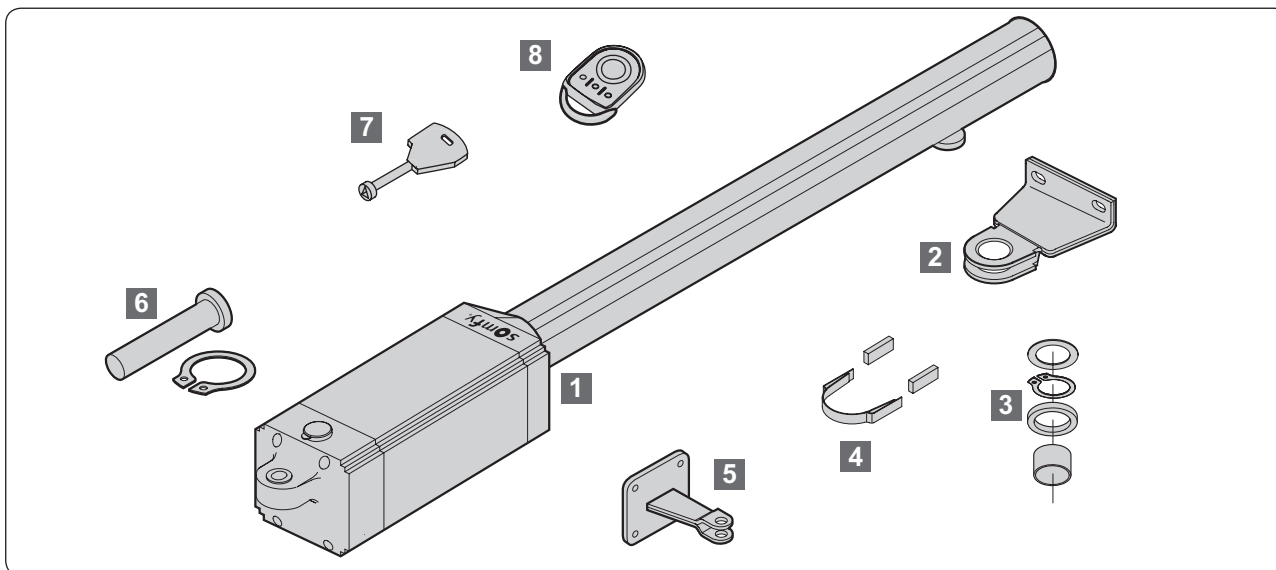


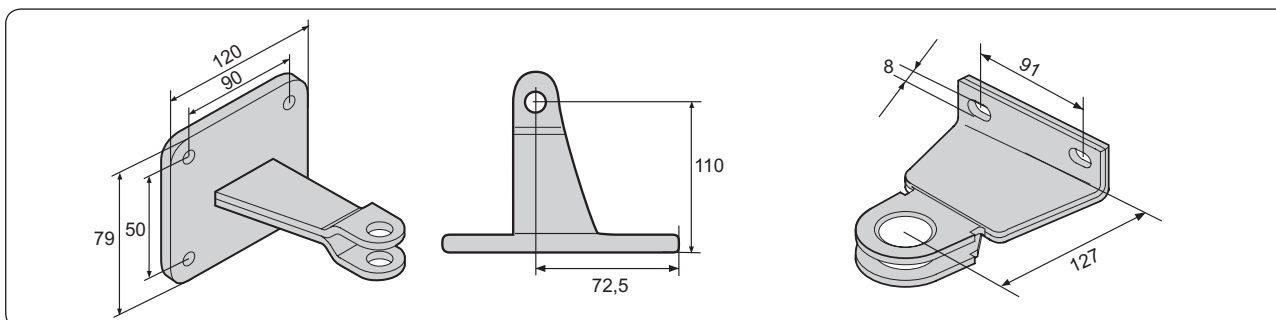
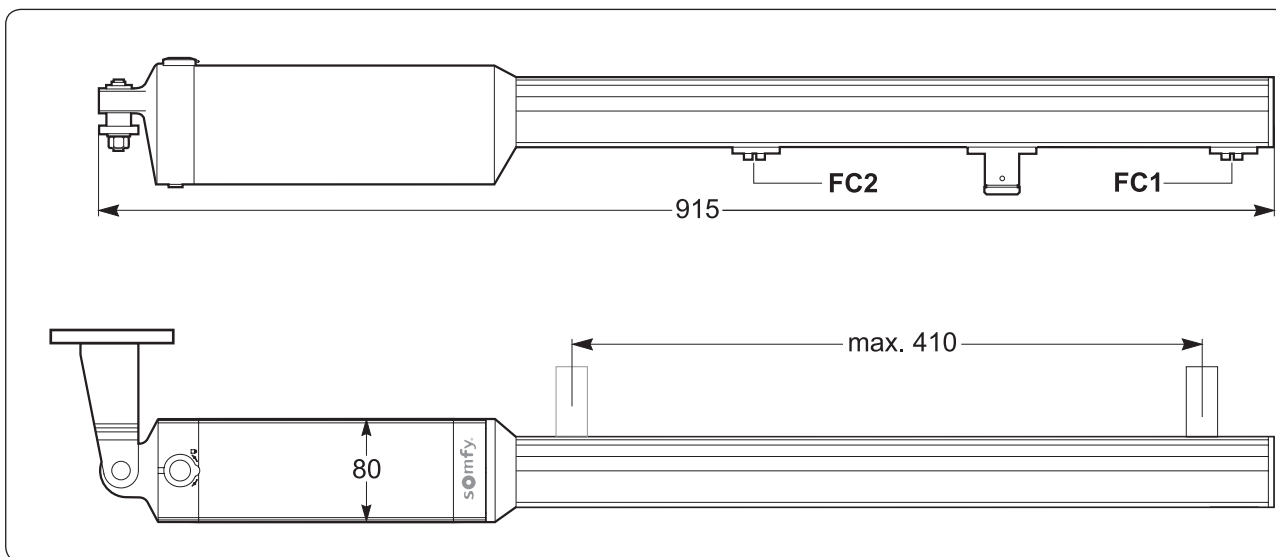
PRODUCT DESCRIPTION

