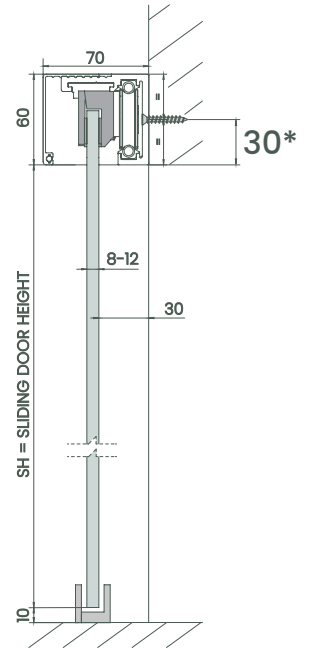
WOODEN LEAF (40 mm)



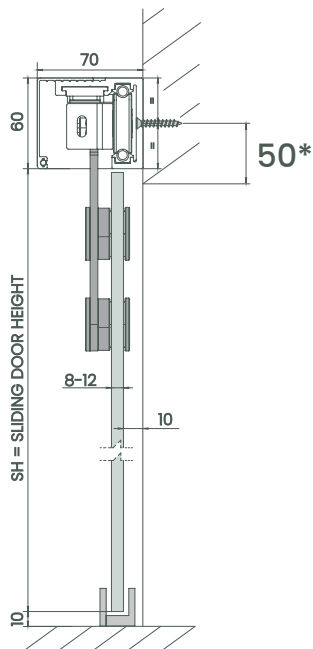
ALUMINIUM LEAF (44 mm)



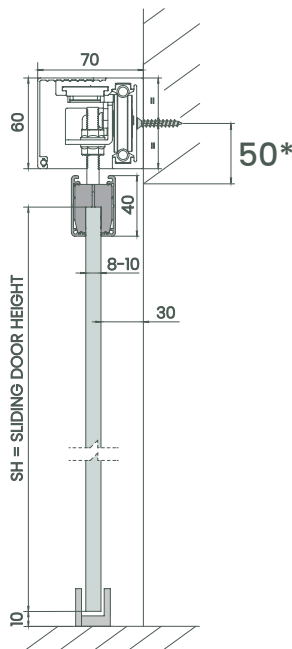
FULL GLASS (8-12 mm)



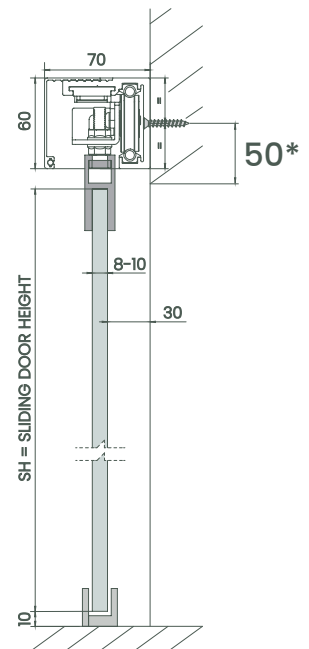
TWINS (8-12 mm)



SV-EASY (8-10 mm)



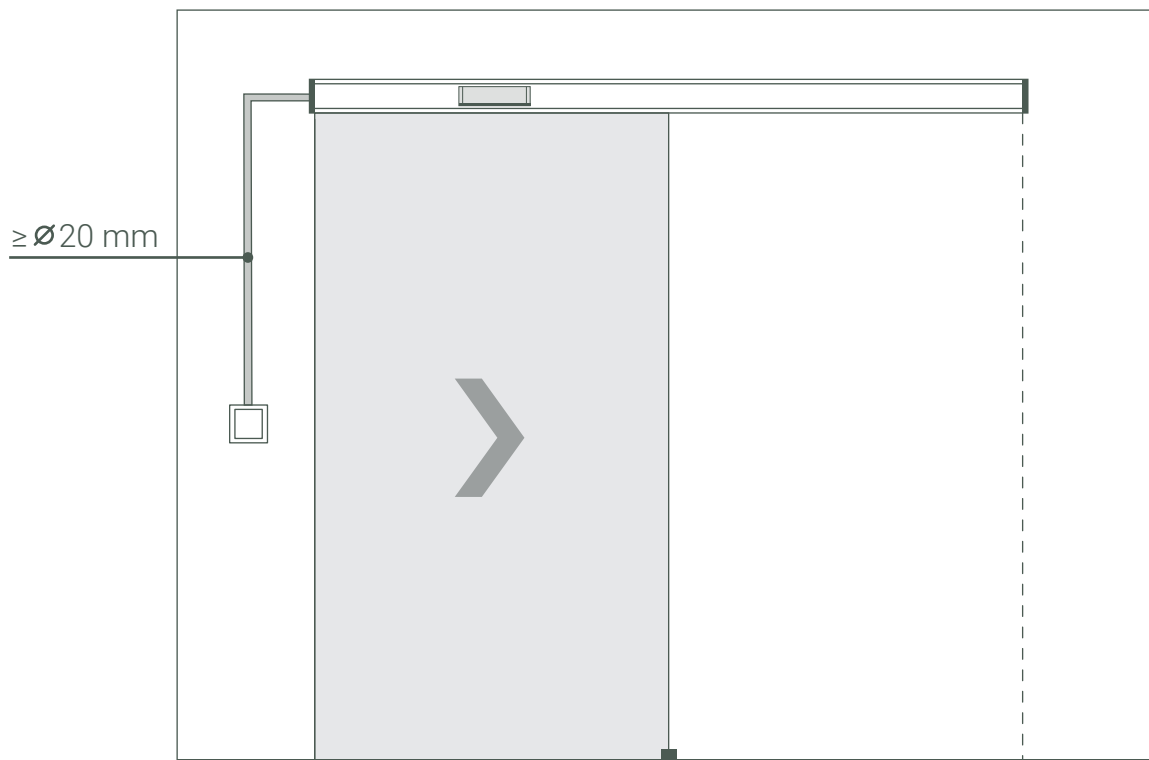
TOP RAIL (8-10 mm)



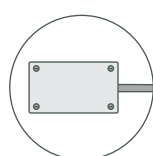
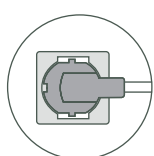
*Recommended height

3.5. LOCATION OF THE ACTIVATORS AND CONNECTION TO MAINS

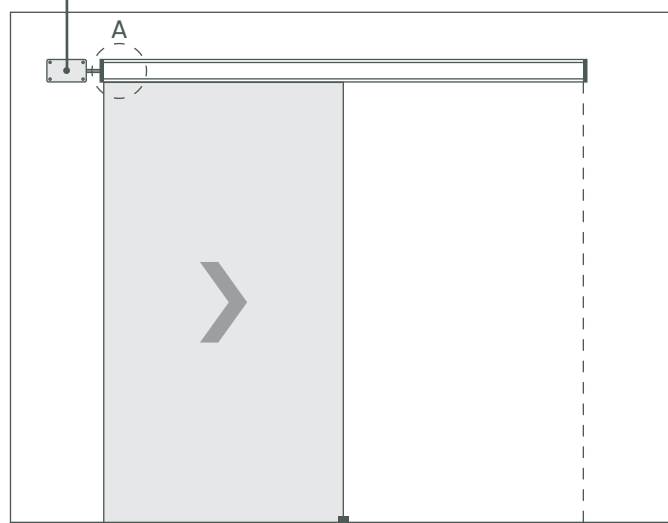
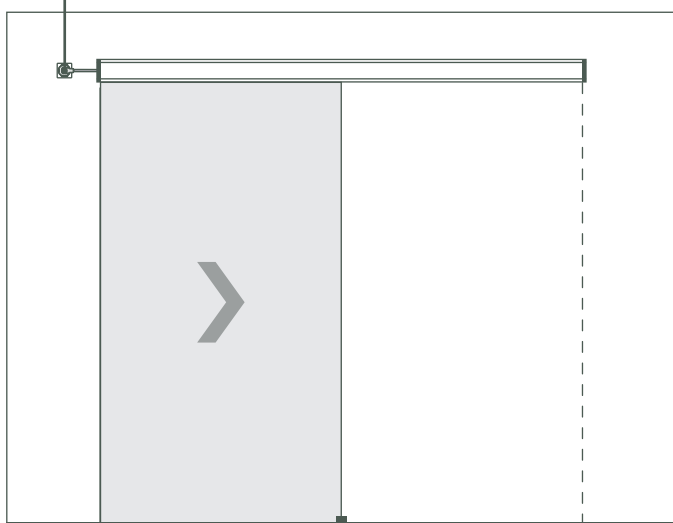
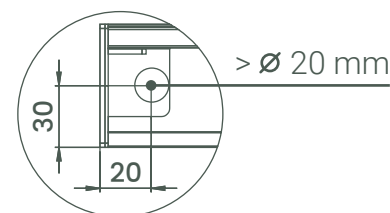
ACTIVATORS



