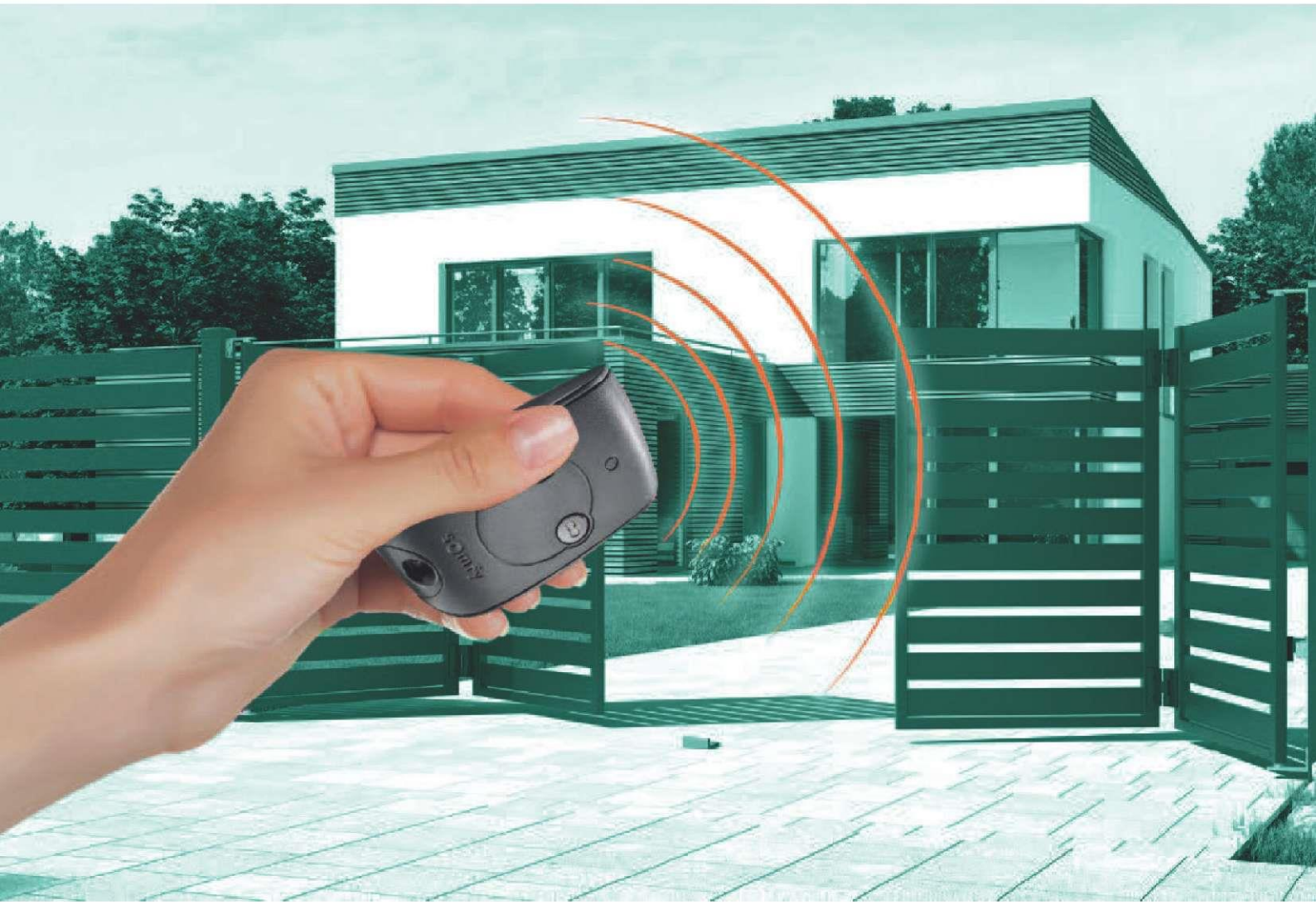
Polargos

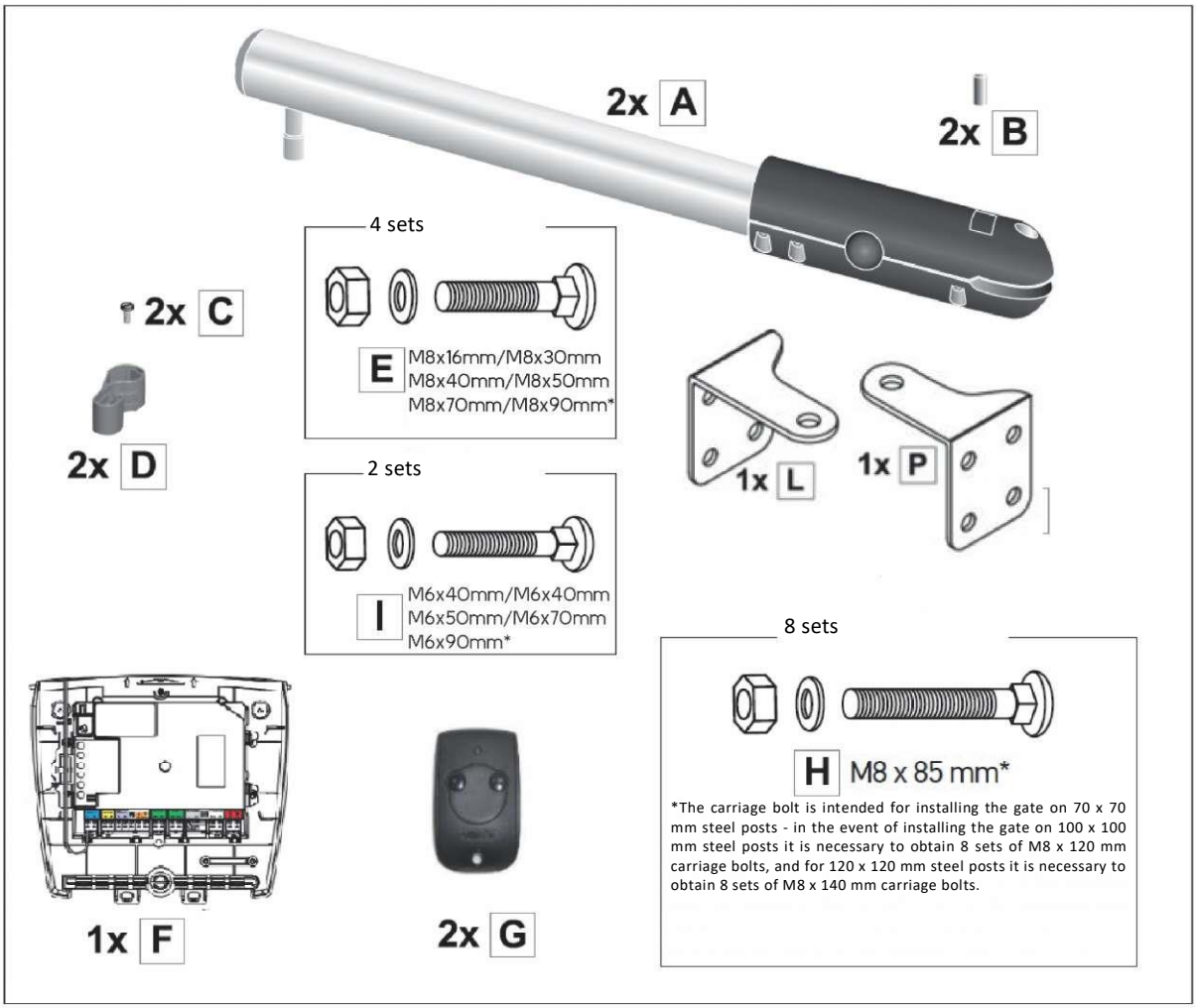


Manual

EASY WAY PACK 201
AUTOMATIC GATE

INTELLIGATE
smart gate

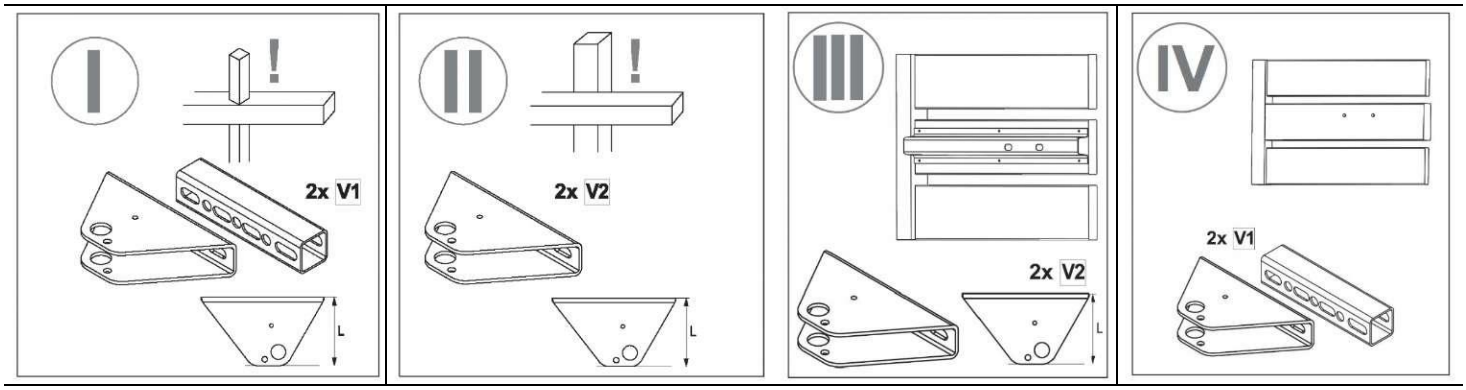
EASY WAY PACK 201 AUTOMATIC GATE



*Depending on the system.

+

The set includes a connector compatible with various models.



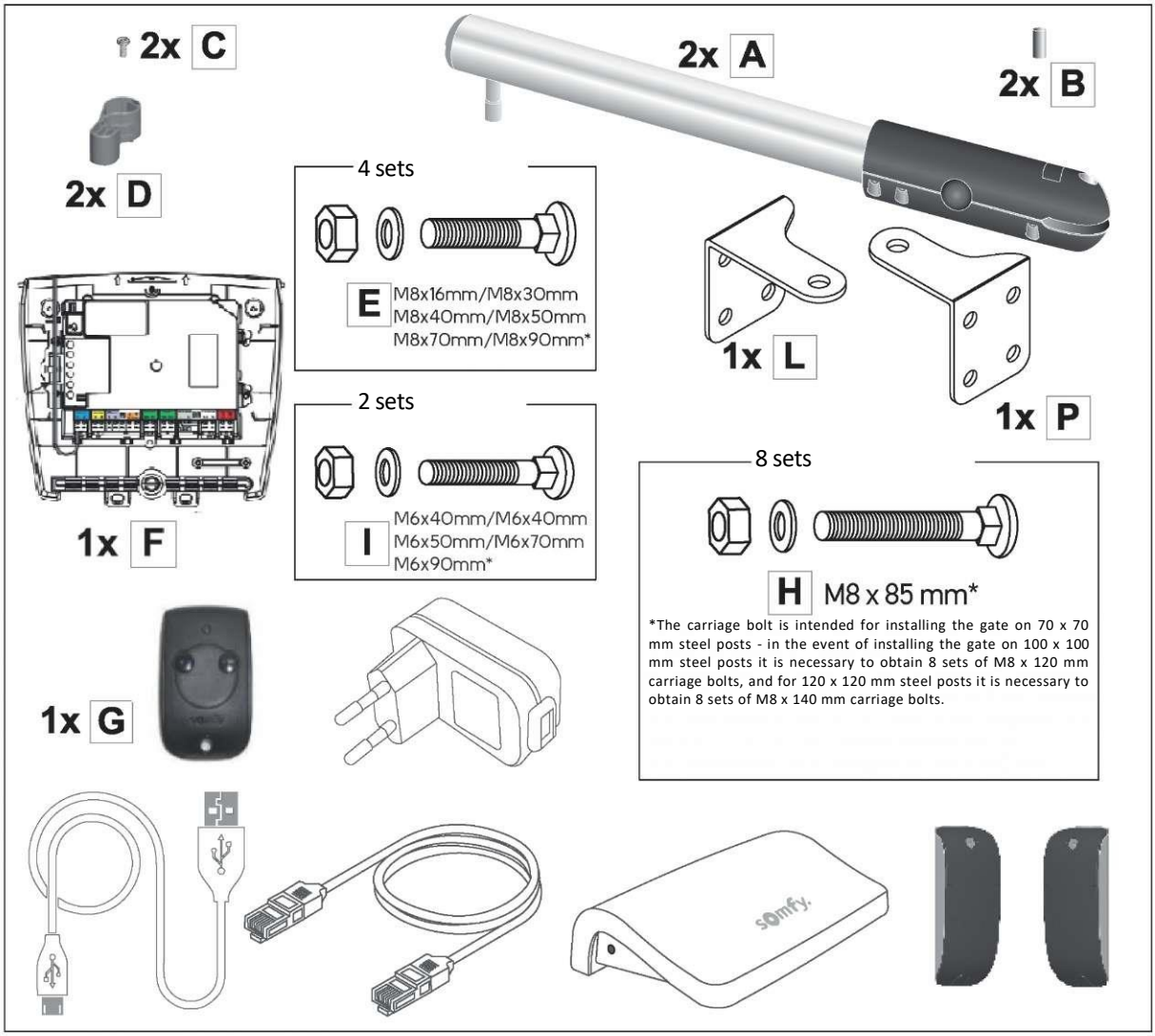
Picket goes through the rail - bracket with spacing

Picket welded to the head of the rail - bracket without spacing

Fixing by means of picket-reinforcing profile - bracket without spacing.

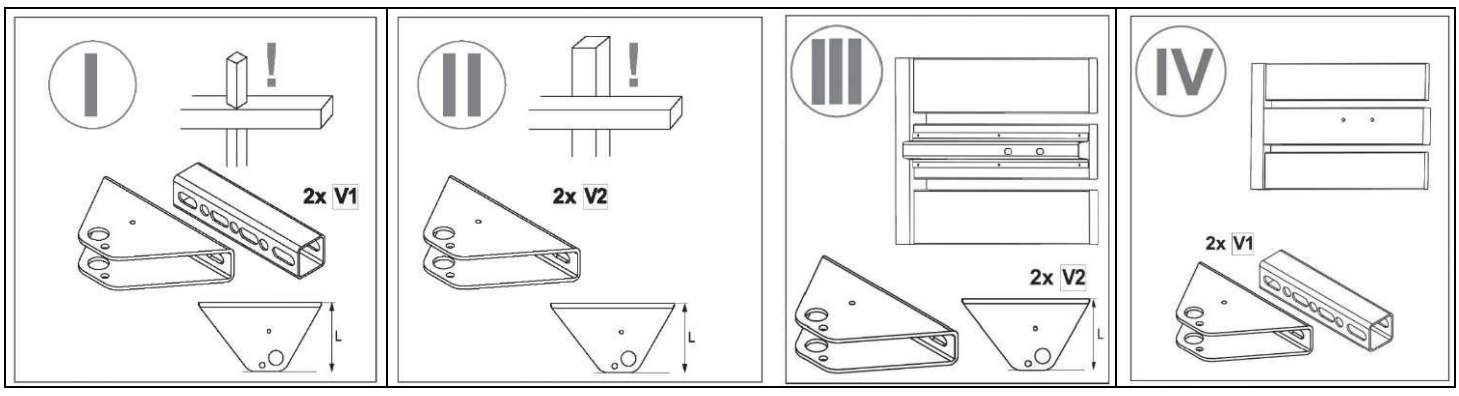
Fixing directly to the picket - bracket with spacing.

INTELLIGATE SMART GATE



+

Depending on the model purchased, the appropriate connector should be included in the set.



Picket goes through the rail - bracket with spacing

Picket welded to the head of the rail - bracket without spacing

Fixing by means of picket-reinforcing profile - bracket without spacing.

Fixing directly to the picket - bracket with spacing.

Table of contents

Introduction

POLARGOS is a Polish manufacturer of property fencing, industrial fencing, and other steel products, operating on the market since 1994.

Many years of experience, combined with production and marketing back-office, allow POLARGOS to create products that find their enthusiasts not only in Poland, but also abroad.

The objective of the company is to supply the market with product that meet the highest standards of execution and the high expectations of customers in terms of aesthetics and the prevalent “fashion” on the fencing market.

Thank you for your trust and choosing the EASY WAY PACK 201 device and Intelligate. We would like to ask you to become thoroughly familiar with this manual prior to commencing installation.

TECHNICAL SUPPORT:
HOTLINE: 0 801 377 199*

*subject to a local call fee

EASY WAY PACK 201 and Connexoon RTS were manufactured by Somfy for POLARGOS

Prior to commencing the installation of the product it is obligatory to become thoroughly familiar with all the information included in this user manual. It is indispensable to adhere to the guidelines provided strictly and to keep this document for the whole duration or product use.

If the recommendations regarding installation are not followed, this may lead to grievous bodily harm or material losses. POLARGOS is not liable in such cases.

This device is not intended for use by persons (including children) whose physical, sensory, or mental capabilities are limited, or by persons who lack proper experience of knowledge, unless they are capable of using the device through a supervising person responsible for their safety or thanks to the previous received instructions regarding operation of the device.

Make sure that no children play with the fixed control devices. Place the remote control transmitters beyond the reach of children.

In the even of using a switch without a lock***, check whether other people are located in appropriate distance from the gate.

Disconnect the power supply of the device during cleaning or performance of other maintenance activities if the device is controlled automatically.

Prior to installing the drive it is necessary to check whether the driven part is in good technical condition, balanced properly, and opens and closes properly.

Make sure to maintain appropriate distance from the zone located between the driven part and the immobile elements located nearby, in view of the danger related to movement of the driven part during opening (crushing, shearing, seizing).

Monitor the gate visually while it moves.

All the switches without a lock*** have to be located at a place from which the driven part will be directly visible, but in appropriate distance from moving elements. They have to be installed at the height of at least 1.5 m, at a location where they will not be generally available, except for the switches that require using a key.

Maintain the distance of 500 mm from the back of each wing when the gate is fully open.

Do not discard the worn device or batteries together with household waste. The user is obligated to provide all the waste electronic and electrical equipment to a special waste collection point for recycling.

POLARGOS declares hereby that the product complies with the fundamental requirements and other applicable provisions of the Directive 1999/5/CE. The declaration of conformity is available at the online address www.polargos.pl

CE

The product has been approved for use in the European Union and in Switzerland.

***examples: intercom, key switch, digital code panel, etc.

It is necessary to check the following monthly:

- **the system, for the purposes of detecting all the signs of wear or damage to cables or installation components.**
- **whether the drive assembly changes the direction of functioning once the gate encounters a 50 mm obstacles located in the middle of the gate wing height.**

Do not use the drive assembly if it requires repairs or adjustment. Any gates that are in poor technical condition need to be repaired, reinforced, or even replaced.
Use only the original parts for servicing and repairs.

Introducing any technical, electronic, or mechanical modifications within the drive assembly entails the necessity of obtaining consent of the technical support department of POLARGOS.

If the system is fitted with photocells and/or orange light, it is necessary to clean the optical elements of photocells and the orange light systematically.

Information on batteries

Do not leave the single-use batteries / button cells / rechargeable batteries within the reach of children. They have to be stored in a place that is not accessible to children. There is a hazard of such elements being ingested by children or pet animals. Risk of death! If, in spite of everything, such a situation takes place, it is necessary to contact a doctor or go to a hospital immediately. Be careful not to cause a short-circuit in the single-use batteries, do not throw them into a fire, and do not charge them.
There is a risk of explosion.

Recycling and disposal of waste equipment

A battery, if it was installed, should be removed from the drive assembly prior to handing it over for disposal.

Do not discard the drained single-use batteries of remote control devices or the battery, if any is installed, together with household waste. They have to be handed over to a special waste collection point for recycling.

Do not discard the decommissioned drive assembly together with household waste. Such a drive assembly has to be provided to its distributor or to one of the selective waste collection points provided by the authorities of a given commune.

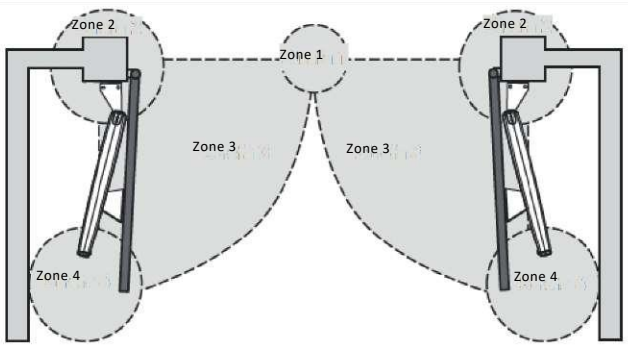
Compliance with regulations

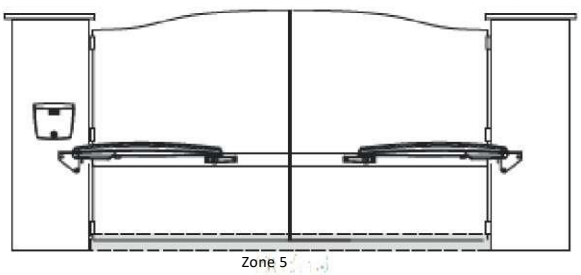
POLARGOS declares hereby that on condition of being used according the recommended provided, the product described in this manual meets the essential requirement of the binding European Directives, and in particular those of the Machinery Directive 2006/42/CE and Radio Equipment Directive 2015/53/EU.

The full text of the CE declaration of conformity is available at the following online address:
www.somfy.com/ce.
Antoine CREZE, Compliance Manager, Cluses

Risk prevention

Specification of danger zones

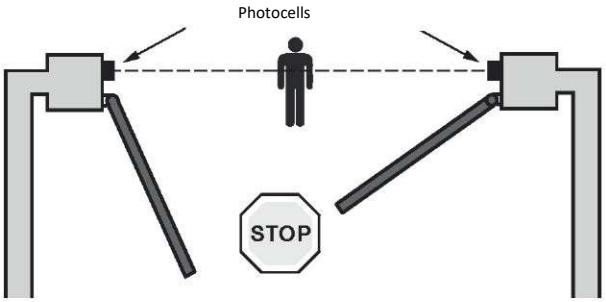




ZONE 1

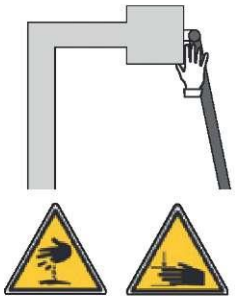
Risk of impact and crushing

Solution:
System for detection of obstacles within the drive Photocells.

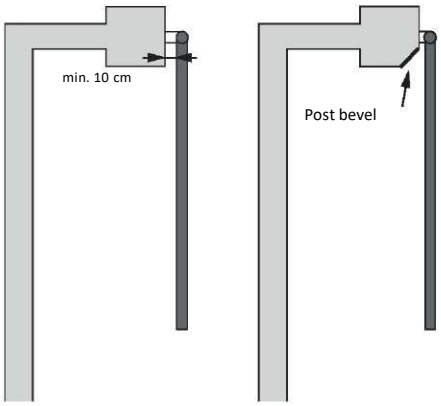


ZONE 2

Shearing and crushing risk to hands



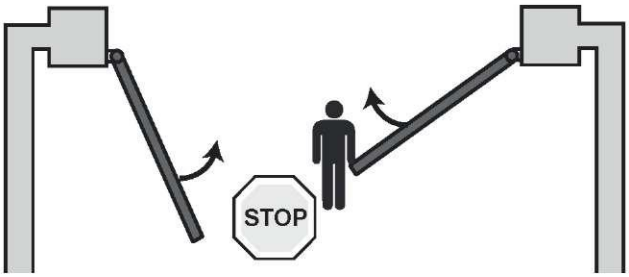
Solution:
If the system features a shearing zone:
- leave a spacing of at least 10 cm between the wing and the post/wall
- bevel the corner without weakening its structure (applies to concrete posts).



ZONE 3

Risk of impact

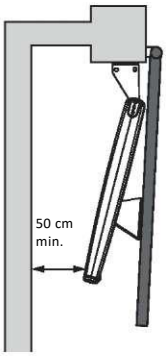
Solution:
System for detection of obstacles within the drive.



ZONE 4

Risk of trapping and crushing

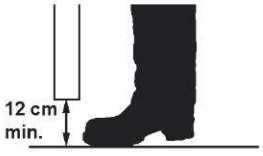
Solution:
System for detection of obstacles within the drive.
If there is a risk of the user becoming trapped in the zone between the wing gates and the immobile elements within the surroundings, leave at least 50 cm between the wings and such immobile elements.

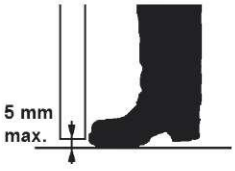


ZONE 5

Risk of harm to feet

Solution:
If there is a zone of hazard to feet between the bottom part of the gate wings and the ground, it is necessary to leave a space of not less than 12 cm or not more than 5 mm between the bottom part of the wings and the ground.





Product presentation

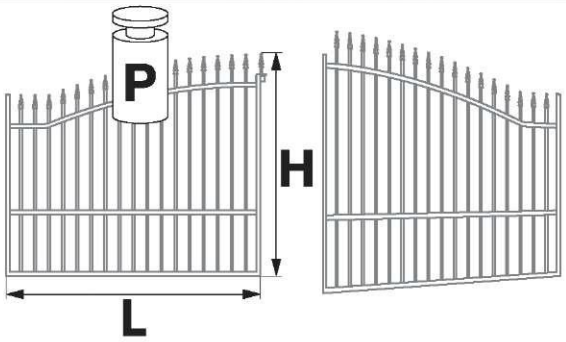
This product is intended for gates used in detached house construction.

Technical data

Type	EASY WAY 201
Power supply voltage	230 V~ / Solar power system 24 V
Drive type	24 V
Drive power	120 W
Max. energy consumption (incl. gate zone lighting)	600W
Power consumption in standby mode	3 W (without accessories)
Daily average number of work cycles	20 cycles per day; 10 cycles per day in the mode of powering with solar energy
Opening time *	min. 20 s within the 90° range
Automatic detection of obstacles	In line with the EN 12453 standard (Annex A)
Operating temperature	from -20°C to +60°C
Thermal sheath	Yes
Protection class	IP 44
Built-in radio receiver	Yes
Remote control devices:	
Radio frequency	433.42 MHz
• Range of use	≈ 30 m
• Number of memory settings	16
Connections possible:	
• Orange light output	flashing, 24 V, 10 W
• Zone lighting output, powered terminal	max. 500 W (at 230 V~) max. 24 V - 25 W (with solar power system)
• Power supply output for accessories	24 Vdc / 200 mA
• Spare battery input	Yes (only at 230V)
• Photocell input	Yes
• Dry contact control input	Yes
• Built-in antenna	Yes

* The opening time may differ depending on the gate parameters.

Wing dimensions and maximum weight

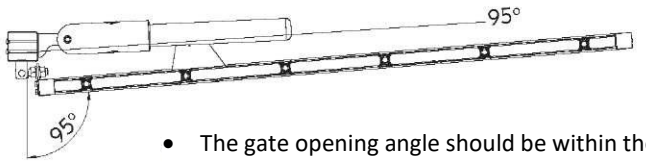


	EASY WAY PACK 201
P	200 kg
H	2,00 m
L	2,00 m

The width of each wing should be between 1 m and “L”.