Components

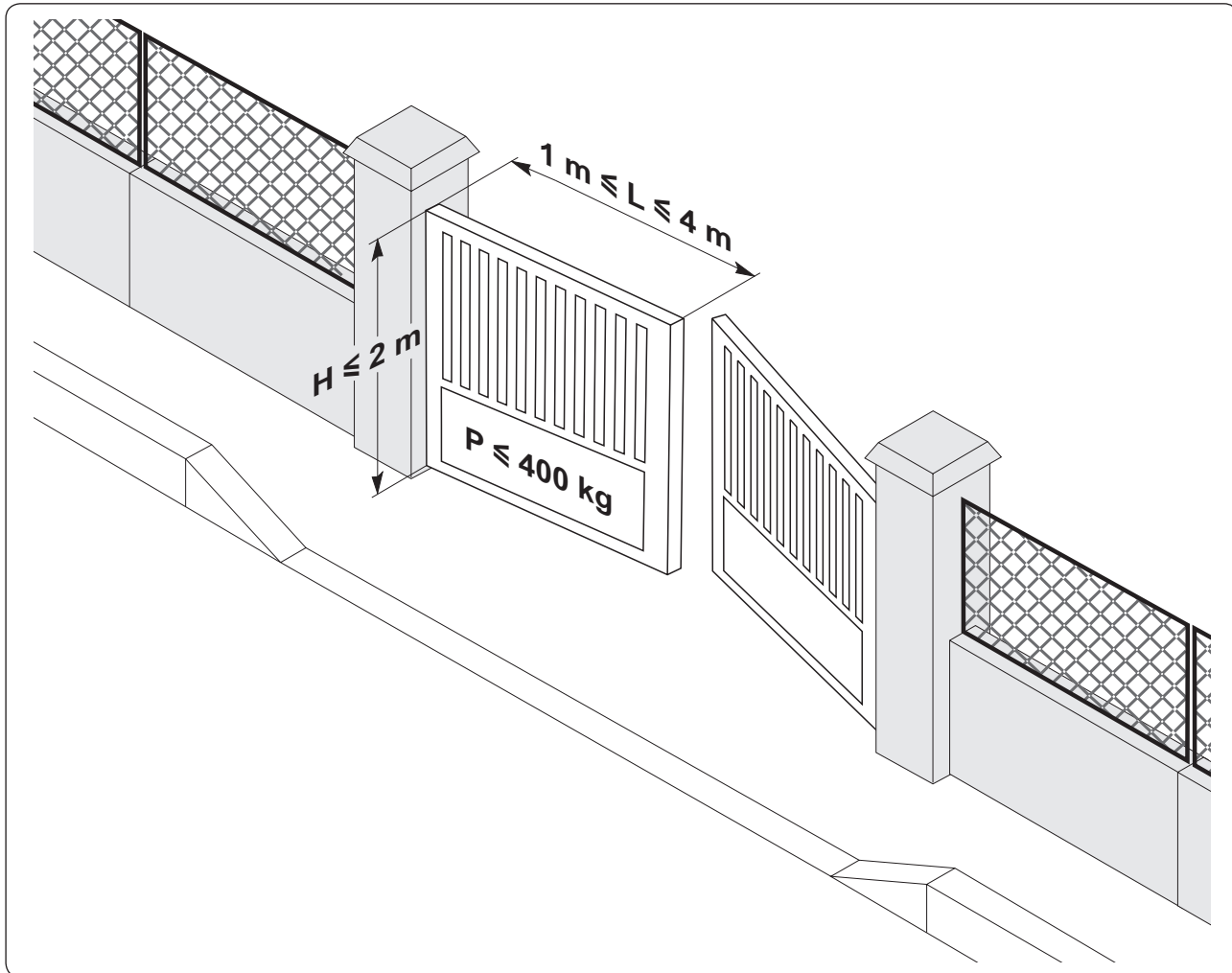


Key	Number		Description
	Kit	Motor only	
1	2	1	Ixengo L motor unit
2	2	1	Gate mounting bracket
3	2	1	Washers and circlips
4	2	1	Magnet holder + 2 magnets
5	2	1	Gate post mounting bracket
6	2	1	Motor/gate post mounting bracket hinge pin
7	1	1	Unlocking key
8	2	0	Keygo RTS remote control

Dimensions



Application



POINTS TO CHECK PRIOR TO INSTALLATION

Preliminary checks

Ensure that the gate structure is strong enough. In all cases, the drive rod must push the gate section towards a reinforced point.

It must be possible to move the gate by hand without encountering any hard point. Check that the gate is in good condition and is perfectly balanced.

The gate section limit stops mounted on the ground must be provided for both the opening and closing directions. Somfy recommends installing gate open limit stops to improve the way the gate is held open.

For an existing gate, check component wear. If necessary, repair or replace faulty or worn parts.

If the gate does not include any reinforcing, use metal reinforcing plates when attaching brackets.

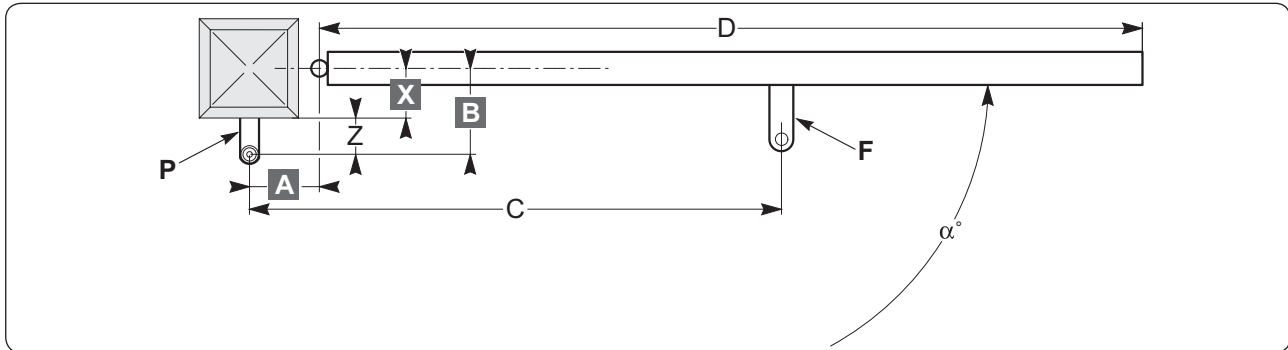
Safety instructions

Be sure to follow these safety instructions throughout installation:

- Take off any jewellery worn (bracelet, neck chain or other) during installation