CONNECTION TO MAINS

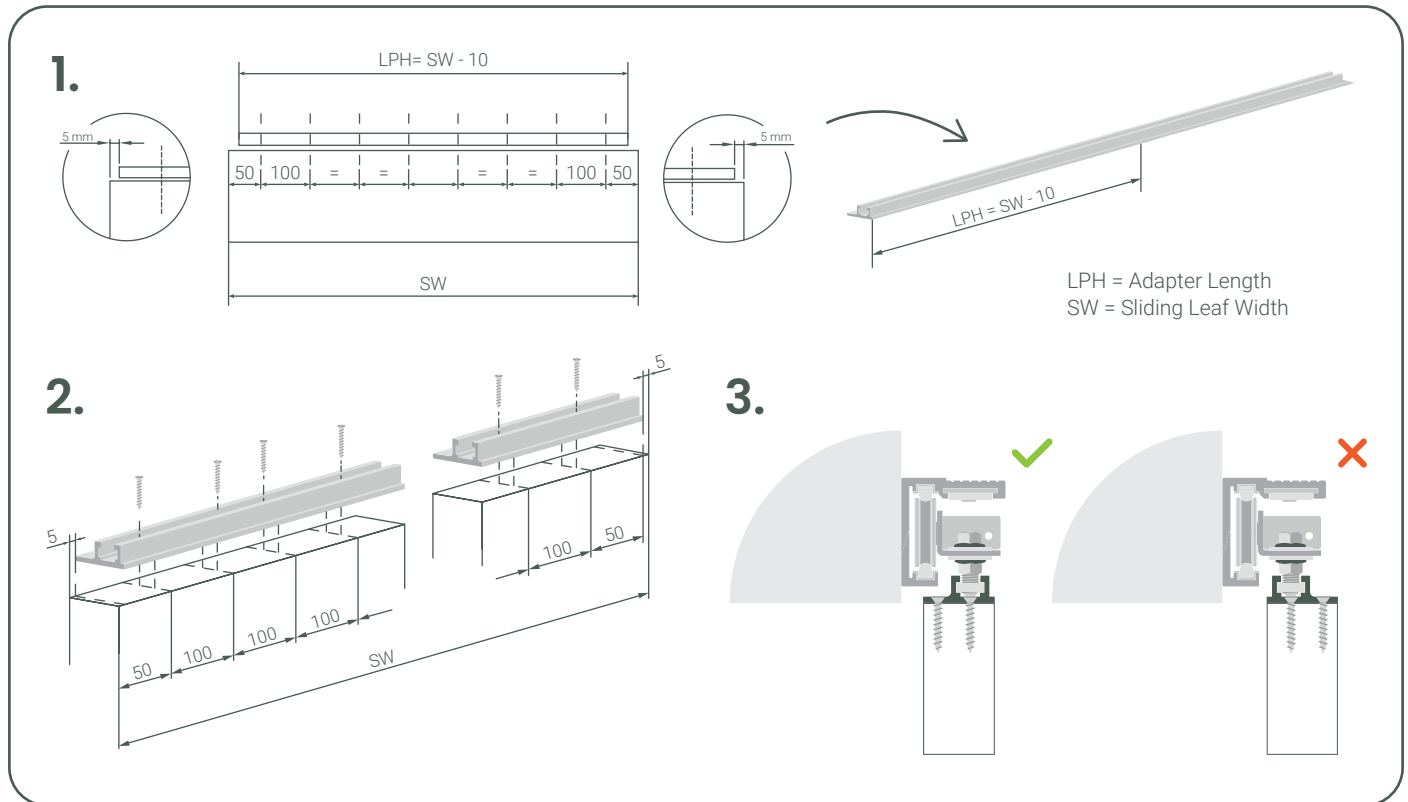


DETAIL A

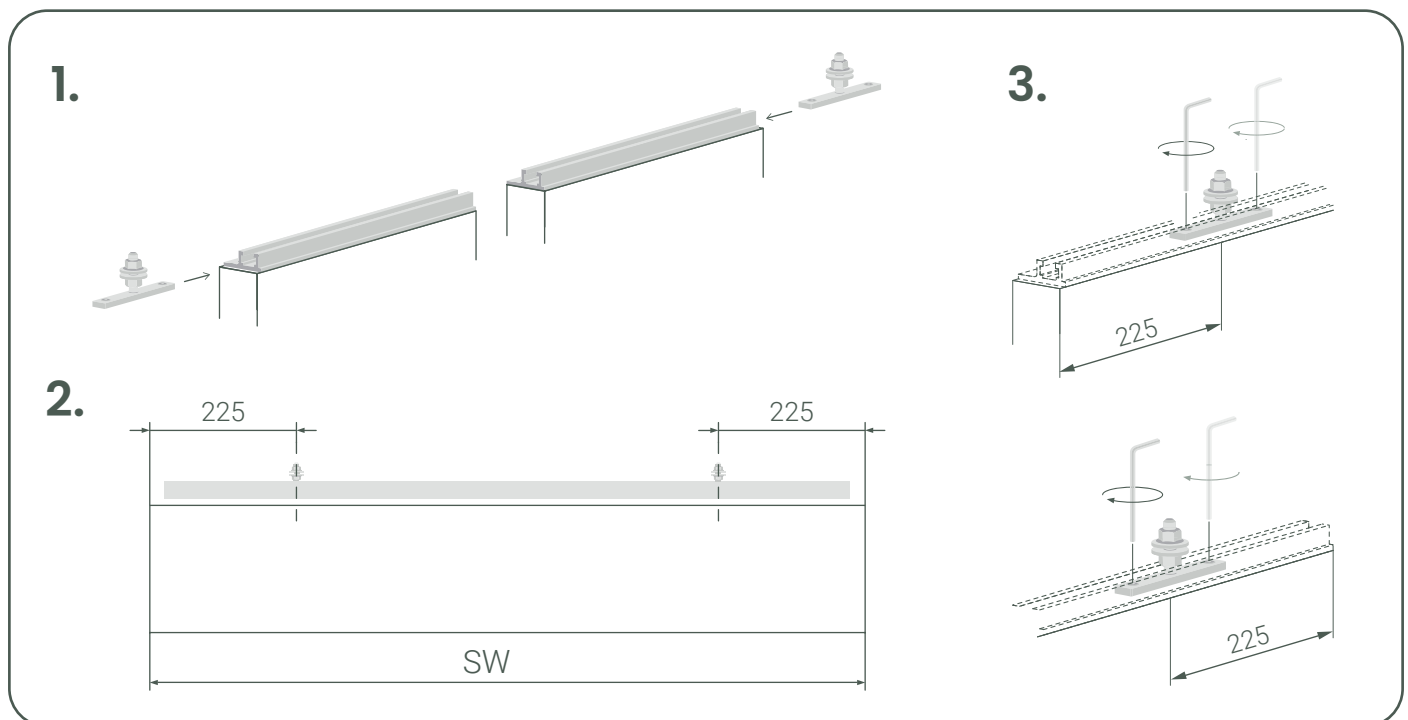


4. MOUNTING THE DOOR LEAVES

4.1. TIMBER LEAF ADAPTER: MOUNT THE ALUMINIUM PROFILE ONTO THE WOOD PANEL

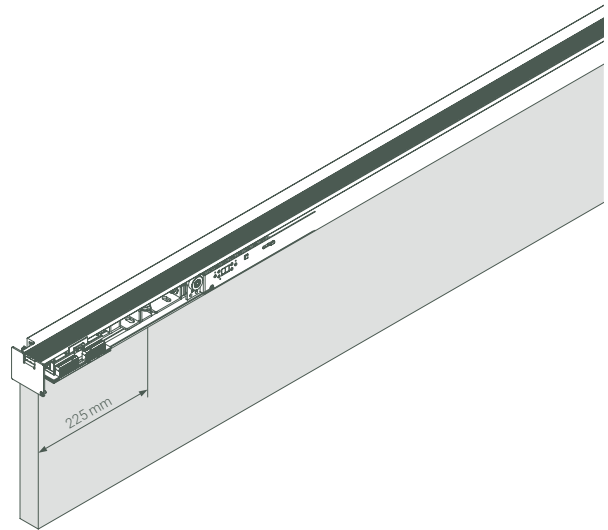
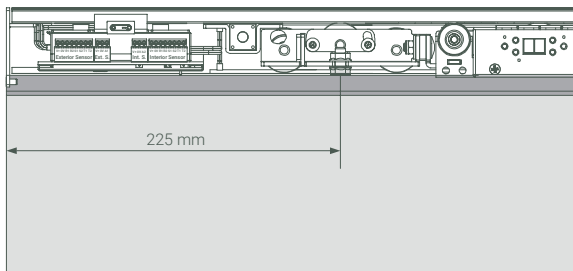


4.2. SLIDE THE LEAF CONNECTOR RODS INTO THE ADAPTER

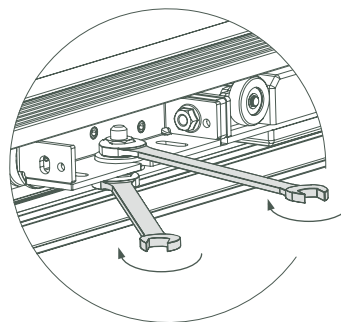
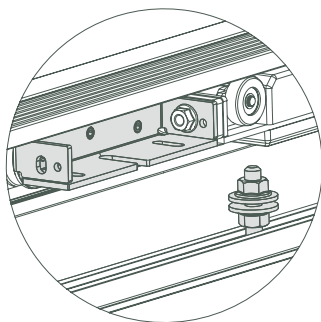