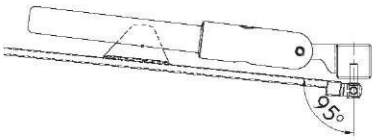
Maximum opening angle

for the hinges installed on the side of the post

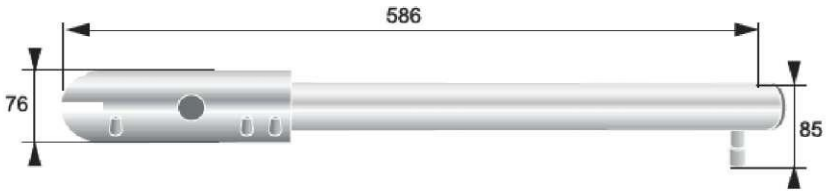


- The gate opening angle should be within the range from 85 to 95 degrees.
- The opening angle should be the same for both the gate wings.
- The opening angle should be set using limiters built into the drive.

for standard hinges

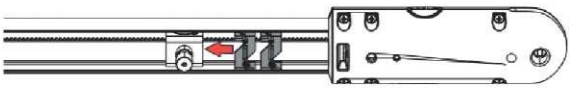


Dimensions of drives and control module (in mm)



Built-in opening limiter

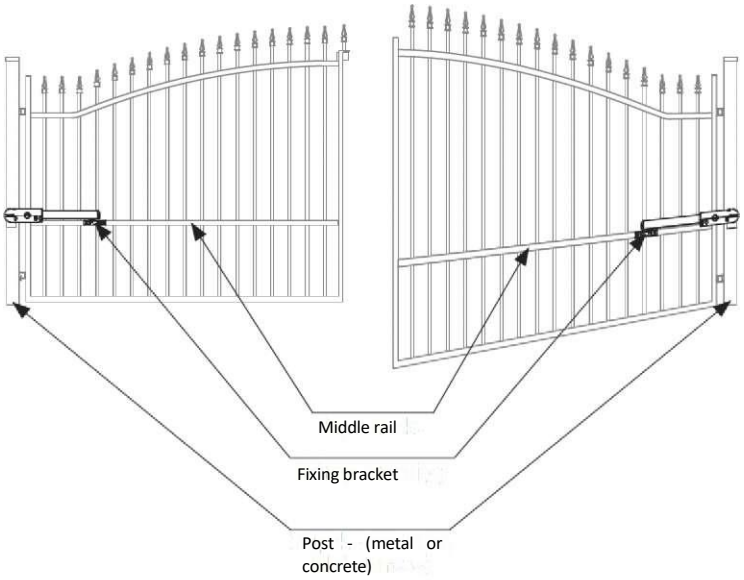
The limiter enables setting the maximum gate opening angle without having to use limiters in the ground.



Points to be checked prior to performing the installation

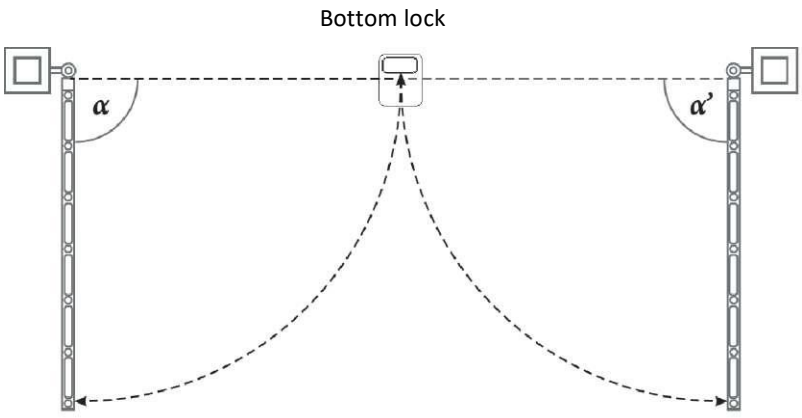
• Gate control

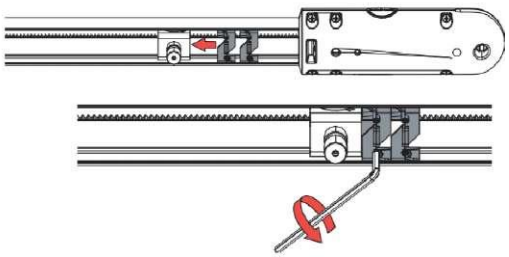
The gate is in good technical condition: it opens and closes without using force. During the whole cycle of movement the gate remains in horizontal position. It opens to the inside of the property.



• Check of posts

The width of the posts must be at least 70 mm. Otherwise a reconstruction may be required in order to ensure correct seating and fixing of the corner.

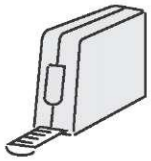




- Set the limiters at the gate opening angle desired. The angle should be within the range of 85-95°. The opening angle should be the same for both the gate wings $\alpha = \alpha'$

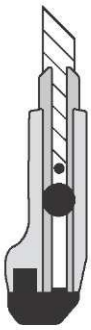
In the event of setting an angle of over 95 degrees there is a risk of abnormal operation, or damage to the electronics or hinges.

Tools required

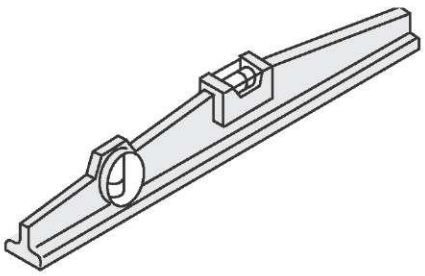


tape measure

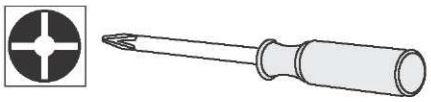
pencil



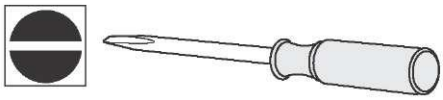
cutter



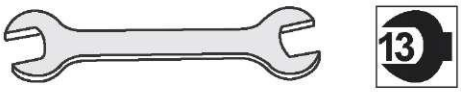
spirit level



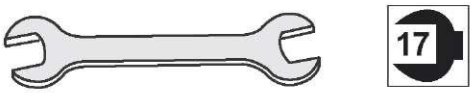
cross screwdriver



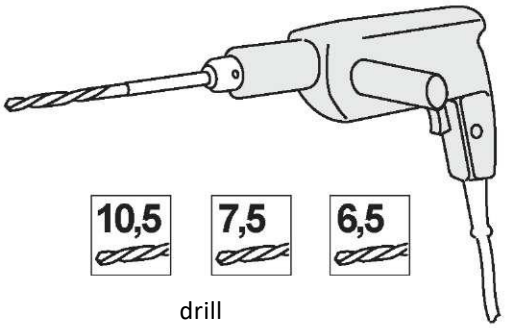
flat screwdriver



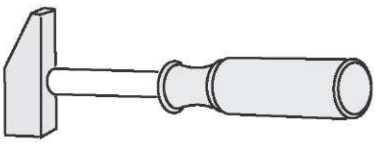
flat wrench 13



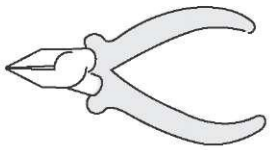
flat wrench 17



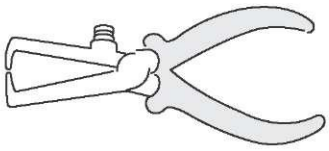
drill



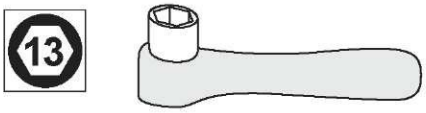
hammer



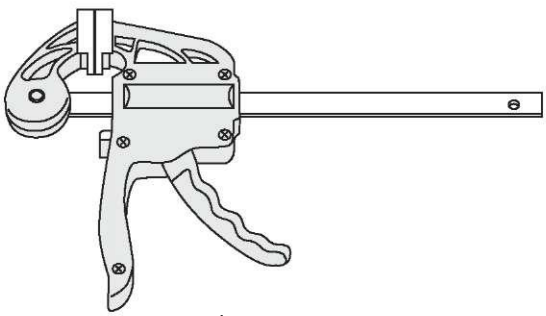
pincers



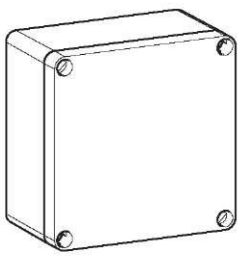
wire stripping pliers



socket wrench 13 and 10



clamp



distribution box

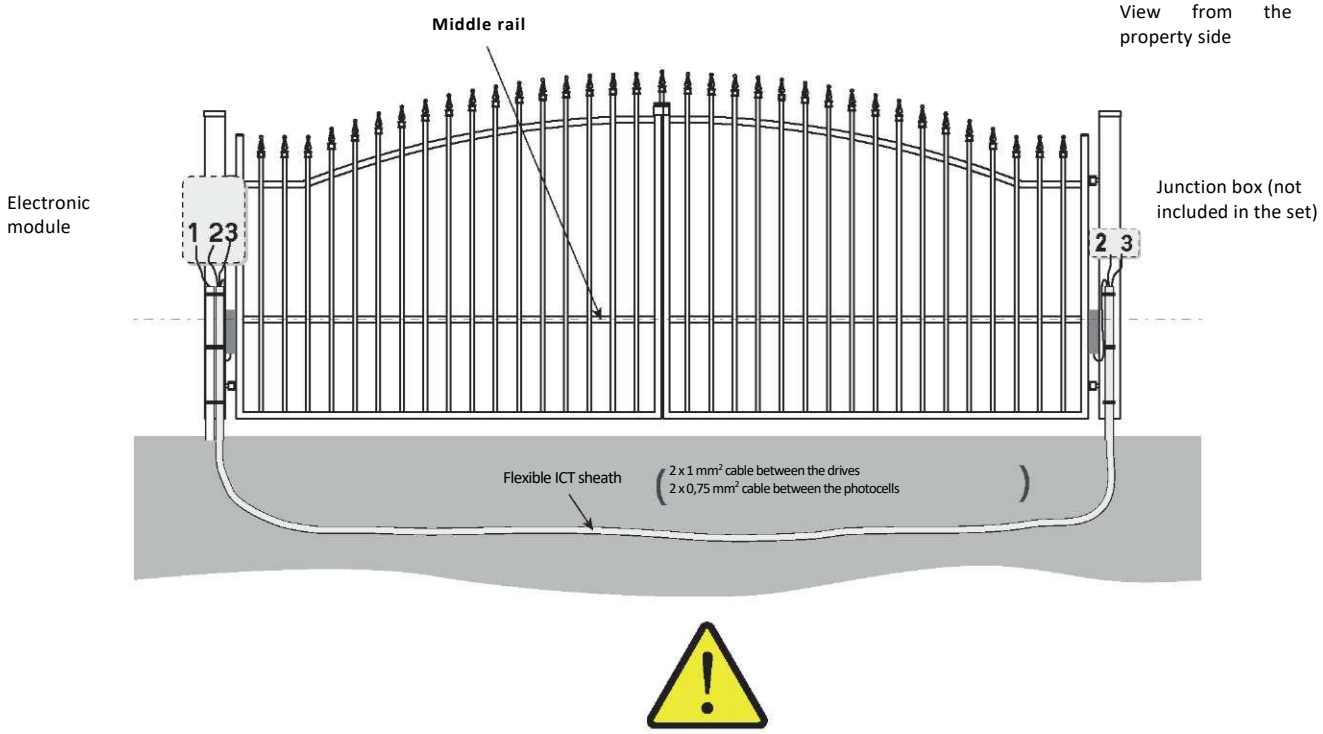
Preliminary electric wiring system

In order the install the gate drive it is necessary to:

- Lead 230 V power supply to one of the posts located as close to the drive as possible.
- Connect the posts with one another using a 2 x 1 mm2 cable that is not included in the set.

Other than that, it is necessary to obtain an IP55 distribution box for securing the connection between the cable going out from the drive and the extension reaching the control module.

Obtain an Orange ICT Ø 25 mm sheath for underground cables.
If it is impossible to lead the cables underground between the posts, use a grommet that can withstand vehicle traffic.



Using cables with a cross-section smaller than indicated in the manual may lead to voltage dips that may cause incorrect functioning of motors.

1. Power supply leading: 3 x 1,5 mm^2 cables for outdoor use
2. 24V connection between two drives: 2 x 1 mm^2
3. Connection between photocells: 2 x 0.75 mm^2

Powering from mains

In order to ensure the functioning of the gate opening mechanism, it is necessary to connect 230 V - 50 Hz power supply to it. The electric line has to be:

- Intended solely for the gate opening mechanism.
- Secured:
  - by means of a fuse or a 10 A circuit breaker,
  - by means of a residual current circuit breaker (30 mA).
- Installed in line with safety standards for electrical systems valid in the country of use.

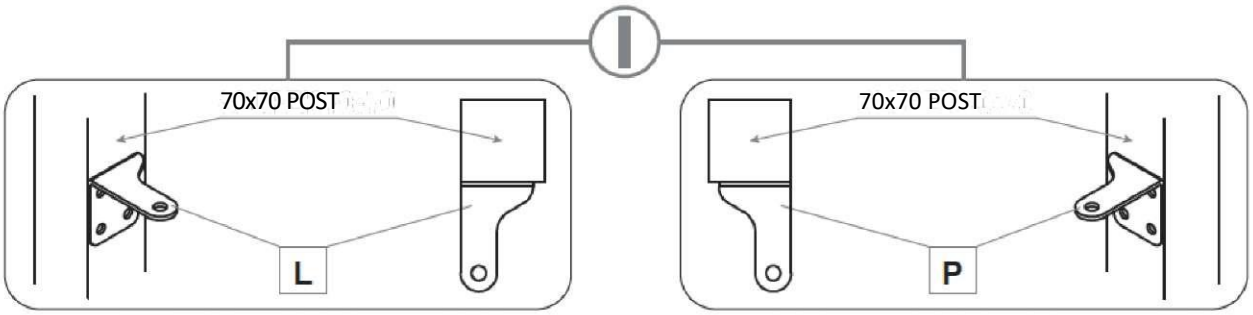
It is necessary to ensure the possibility of multipolar disconnection of power supply:

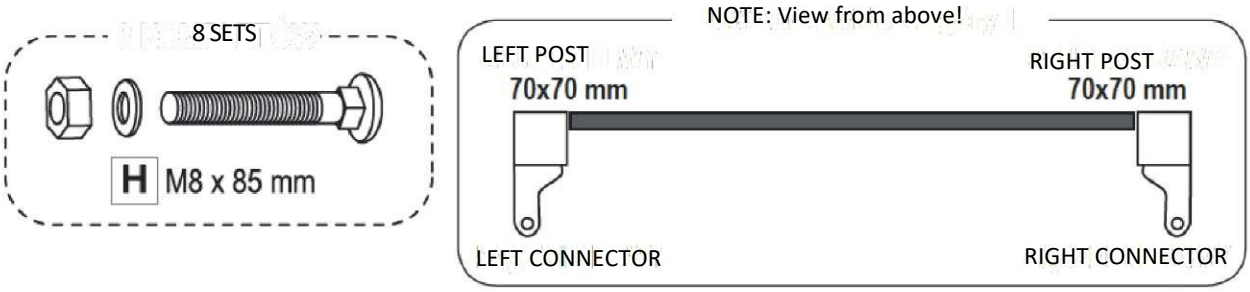
- using a power supply cable featuring a plug,
- or by mean of a switch that enables maintaining the distance between contacts of at least 3 mm at each pole (in line with the EN 60335-1 standard).

It is recommended to install a lightning current arrester (maximum residual voltage of 2 kV).

In the case No. I we use the M8 x 85 carriage bolts included in the set.

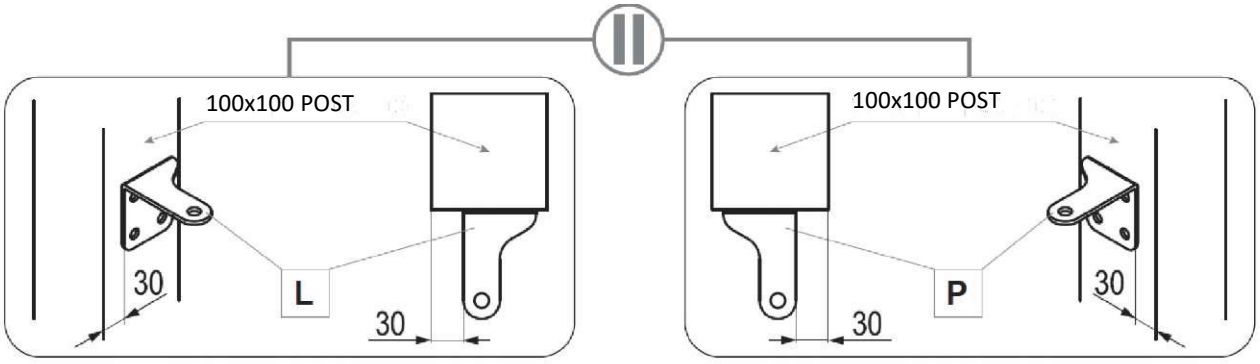
NOTE: View from the property side!

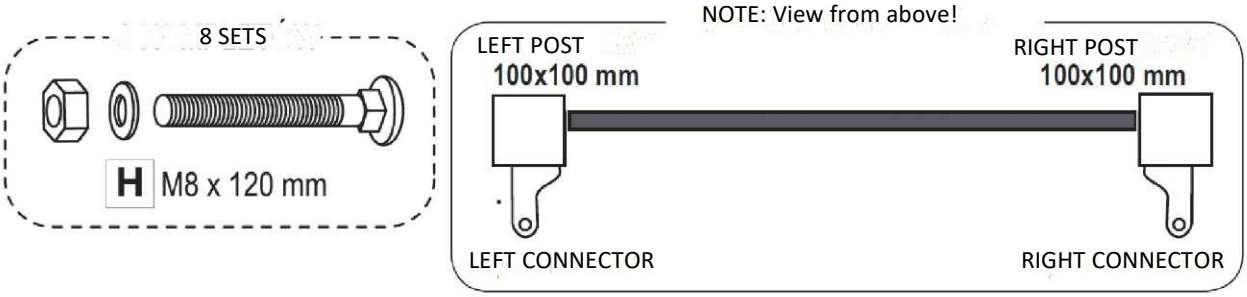




In the case No. II, it is necessary to obtain 8 complete sets of M8 x 120 mm carriage bolts at the 100x100 mm steel posts.

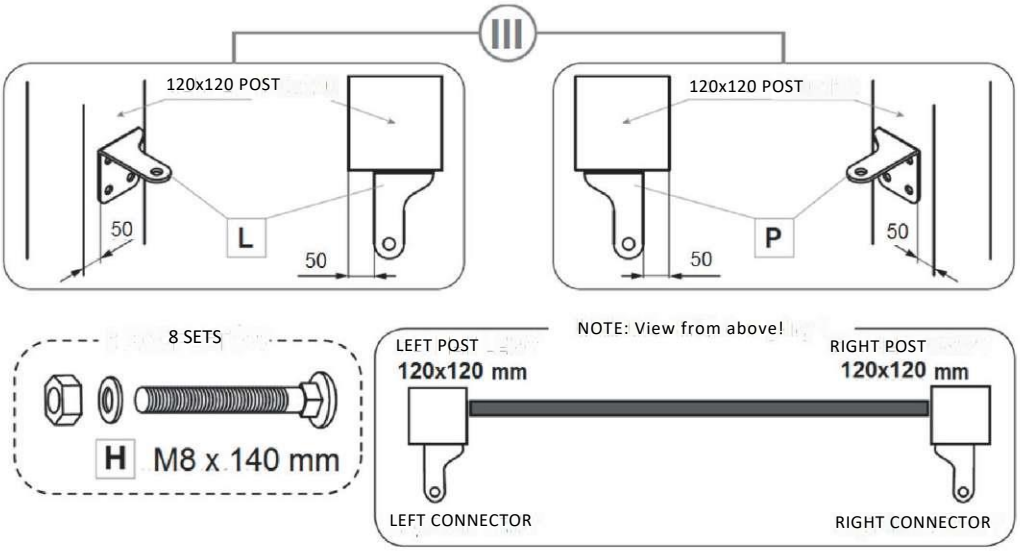
NOTE: View from the property side!



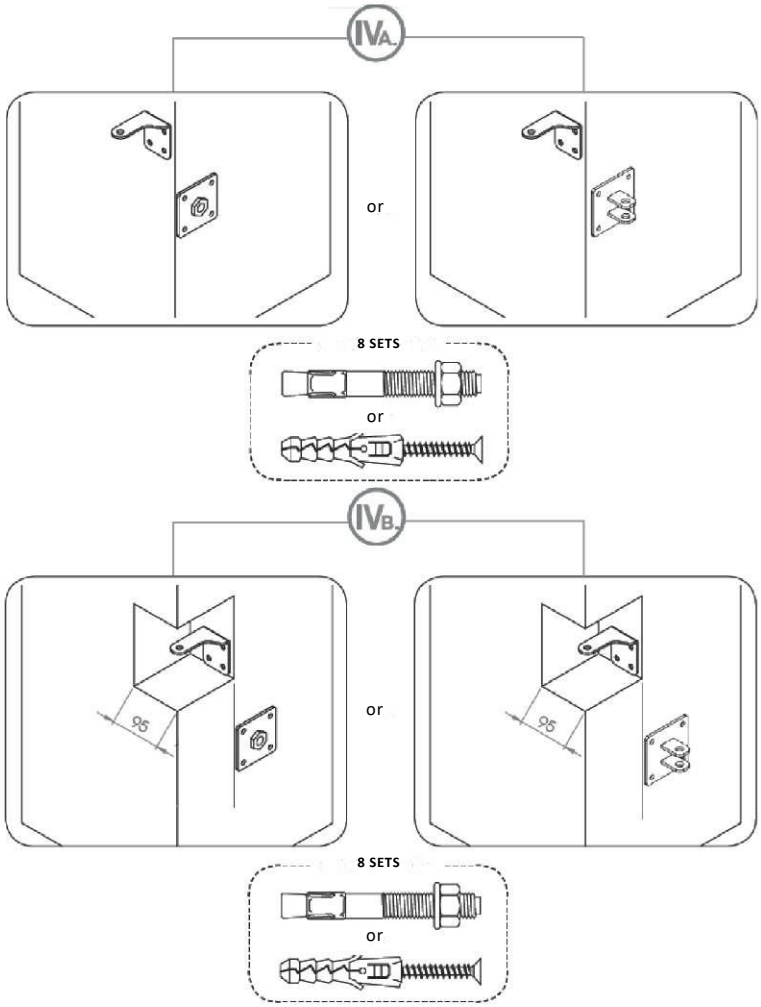


In the case No. III , it is necessary to obtain 8 sets of M8 x 140 mm carriage bolts at the 120x120 mm steel posts

NOTE: View from the property side!



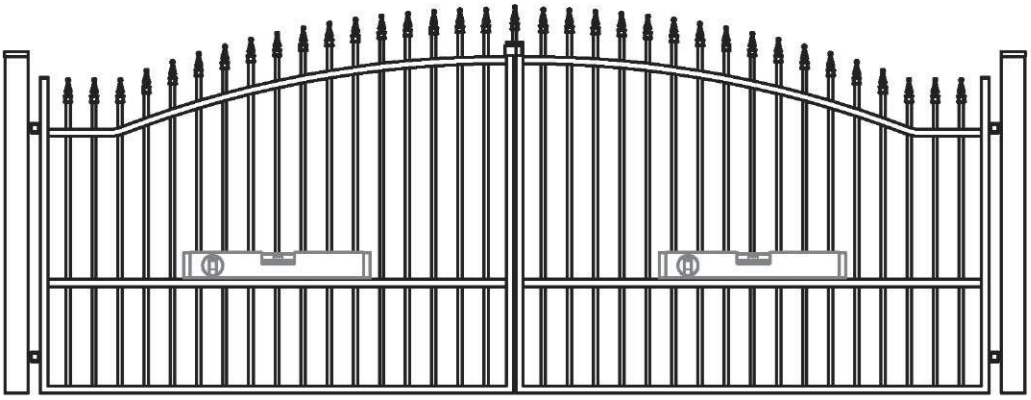
In the case No. IV , it is necessary to obtain 8 sets of steel dowels or dowel pins at the concrete posts, depending on the material of which the post is made.



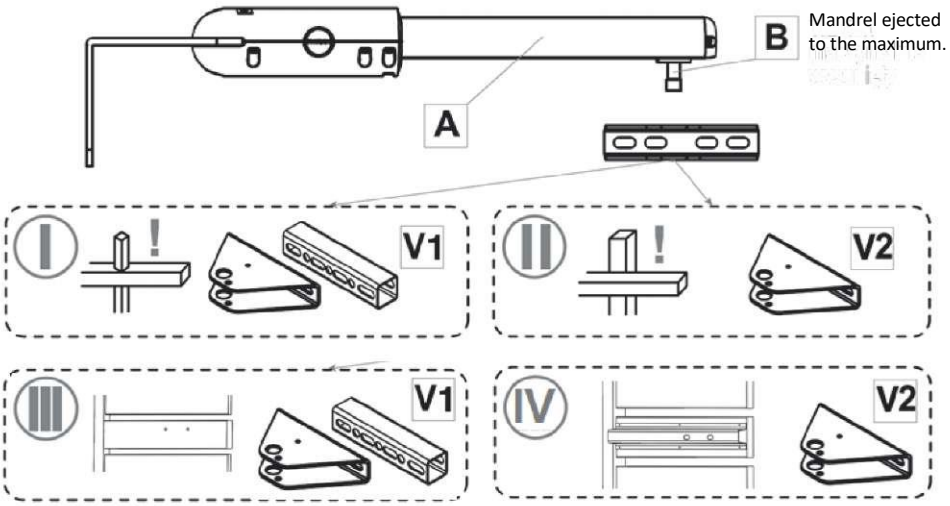
Gate preparation

1. Arrange the gate wings horizontally.

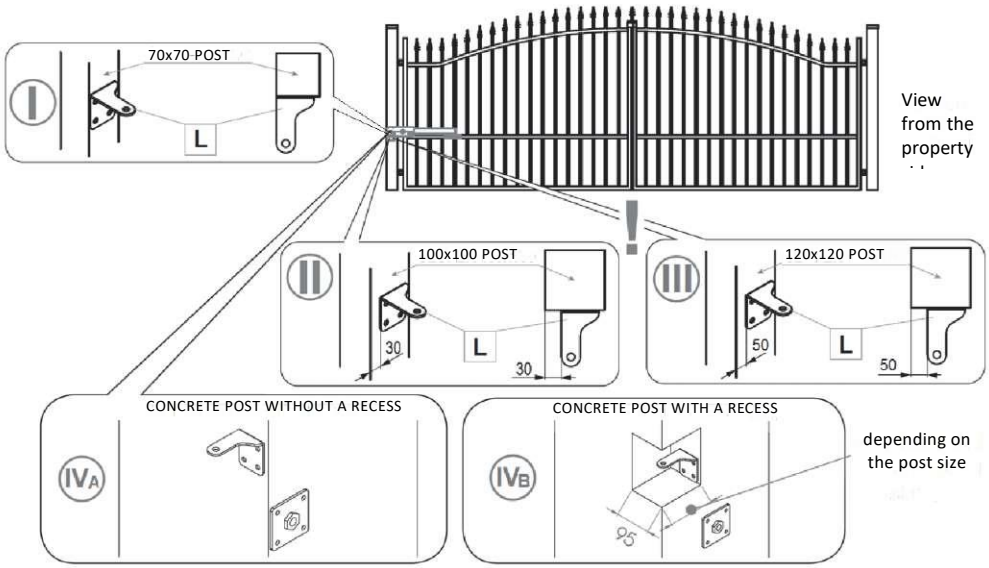
View from the property side



2. Establish the location of the automatics.

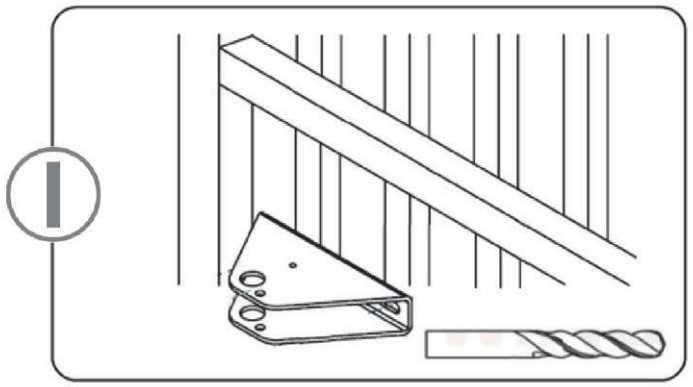


3. The set prepared should be applied to the previous levelled, closed gate. The automatics should not rub against the fixture to the gate.