- During drilling and welding operations, always wear special goggles and suitable protective clothing
- Always use proper tools
- Never connect to the mains power or the battery backup before finishing the assembly process.

INSTALLATION

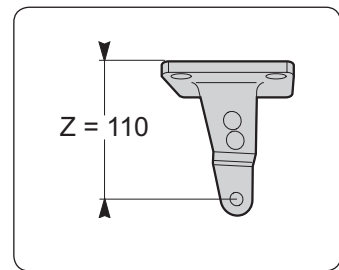
The figure below illustrates the dimensions to be defined for installation.



EN

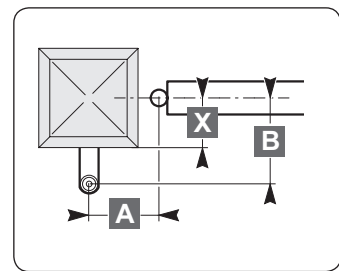
Key:

- A-B:** dimensions used to determine where to fit the post mounting bracket **P**
- C:** distance between mounts (recommended value: 805 mm)
- X:** distance from the gate centreline to the post edge
- Z:** distance between the post edge and the motor rotation centreline
- α° : gate opening angle
- P:** post mounting bracket
- D:** gate section length
- F:** gate section mounting bracket.



Fitting the post mounting bracket

- Define the desired opening angle " α° ".
- Measure the **X** dimension on the gate.
- Calculate **B = Z + X** given that **Z = 110 mm**
- From the table, choose **A** and **B** dimensions that are close to identical so as to match the opening speed and ensure proper motor drive operation. If the chosen dimensions are too far apart, gate section motion will not be constant and the push or pull torque applied will vary during motion.