4.3. ATTACH THE LEAF CONNECTOR RODS TO THE TROLLEYS

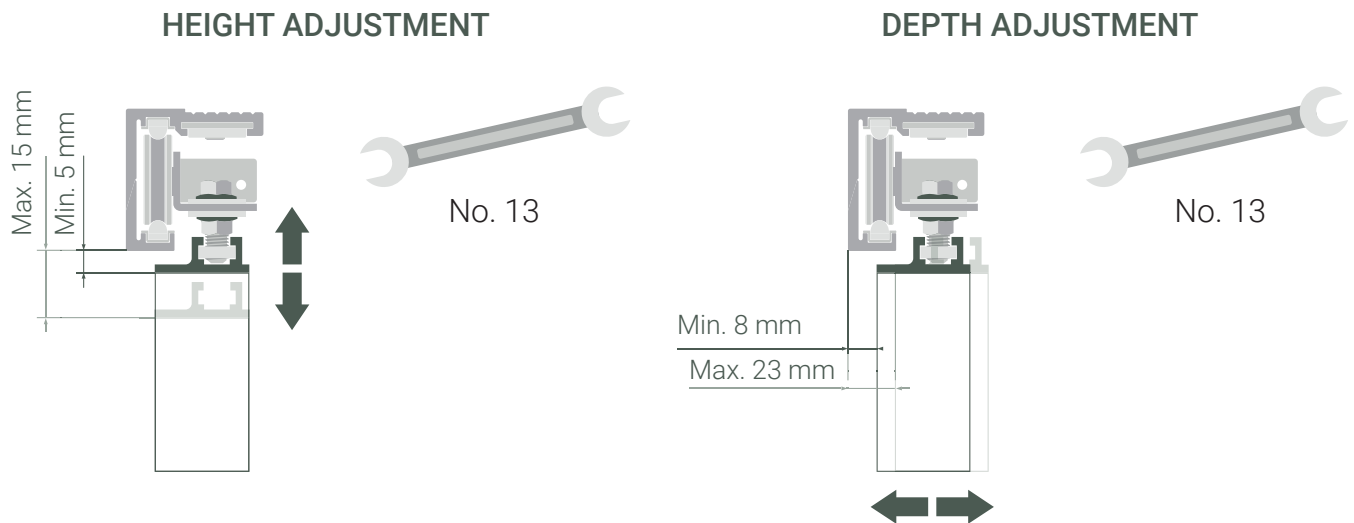
1. Identify the correct position of the leaf connectors



2. Attach the leaf connectors to the trolleys, and tighten



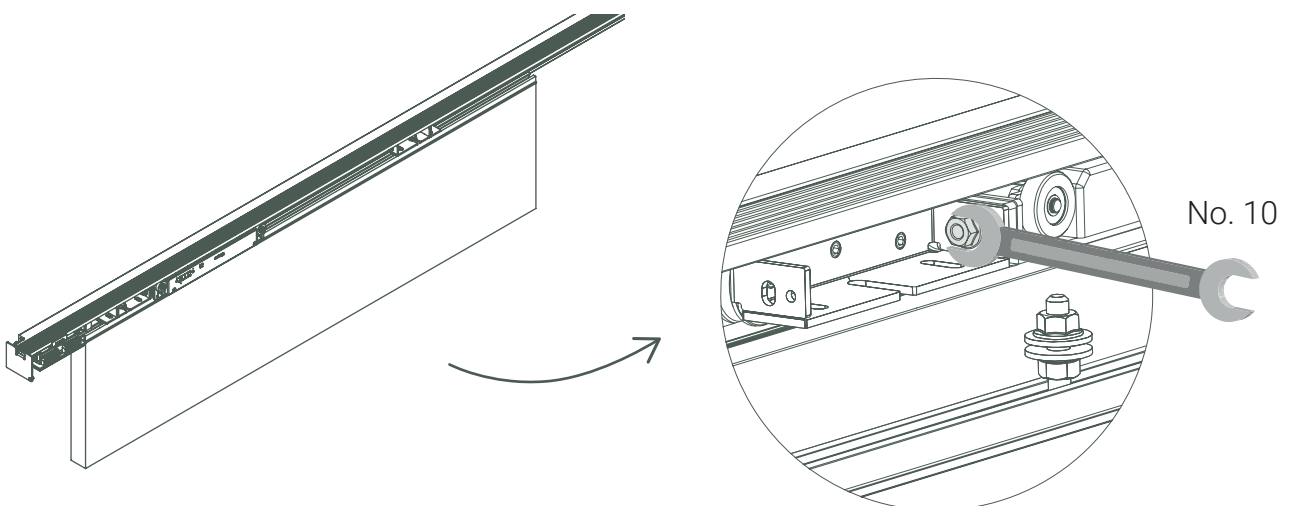
4.4. ADJUST THE DOOR LEAF



4.5. FINAL ADJUSTMENT

After the door leaf has been put in place and sliding on its floor guide, and right before running the self-adjustment, **loose the nut** that connects the front trolley with the motor, **slide the door** two times to full open and full close positions, and **tighten the nut again firmly**. Once tighten, make sure that the two front wheels of the motor slide smoothly on the top of the aluminium frame.

This simple but critical operation will balance the motor and ensure that the separation between the magnets and the motor is correct.

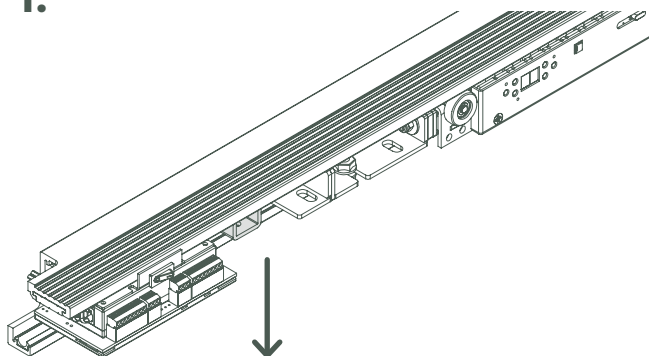


Without this final adjustment, the operator may not work properly.

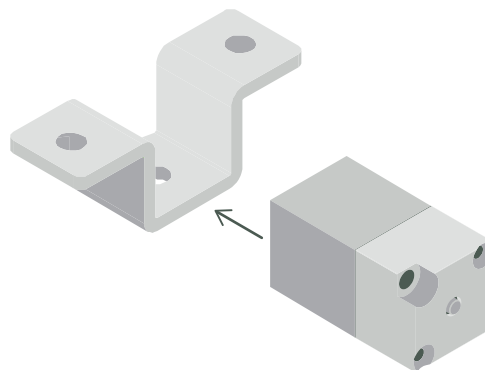
5. CONNECT THE ACCESSORIES

5.1. HOW TO INSTALL AND CONNECT THE AUTOMATIC LOCK (OPTIONAL)

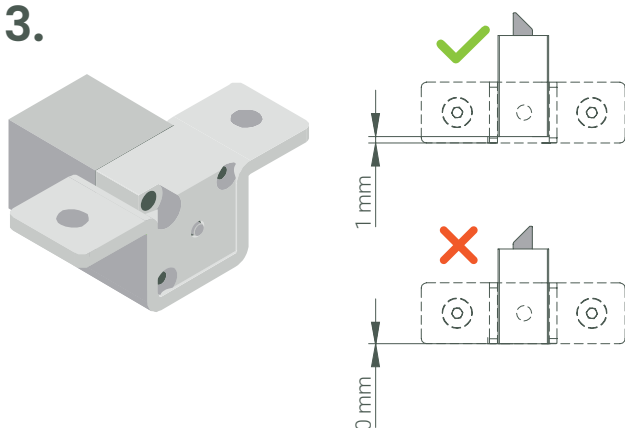
1.



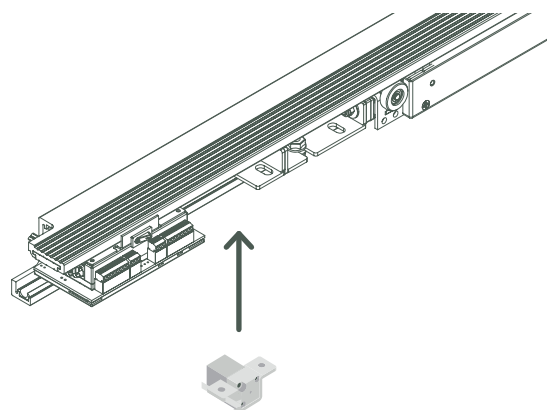
2.



3.