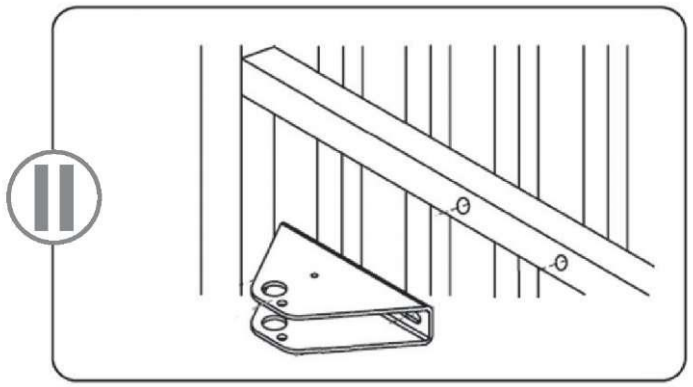


4. Check which kind of fixture is present in you gate

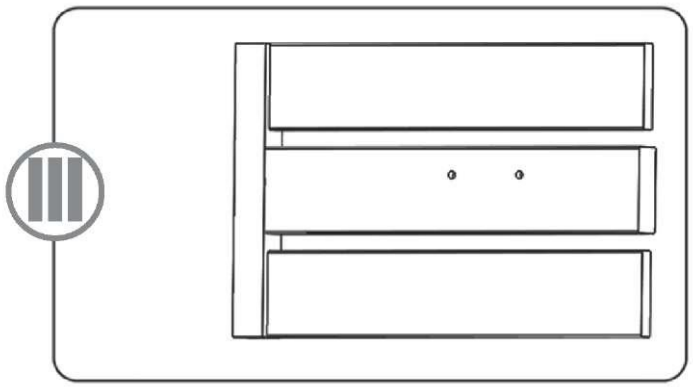
Profile without openings



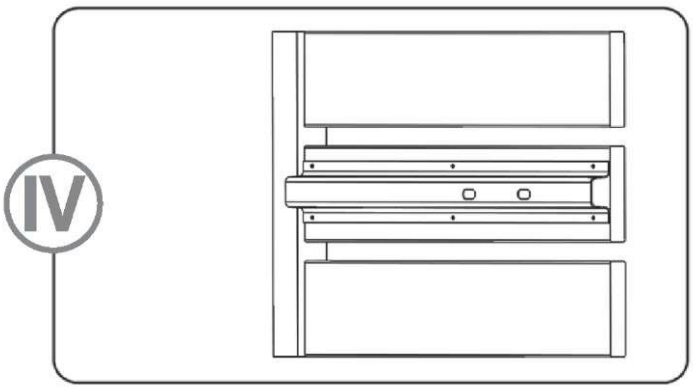
Profile with factory-made through openings



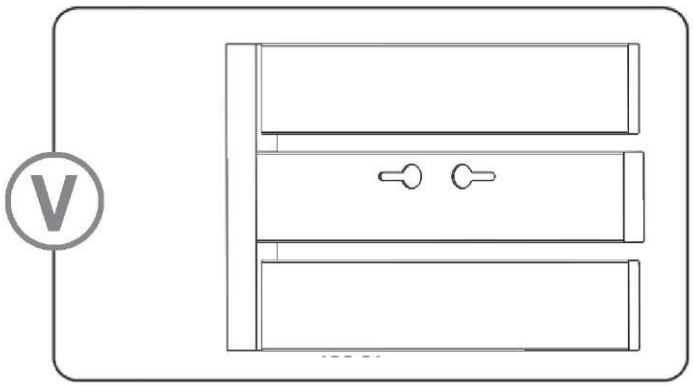
Profile with threaded openings



Reinforced profile with openings

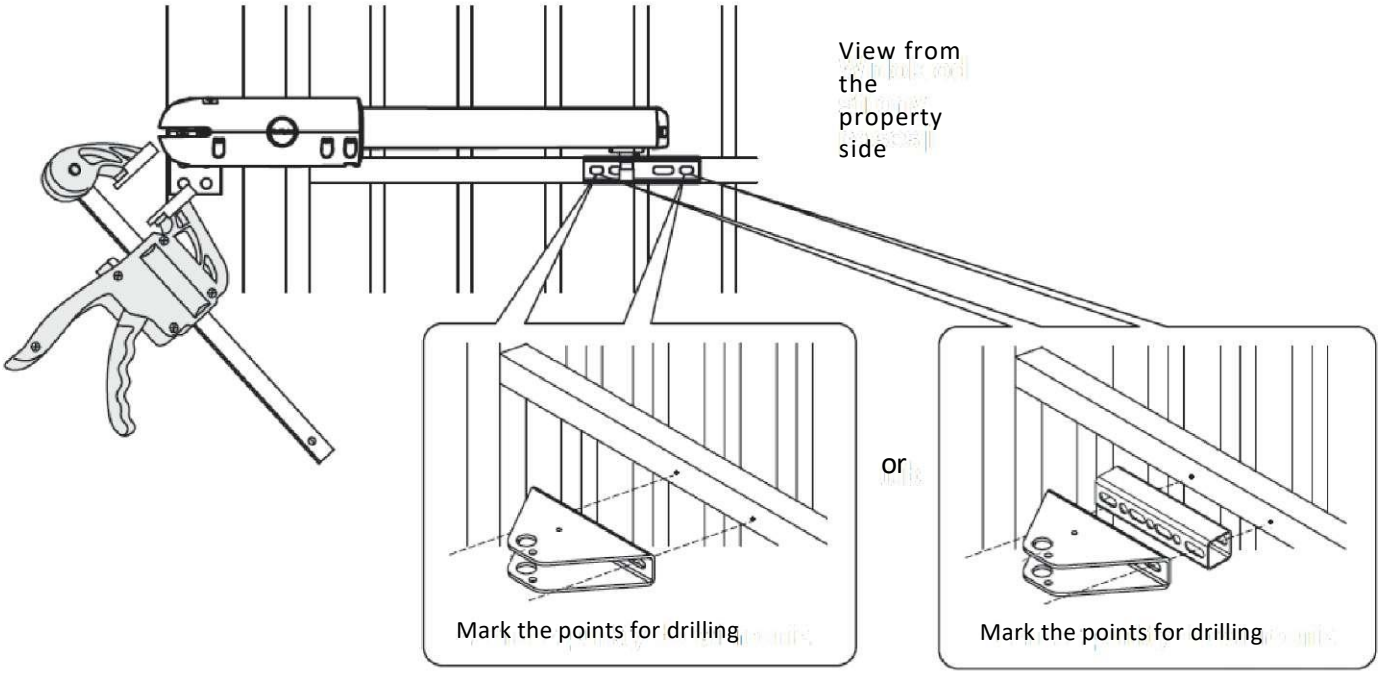


Profile with longitudinal openings

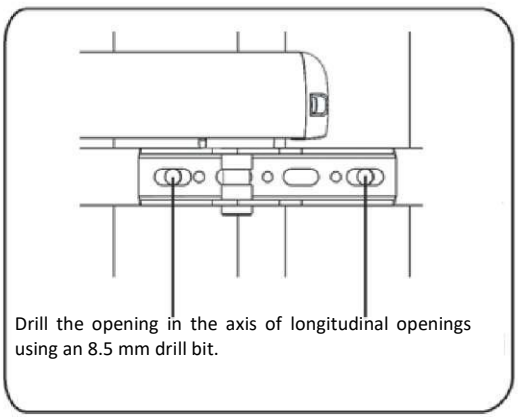


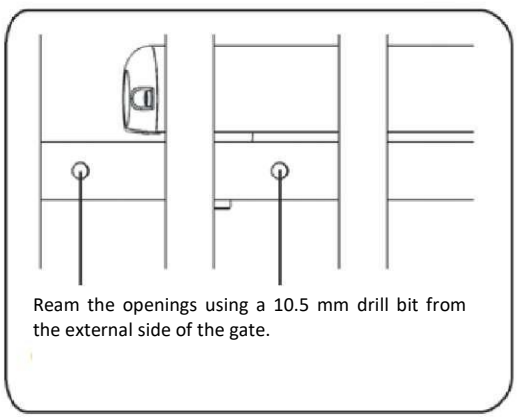
5. Hold the position of the L and R connectors using a clamp.

The actuator mandrel is ejected to the maximum towards the internal limiter when the closed gate adheres to the limiter in the ground.



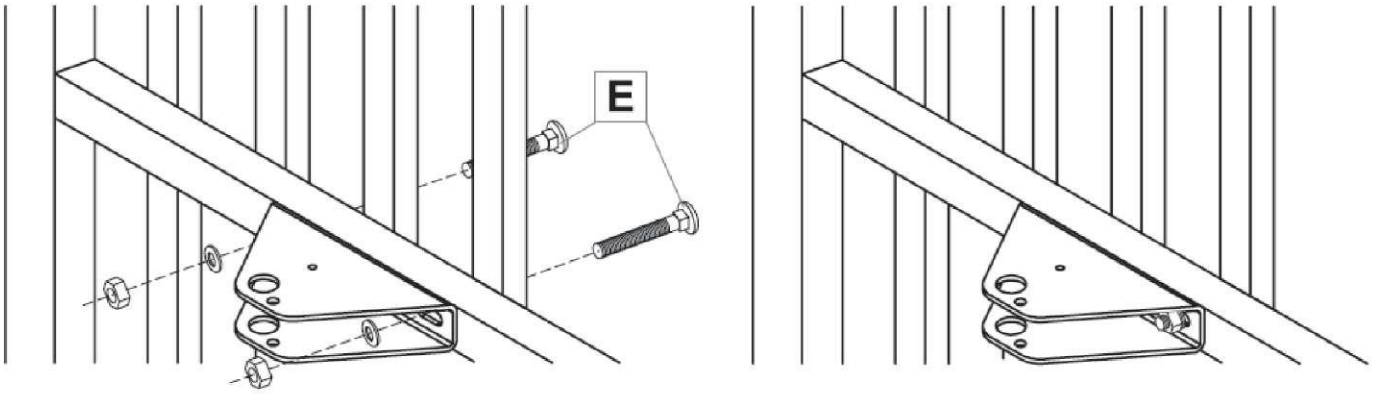
After applying the automatics to the gate, marker the points, and drill the openings, leaving the option of further adjustment.



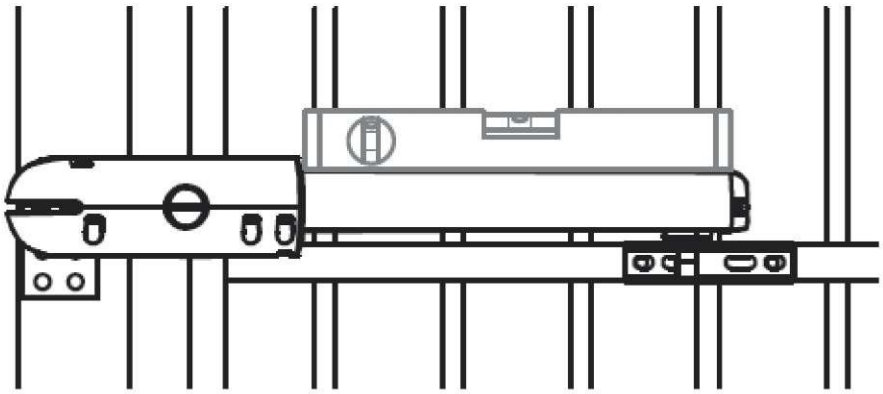


6. Attach the fixture to the gate using bolts.

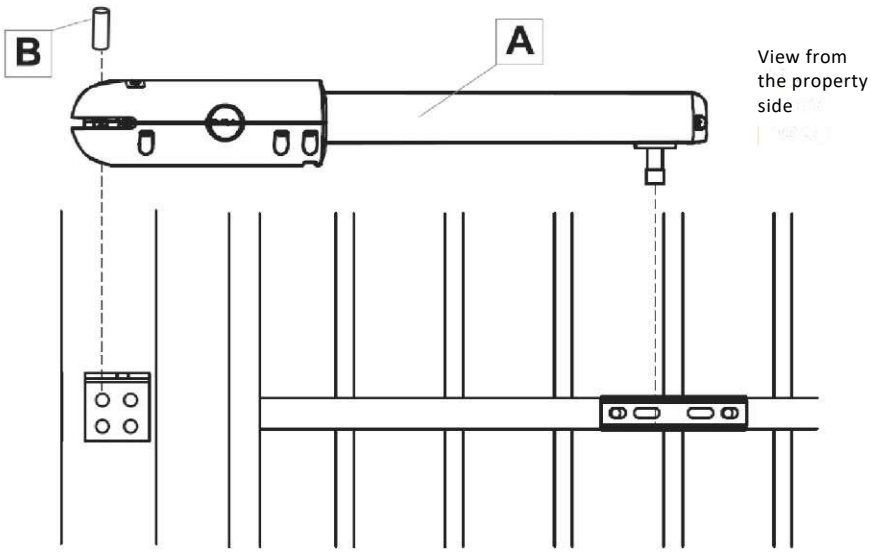
The fixture to the gate should be positioned in such a way as to enable further adjustment by means of gentle movements (tighten the bolts so that slight resistance can be felt).



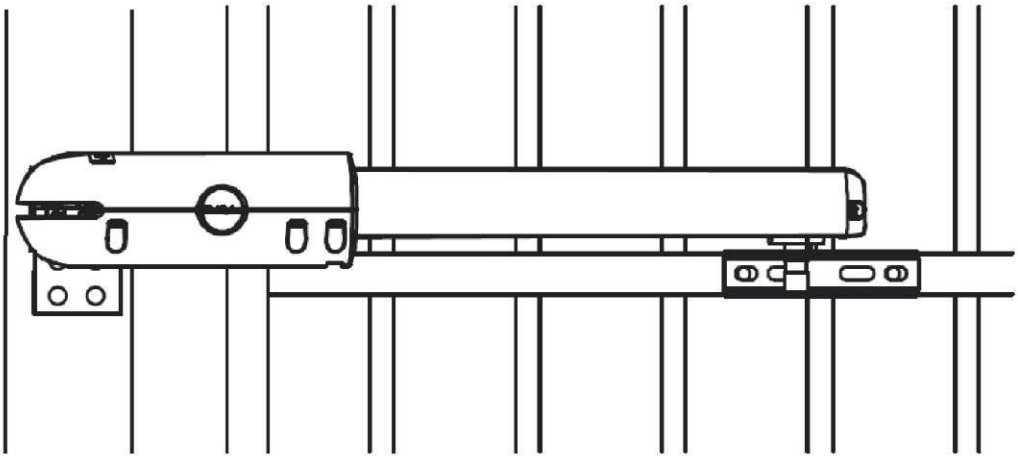
7. Then, when the gate is closed, fix the connector to the post.



8. Install the automatic device onto the properly installed fixtures.



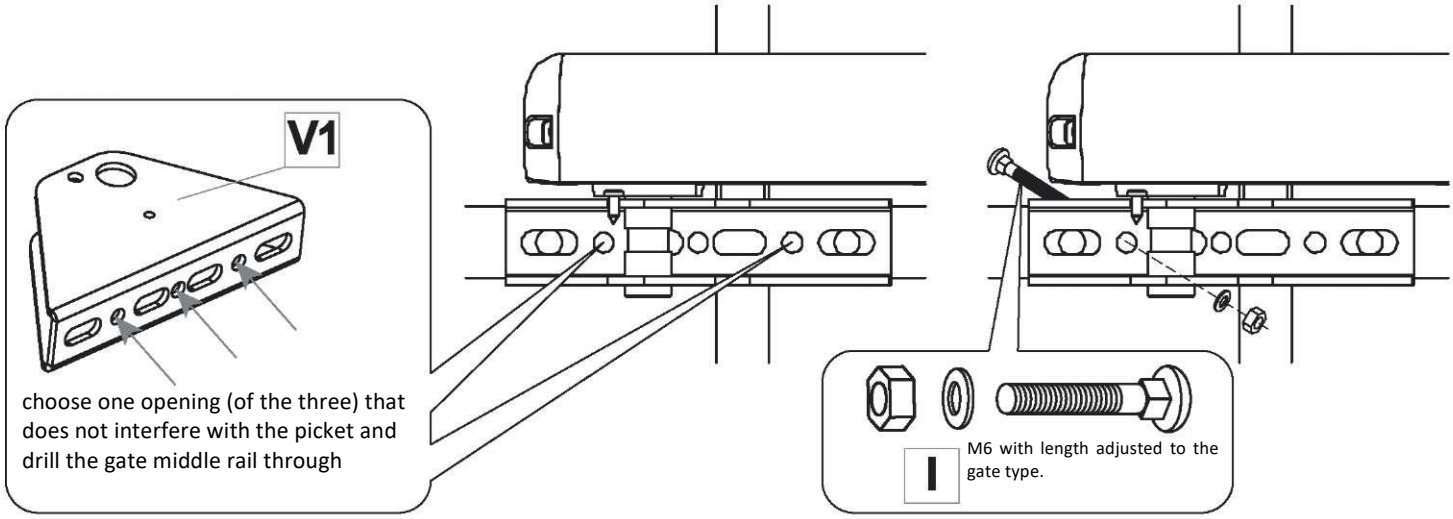
9. Install the automatic device onto the properly installed fixtures.



10. Remove the automatics Select one opening on the fixture that does not interfere with the picket.

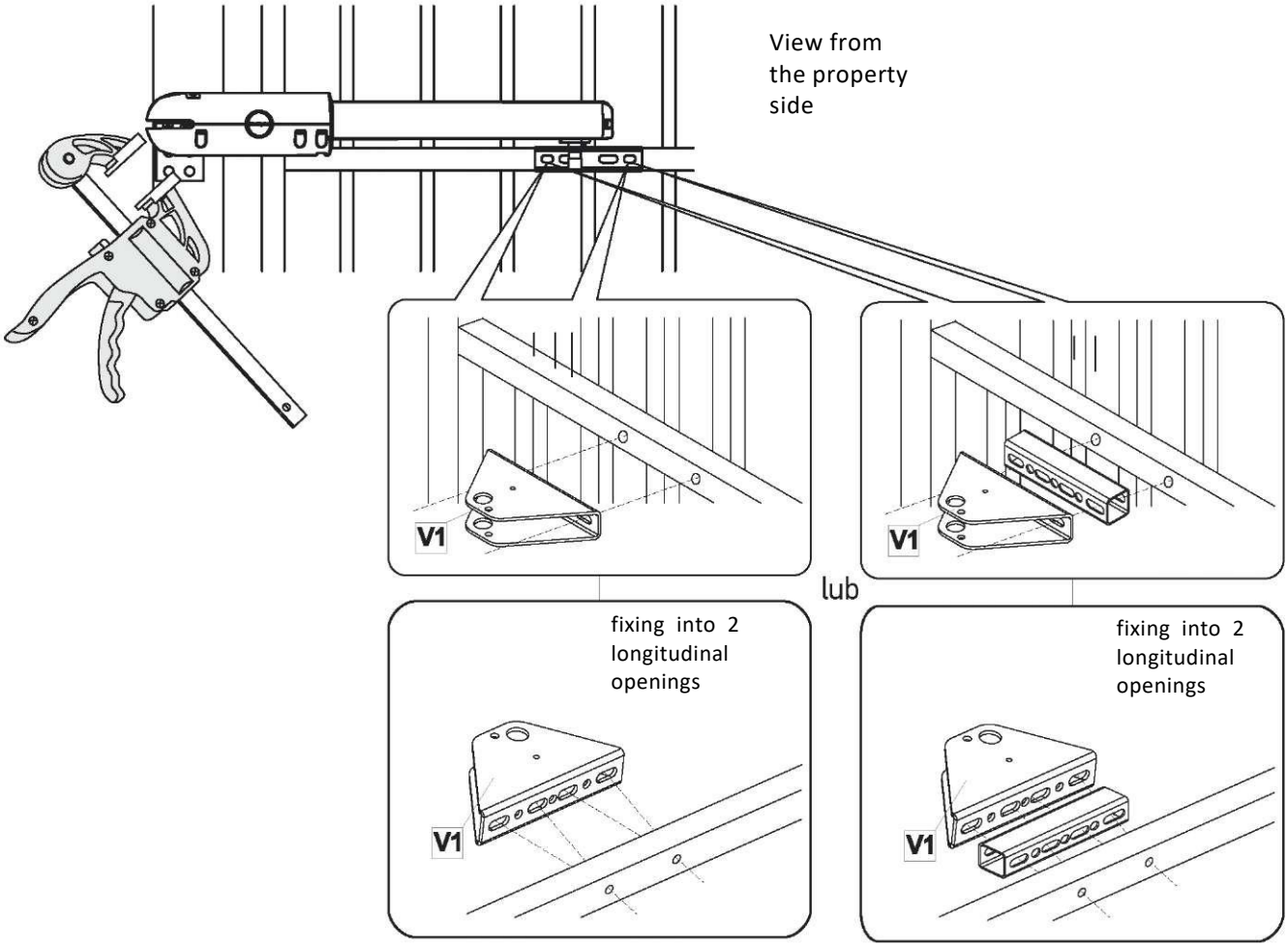
At the opening location, drill the gate middle rail through with a 6,5 drill bit.

Next, from the side of the street, ream the opening made with a 7,5 drill bit.
Install an M6 carriage bolt having the length appropriate for the gate type.

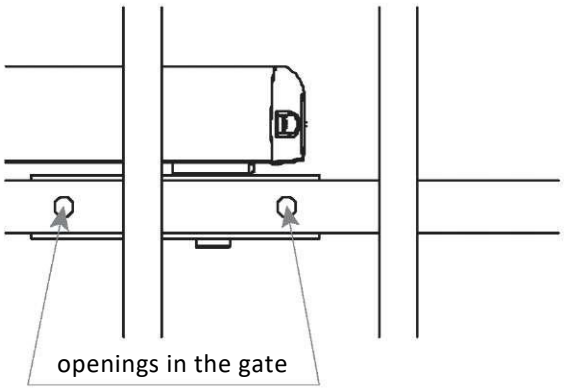


11. Hold the position of the L and R connectors using a clamp.

The actuator mandrel is ejected to the maximum towards the internal limiter when the closed gate adheres to the limiter in the ground.



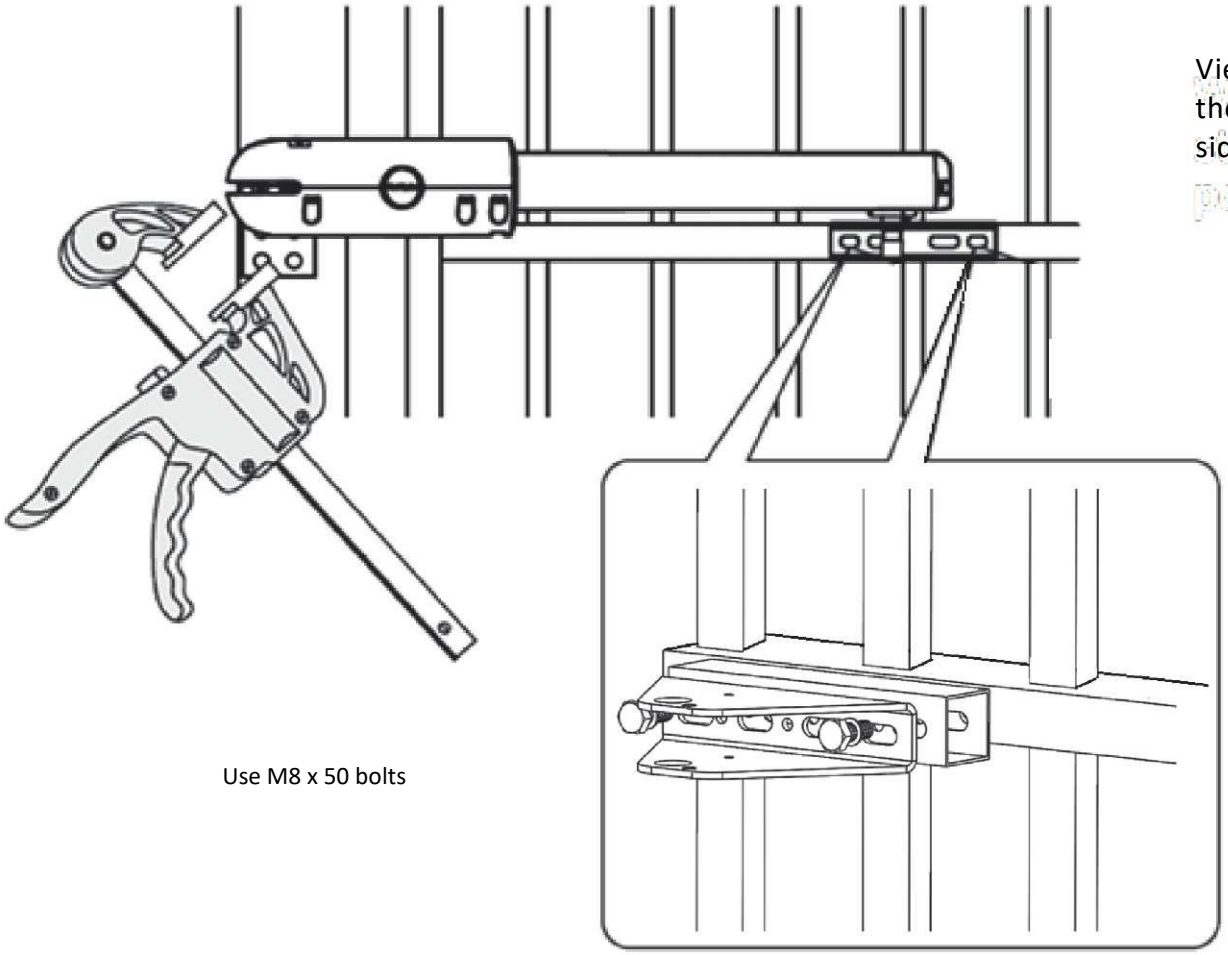
When applying the automatic to the gate, check which gate openings on the middle rail overlap with the openings on the fixture to the gate (V1) (fixing should be carried out using two chosen openings).



12. Repeat the steps 6 -10.

13. Hold the position of the L and R connectors using a clamp.

The actuator mandrel is ejected to the maximum towards the internal limiter when the closed gate adheres to the limiter in the ground.

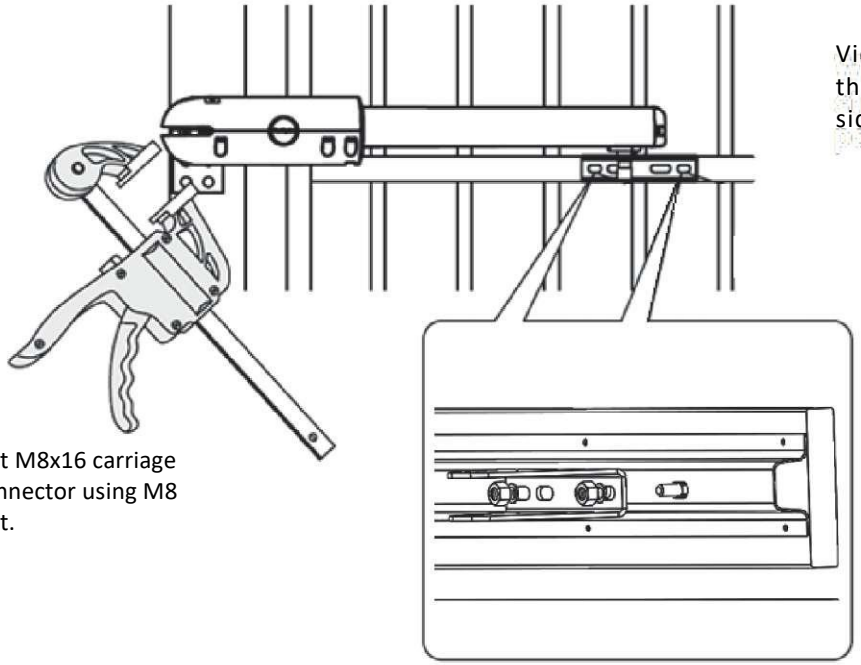


Use M8 x 50 bolts

14. Repeat the steps 8 and 9.

15. Hold the position of the L and R connectors using a clamp.

The actuator mandrel is ejected to the maximum towards the internal limiter when the closed gate adheres to the limiter in the ground.

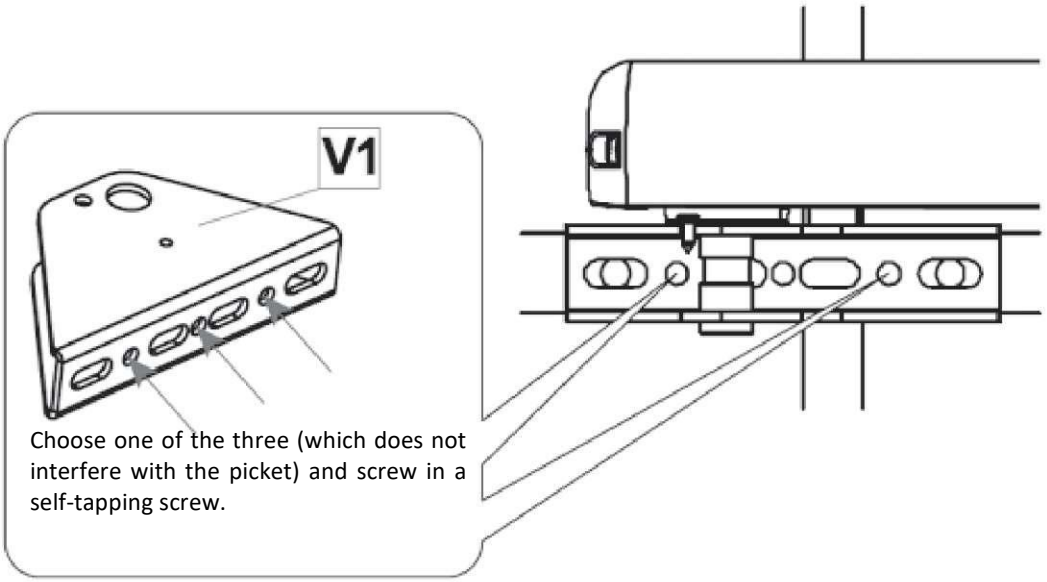


View from the property side

Dismantle the picket reinforcement Insert M8x16 carriage bolts into openings, then screw in the connector using M8 nuts and tighten the picket reinforcement.