The table shows the optimum values for **A** and **B** for the various " α° " opening angles.

B \ A	100	110	120	130	140	150	160	170	180	190	200	210	220	230
130	103	106	110	112	116	118	121	123	126	124	113	107	103	99
140	102	105	109	111	113	117	120	122	124	119	109	103	99	97
150	101	104	108	110	112	116	118	120	123	112	105	100	96	94
160	100	103	106	109	112	114	117	119	121	106	101	97	94	92
170	100	102	105	108	111	113	116	118	109	102	98	94	91	
180	99	102	104	107	110	112	114	117	103	98	94	91		
190	98	101	104	107	109	111	113	107	99	95	91			
200	98	101	103	106	108	110	112	100	95	91				
210	97	100	103	105	107	109	103	95	91					
220	97	100	102	104	106	108	95	91						
230	96	99	101	104	105	97								
240	96	99	101	103	101	91								
250	95	98	100	102	91									
260	95	98	100	92										α°

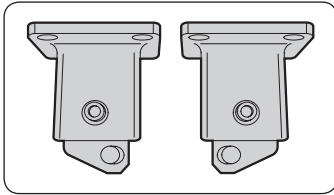
Values of "**A**" and "**B**" can be chosen from the table based on the desired degree of opening " α° ".

If dimension **B** is excessive:

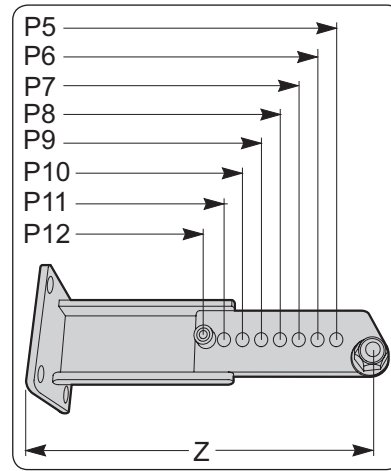
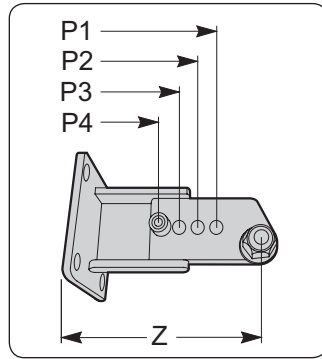
- Use adjustable mounts (9014609 or 9014610) that allow setting the following four or eight values of Z (in cases where you need to reduce or increase the value of Z):

- P1: Z = 77 mm P9: Z = 215 mm
- P2: Z = 90 mm P10: Z = 225 mm
- P3: Z = 110 mm P11: Z = 235 mm
- P4: Z = 150 mm P12: Z = 250 mm
- P5: Z = 150 mm
- P6: Z = 165 mm
- P7: Z = 190 mm
- P8: Z = 200 mm

Adjustable mount installation position



Left Right

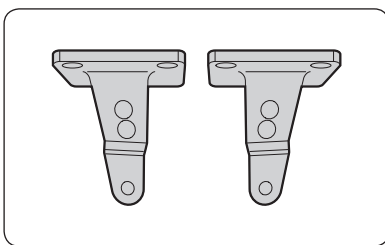


- Or move the gate hinges so as to reduce distance **B** (refer to "Specific Installations").
- Attach the mounting bracket **P**.

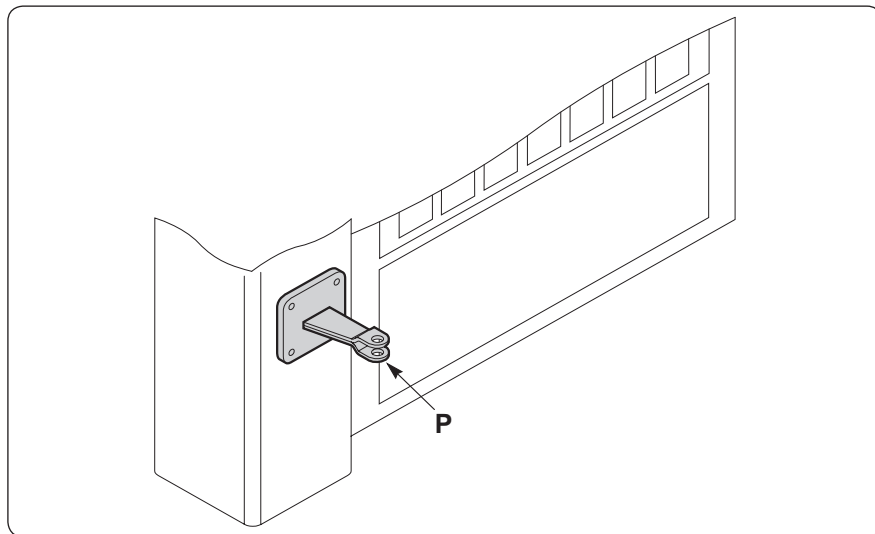


**Drill and bolt the mounting bracket to the post.
Use a type of mounting that suits the post.**

Mount direction



Left Right



Note: Use the large circlips to attach the mounting bracket **P**.