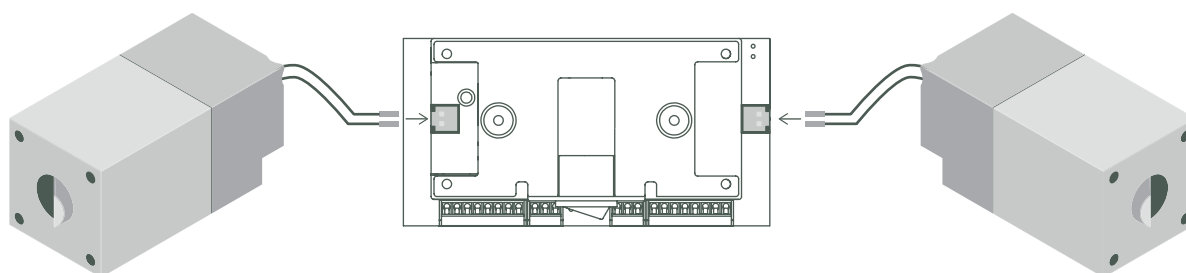
4.



5. Automatic lock wiring to the I/O module

LEFT OPENING DOOR

RIGHT OPENING DOOR

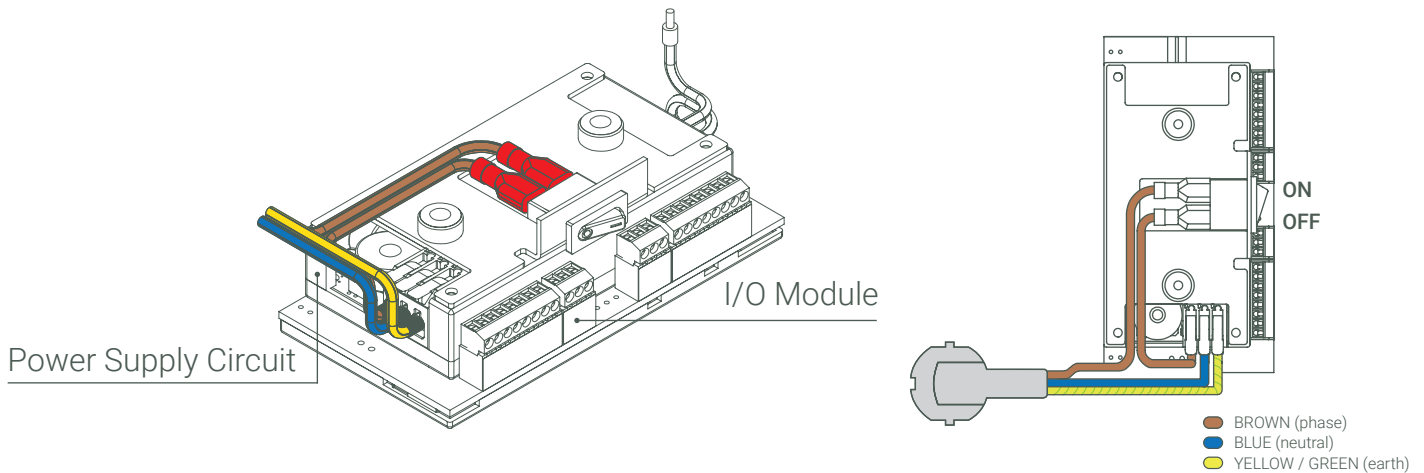


6. WIRING AND COMMISSIONING

6.1. CONNECT THE POWER CABLE

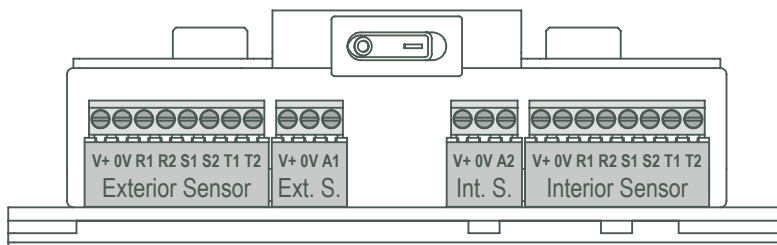


Before you connect the operator to mains, all the accessories and devices must be already wired to the I/O module. The power supply circuit in the **EvoDrive+** is compatible with 110V and 220/230V.



6.2. CONNECT THE ACCESSORIES TO THE I/O MODULE

The activation and safety devices will perform differently, depending on the operating mode selected, and to which terminals are they connected.



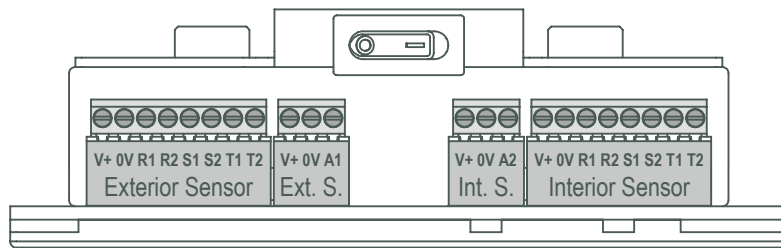
	Ext. Sensor	Ext. Switch	Int. Switch	Int. Sensor
Automatic Mode	✓	✓	✓	✓
Exit Only Mode	✗	✗	✓	✓
Open Mode	✗	✗	✗	✗
Closed Mode	✗	✗	✗	✗

✓ Enabled ✗ Disabled

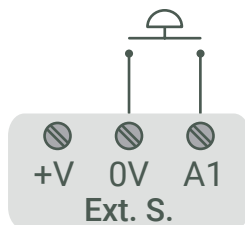
6.3. PUSH BUTTON (WIRED VERSION)



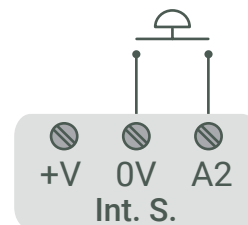
Make sure that the operator is switched OFF, and the door is disconnected from the mains, before wiring any accessory to the I/O module.



EXTERIOR PUSH BUTTON

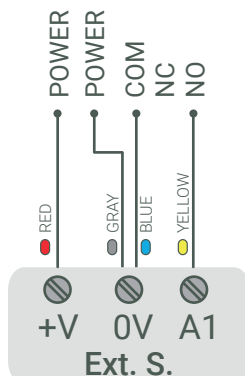


INTERIOR PUSH BUTTON

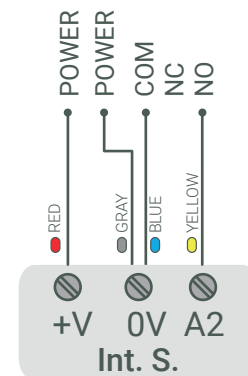


6.4. TOUCH-LESS SWITCH

EXTERIOR TOUCH-LESS SWITCH, "CLEAR WAVE" AND "MAGIC SWITCH"



INTERIOR TOUCH-LESS SWITCH, "CLEAR WAVE" AND "MAGIC SWITCH"

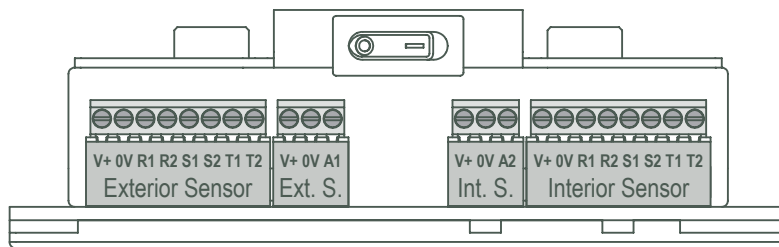


NOTE: Set DIP switch T/P in the sensor to "T"- Toggle Mode: a first detection opens the door, a second will close the door; or "P" - Pulse Mode: a detection opens and closes the door.

6.5. ACTIVATION AND SAFETY SENSOR

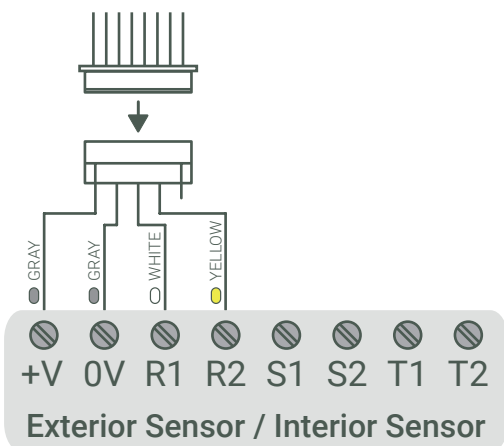


Make sure that the operator is switched OFF, and the door is disconnected from the mains, before wiring any accessory to the I/O module.