16. Repeat the steps 8 and 9.

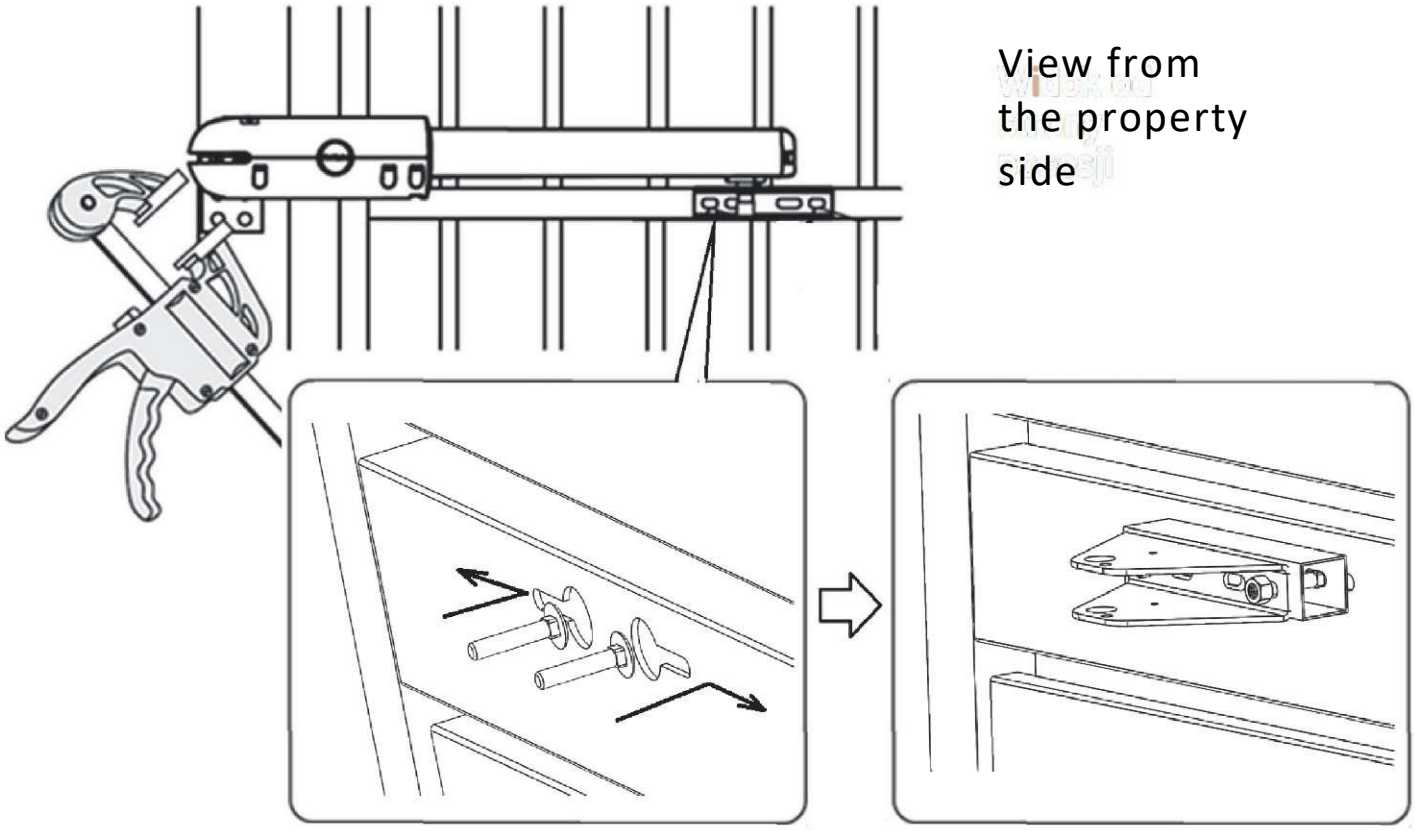
17. Remove the automatics. Select one opening on the fixture that does not interfere with the picket. Screw in a sheet metal screw there.



Choose one of the three (which does not interfere with the picket) and screw in a self-tapping screw.

18. Hold the position of the L and R connectors using a clamp.

The actuator mandrel is ejected to the maximum towards the internal limiter when the closed gate adheres to the limiter in the ground.

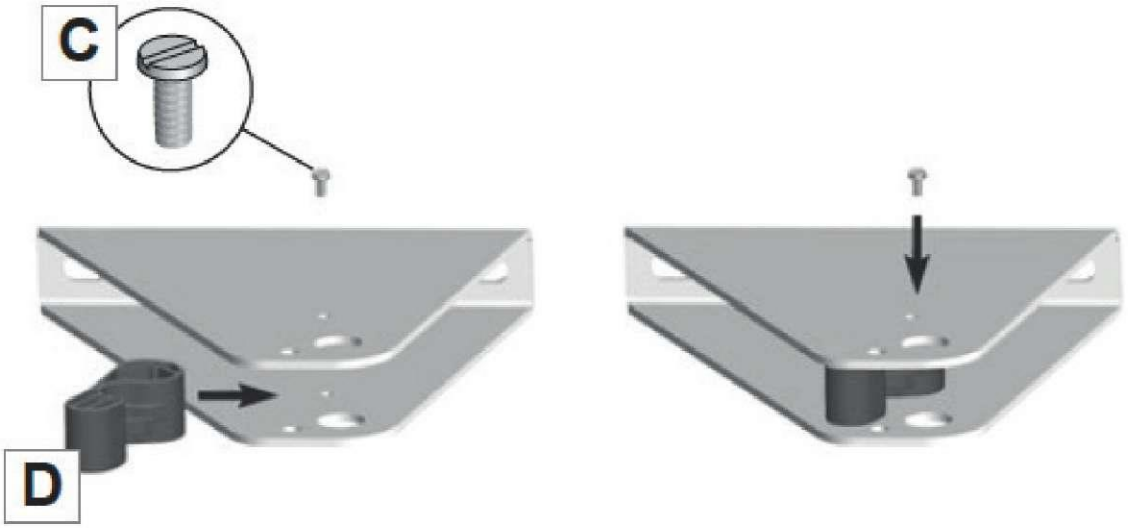


Slide the carriage bolts into the openings in the gate profile. Spread the bolts and install the spacer and the gate connector. Use washers and M8 nuts for tightening the connector.

19. Repeat the appropriate installation steps on the other wing depending on the gate type.

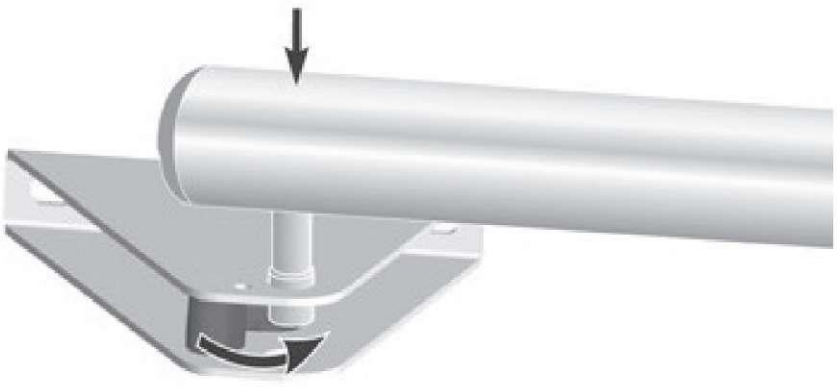
Installation of a clamp fixing the V1 or V2 wing

20. Install the unlocking element (D) on the clamp fixing the (V1) or (V2) wing using the bolt (C).



In order to use the unlocking element properly, it is necessary to maintain the installation direction specified on the diagram. Do not install the bolt from the underneath.

21. Install the drive mandrel in the clamp fixing the (V1) or (V2) wing. Fix the unlocking element (D) to the drive mandrel in order to lock the mandrel.

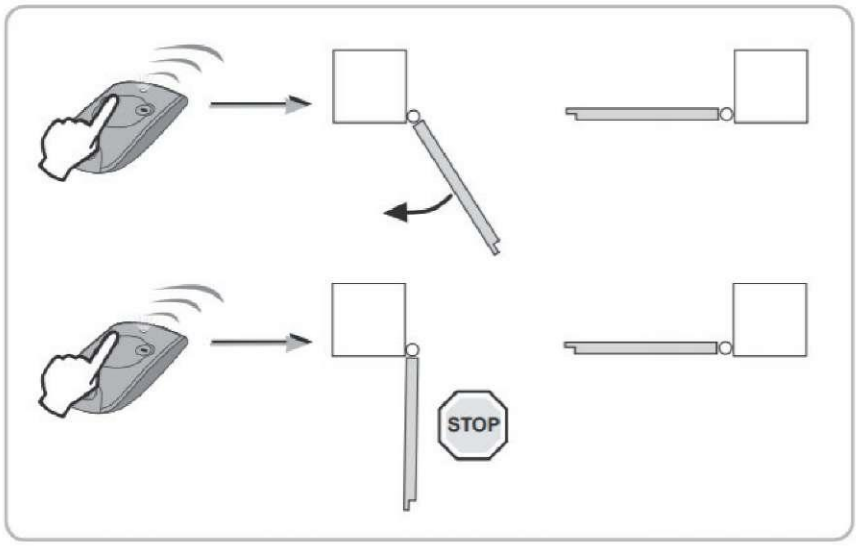


22. Repeat the appropriate installation steps on the other wing.

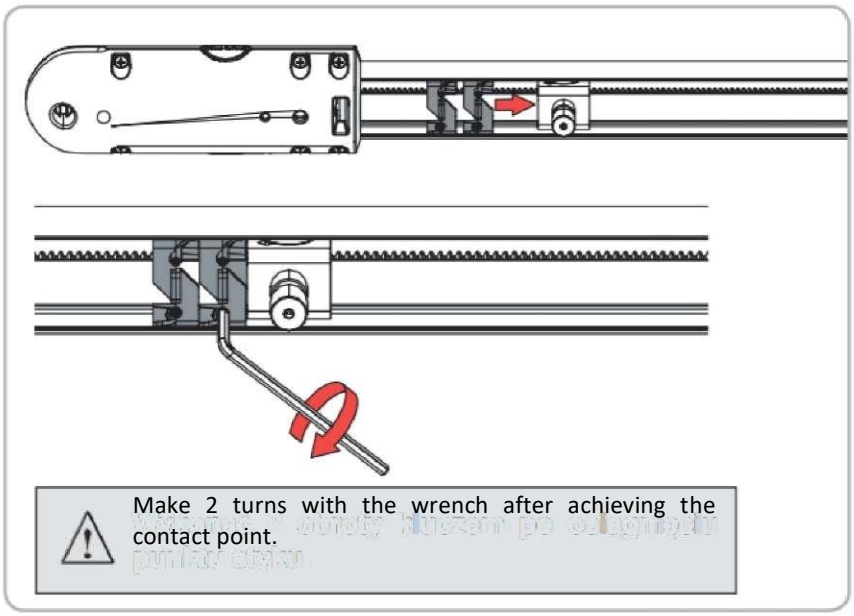
23. Setting the opening limiter

Push the button No. 1 of the remote control device. After a few seconds, the first wing of the gate will start opening slowly.

Push again the button No. 1 of the remote control device in order to stop the gate wing in the position desired.



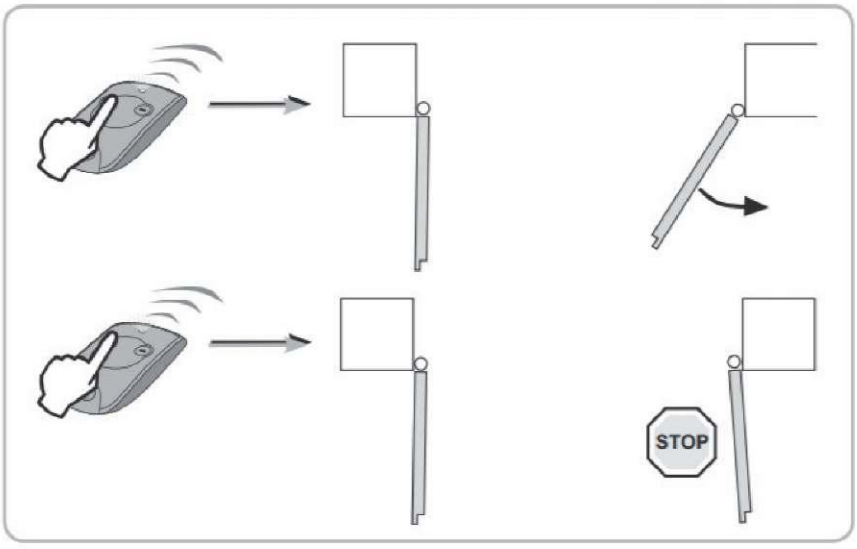
Set the opening limiters in such a manner that their bolt is in contract with the ball nut of the actuator, and then tighten them using a hexagonal 3mm Allen wrench (2 bolts per limiter).



Make 2 turns with the wrench after achieving the contact point.

Push the button No. 1 of the remote control device. The second wing of the gate will open.

Push again the button No. 1 of the remote control device in order to stop the gate wing in the position desired.



Repeat setting the limiters for the second wing.

Electrical connection

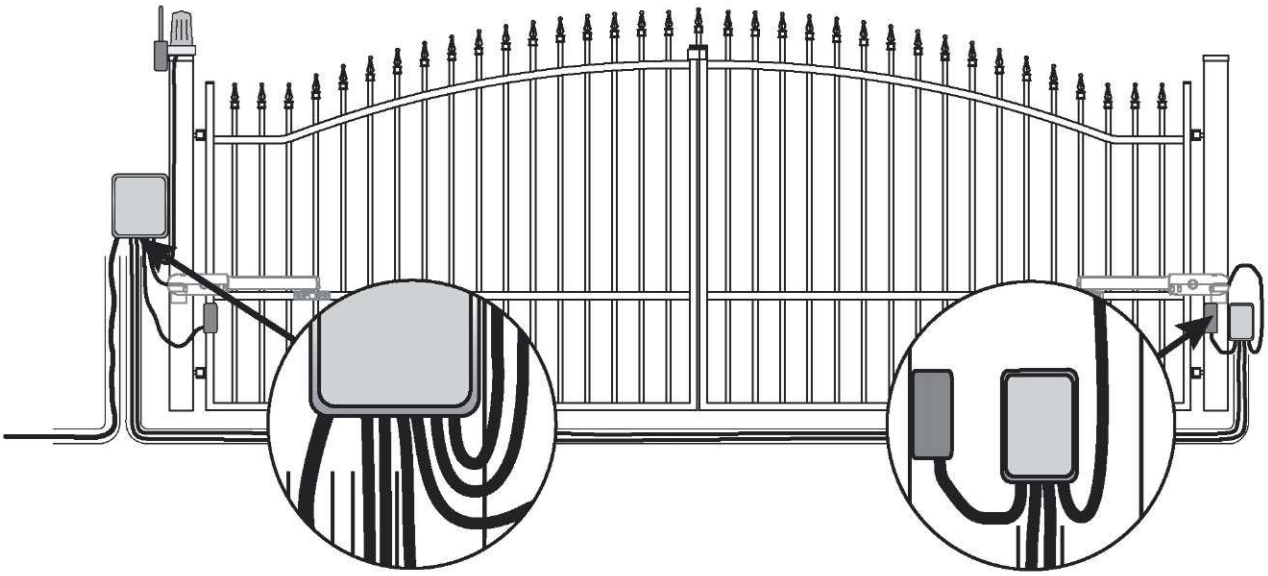
Stages

- Placement of the electrical distribution board on a post.
- Fixing the electrical distribution board to a post.
- Connection of two actuators.
- Connection of the antenna.
- Connection to the mains power supply or solar plant power supply.

Placement of the electrical distribution board on a post

The box should be installed on the side of the power supply source.

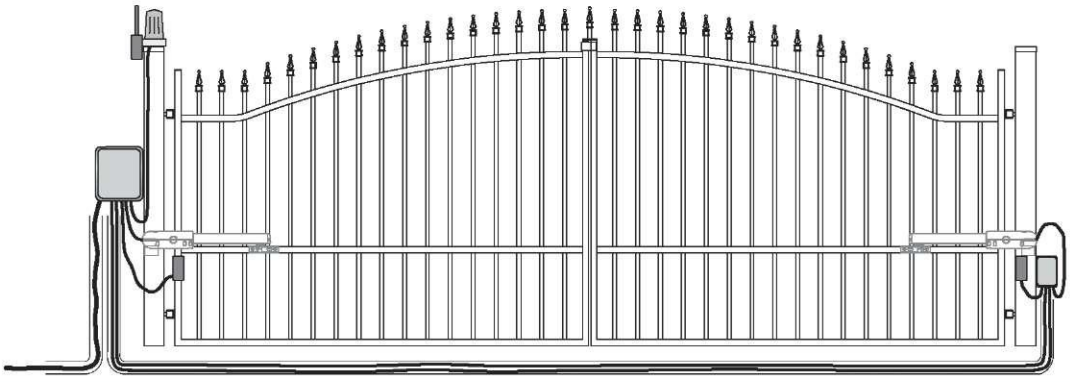
View from the property side



Installation of the control module

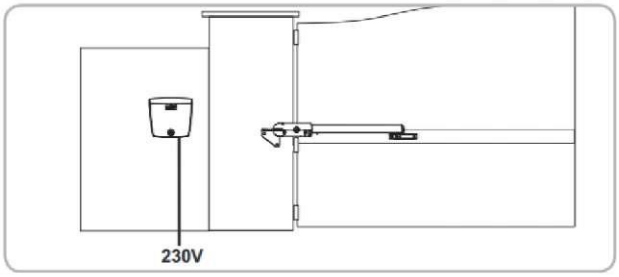
Placement of the electrical distribution board on a post

The box should be installed on the side of the power supply source.



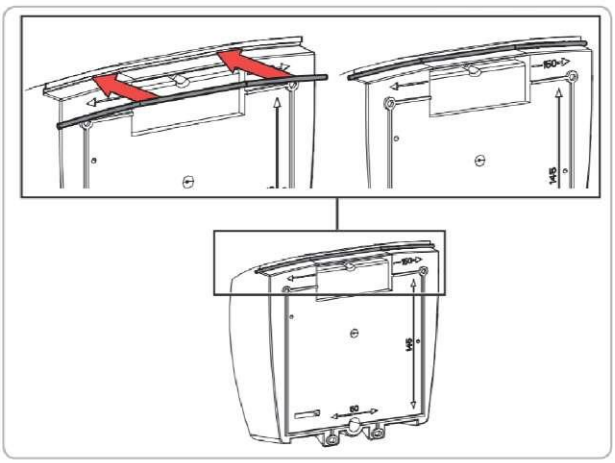
Location of the control module on a post/wall

1. The module should be installed on the side of the power supply



Installation of a sealing cord

2. Introduce the sealing cord (13) into the top part of the control module.

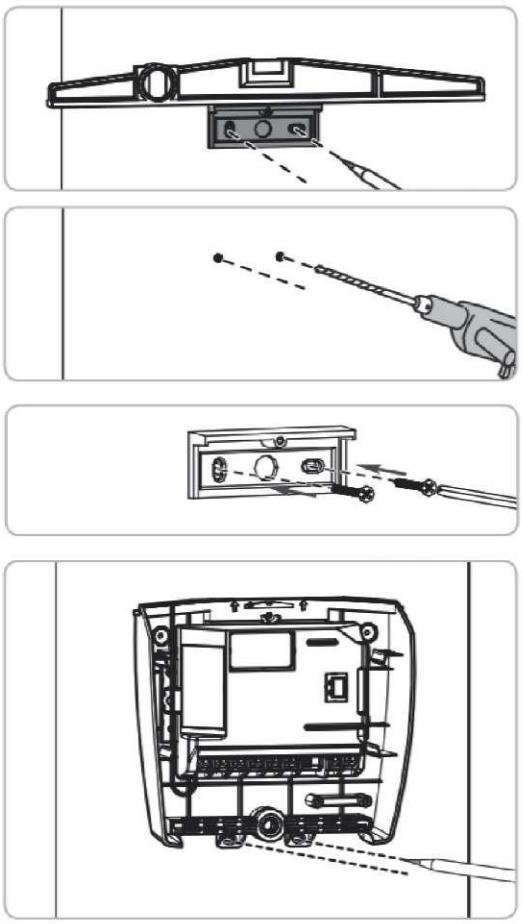


Fixing the control module to the post

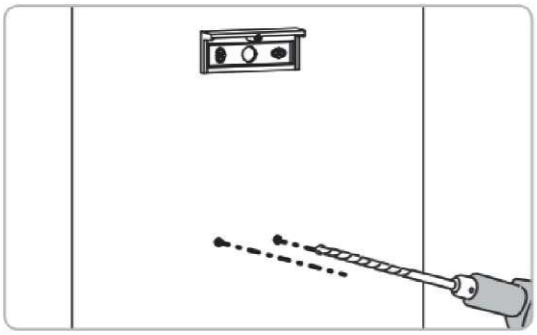
3. Place the angle bar fixing the module near the post/wall. Checking whether it is level by placing the spirit level at a right place. Mark the angle bar fixing points.

4. Remove the angle bar and drill an opening through the post/wall. Determine the diameter of the opening on the basis of the type of bolts used for fixing. Fix the angle bar to the post/wall.

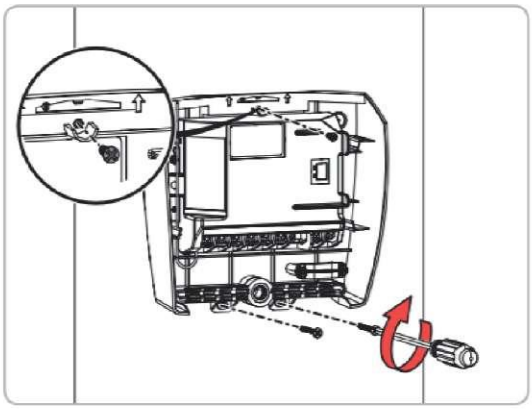
5. Place the bottom of the module in such a way as to enable marking the 2 fixing points in the bottom part of the module.



6. Remove the bottom of the module and then drill an opening through the post/wall.
Determine the diameter of the opening on the basis of the type of bolts used for fixing.

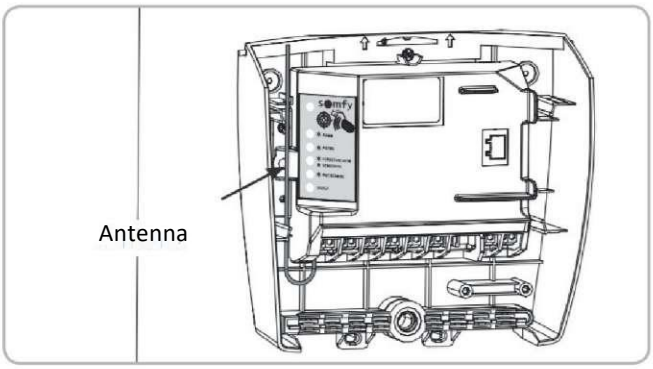


7. Fix the bottom of the module to the post/wall: 1 bolt for fixing the module to the angle bar + 2 bolts for fixing the module to the post/wall.



Checking the antenna location

8. The correct location of the antenna is of fundamental importance for optimal functioning.



Never trim the antenna wire.

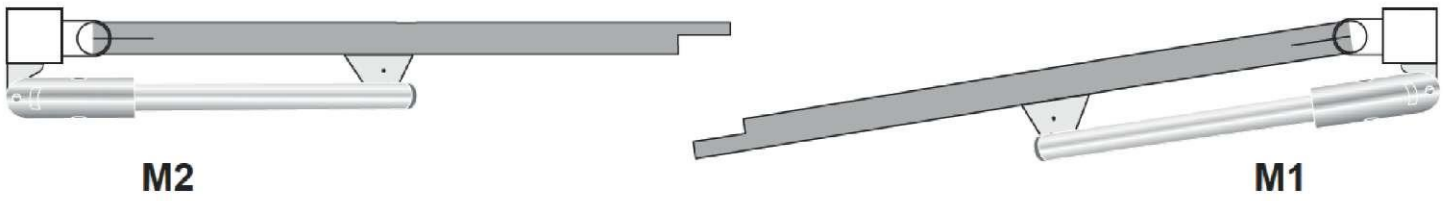
Connection of drives

The M1 drive starts the wing that
- opens first and closes last,
- opens in order to enable a pedestrian to go through the gate.

Connection of two actuators

1. The connection between the actuators and the electrical distribution box has to be made prior to connecting that box to the mains.

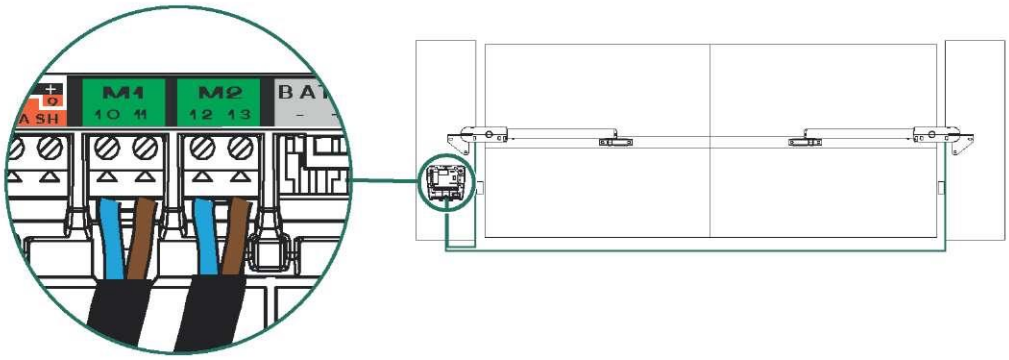
The M1 actuator has to be installed on the post of the wing that opens first and closes last.



The M1 actuator starts the right wing, which opens first and closes last.

2. Connect the drives in the manner indicated in the table below:

Connect the cable of the drive No. ...		to the terminal No. ...
M1	blue	10
	brown	11
M2	blue	12
	brown	13



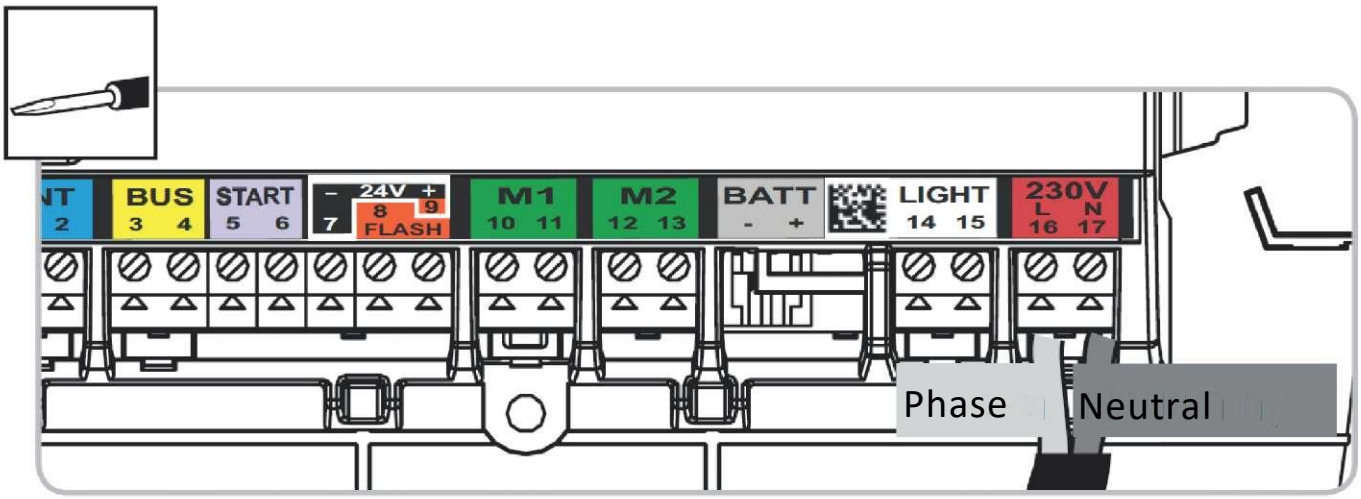
Connection to the power grid

Due to safety reasons these activities have to be performed with the power supply disconnected. Use a 3 x 1.5 mm^2 cable for indoor use (at least of the H07RN-F type). It is obligatory to use the cable holder provided. Check whether all the low voltage cables endure the impact of 100 N force. Check whether the cables remain unmoved after applying such a force.