Example

When the desired opening angle is 90°:

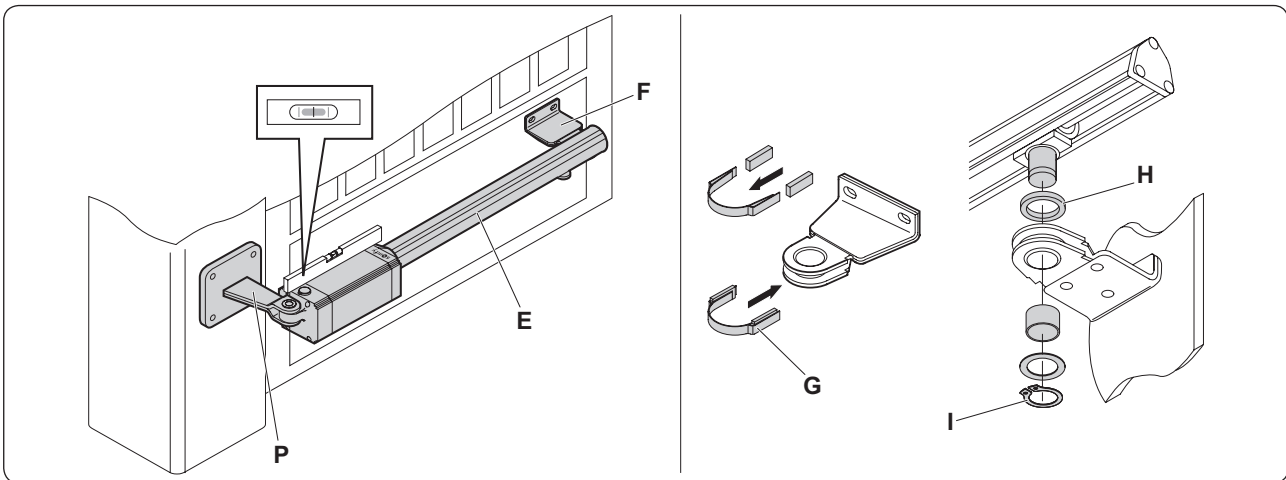
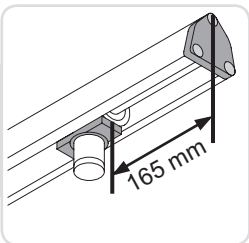
- Measure dimension **X** = 90 mm.
- Calculate dimension **B** = **X** + **Z** = 90 + 110 = 200 mm.
- Apply dimension **B** = 200 to the table and use a dimension **A** = 190 for a 90° opening.

Fitting the gate section mounting bracket

Important: On the gate section, measure dimension **C** (805 mm), the length between the two mounting bracket centres. Mark the mounting axis for the gate section mounting bracket.

- [1] Unlock motor drive rod **E**.
- [2] Temporarily fit the motor drive unit on its mount **P**.
- [3] Fit the two magnets into the magnet holder **G**.
- [4] Insert the magnet holder **G** into the mounting bracket **F**.
- [5] Fit the gate section mounting bracket **F** onto the drive rod **E**.
- [6] Check that the motor drive unit **E** is horizontally aligned using a spirit level.
- [7] Attach the gate section mounting bracket **F**.