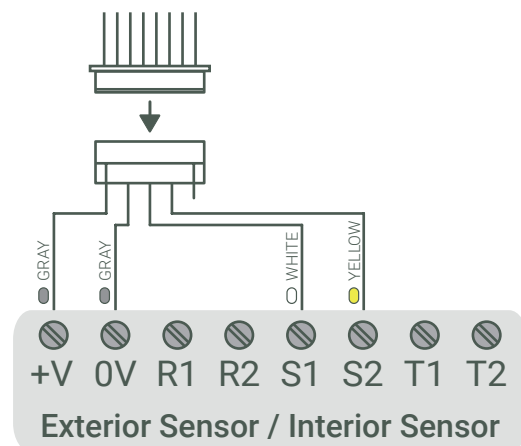


6.5.1. OPTEX OA-203C IR Sensor (Exterior / Interior)

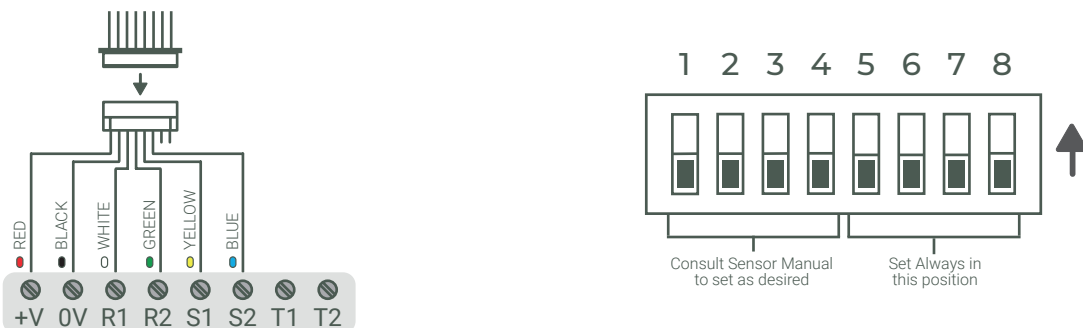
As an activation device



As a safety device



6.5.2. HOTRON 3H-IR14C Activation and Safety (Exterior / Interior)

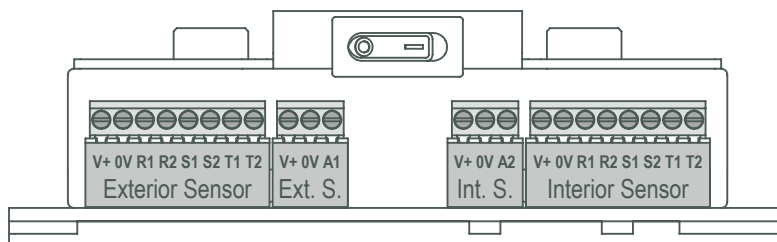


NOTE: Open the sensor, and set DIP switches 5 (Safety Output) and 6 (Activation Output) to N.O. position.

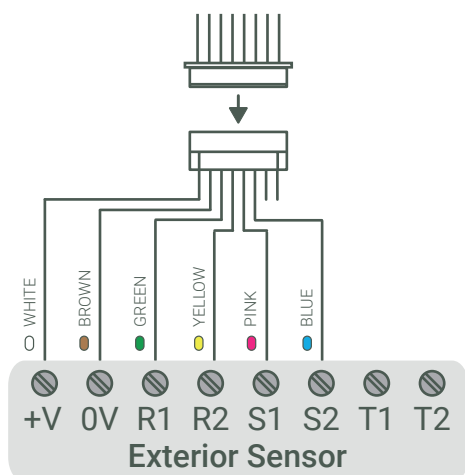
6.5.3. OPTEX OAM-DUAL T Activation and Safety Sensor (Exterior / Interior)



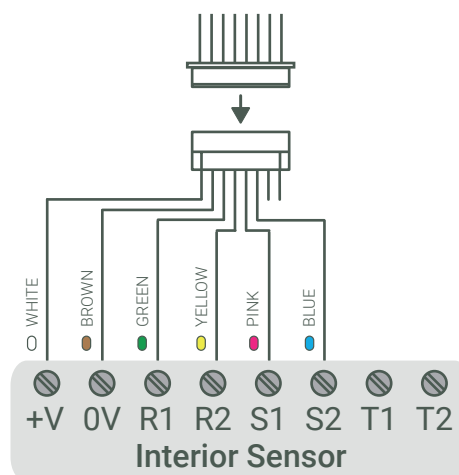
Make sure that the operator is switched OFF, and the door is disconnected from the mains, before wiring any accessory to the I/O module.



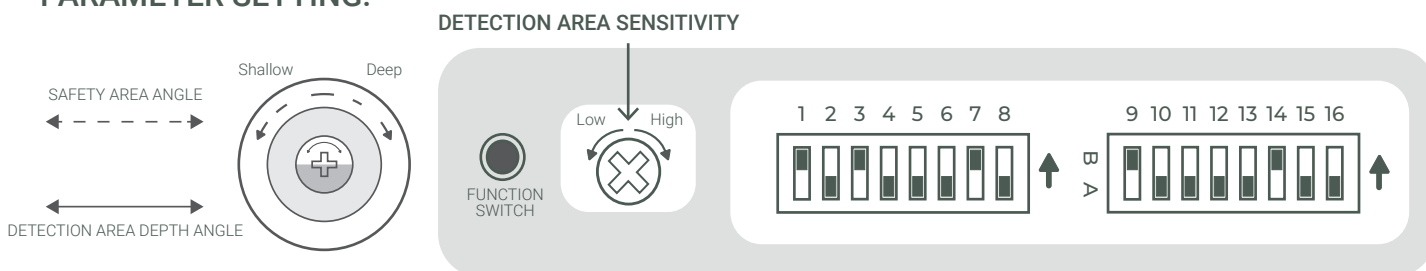
EXTERIOR



INTERIOR



PARAMETER SETTING:



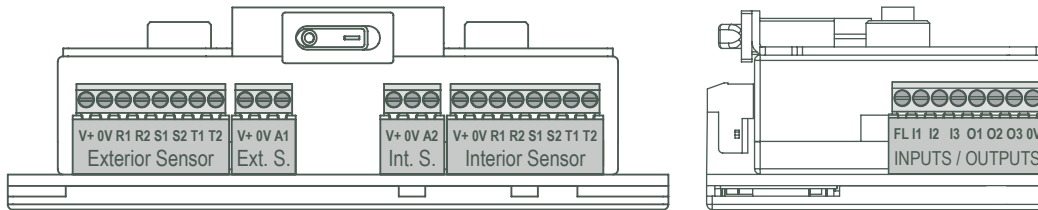
1. Adjust the angle of the safety area (Infrared) introducing the flat tip of the adjustment tool and screwing as desired.
2. Adjust the depth of the motion detection area (Microwave) introducing the crosshead of the adjustment tool and screwing as desired.
3. Adjust the sensitivity of the detection area (Microwave) by turning the potentiometer through a electrical screwdriver. After that, make sure to push the function switch for 5 seconds.
4. Adjust the DIP SWITCH settings as indicated. After that, make sure to push the function switch for 5 seconds.

6.6. PUBLIC TOILET MODE



To set up the door in toilet mode:

- An optional I/O module must be ordered, and delivered with the main control board. It cannot be added after delivery.
- The parameter “0 - Operating mode”, must be set to “5 - Public Toilet Mode”. See point 8 in this manual for further details.



BASIC version: 2 “Clearwave” or “Magic Switch” touch-less sensors (1 outside / 1 inside the toilet)

EXTERIOR TOUCH-LESS SWITCH

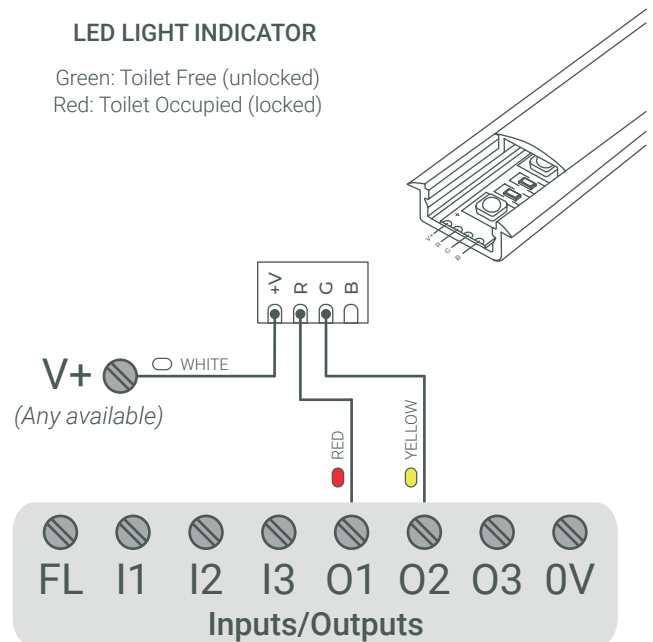
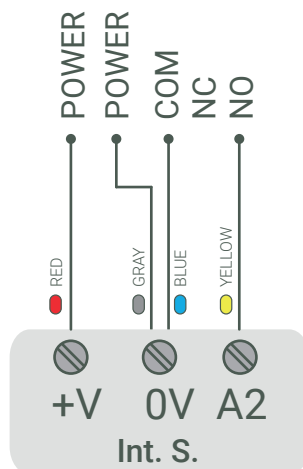
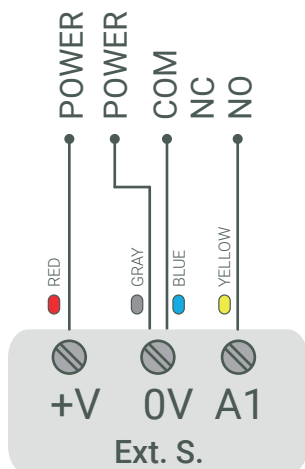
Activates the door to open, if the door is unlocked

INTERIOR TOUCH-LESS SWITCH

1. Locks the door if unlocked
2. Unlocks and opens the door to exit

LED LIGHT INDICATOR

Green: Toilet Free (unlocked)
Red: Toilet Occupied (locked)



COMFORT version: 3 “Clearwave” or “Magic Switch” touch-less sensors (1 outside / 2 inside the toilet)

FIRMWARE UPDATE UNDER DEVELOPMENT

6.7. REMOTE CONTROL (OPERATING MODE SELECTOR)



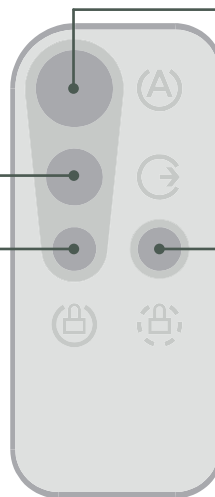
Every EvoDrive+ automatic door operator is delivered with a Remote Control that has been paired before delivery. Use this instructions ONLY for new or additional remote controls.