1. Connect the earthing cable in the fuse box.
   The earthing cable (green/yellow) will be necessary in case of certain accessories (Class I 230 V lighting).

2. Connect the phase and the zero point. Check whether the cables are locked properly by pulling them.

3. Connect the phase cable and the neutral cable to the terminals No. 16 and 17 (red “230 V” label). Install a connection block on the earthing cable (yellow/green) and place it in the control module.

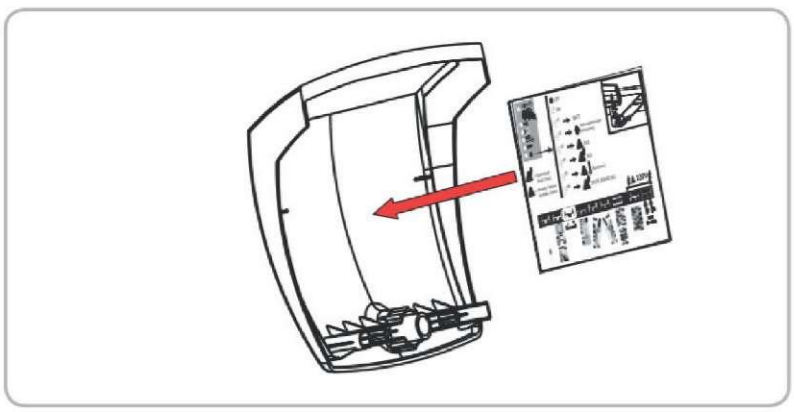


Blue cable	Neutral (No. 17)
Red/brown/black cable	Phase
Green/yellow cable	Earthing (No. 16)

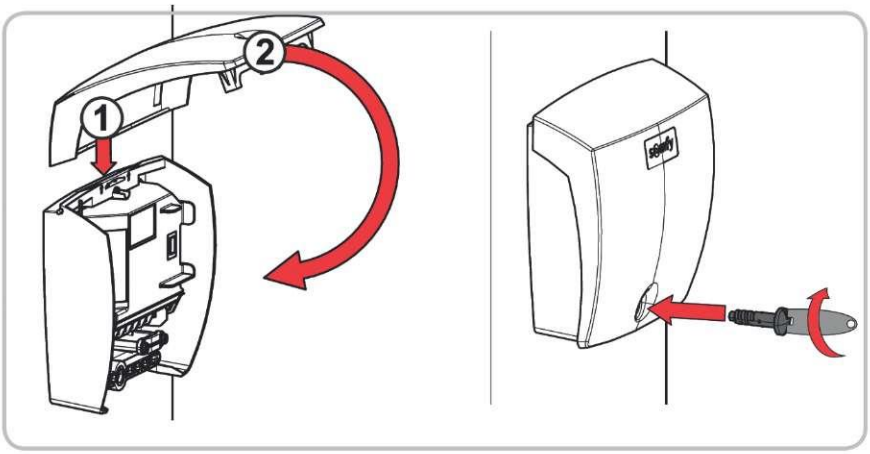
It is obligatory to adhere to the recommendations regarding cable colours. Install a connection block on the earthing cable (yellow/green) and place it in the control module.

Close the control module housing.

4. Place the information sticker on the bottom of the control module cover.



5. Close the control module housing and screw in the cover



Startup and standard use

Stages

- Explanation of symbols used.
- Remote control device programming.
- Learning the wing movement path.
- Adjustment of the automatic system.
- Switching from automatic mode to sequential mode.
- Confirmation of settings.

Explanation of symbols used

Long press for more than 0.5 second	↓
Short press for less than 0.5 second	↓

The status light flashes	◐
The status light is on continuously	○

Operation modes of remote control devices

Before starting to enter the installation parameters, it is necessary to check whether the ON/OFF and PROG status lights are on and whether the ⚠ DANGER status light is off.

The drive provides 2 modes of functioning:

- Only full opening
  Full opening of 2 wings through short or longer press of a remote control device button.
- Opening that enables passage of a pedestrian, or full opening
  Opening of only a single wing through short press of the remote control device button, in order to enable passage of a pedestrian.
  Full opening of 2 wings through longer press of a remote control device button.

The remote control devices delivered in the set are factory-recorded in the controller memory and do not require programming. Any remote control devices that have been purchased separately require programming - see pages 40-41 - Remote control device programming

Turning on the power supply for the system

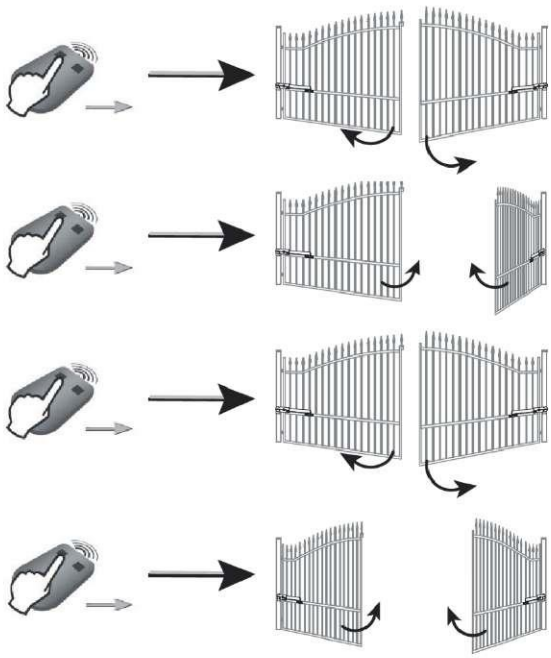
The status light ⏻ flashes (2 times).
The drive is live and awaits automatic learning.
If the status light ⏻ does not light up or if the number of flashes differs from the expected one: see “Diagnostics”.

Automatic learning of the gate travel path

Check whether the system is live:
the status light flashes (2 times).

1. Push the button No. 1 of the remote control device in order to make the gate open FULLY. The wings open one after the other.
2. Once the gate is fully open, push again the button No. 1 of the remote control device in order to make the gate close FULLY.
3. Push the button No. 1 of the remote control device in order to make the gate open FULLY. The wings open with a small difference in their opening time.
4. Once the gate is fully open, push again the button No. 1 of the remote control device in order to make the gate close FULLY.

Once the gate is fully closed, the status light of the control module should be LIT CONTINOUSLY.



Do not interrupt gate movement (full opening/closing). In the even of the gate movement being interrupted, learning will be resumed automatically during the next opening.

If the status light flashes, resume the automatic wing movement path learning procedure (4 full opening and closing movements).
If the status light keep flashing, see “Diagnostics”, page 49.

If the gate opens again after the closing movement is finished, loosen the wing fixtures and move them slightly towards the centre of the gate.

After finishing the installation it is obligatory to check whether the obstacle detection system complies with the specification provided in Annex A to the EN 12453 standard.

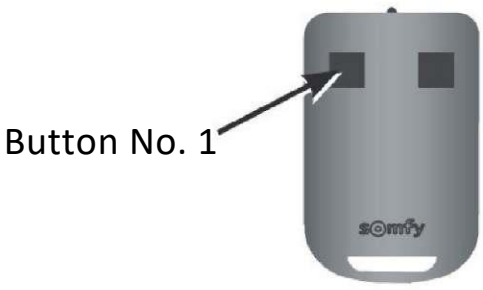
Setting the electronic control system standby/wake-up mode

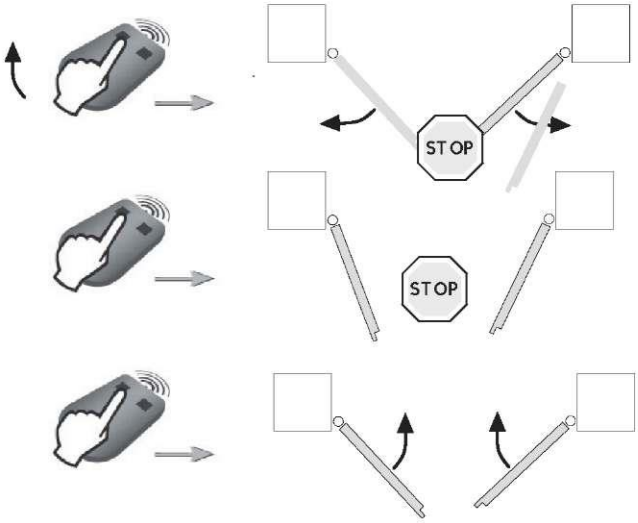
After performing automatic learning, the electronic system switches automatically to standby mode after 5 minutes if it receives no commands, in order to save power. In the standby mode all the status lights are off.

In order to check whether the driver is powered, or to check/change the setting, it is necessary to press and hold the button for 2 seconds in order to wake the electronic system. The electronic system switches to standby mode automatically after 5 minutes if it receives no commands.

Full gate closing and opening

The remote control devices delivered in the set are programmed. The procedure below enables programming additional remote control devices.





Push the button No. 1 of the remote control device in order to open the gate fully.

Gate in motion: push the button No. 1 of the remote control device in order to stop the gate.

Gate open: push the button No. 1 of the remote control device in order to close the gate.

Obstacle detection

If the system detect an obstacle (impact of non-standard force on the drive assembly):

- When opening the gate: the gate stops.
- When closing the gate: the gate stops and the opens again.

User training

It is necessary to familiarise all the users with the principles of fully safe operation of this gate with an electric drive (standard usage and unlocking method) and carrying out obligatory periodic checks.

Advanced settings

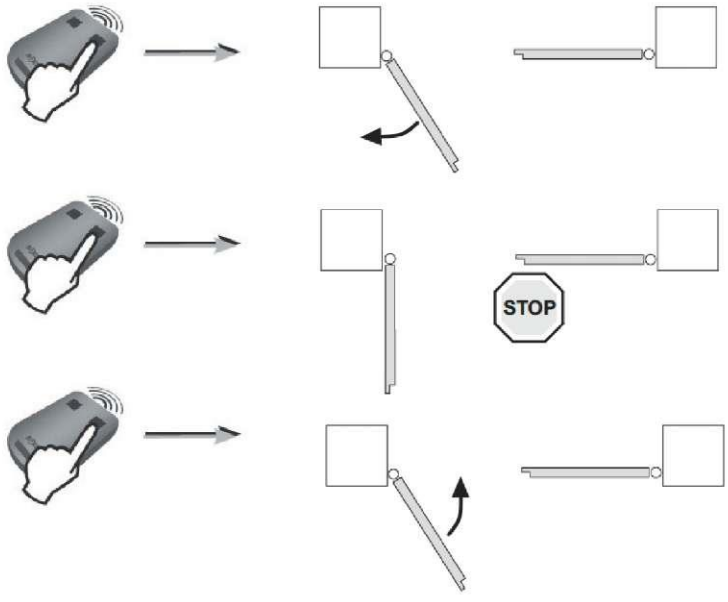
Opening that enables passage of pedestrians

Functioning of the opening mode that enables passage of pedestrians

Opening that enables passage of pedestrians (M1 drive) by pressing an active button.

Stopping a moving gate by pressing the active button again.

Closing by pressing the active button again.

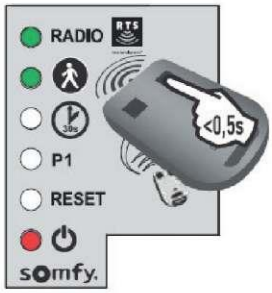


Activation of the opening mode that enables passage of pedestrians

Button No. 1 of remote control devices with 2 or 4 buttons cannot be programmed for controlling the gate opening mode that enables passage of pedestrians. See “Presentation of remote control devices”, page 40, in order to obtain additional information.

1. Press and hold for 2 s the button of the electronic control system. The status light becomes lit.

2. Put the remote control device on the dial of the electronic control system.



3. Push the button No. 2 of the remote control device. The RADIO and status lights become lit, and then they go out.
The function of opening that enables passage of pedestrians becomes activated in this button.

Move away from the electronic control system in order to test the mode of opening that enables passage of pedestrians.

Deactivation of the opening mode that enables passage of pedestrians

Repeat the procedure “Activation of the opening mode that enables passage of pedestrians” using the button for which the opening mode that enables passage of pedestrians should be deactivated. The status light becomes lit and then goes out. The mode of opening that enables passage of pedestrians becomes activated in this button.

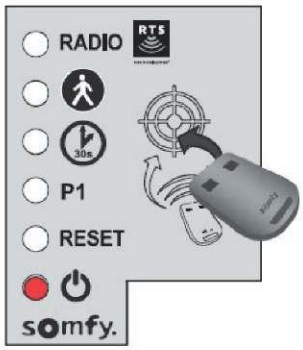
The method of functioning of the automatic closing mode

The gates closes after 30 seconds or after 5 seconds in case of detection passage through the photocells. Automatic closing of the gate can be interrupted by pushing the button No. 1 of the remote control device. In order to close the gate it is necessary to push again the button No. 1 of the remote control device.

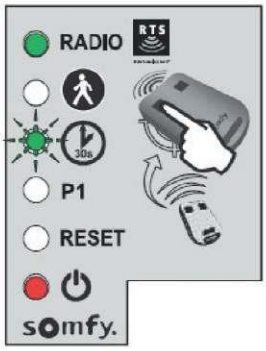
Activation of the automatic closing mode

The automatic closing function can be activated only if the photocells are connected and recognised by the electronic control system of the drive.

1. Press and hold for 2 s the button of the electronic control system. The status light becomes lit.

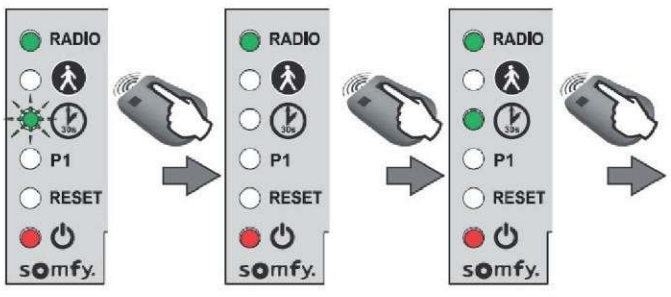


2. Put the remote control device on the dial of the electronic control system.

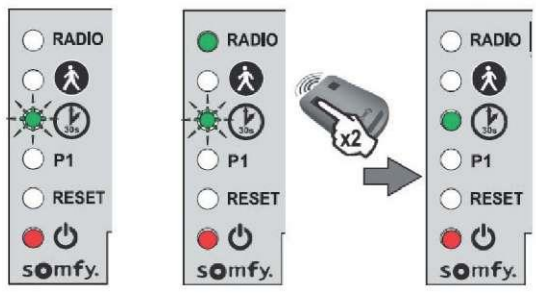


3. Hold the pressed button No. 1 of the remote control device until the status light starts flashing.

After finishing step 3, the next steps can be performed in remote mode (without placing the remote control device on the dial drawing).



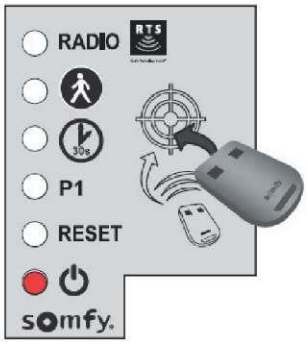
4. Hold the pressed button No. 2 of the remote control device until the status light starts goes off, and then become lit continuously.



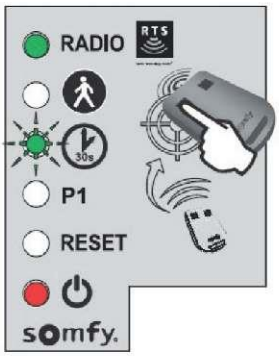
5. After releasing the button No. 2, the status light flashes, and it is necessary to press the button No. 1 of the remote control device twice. The status light remains lit.
The automatic closing function is activated

Deactivation of automatic closing

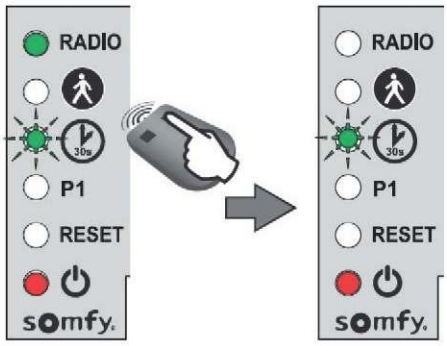
1. Press and hold for 2 s the button of the electronic control system. The status light becomes lit.



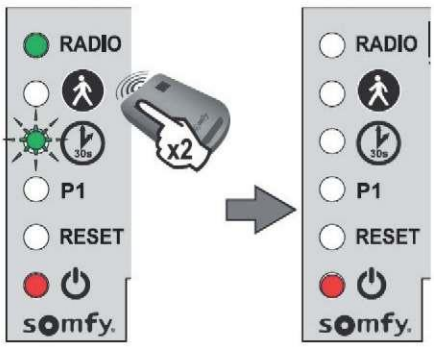
2. Put the remote control device on the dial of the electronic control system.



3. Hold the pressed button No. 1 of the remote control device until the status light starts flashing.



4. Push the button No. 2 of the remote control device. The status light flashes.



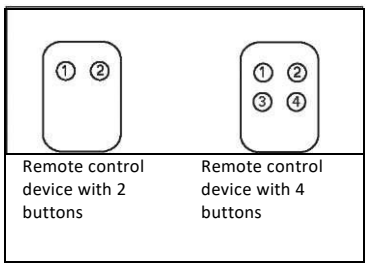
5. Push the button No. 1 of the remote control device twice.

6. The status light is off. The automatic closing function is activated

Presentation of remote control devices

The Somfy RTS remote control devices may control, according to the settings selected:

- full gate opening
- gate opening that enables passage of pedestrians
- other Somfy RTS equipment (e.g. garage door drive, roller blinds, etc.)



Remote control device with 2 buttons

Remote control device with 4 buttons

The device memory can store up to 16 control points (remote control devices, other radio control points). In the event of saving the 17th control point in memory, the first saved point will be deleted automatically.

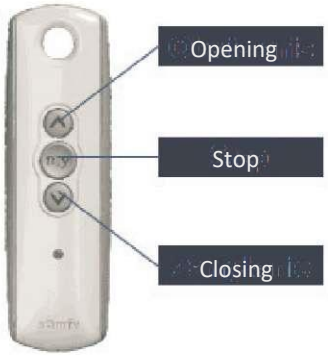
If the mode of opening that enables passage of pedestrians is to be programmed, this has to be done in the button the is next in order after the button that control the full opening mode (e.g. the full opening mode is controlled using the button No. 2, while the mode of opening that enables passage of pedestrians - using the button No. 3). It is impossible to program the mode of opening mode that enables passage of pedestrians in the button No. 1 of the remote control devices.

Methods of programming a remote control device with 2 buttons

	Button (1)	Button (2)
Method 1	Full opening	Opening that enables passage of pedestrians, or other Somfy RTS automatic mechanism
Method 2	Other Somfy RTS equipment	Full opening

Methods of programming a remote control device with 4 buttons

	Button (1)	Button (2)	Button (3)	Button (4)
Method 1	Full opening	Opening that enables passage of pedestrians, or other Somfy RTS automatic mechanism	Other Somfy RTS automatic mechanism	Other Somfy RTS automatic mechanism
Method 2	Other Somfy RTS automatic mechanism	Full opening	Opening that enables passage of pedestrians, or other Somfy RTS automatic mechanism	Other Somfy RTS automatic mechanism
Method 3	Other Somfy RTS automatic mechanism	Other Somfy RTS automatic mechanism	Full opening	Opening that enables passage of pedestrians, or other Somfy RTS automatic mechanism
Method 4	Other Somfy RTS automatic mechanism	Other Somfy RTS automatic mechanism	Other Somfy RTS automatic mechanism	Full opening



In order to open the gate fully, it is necessary to push the «Up» button of the remote control device.

In order to stop the gate while it moves, push the middle button of the remote control device.

In order to close the gate, it is necessary to push the «Down» button of the remote control device.

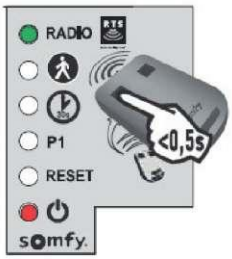
A remote control device with 3 buttons may not be used for changing the drive settings.

Adding a remote control device

Remote control device with 2 or 4 buttons

1. Press and hold for 2 s the button of the electronic control system. The ⏻ status light becomes lit.

2. Put the remote control device on the dial of the electronic control system.

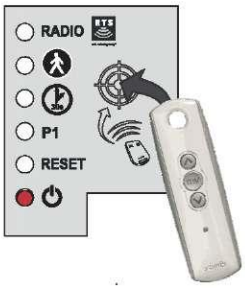


3. Press shortly the remote control device button intended for programming. The “RADIO” status light becomes lit and then it goes out once the remote control device button is released.

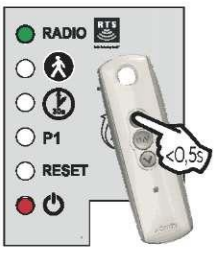
In that button, the full opening mode has been programmed.

Remote control device with 3 buttons

1. Press and hold for 2 s the button of the electronic control system. The ⏻ status light becomes lit



2. Put the remote control device on the dial of the electronic control system.



3. Press shortly the remote control device button intended for programming. The “RADIO” status light becomes lit and then it goes out once the remote control device button is released.

The remote control device has been stored in the memory.

Deletion of remote control devices - see pages 47-48.

Cabling of accessories

Due to safety reasons these activities have to be performed with the power supply disconnected.

It is recommended to perform automatic learning of the gate travel path before connecting accessories (photocells, orange light, etc.)

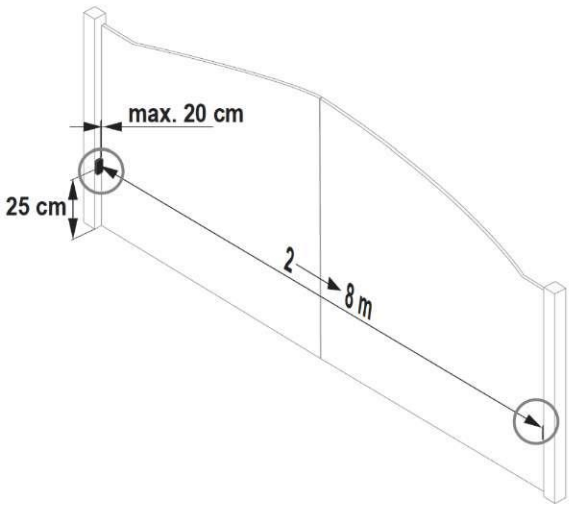
Photocells / Intelligate gate

The photocells enable stopping or changing the movement direction of the gate in the event of detecting an obstacle.
It is possible to install a set of photocells. Each set of photocells includes:

- a transmitting photocell (TX),
- a receiving photocell (RX).

Placement of photocells

In order to facilitate the installation cables, located the receiving photocell on a post featuring the drive fitted with an electronic system.



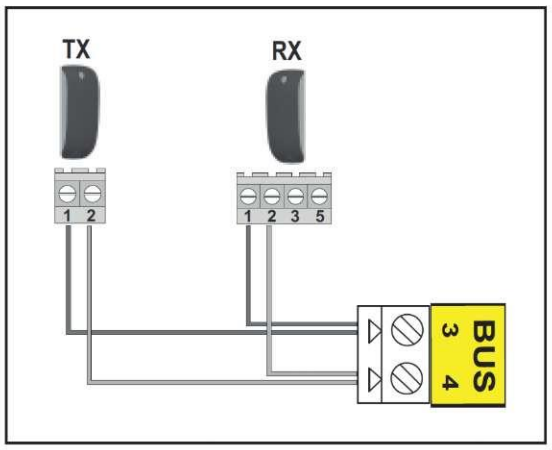
Before connecting the photocells it is necessary to remove the wire (clamp) located between terminals 3 and 4 of the electronic module.

The cabling of the second set of photocells is not possible to make in case of this drive assembly.

Installation

After connecting the cables to the photocells it is necessary to:

- turn off the drive's power supply,
- launch the gate opening and closing mode.



Photocells are recognised by the electronic control system after this movement is finished.

Operation with the use of photocells

if the photocells are obscured when the gate is being closed, the gate stops and then starts opening again.

In case of removal of photocells

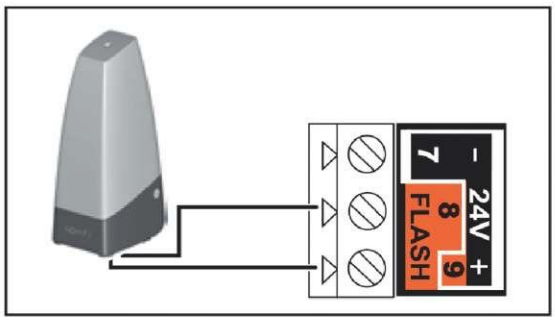
After removing photocells, turn on the drive power supply again and then carry out the "Deactivation of automatic closing" procedure, page 39.

Orange light (option)

Lamp - 10 W and 24 V MAXIMUM - Using a lamp with power of more than 10 W - 24 W may cause incorrect functioning of the drive assembly.

Orange light functioning

The orange light flashes when the gate is moving.



This element is not compatible with solar energy powering.

In order to extend the battery functioning time, the wired control system become disconnected; the gate is controlled only by means of remote controlled devices and radio transmitters.

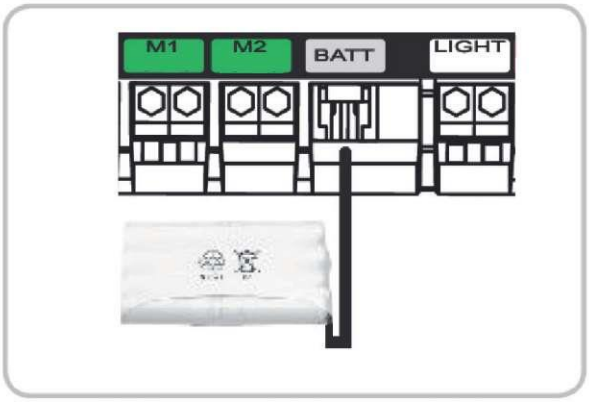
Spare battery

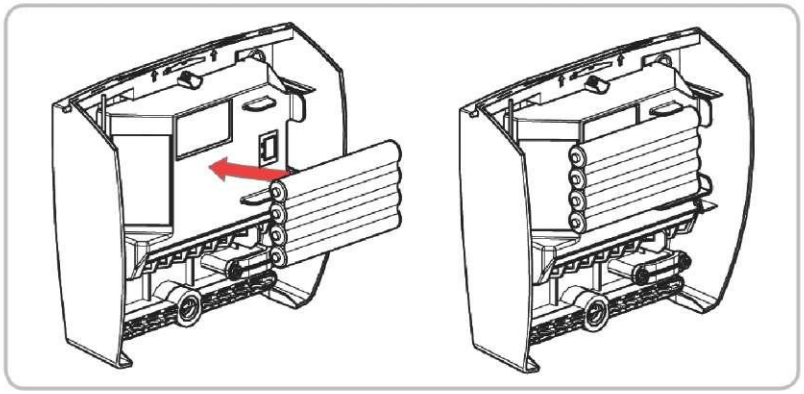
The spare battery ensures that the gate operates at low speed in the event of any electrical malfunction.

The batter is built into the drive's electronic module and directly connected with it.

- Operation time: 10 cycles in continuous mode, or 24 hours if the gate is in good technical condition.
- Optimal battery charging time prior to use: 48 hours.
- Battery lifetime: 3 years.

In order to ensure optimal lifetime of the battery, disconnect the electrical power supply of the gate 3 times a year in order to enable powering it from the battery for several operation cycles.



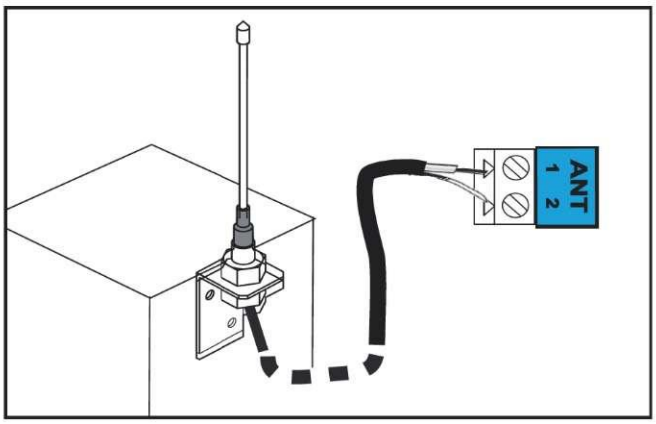


Do no place the battery cable over the electrical power supply source.