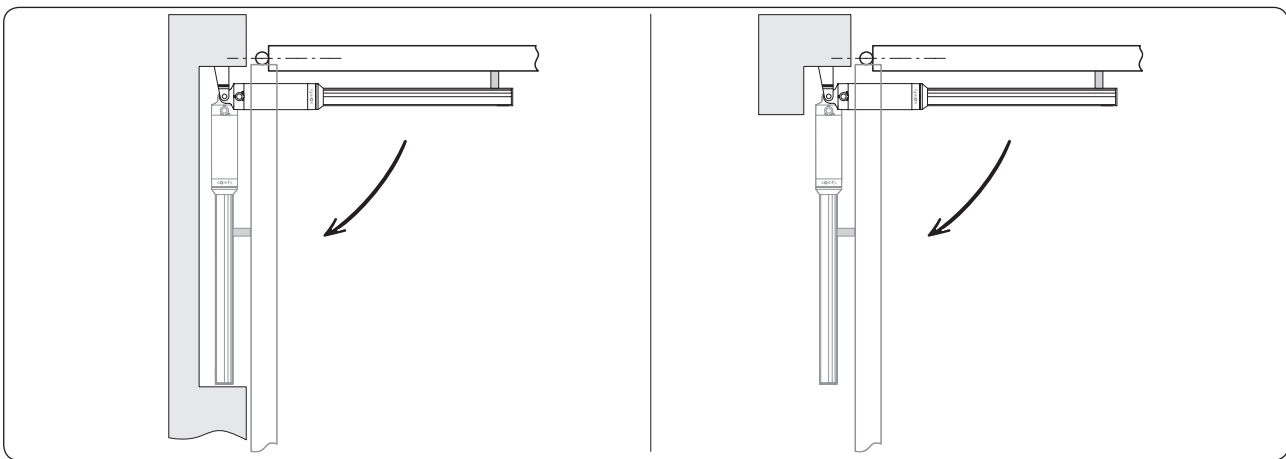
Tip for respecting dimension C:
 Unlock the motor and manually move the knob on the cylinder so that the edge of the knob is approximately 165 mm from the edge of the cylinder (see the illustration opposite).



After fitting the mounting bracket:

- [1] Position spacer **H**,
- [2] Insert the drive rod and attach it using ring **I**.

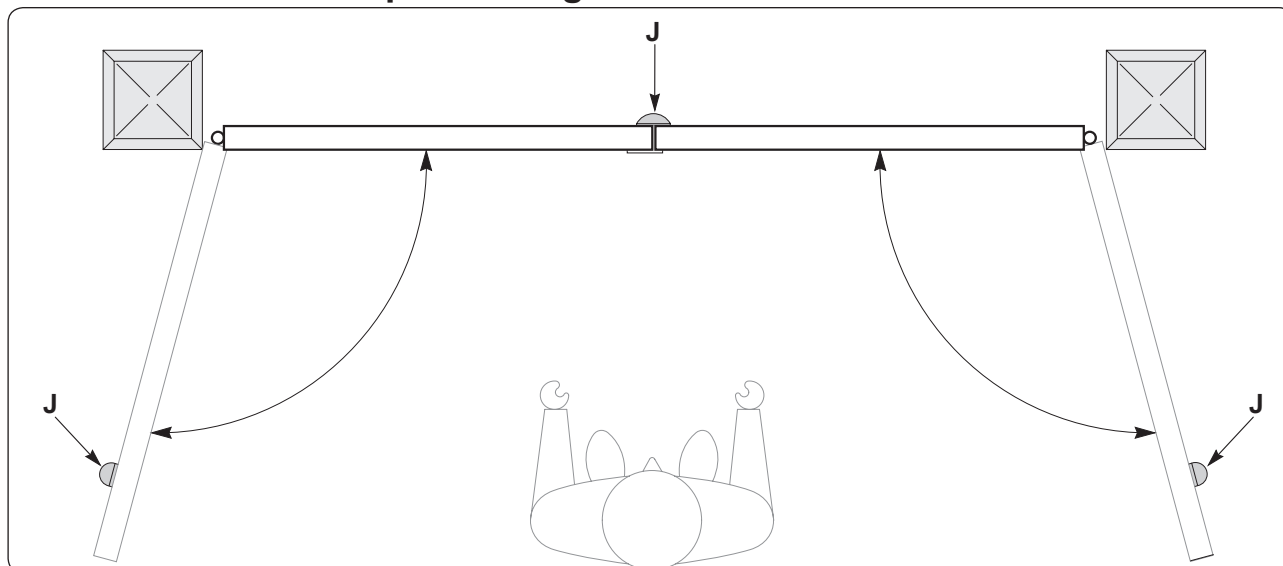
Specific installations



Installation with a niche in a fence

Installation with a niche in a gate post

Gate section limit stops on the ground



Check for the presence of the gate section limit stops **J** on the ground.

For the motor drive unit to operate correctly, using limit stops on the ground is required for both the opening and closing directions.

The ends stops in the ground apply physical pressure to the gate leaves, thus limiting the mechanical stress on the cylinders (particularly in windy conditions).

Electrical connections

Make the connections between the motor drive unit and the FX24 electronic controller for Ixengo L 24 V and FX 230 electronic controller for Ixengo L 230 V.