OPEN mode

The door will open and remain free. It will work as a manual sliding door.

CLOSED mode

The door will close and remain in that position. If the door is equipped with an automatic lock (optional), the door will be blocked in the closed position.



AUTOMATIC mode

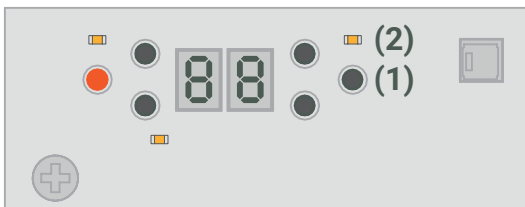
Every time an activation device (push button, touchless switch, radar or sensor) is triggered and when the door is pushed manually 5 cm, the door will open during an adjustable hold-open time and close again.

EXIT only / ACCESS control mode

The activation devices on the interior side of the door will remain active, while the devices on the exterior side will remain disabled. For a full functionality, we recommend to equip the door with an automatic lock.

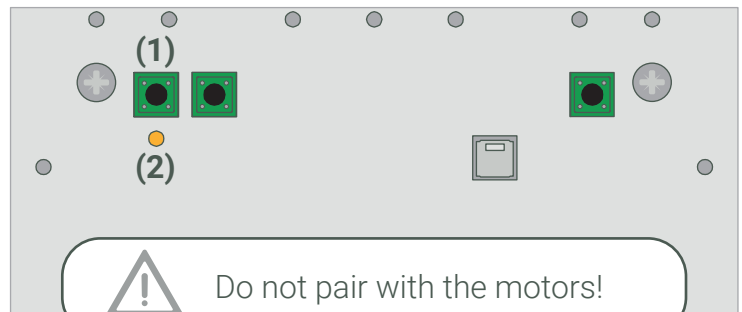
SINGLE SLIDING DOOR

Pair the remote control with the motor



DOUBLE LEAF SLIDING DOOR

Pair the remote control with the common I/O Module



To pair the remote control with the operator:

1. Turn on the operator.
2. Press button (1) until the orange LED (2) starts blinking (after approx. 10 s).
3. Press any button on the remote control.

To add more remote controls:

1. Repeat steps 2 and 3 to connect more devices.
2. One remote control can control multiple operators.
3. One operator can be controlled from up to 10 remote controls.

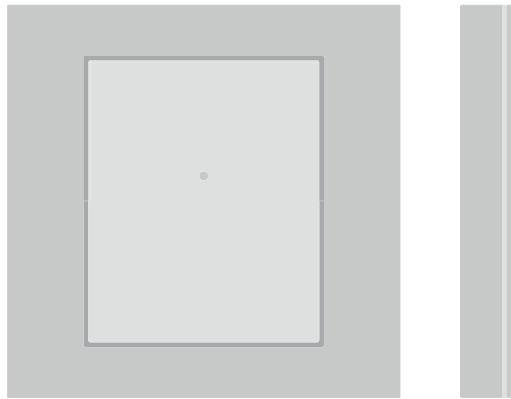
To delete all remote controls:

1. Press button (1) until the orange LED (2) stops blinking (after approx. 20 s).

6.8. WIRELESS PUSH BUTTON

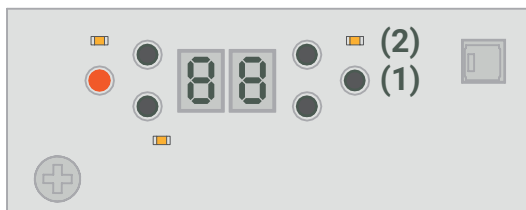


If the EvoDrive+ automatic door operator is delivered with a Wireless Push Button, this has been paired before delivery. Use this instructions **ONLY** for new or additional push buttons.



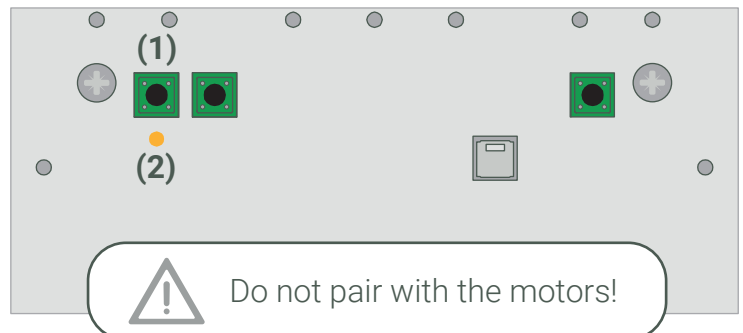
SINGLE SLIDING DOOR

Pair the wireless push button with the motor



DOUBLE LEAF SLIDING DOOR

Pair the wireless push button with the common I/O Module



To pair the push button with the operator:

1. Turn on the operator.
2. Press button (1) until the orange LED (2) starts blinking (after approx. 10 s).
3. Press any button on the push button.

To add more push buttons:

1. Repeat steps 2 and 3 to connect more devices.
2. One push button control can control multiple operators.
3. One operator can be controlled from up to 10 remote controls.

To delete all push buttons:

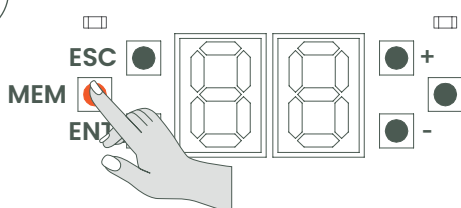
1. Press button (1) until the orange LED (2) stops blinking (after approx. 20 s).

7. SELF-ADJUSTMENT AFTER INSTALLATION



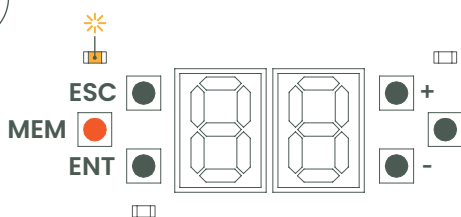
This process must be carried out after the door has been installed, and every time the door leaf has been re-adjusted, or the position of the end stops has changed. The self-adjustment computes the weight of the leaf and the opening width and does not override the parameters programmed by the service technician.

1



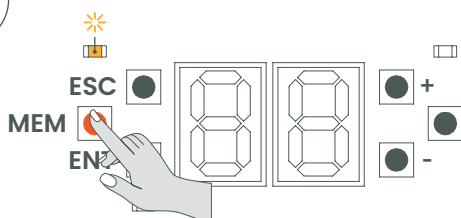
Press and hold MEM button, until MEM LED turns ON. Then release the button.

2



Wait until MEM LED starts to blink.

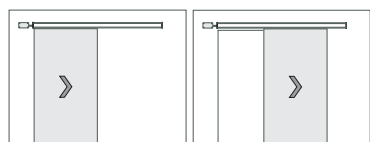
3



When the MEM LED starts blinking, press the MEM button again to start the self-adjustment process. This consists of 2 opening and closing cycles at slow speed.

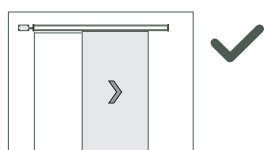
DO NOT TOUCH THE DOOR OR INTERFERE THE MOVEMENT OF THE LEAF DURING THE PROCESS!

4



The self-adjustment is completed, when the door stops after two complete cycles.

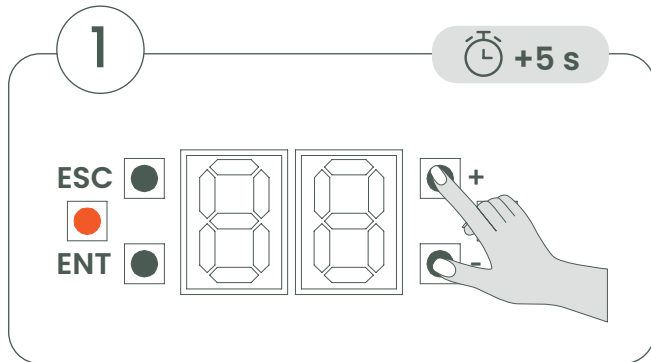
5



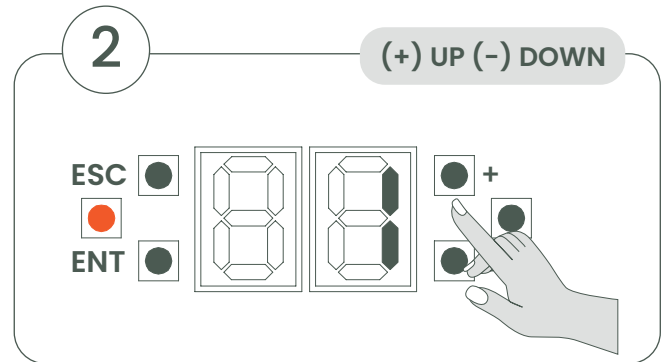
At this point, the door can be operated normally.