Independent antenna (option)

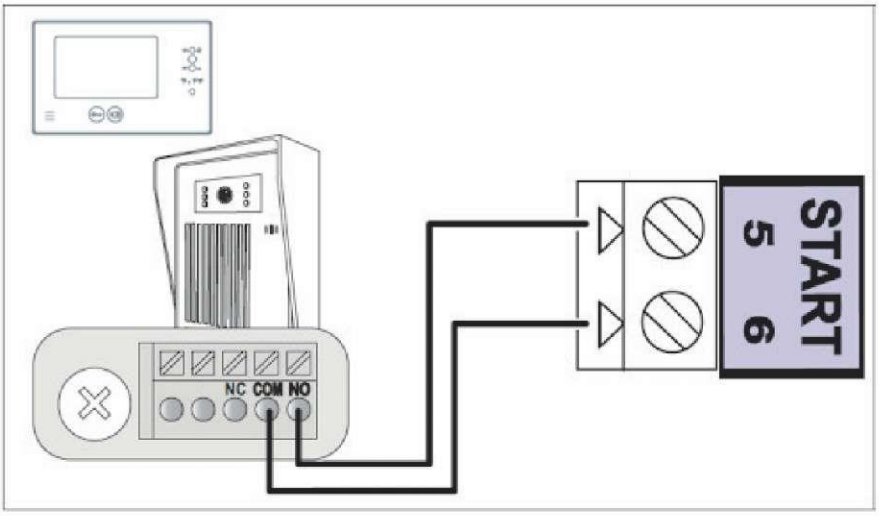
An independent antenna characterised by greater range may replace the wired antenna. It is necessary to place it on top of the post and check whether it is not obscured.

The antenna is connected to terminals 1 and 2 (blue “ANT” sticker) of the control module: the cable core goes to terminal 1, while the ground wire bundle - to terminal 2.



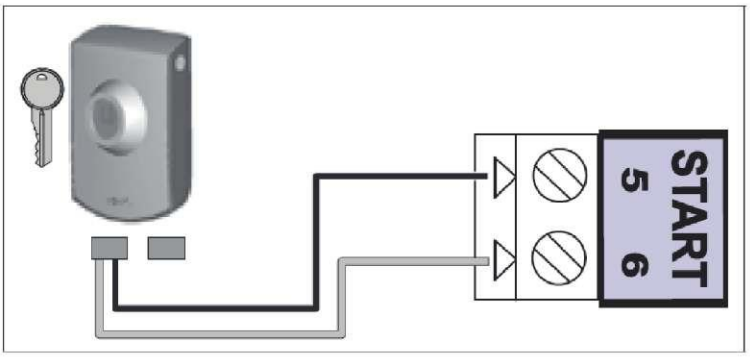
Video intercom (option)

This element is not compatible with solar energy powering. Connect only one potential-free contact without power supply.



Key switch (option)

This element is not compatible with solar energy powering.

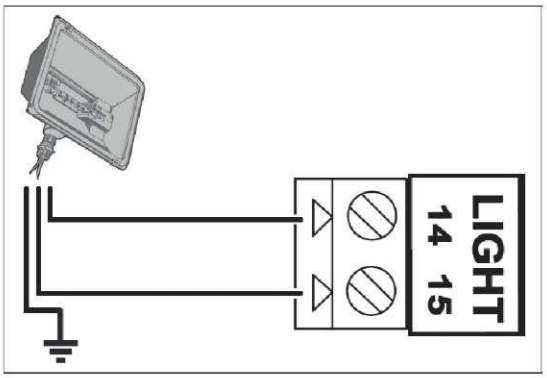


Zone lighting (option)

This element is not compatible with solar energy powering. For zone lighting only halogen or incandescent lamp with maximum power of 500 W should be used.

Zone lighting functioning

The zone lighting lights up every time when the drive is started. It goes out automatically after 1 minute and 30 seconds after the movement ends.

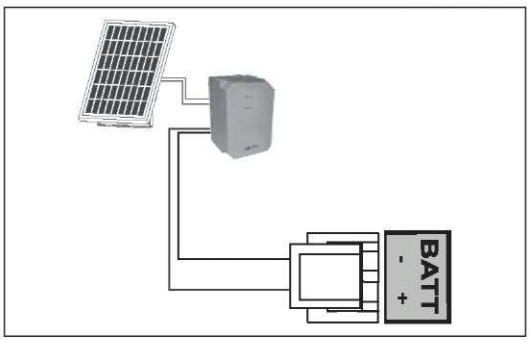


Powering with solar energy (option)

Never connect the drive to 230 V power supply when it is connected to the solar power supply source, as it may lead to damage to the electronic module of the drive.

When the driver operates using a solar power supply:

- the gate can be controlled only using remote control devices and radio transmitters (wired control is inactive),
- the wired safety devices (photocells, orange light) remain active.



Help in removal of malfunctions

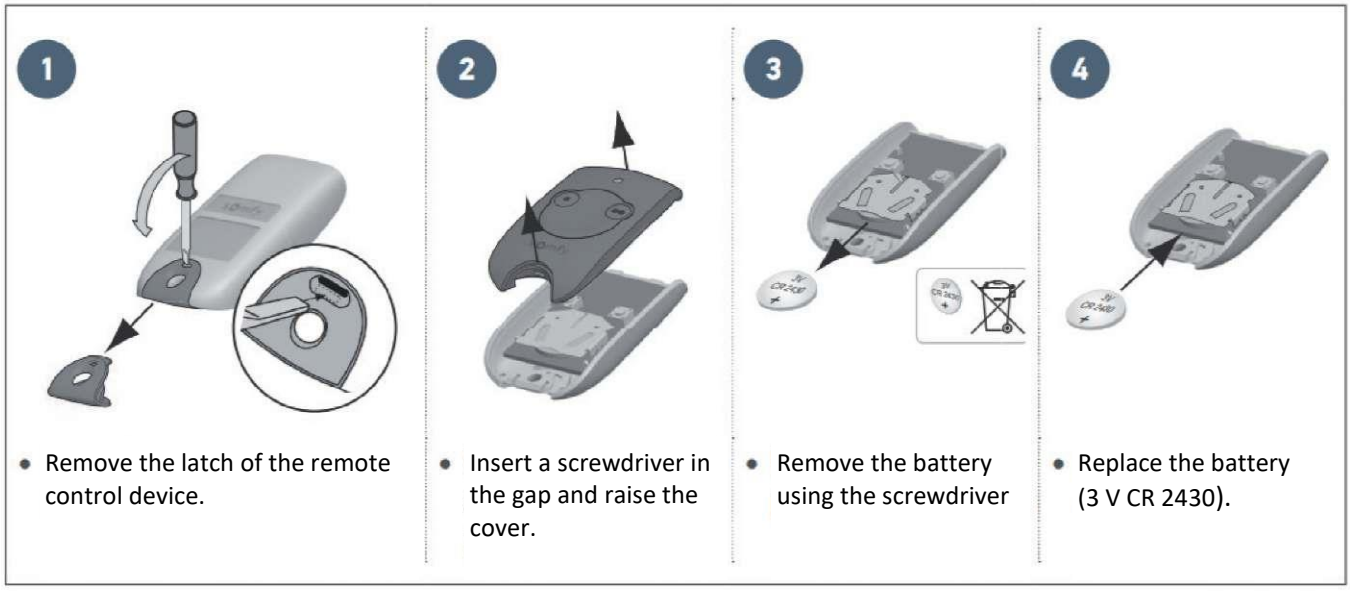
During cleaning, performance of maintenance activities, and replacement of parts, the drive assembly has to be disconnected from the power source.

Technical support

If the defect is still present, if another problem appears, or if you have any questions regarding the driver assembly, visit our website: **www.polargos.pl**

Battery replacement in a remote control device

The battery lifetime is usually 2 years

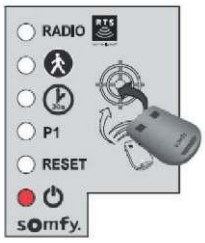


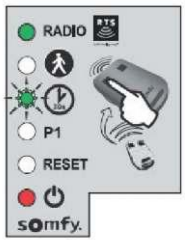
- Remove the latch of the remote control device.
- Insert a screwdriver in the gap and raise the cover.
- Remove the battery using the screwdriver
- Replace the battery (3 V CR 2430).

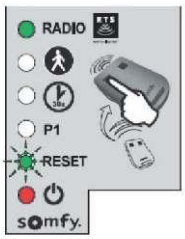
Deleting settings

In what case should the settings be deleted?

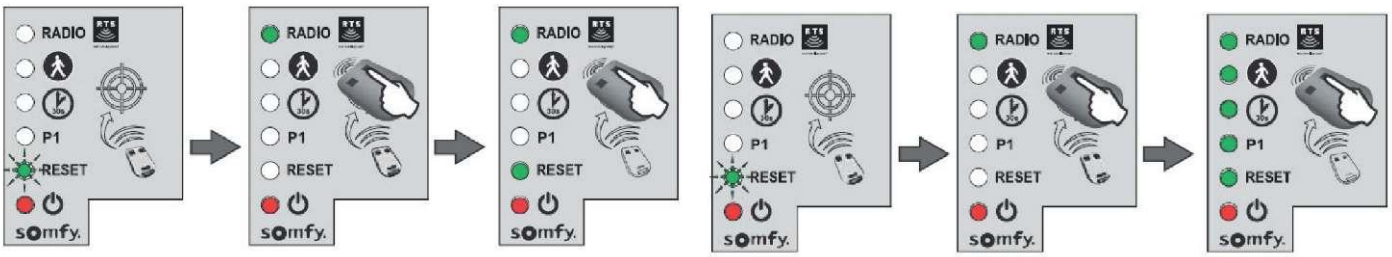
- After learning the gate travel path, when changing the opening limiter location, or when modifying drive cables.
- In the event of repeated accidental opening of the gate as a result of standard use of the gate.



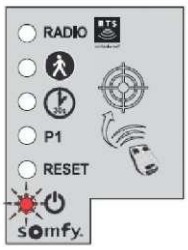




1. Press and hold for 2 s the button of the electronic control system. The status light becomes lit.
2. Put the remote control device on the dial of the electronic control system.
3. Hold the pressed button No. 1 of the remote control device until the status light starts flashing.
4. Push the button No. 1 of the remote control device once. The “RESET” status light flashes.



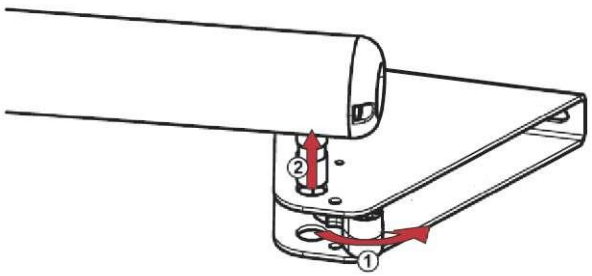
5. **In order to delete the settings***
   Hold the pressed button No. 2 of the remote control device until the “RESET” status light is lit.
6. **In order to delete the settings* of the remote control devices/control points stored in the memory**
   Hold the pressed button No. 2 of the remote control device until all the status lights are lit.



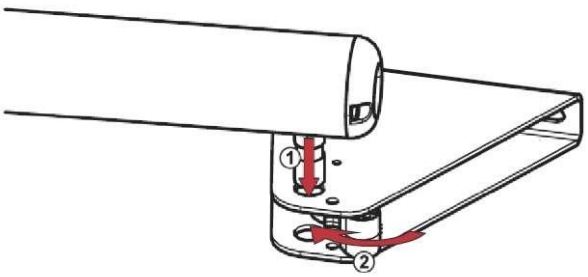
7. The status light flashes twice (see “Automatic learning of the gate travel path”, page 34).

Locking / unlocking of drives

After the drives are unlocked, the gate can be moved manually in the event of an electronic malfunction.



1. Unlocking of drives
Disconnect the unlocking element and then remove the actuator from the bracket fixing the wing.



2. Locking of drives
Install the actuator. Fix the unlocking element to the drive mandrel in order to lock the mandrel.

DIAGNOSTICS		REMOVAL OF MALFUNCTIONS
The drives do not react to the control commands from the remote control device	Limited remote control device range	- Check the remote control device battery (see "Replacement of the remote control device battery"). - Check the antenna of the control module (cables, location, see page 30). - Make sure that there are no external element causing interference in the flow of radio waves (electric pole, reinforced wall, etc.). In such case it is necessary to envisage an independent antenna.
	Remote control device that is not stored in the memory	Store in the remote control device memory (see page 40).
	Drive are not connected properly	Check the drive cables (see pages 14, 31-32).
The ⏻ status light of the control module is off	Electronic control system in standby mode	Press the ⏻ for 2 seconds in order to wake the electronic control system.
	The electronic control system is not powered	- Check the mains power supply. - Check the power supply cable.
The ⏻ status light of the control module is flashing:		
1 flash	Functioning with power supply from the spare battery	Check the mains power supply.
2 flashes	The drive is in standby mode, awaiting for beginning of the automatic learning	Launch the automatic learning of the gate travel path (see page 34).
3 flashes	Damaged photocells	- Make sure there is no obstacles between photocells. - Check the photocell settings. - Check the photocell cables (see pages 14, 42-43). - If the photocells have been disconnected on purpose, perform the "Deactivation of automatic closing" procedure, page 39.
4 flashes	The "START" control of the electronic module is activated all the time (terminals 5-6)	Check the accessories connected to the "START" of the electronic module.
5 flashes	The thermal protection of the electronic system is activated	Wait for the electronic system to cool down, until the moment the ⏻ status light becomes continuously lit again.
6 flashes	Short-circuit in the "BUS" of the electronic module (terminals 3-4)	Check the accessories connected to the "BUS" of the electronic module.
	Short-circuit in the "24 V" of the electronic module (terminals 7-9)	Check the accessories connected to the "24 V" of the electronic module.
	Short-circuit within the "orange light" of the electronic module (terminals 8-9)	Check the cables of the orange light (see page 43).
	Short-circuit within the drive	Check the drive cables (see pages 14, 31-32).
7 flashes	Electronic malfunction	Contact the technical support department of Somfy.
The gate opens again after it finishes closing		Loose the wing brackets and move them slightly towards the centre of the gate.

Smart gate - controlled by means of mobile devices

The most important functions

- Opening of a gate and garage door, turning off the alarm, and turning on the lighting prior to returning home.
- Automatic closing after parking the vehicle.
- Opening and closing of all the devices owned with a single touch.

The Connexoon Access RTS application is compatible with the following devices:


RTS gate


RTS garage door


RTS connected lock


RTS Alarm


RTS Lighting


RTS Sockets

Philips Hue lamp

Elements of the set


Easy Way Pack 201i Automatics


Remote control device - 2 channels


Photocells

The Connexoon RTS control device

1. Install the gate with Easy Way Pack 201i automatics

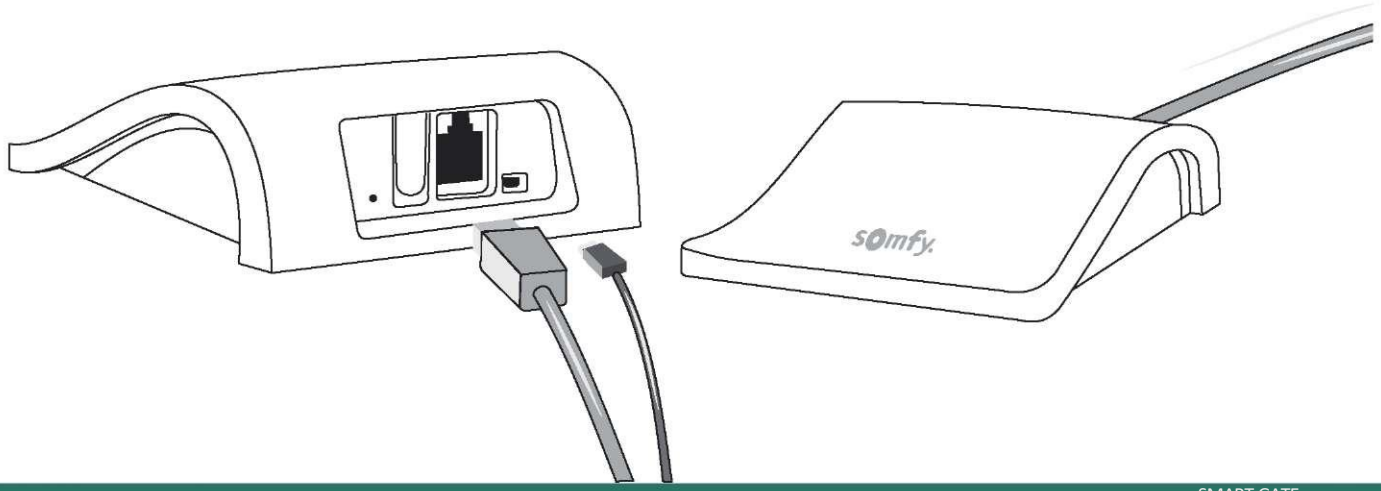
Perform the steps on pages 6-42. Remember to connect the photocells included in the smart gate set.

Before installing the Intelligate smart gate check whether the remote control devices are programmed correctly - see pages: 40-41. Also check whether the Easy Way 201i gate learned the gate travel path correctly - see pages: 34-35.

Prior to the installation, familiarise yourself with the Safety Manual included in the INTELLIGATE automatic gate set.

INTELLIGATE

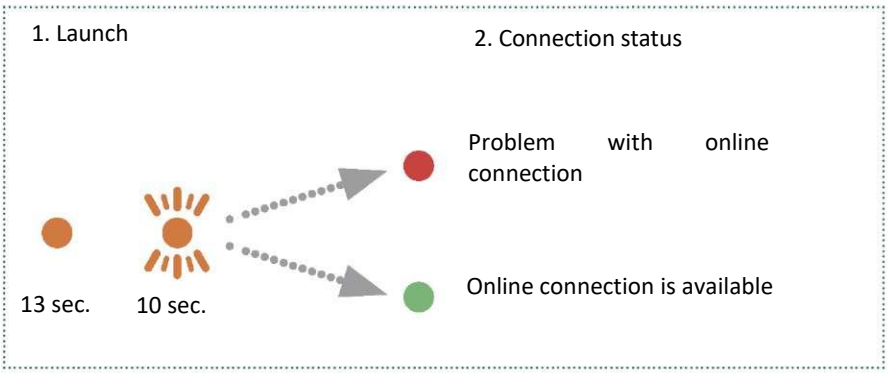
2. Connect the control device to the power supply and the Internet at home.



1. Connect with the somfy-connect.com website.

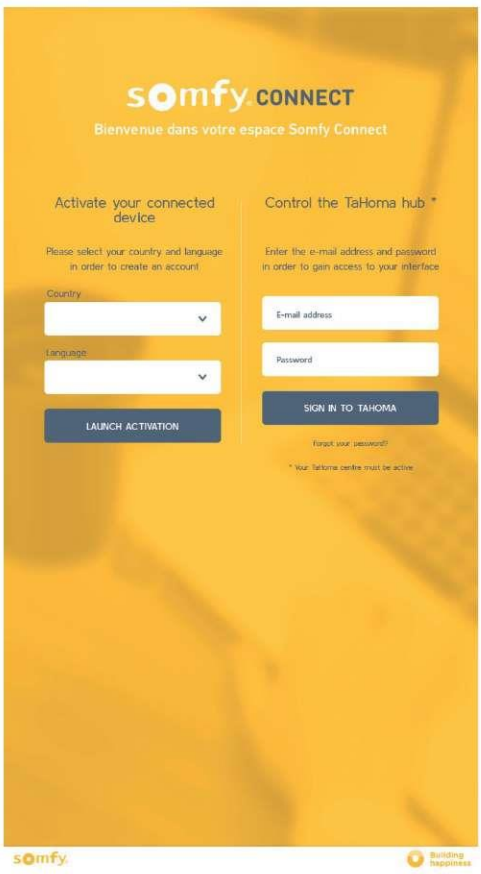
Check whether the Connexoon unit and the online access providing device are connected properly using an Ethernet cable (green LED status light).

The LED status light indicates the unit status and the operations carried out.



Stage 1

Select your country and language in the “activate the controller” field.



Stage 2

Press the Connexoon item.

Stage 3

Enter the PIN code of your Connexoon controller. The individual code is located on the bottom of the controlling device.

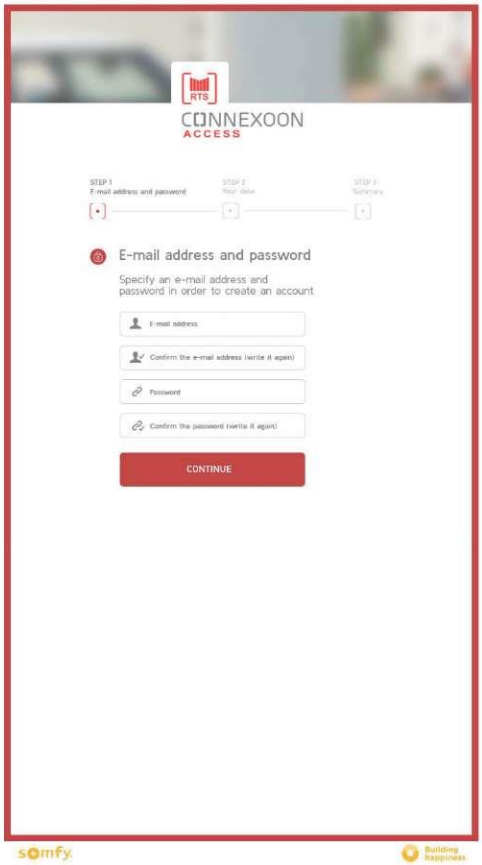
Stage 4

If the selection window appears, choose the Connexoon Access RTS

Stages of activation of Connexoon Access RTS

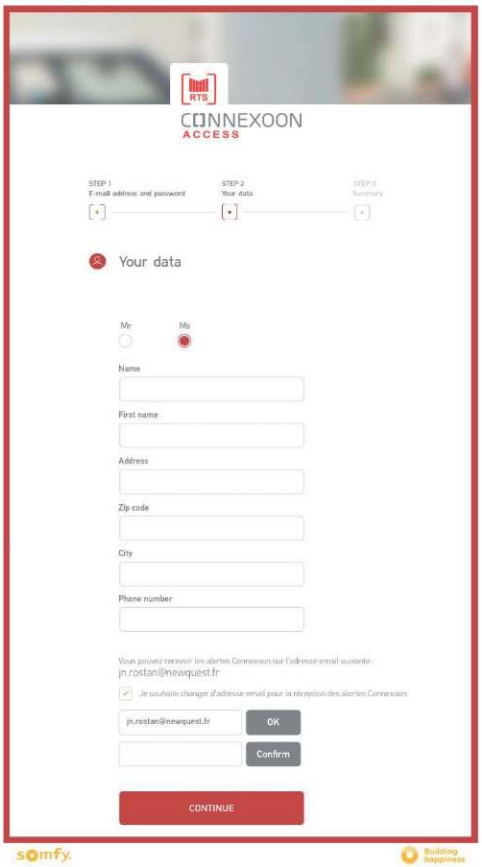
Stage 5

Create your login and password.



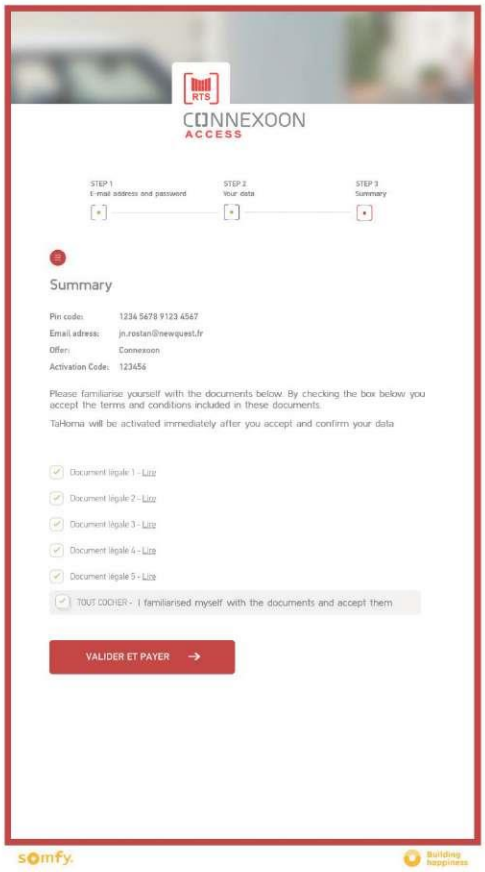
Stage 6

Enter your personal data.



Stage 7

Check the information.



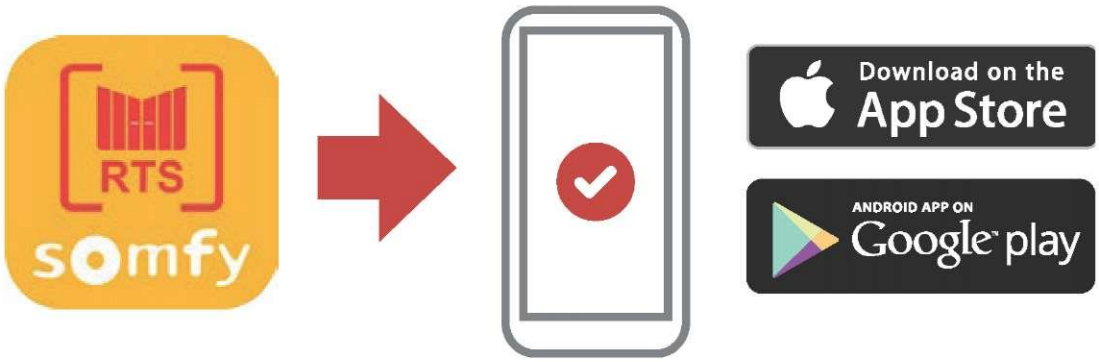
Stage 8

Confirm.

Activation of the Connexoon controller - reception of the confirmation e-mail

Stage 9

You will receive a confirmation e-mail.



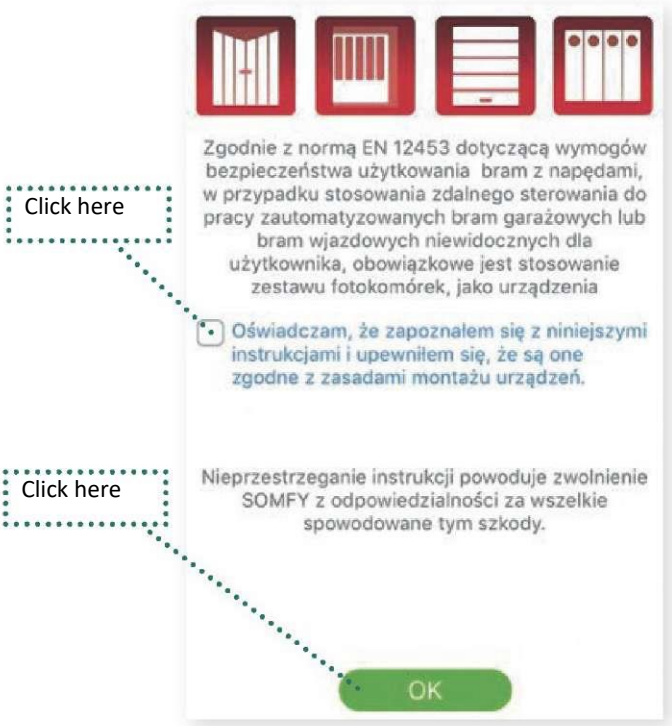
Download the Connexoon Access RTS application available for iOS and Android operating system to your mobile phone

Enter the e-mail address and password that you specified during activation of the Connexoon controller **(see page 53, Activation screen).**

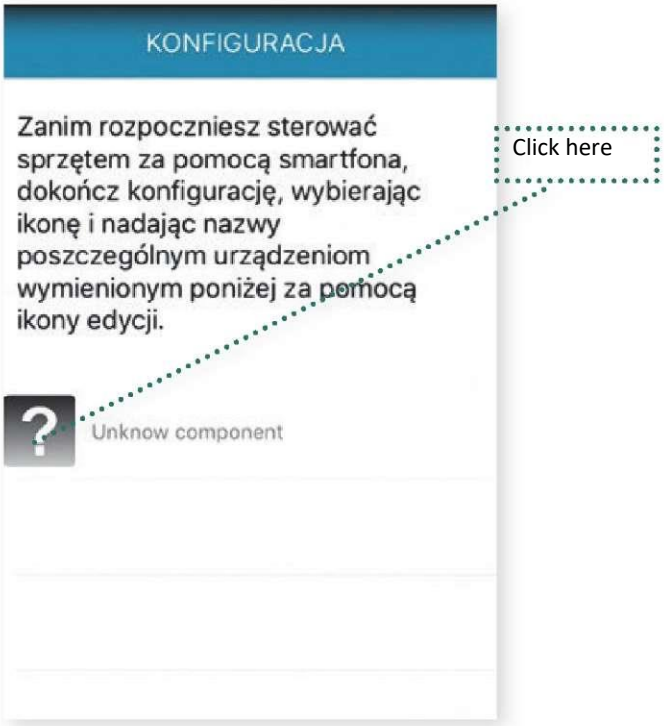
Specify your identifier. The identifier enables checking which activities have been performed using the mobile phone. You can change the identifier at any time in the “parameters” page of the menu ☰, available in the history.