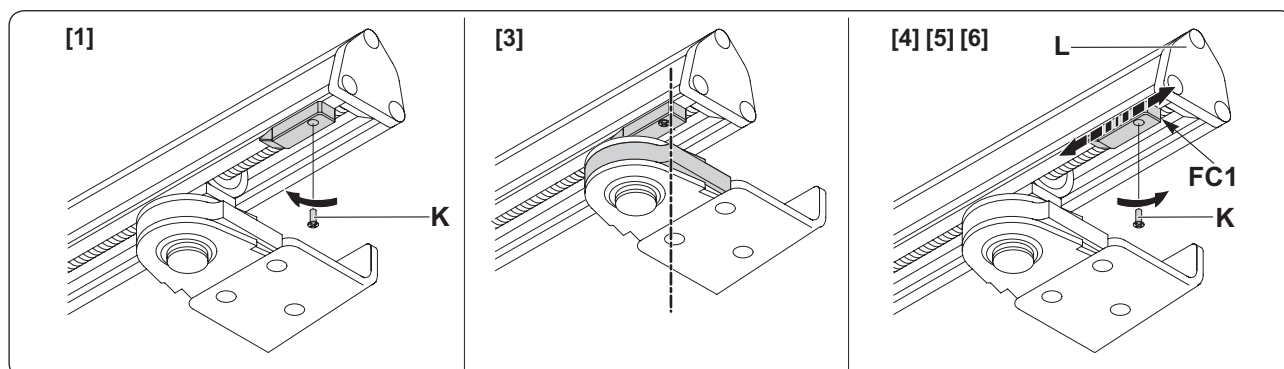
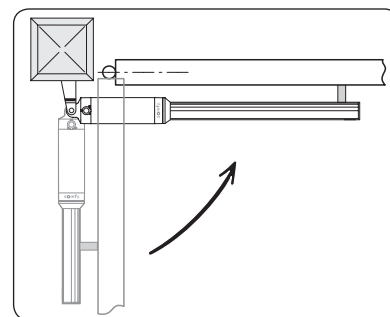
ADJUSTING THE LIMIT STOPS - IXENGO L 24 V

The limit stops are adjusted by correctly positioning the motor drive unit limiting devices after first starting up the FX 24 electronic controller.

Important: For the 230 V motor drive unit, refer to the instructions on the FX 230 electronic controller and adjust the time that the motor operates.

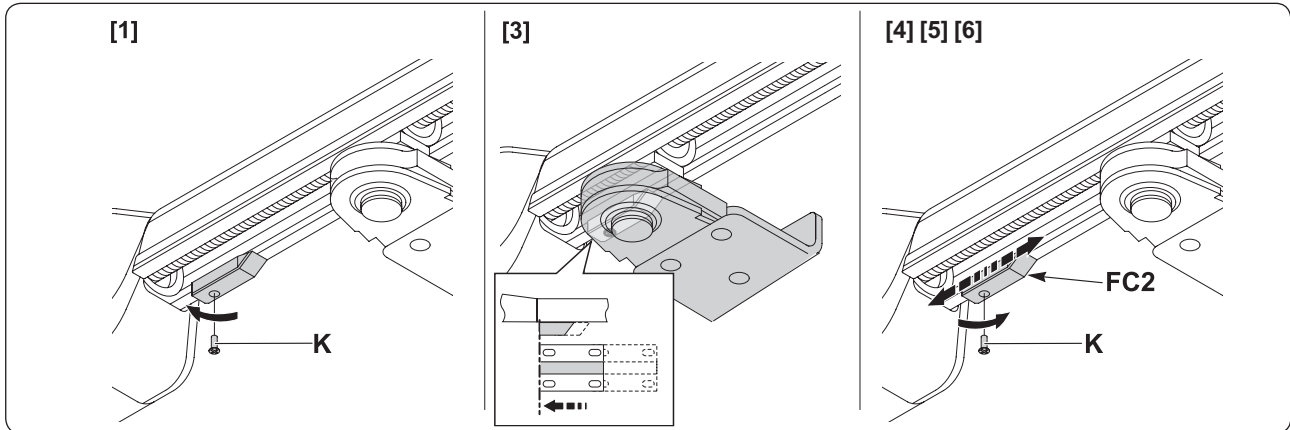
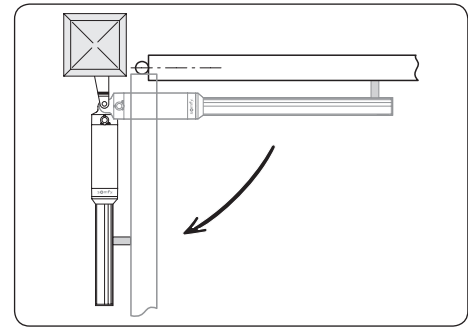
Adjusting the FC1 closing limit stop

- [1] Slacken the mounting screw **K** on the limit stop.
- [2] Perform a closing cycle to check precisely where the limit stop takes effect.
- [3] The motor stops when the edge of the end limit and the edge of the magnet are aligned (i.e. when the magnet conceals the end limit).
- [4] If the gate section does not close completely, slightly move the limit stop towards the head cap **L**.
- [5] If the gate section hits the limit stop on the ground when closing, the motor drive unit reverses direction. Move the limit stop slightly towards the motor drive unit's body.
- [6] After correctly defining the limit stop's position, tighten down screw **K**.