8. CONFIGURATION OF THE BASIC PARAMETERS

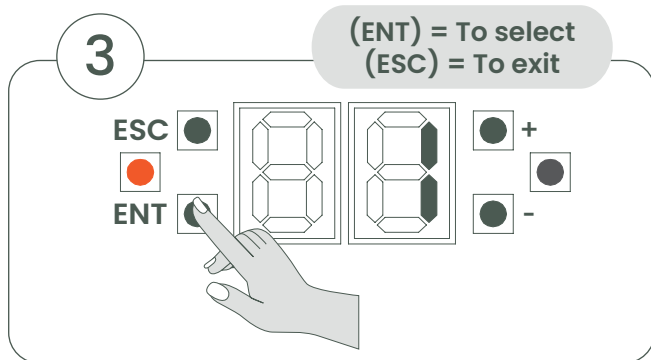
To set any of the parameters in the list below:



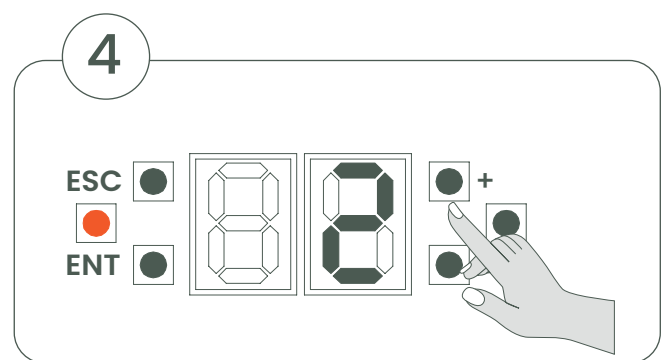
Enter the configuration mode: press and hold buttons (+) and (-) simultaneously during 5 sec., then release.



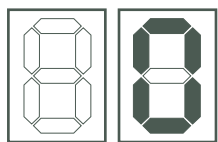
Press (+) or (-) to navigate through the different parameters, until you reach the desired parameter you want to set.



Press (ENT) when you find the parameter you wish to set.

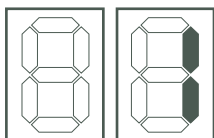


Press (+) or (-) to navigate through the different values in that parameter, then press (ENT) to set the desired value.



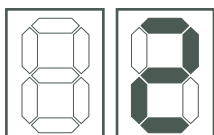
Operating Mode. If you lost the remote control, or if you don't have one, you may select the door operating mode from here. Set to:

- '0'. Automatic Mode - *Default Value*
- '1'. Open Mode
- '2'. Exit Only Mode
- '3'. Closed Mode
- '4'. Loop Mode
- '5'. Public Toilet Mode



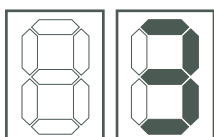
Hold Open Time. Sets the length of time that the door remains open before closing after being activated, in Automatic or Exit Only Modes (Note: parameters 05 and 06 must be set to "0"). Set to:

- '0'. ca. 0 sec - **Default Value**
- '1'. ca. 2.5 sec
- '2'. ca. 5 sec
- '3'. ca. 10 sec



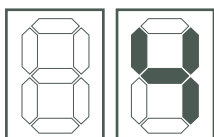
Opening Speed. It's a relative value that depends on the opening width and the weight of the leaf (Note: parameter 04 must be set to "High Energy mode"). Set to:

- '0'. Minimum
- '1'. Low
- '2'. High - **Default Value**
- '3'. Maximum



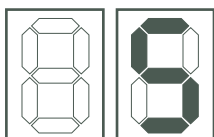
Closing Speed. It's a relative value that depends on the opening width and the weight of the leaf (Note: parameter 04 must be set to "High Energy mode"). Set to:

- '0'. Minimum - **Default Value**
- '1'. Low
- '2'. High
- '3'. Maximum



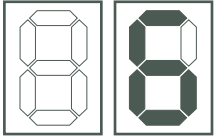
Energy Mode. Set to:

- '0'. High Energy - **Default Value**
- '1'. Low Energy. As described in the European Norm EN16005, in LE mode, the minimum travelling time of the door leaf is determined by its mass, to limit the force required to prevent a stopped doorset from opening or closing any further, which has implications in the type of safety sensors to be installed. Speed is determined by the operator, and overrides parameters 02 and 03.



Bi-stable. Sets the reaction of the door after being triggered by an activation device, in Automatic and Exit Only modes. Set to:

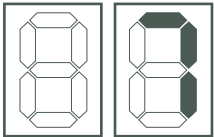
- '0'. Normal Mode. The door opens and closes automatically after every activation - **Default Value**
- '1'. Bi-stable mode. The door opens and stays open after being activated once; and will close and stay closed after a second activation.



Push&Go / Push-to-open and Push to close. Sets the reaction of the door after the leaf or door handle has been pushed manually, in Automatic and Exit Only modes. Set to:

'0'. Push / Go / Normal Mode. The door opens and closes automatically after pushing the leaf or door handle manually 5 cm in the opening direction - **Default Value**

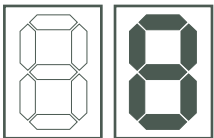
'1'. Push-to-open & Push-to-close. The door opens and stays open after pushing the leaf or door handle manually 5 cm in the opening direction; and will close and stay closed after pushing it manually 5 cm to close.



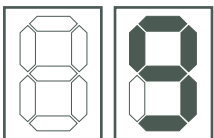
Reduced Opening. Sets the opening width or travelling distance of the door leaf, when activated in Automatic or Exit Only modes. Set to:

'0'. Full opening - **Default Value**

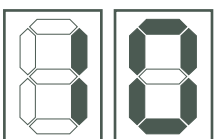
'1'. Reduced opening. The door opens half of its travelling distance



Opening Movement. Adjusts the smoothness of the final movement at the end of the opening cycle. Set between 0 and 8. Reduce the value if the door vibrates when approaching the end stop on opening. Or increase the value if the door hits the end stop. Default value is '4'.



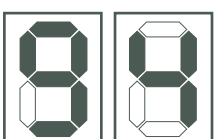
Closing Movement. Adjusts the smoothness of the final movement at the end of the closing cycle. Set between 0 and 8. Reduce the value if the door vibrates when approaching the end stop on closing. Or increase the value if the door hits the end stop. Default value is '4'.



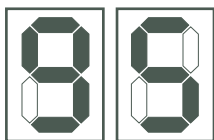
Closing Force. Adjusts the force to overcome possible frictions that may interfere at the end of the closing cycle. The parameter can be set to a value between 0 (lower force) and 3 (higher force). Default value is '0'.



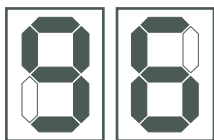
RESERVED. DO NOT CHANGE



RESERVED. DO NOT CHANGE

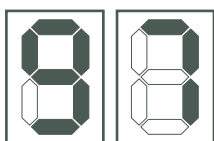


RESERVED. DO NOT CHANGE



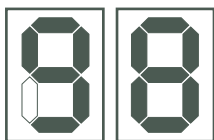
Opening Direction. Before running the self-adjustment, set the door opening to:

- '0'. Left. The door opens from right to left
- '1'. Right. The door opens from left to right

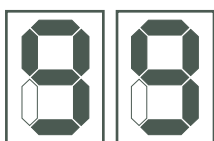


Bluetooth Pairing. Use this parameter only when you change the motor and/or I/O module with a new one, and you need to pair them. Set it to:

- '0'. Working Mode
- '1'. Pairing Mode



Reset. Navigate to code '98' and press ENT to reset all the parameters to factory/default values.