After downloading the Connexoon Access application to your mobile phone, accept the declarations in line with the guidelines below:

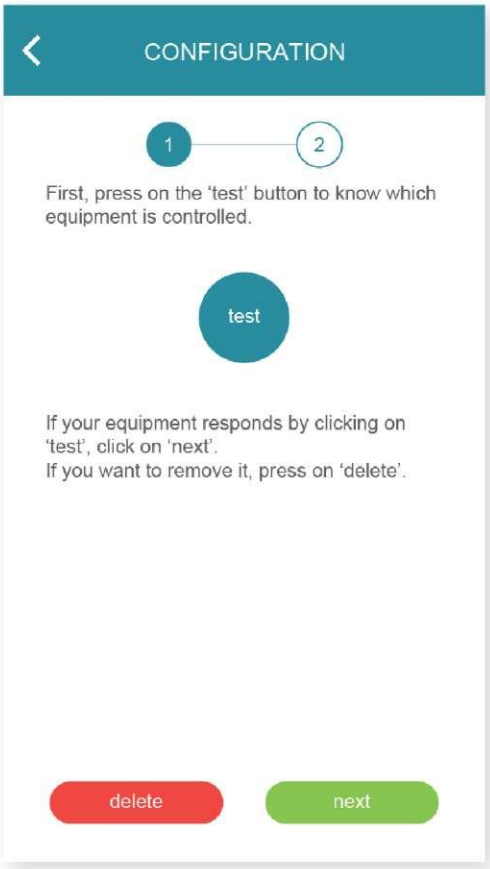
1. Accept the statement



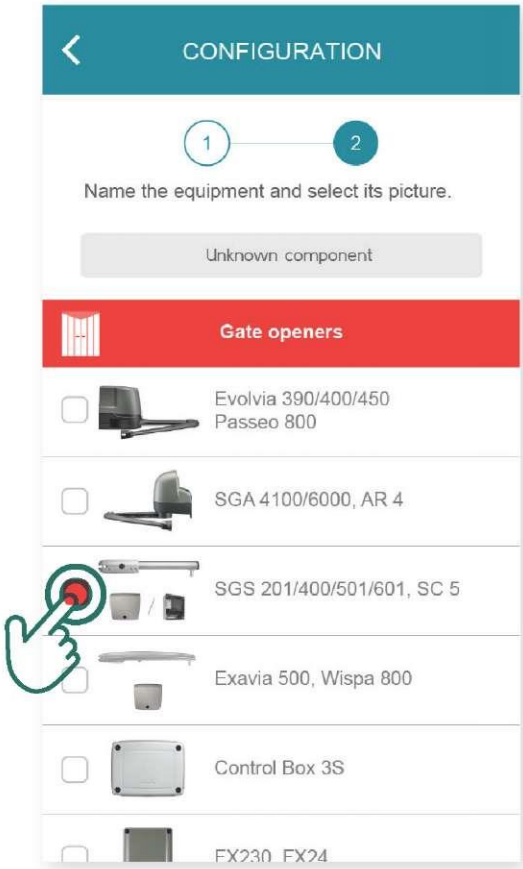
2. Click the question mark



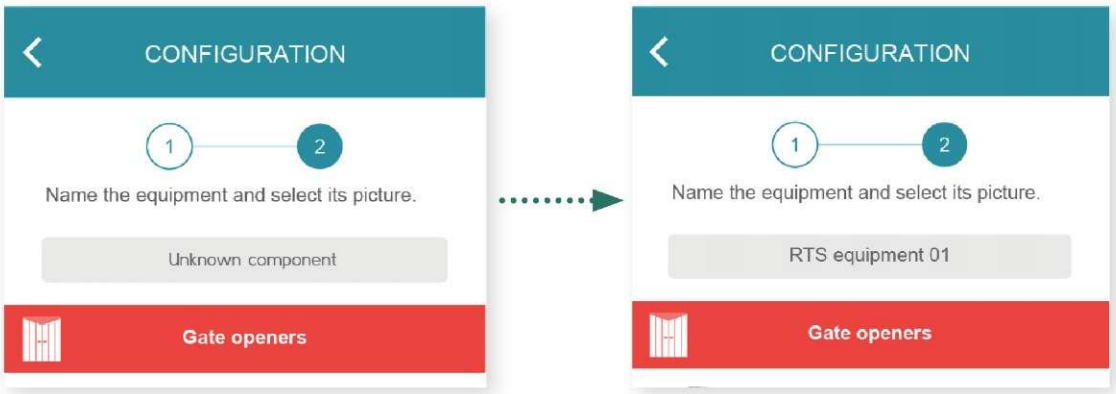
3. Press the TEST button in order to check the correctness of connection between the device and the gate. Then click on NEXT.



4. Mark SGS 201/400/501/601 S.C. 5 with a dot.



5. Change the name form “Unknown component” to your own, e.g. Intelligate

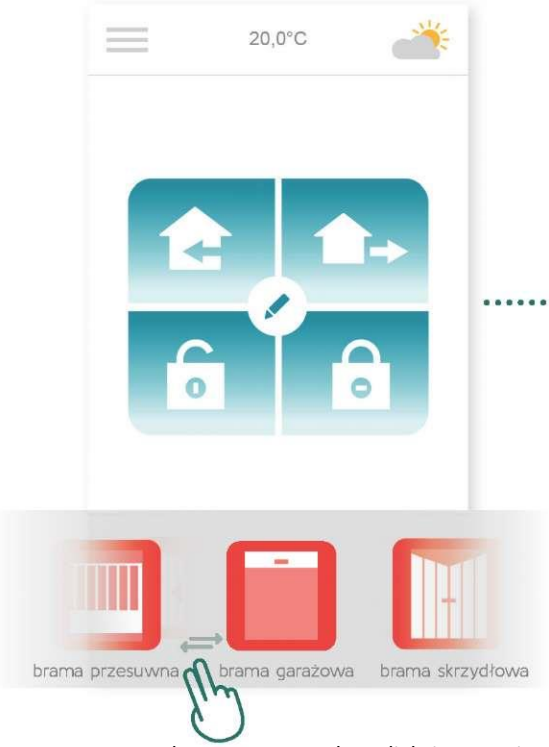


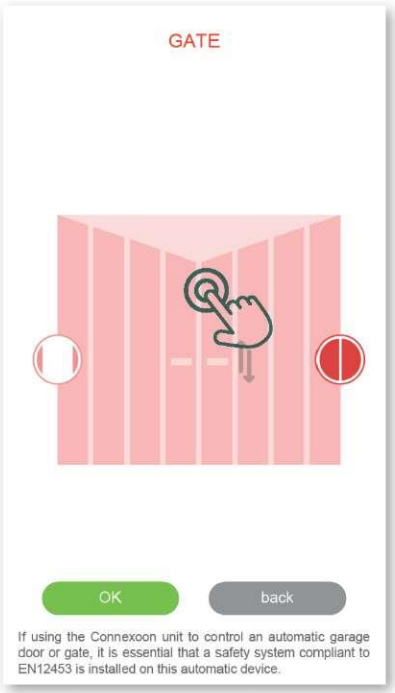
6. Click on SAVE.

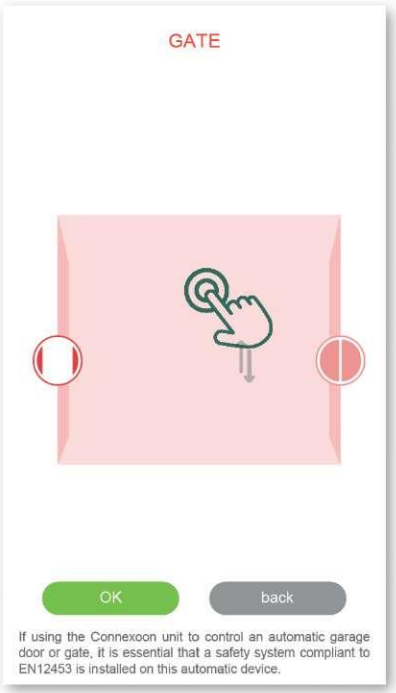
Operation of the CONNEXOON ACCESS RTS control device

1. Interface

2. Control over devices







You can control a gate, garage door, lighting, etc. in the grey frame located at the bottom of the interface. Press the icon of the device that you want to control by moving the list to the right or to the left (example: garage door).

Click the icon and select the gate position: open/close, and then press OK

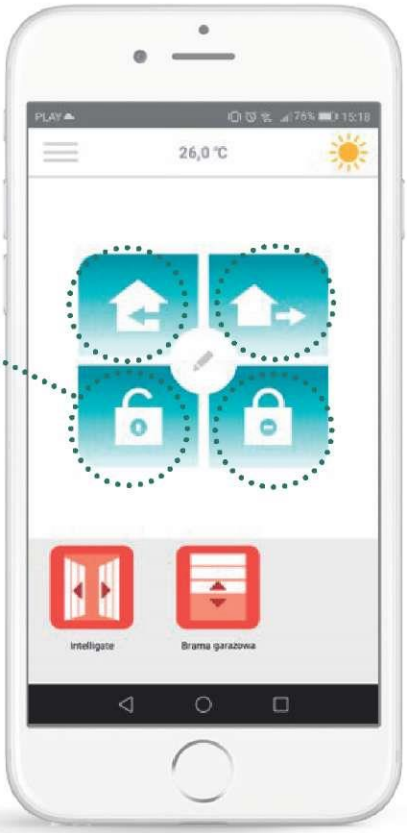
3. Modes

Connexoon Access RTS offers 4 modes:
“Returning”, “Leaving”,
“Open all”, “Close all”.

Every mode can be adjusted to one’s own needs by selecting the actions to be performed: gate closing or opening, turning lighting on or off, and opening or closing of the garage door.

Then the modes can be called using a single button press!

E.g. When I come back, after a single press of the button the gate opens, the external lighting turns on, and the garage door opens.

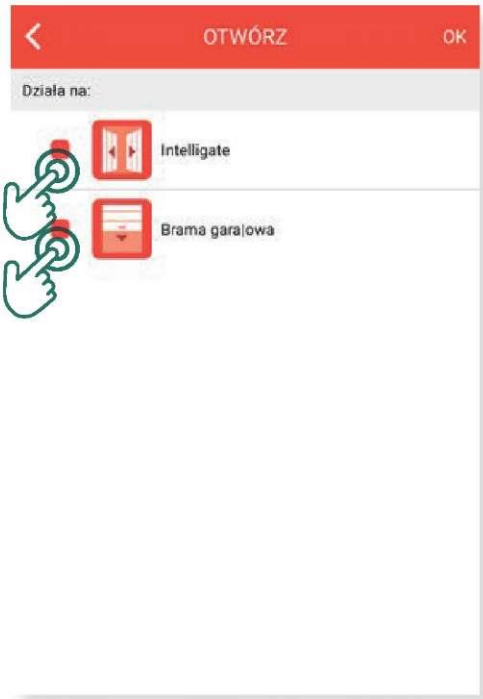


Open all/Close all

When returning or leaving, one can open or close the gate and/or the garage door and turn the external lighting on or off using a single button press.

In order to adjust then “open all/close all” mode to your own need, press the button

Next, press the symbol of the , icon in order to adjust the “open all” mode to your needs or the symbol of the icon in order to adjust the “close all” mode to your needs.

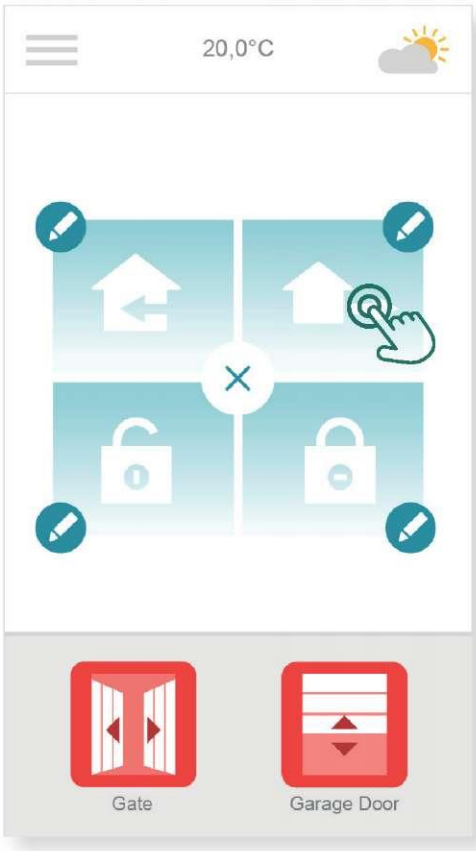


Mark the devices for which actions should be performed, and the confirm this by pressing OK.

Leaving

When leaving home, you can open the gate with one press of a button, and it will close automatically after a time that you specified.

In order to adjust then “Leaving” mode to your own need, press the symbol of the icon.



Mark the devices for which actions should be performed when leaving.

Specify the time through which you want activities for the devices to be performed.

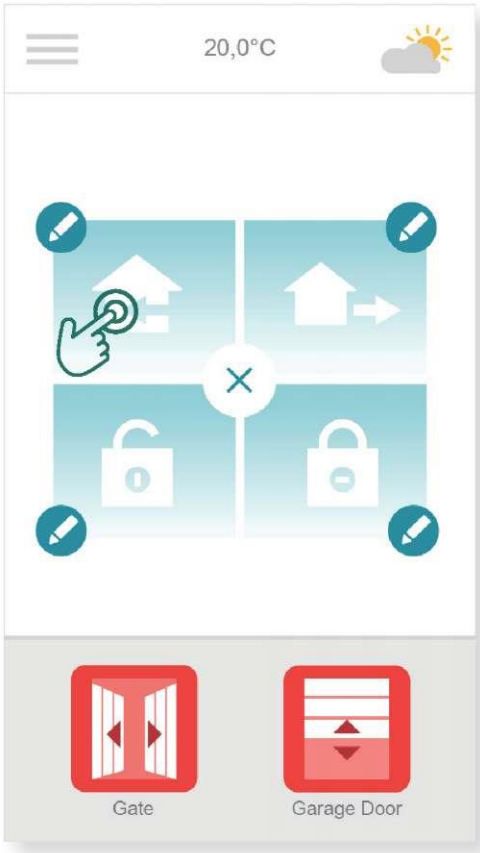
Mark the devices for which actions should be performed a few minutes after leaving.

Returning

Thanks to geolocation, your home welcomes you when you come back.
Specify at what distance from home the automatic devices specified should be turned on.

E.g. I activate the “Returning” mode after work when leaving my office. Geolocation is active and my home welcomes me in the manner that I specified.

In order to adjust then “Returning” mode to your own need, press the symbol of the icon

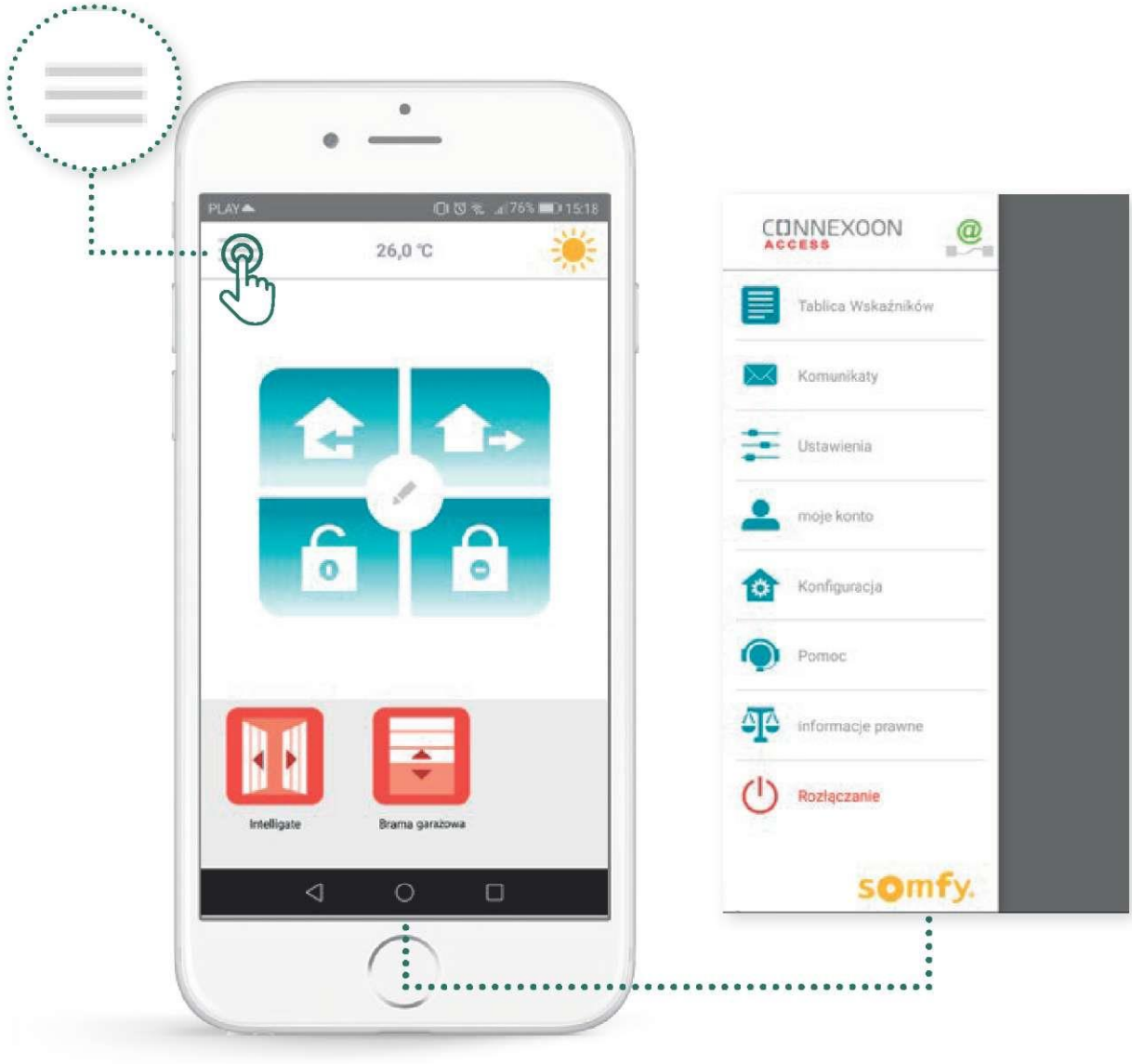


Specify the distance at which you want the “Returning” mode to be activated and turn the geolocation on or off.

Mark the devices for which actions should be performed prior to returning.

Specify the time of returning: the mode activates after the return.

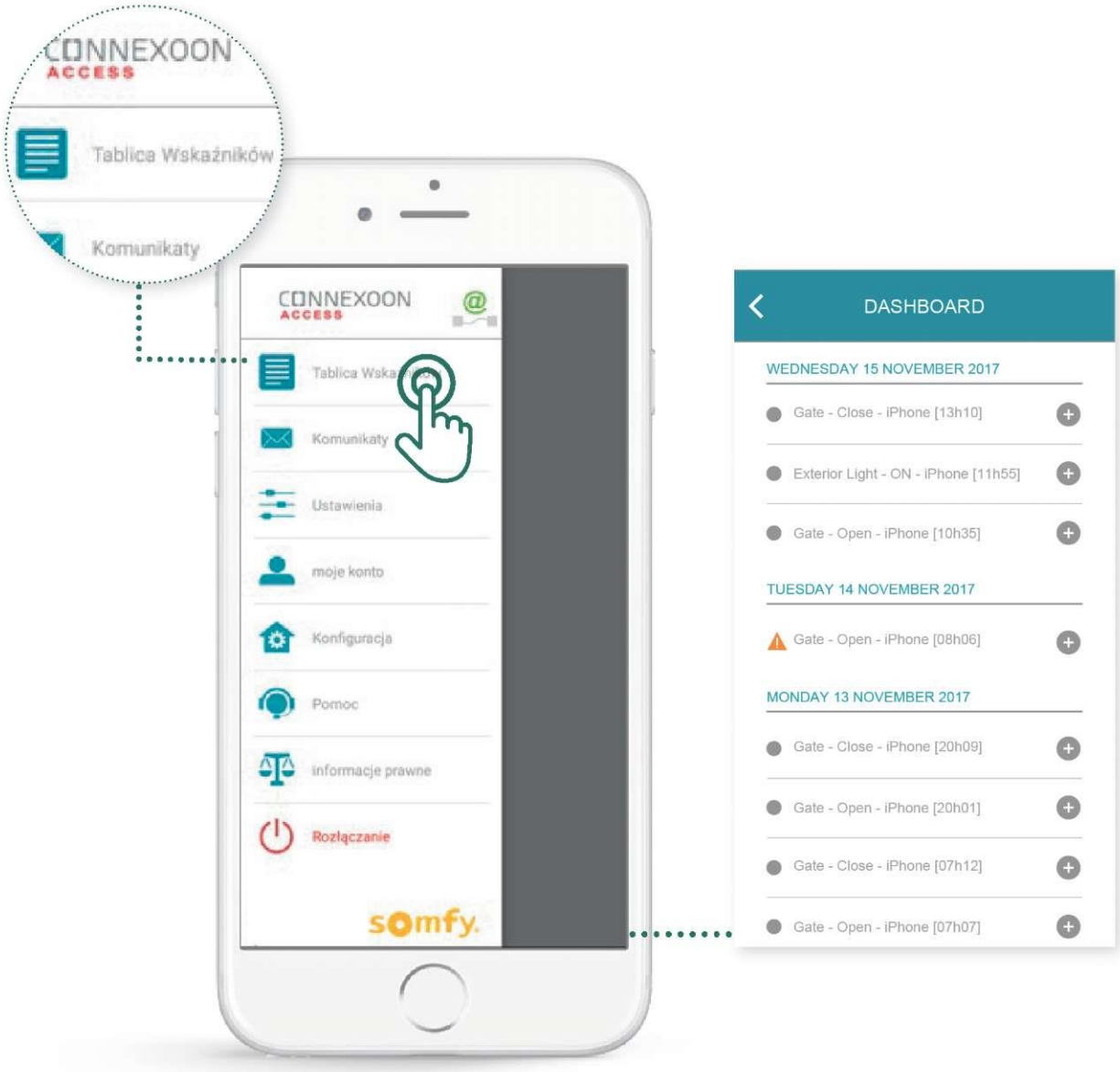
Mark the devices for which actions should be performed after returning.



Pressing the ☰ symbol enables accessing the functions of parameter setting and managing the Connexoon Access RTS application:

- table of indicators,
- messages,
- parameters,
- account,
- help,
- signing out from the application.

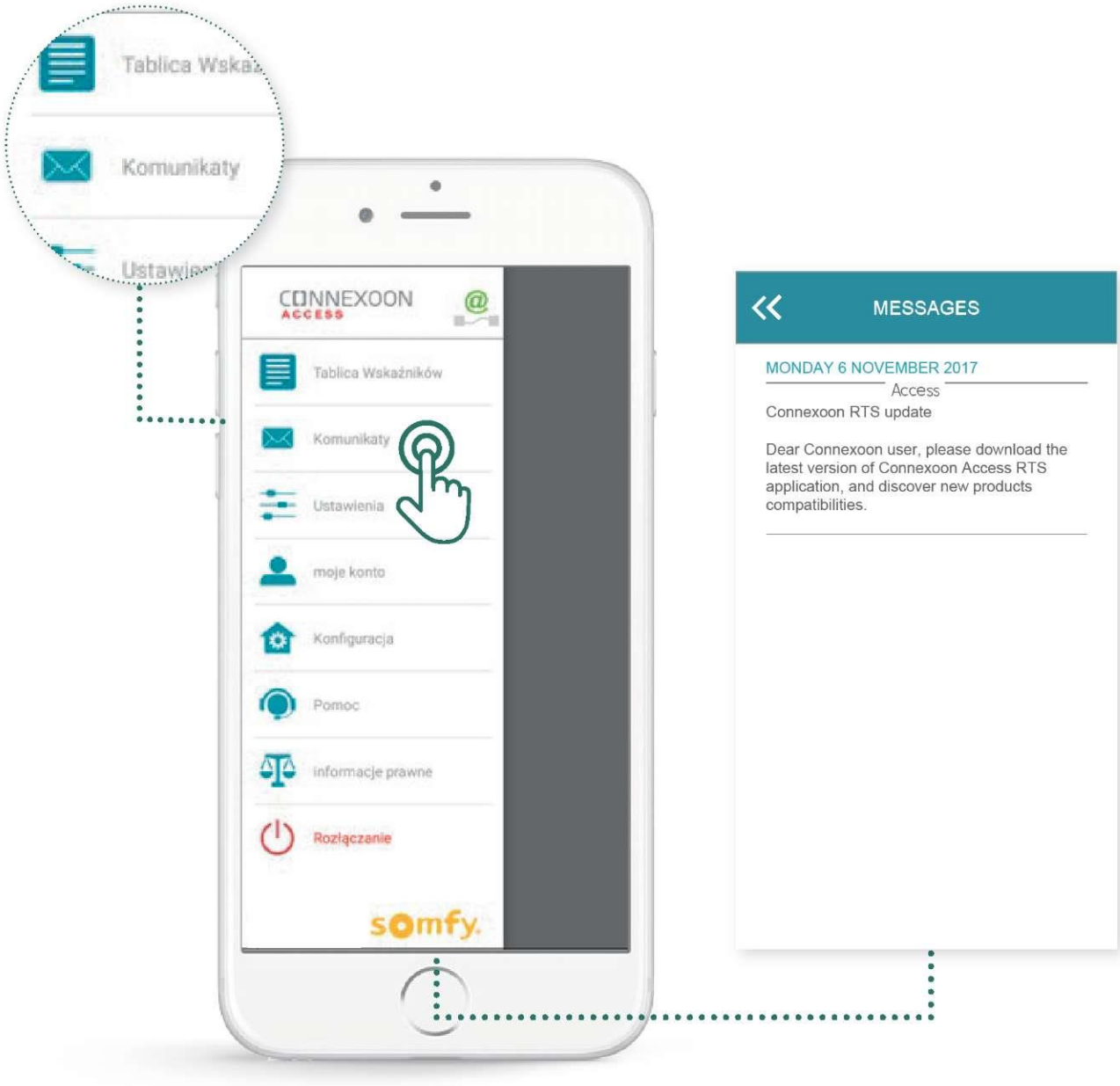
The “configuration” menu enables access to advanced installation functions (see chapter 5).