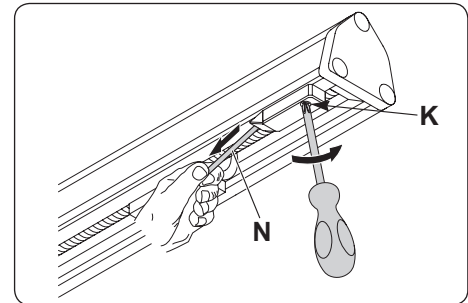
Adjusting the FC2 opening limit stop

- [1] Slacken the mounting screw **K** on the limit stop.
- [2] Perform an opening cycle to check precisely where the limit stop takes effect.
- [3] The motor stops when the edge of the end limit and the edge of the magnet are aligned (i.e. when the magnet conceals the end limit).
- [4] If the gate section does not open completely, slightly move the limit stop towards the motor drive unit's body.
- [5] If the gate section hits the limit stop on the ground when opening, and the motor drive unit reverses direction, then move the limit stop slightly towards the head cap **L**.
- [6] After correctly defining the limit stop's position, tighten down screw **K**.



Important: To avoid breaking the limit stop wire, tighten down screw **K** while keeping the wire **N** taut.

Note: When programming the electronic controller, always anticipate when the limit stops will take action. To properly press against the limit stops on the ground, the motor drive unit continues its movement for 1 or 2 cm (some 100 ms).

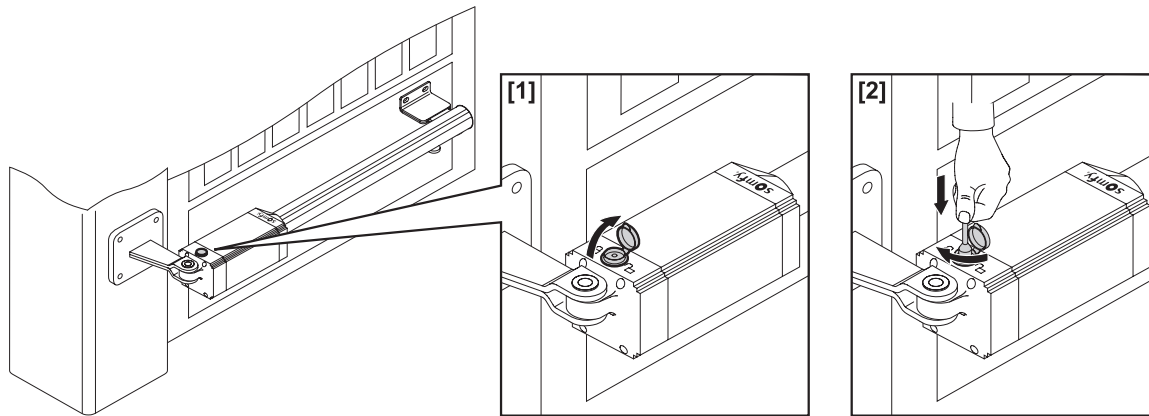


OPERATING TEST

Opening the gate by hand

If necessary, the motor drive unit is provided with a release key so that the gate section can be moved by hand.

- [1] After lifting the lock cover, insert the release key and turn it clockwise by 90°.
- [2] Push the gate section by hand to open the gate.
- [3] Turn the release key in the opposite direction to return to motor driven operation.
- [4] Refit the lock cover.



Checking operation

Before starting up the motor drive unit:

- Check that all components are solidly mounted
- Check all safety mechanisms for correct operation
- Check the emergency operation control
- Check that the electronic controller is operating correctly.

What do I do if the motor drive unit fails?

- Use a suitable instrument to check for the presence of voltage on the ends of the motor reduction gear unit after an opening or closing operation.
- If the drive rod does not turn in the right direction, reverse the electrical operating connections on the motor reduction gear unit.
- If the gate reverses direction after opening or closing, this means that the limit stops have not been correctly set. Refer to the section called "Adjusting the limit stops" to refine the position of the limit stops.

SPECIFICATIONS

	24 V version
Power supply	24 V DC
Rotation speed	3800 rpm
Power consumption	40 W
Current consumption	1.5 A
Push and pull torque	2000 N
Useful travel	410 mm
Drive rod speed	14 mm/s
Obstacle detection (impact reaction)	Built-in torque limiter
Limit stops	Built-in, electromechanical and adjustable
Manual operation	By unlocking key
Nbr. of operations per 24 hours	60 operations
Maximum gate section length	4000 mm
Maximum gate section weight	400 kg
Ambient conditions	-20°C to +60°C
Protection level	IP44
Lubrication	Greased for life