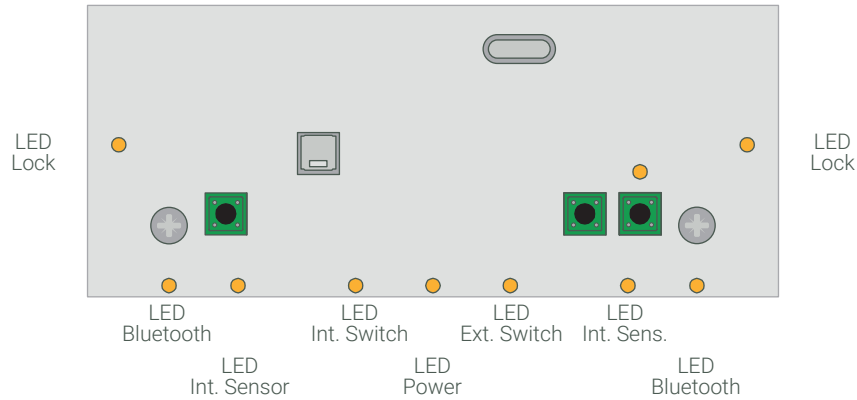


Read Parameters. Navigate through the different values between 0 to 5, then press ENT to read that value:

- '0'. Number of Opening/Closing Cycles (x1000)
- '1'. Motor PCB Temperature (°C)
- '2'. Leaf Weight (kg.)
- '3'. Firmware Version
- '4'. Internal Use Only
- '5'. Door Leaf Travelling Distance (cm)

9. DESCRIPTION OF THE LED INDICATORS ON THE I/O MODULE

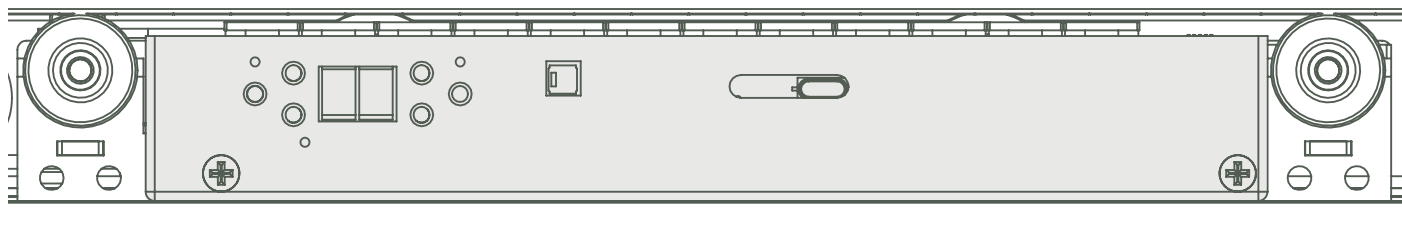
I/O MODULE



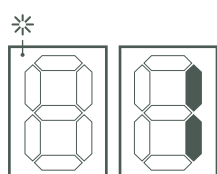
LED INDICATORS

LEDs	DESCRIPTION
POWER	ON when the operator is energized
BLUETOOTH	ON after switching the power on OFF in normal working mode Fast BLINK in pairing connection process Slow BLINK during the connection process
INTERIOR SENSOR	ON when activated, otherwise OFF
EXTERIOR SENSOR	ON when activated, otherwise OFF
INTERIOR SWITCH	ON when activated, otherwise OFF
EXTERIOR SWITCH	ON when activated, otherwise OFF
LOCK	ON when the lock is in blocked position, in Close or Exit Only Mode

10. MALFUNCTION CODES

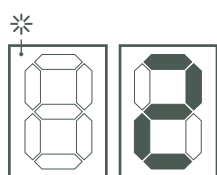


In case of malfunction, a numeric code will BLINK on the motor two-digit display.



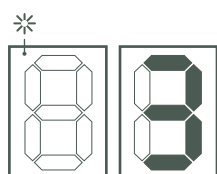
Description: Motor Overcurrent

Action: Switch the operator off and on again. If the error persists, call an official service technician.



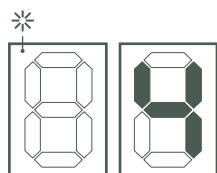
Description: Encoder Malfunction

Action: Verify the presence of magnets above the full length of the motor, along the entire travelling movement; that the stoppers on both sides of the array of magnets are firmly fixed and not moving; and there is no gap between magnets (the array of magnets is composed of several modules of 16 magnets, measuring 20 cm each module).



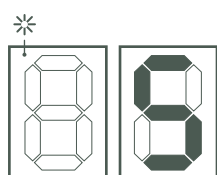
Description: Leaf Weight is above limits

Action: Check that the door leaf weights under 80 Kg; check that the friction of the floor guide is not excessive; check that the door leaf is totally vertical (not tilted) and well balanced; check that the leaf slides smoothly along the entire travelling distance.



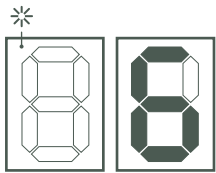
Description: Motor Temperature is above limits

Action: Verify that the environment temperature is under 40°C.



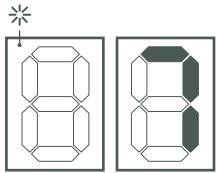
Description: Overvoltage

Action: Call an official service technician.



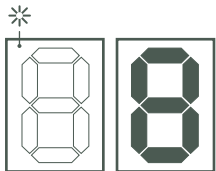
Description: Bluetooth communication is missing between the motor and I/O module

Action: Pair the motor and I/O module back together.



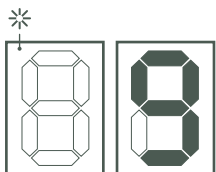
Description: Problem on the electronic board clock

Action: Switch the operator off and on again. If the error persists, call an official service technician.



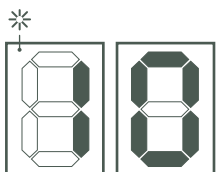
Description: Problem on the internal non-volatile memory in the electronic board

Action: Switch the operator off and on again. If the error persists, call an official service technician.



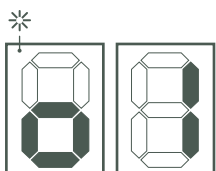
Description: Problem on the internal program memory in the electronic board

Action: Switch the operator off and on again. If the error persists, call an official service technician.



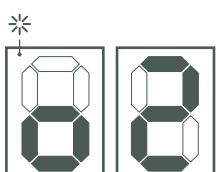
Description: Hardware Overcurrent

Action: Switch the operator off and on again. If the error persists, call an official service technician.



Description: Obstruction found during the opening cycle

Action: Remove the obstruction; check that the floor guide is not causing too much friction; check that the door leaf is totally vertical (not tilted) and well balanced; check that the leaf slides smoothly along the entire travelling distance.



Description: Obstruction found during the closing cycle

Action: Remove the obstruction; check that the floor guide is not causing too much friction; check that the door leaf is totally vertical (not tilted) and well balanced; check that the leaf slides smoothly along the entire travelling distance.

11. EVODRIVE+ INSTALLATION CHECKLIST

End user: _____
 Address: _____
 Zip code: _____
 City: _____
 Country: _____

Operator serial number: _____

Basic operation	Complies	Doesn't comply	Not applicable	Comments
Self-adjustment				
Push & Go				
Push button				
Remote control				
Operating modes	Complies	Doesn't comply	Not applicable	Comments
Automatic				
Open				
Closed				
Exit Only / Access control				
Mechanical / Electrical elements	Complies	Doesn't comply	Not applicable	Comments
Door leaf fixing and carriers				
Door movement area				
Interference with wall or frames				
Leaf is evenly levelled				
Distance between floor and leaf is 6 - 10 mm				
Frictions				
End stops				
Door leaf status				
Locking device				
Adjustments	Complies	Doesn't comply	Not applicable	Comments
Opening speed				
Hold-open time				
On power failure	Complies	Doesn't comply	Not applicable	Comments
The lock opens				
Works in manual mode				
Internal sensor	Complies	Doesn't comply	Not applicable	Comments
Movement area adjustment				
Presence area adjustment				
Presence timing				
External sensor	Complies	Doesn't comply	Not applicable	Comments
Movement area adjustment				
Presence area adjustment				
Presence timing				
Other activation and safety devices	Complies	Doesn't comply	Not applicable	Comments
Activation (pushbuttons, touch-less switch, access control etc.)				
Safety / Protective guards				
Hand-over	Complies	Doesn't comply	Not applicable	Comments
Cleaning				
User manual is handed over to the end user				
The end user has been informed about the EvoDrive+ functions				
Maintenance manual is handed over to the owner				

INSTALED BY:

Company: _____ Country: _____
 Address: _____ Contact: _____
 Zip code: _____ Installation technician: _____
 City: _____ Date of installation: _____

12. DECLARATION OF CONFORMITY CE

(Directive 2006/42/EC - Directive on Machinery)

Installer:

Address:

Declares that:

Door description:

(Model, type)

Serial number:

Installed in (location):

(Serial number of EvoDrive+)

(Client, address)

- The installation is conform to the requirements set in the Directive of Machinery 2006/42/EC.
- The installation is conform to the specifications set in the following EC directives:
Directive **2014/30/EU** on "Electromagnetic Compatibility (EMC)" and amendments.
Directive **2014/35/CE** on "Low Voltage Directive".
- The installation is conform to the technical specifications set in harmonized standard EN 16005:2013/AC:2015: "Power operated pedestrian doorsets".
- I declare that the installation has passed the final operation and safety check control of the automatic drive and all the elements associated to it.
- I declare that I have duly informed the end user on the user instructions for the correct and safe use of the product.

The following local and national norms and specifications have been applied:

Date:

Installer readable signature:

**INSTALLERS STAMP OR
SIGNATURE**

**LINEAR DRIVE STICKER - CE
MARK**

TO BE FILLED OUT BY THE INSTALLER

MOTION4
DOORS