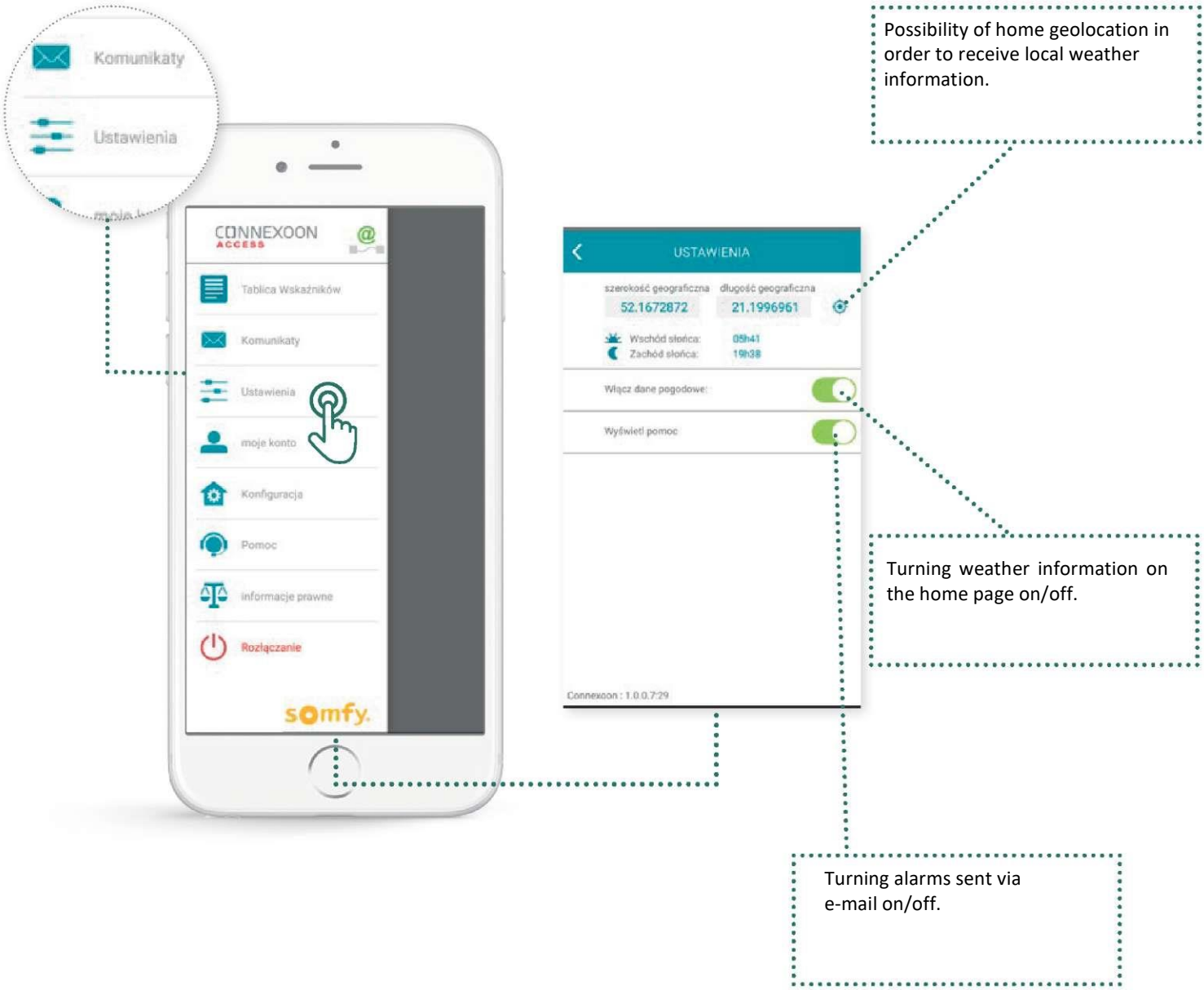
This menu enables visualising the history of all the devices connected, with a single button press.

- A green spot preceding a command means that everything went well.
- A red spot means that the command was interrupted purposefully.
- An orange triangle means that a problem appeared.

In order to obtain more information, press the  icon.

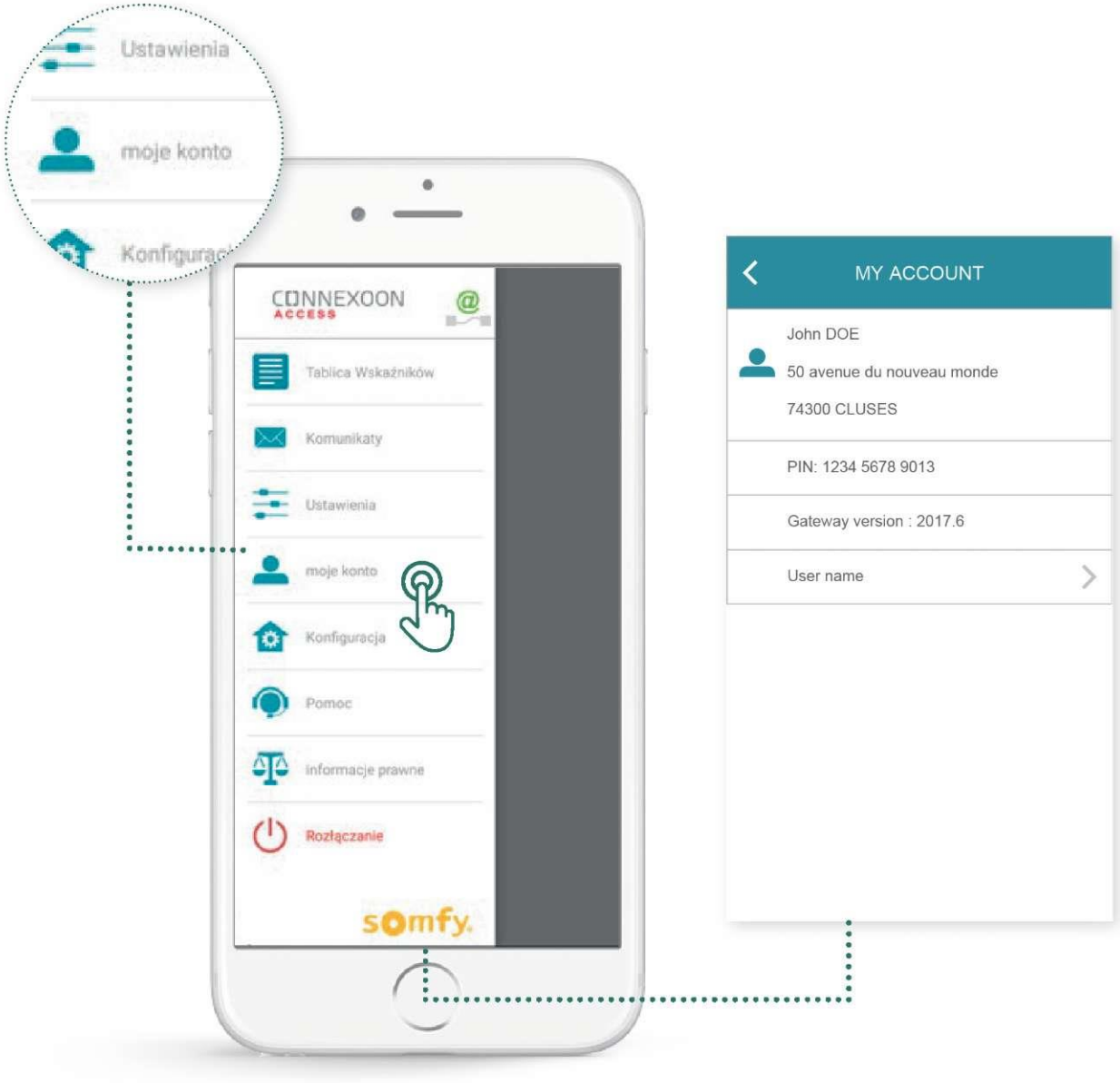


The messages of Connexoon contain all the information regarding updates and future novelties.

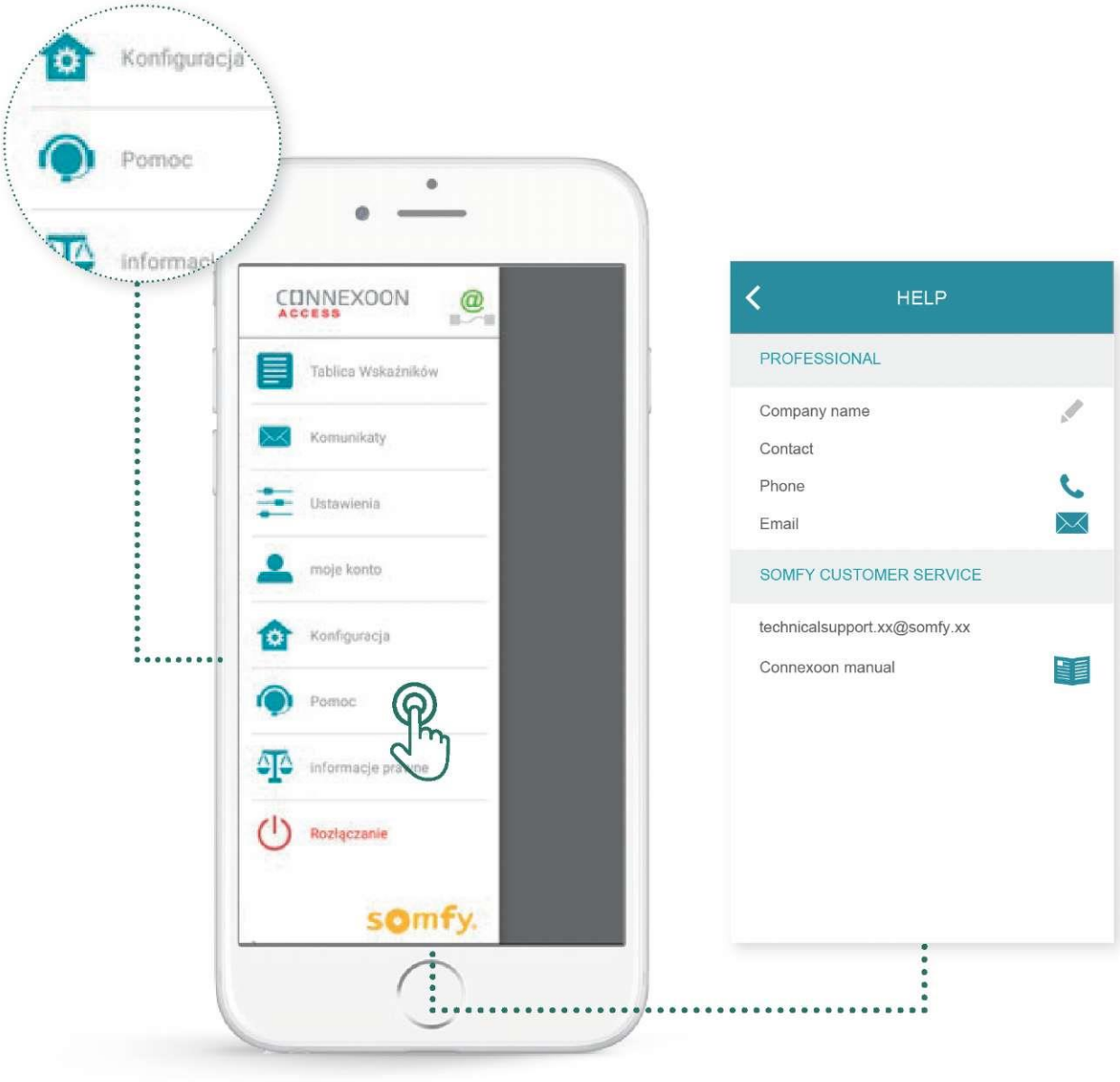


In this menu you can turn on displaying the weather data, as well as activate alarms sent via e-mail and/or “push” notifications. Here you can also display widgets for an Apple watch and/or mobile phone and specify your ID for the purposes of adjusting history to your own needs.

My account



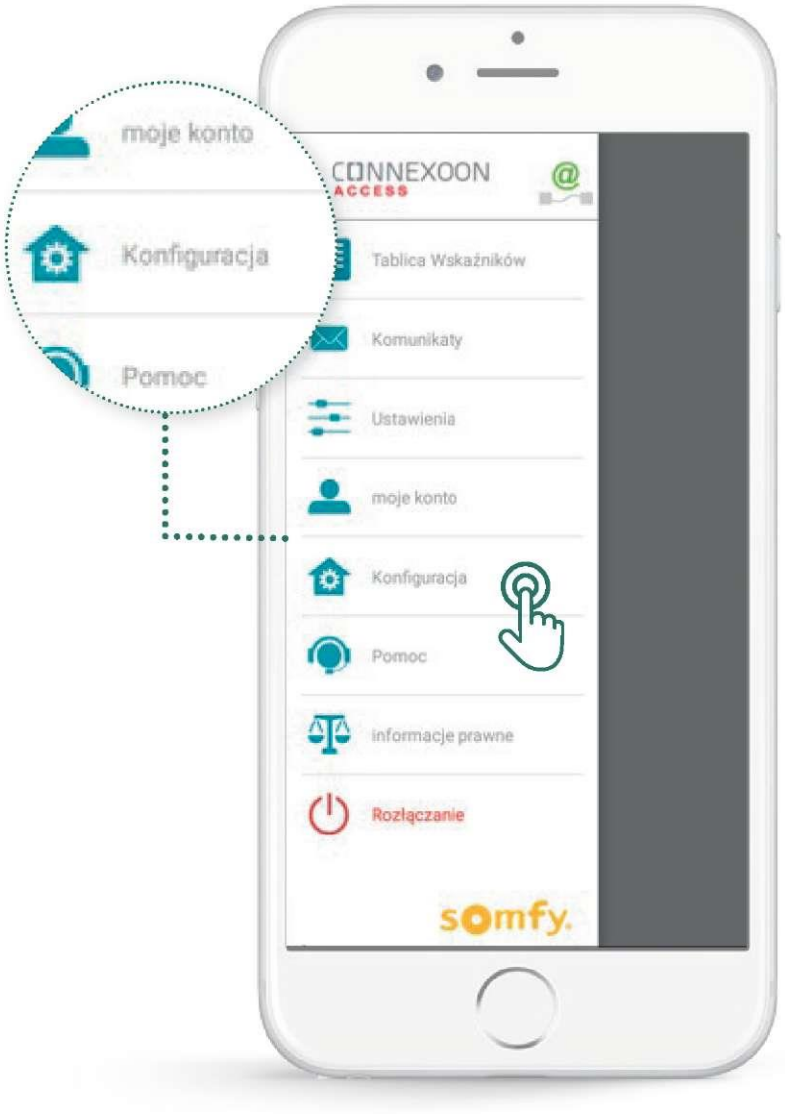
This sheet includes the information provided during the activation of Connexoon.



You can fill in this sheet yourself or have it filled by the fitter in order to enable direct contact with them in case of ha ving any questions.

Remain in contact with the fitter, entering their contact data in the application. Then you can contact them with a single button press.

A single button press is also enough to obtain the telephone number of the Somfy customer service department.

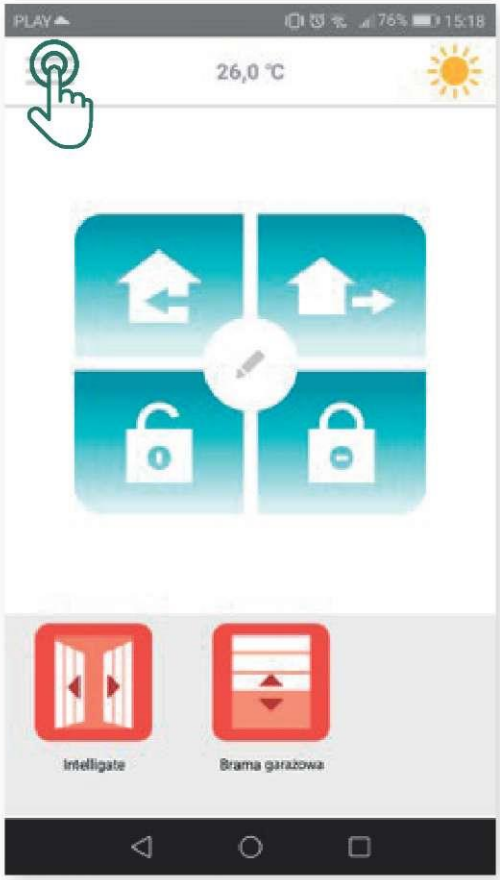


This menu enables:

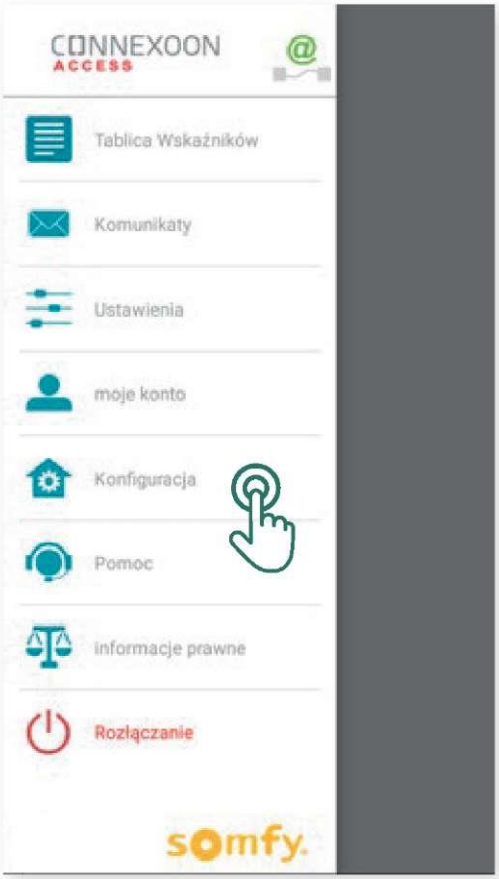
- registering new compatible devices in the Connexoon application,
- deleting/changing device names,
- managing the system security key.

In order to gain access to these functions, press the icon.

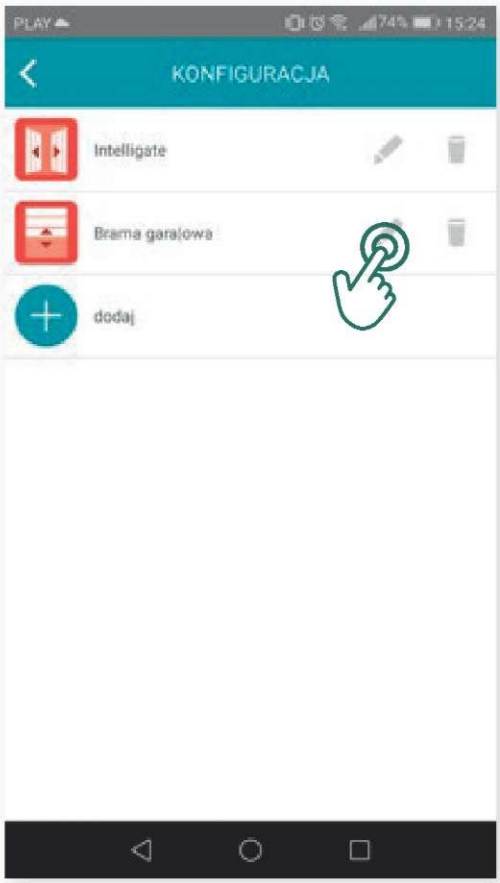
Changing product names in the application



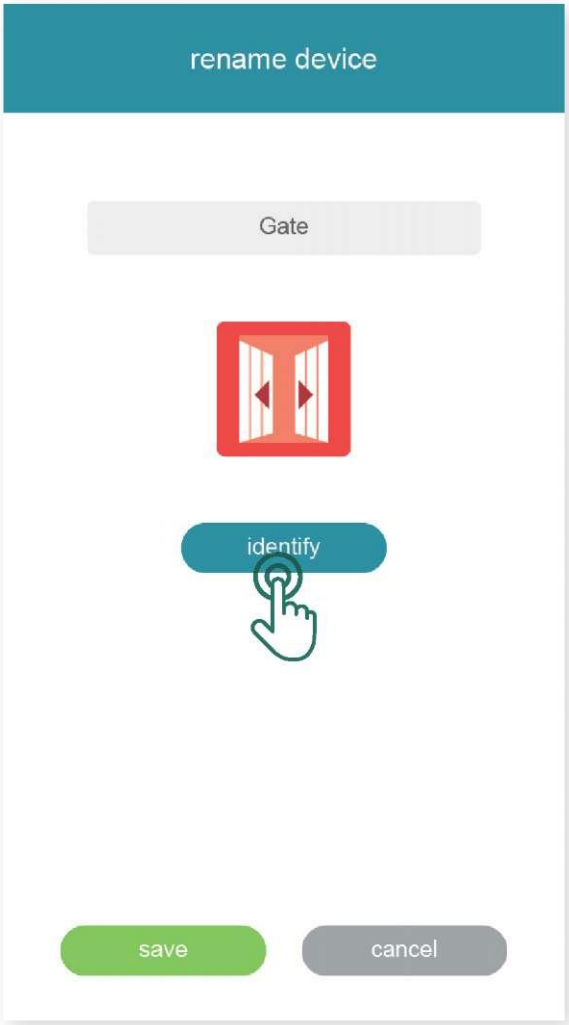
Press the menu icon

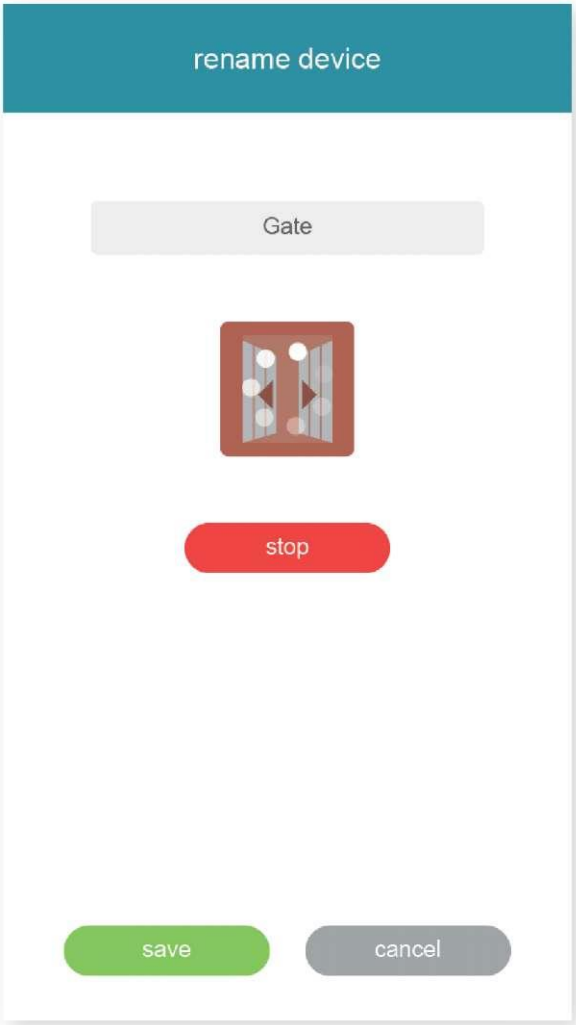


Press the “Configuration” tab button



Press the pencil icon to the right of the device in order to change its name



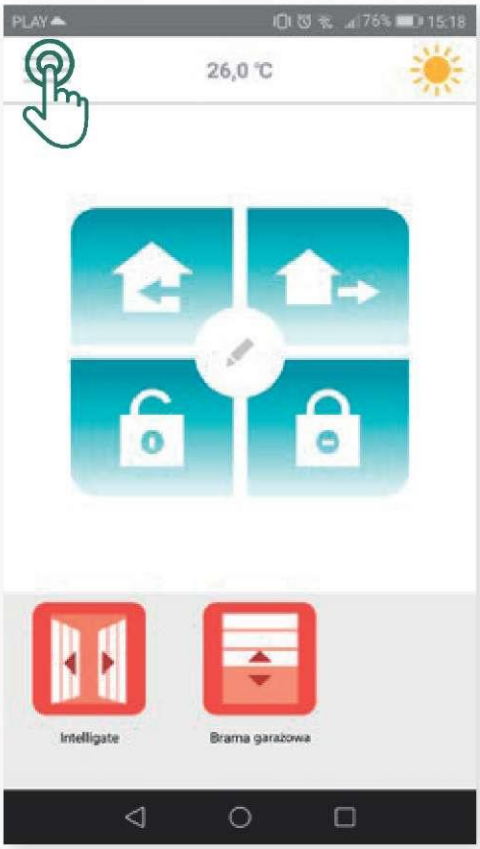


You can change the name of your products by clicking the “name” field in the grey rectangle at the top of the screen.

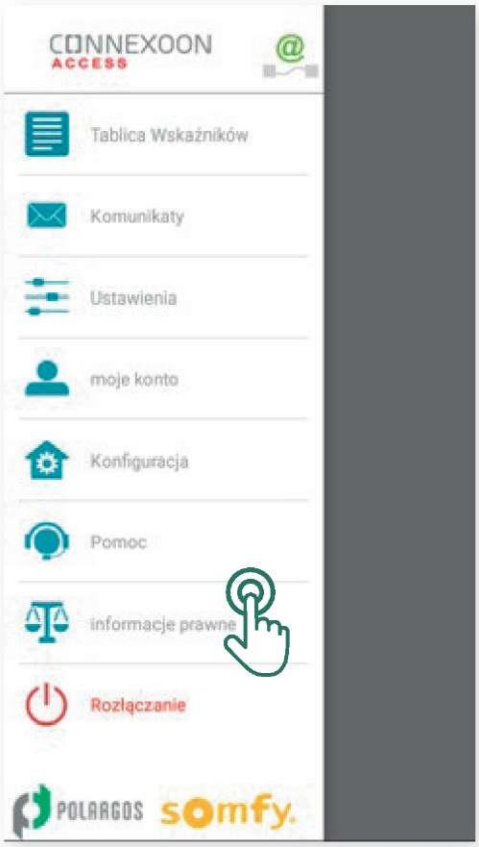
In order to check whether the product is correct, click the “Identify” button.
The device will move in one direction and back, or it will flash.

In order to stop the identification, press the “stop” button.

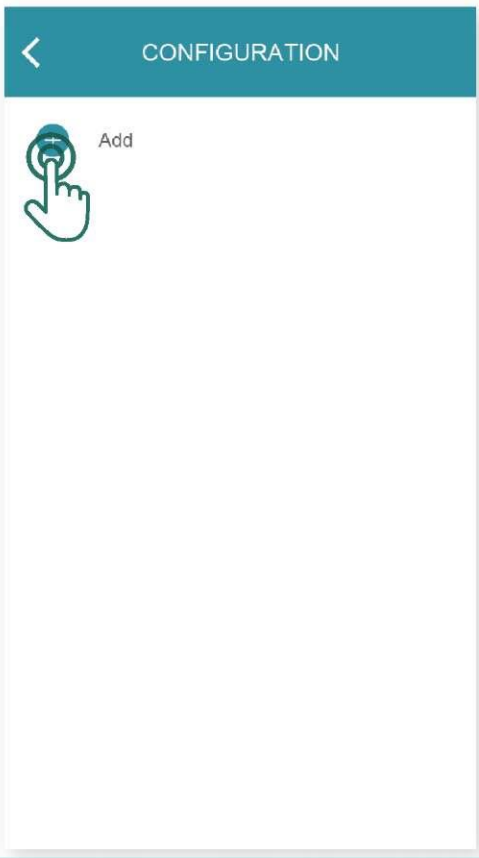
Press the “Save” button in order to save the new name.



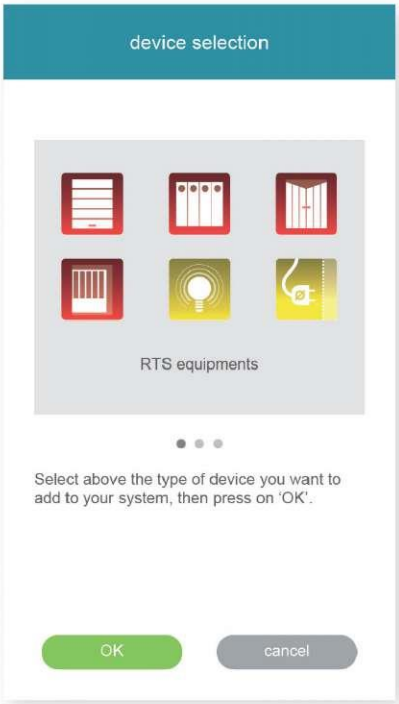
Press the menu icon



Press the “Configuration” tab button

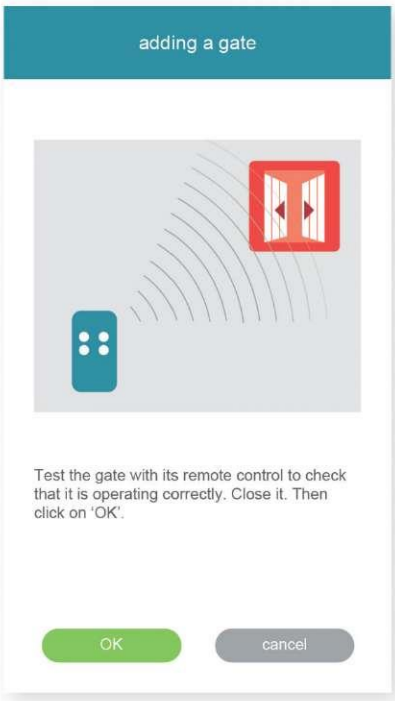


Press the button

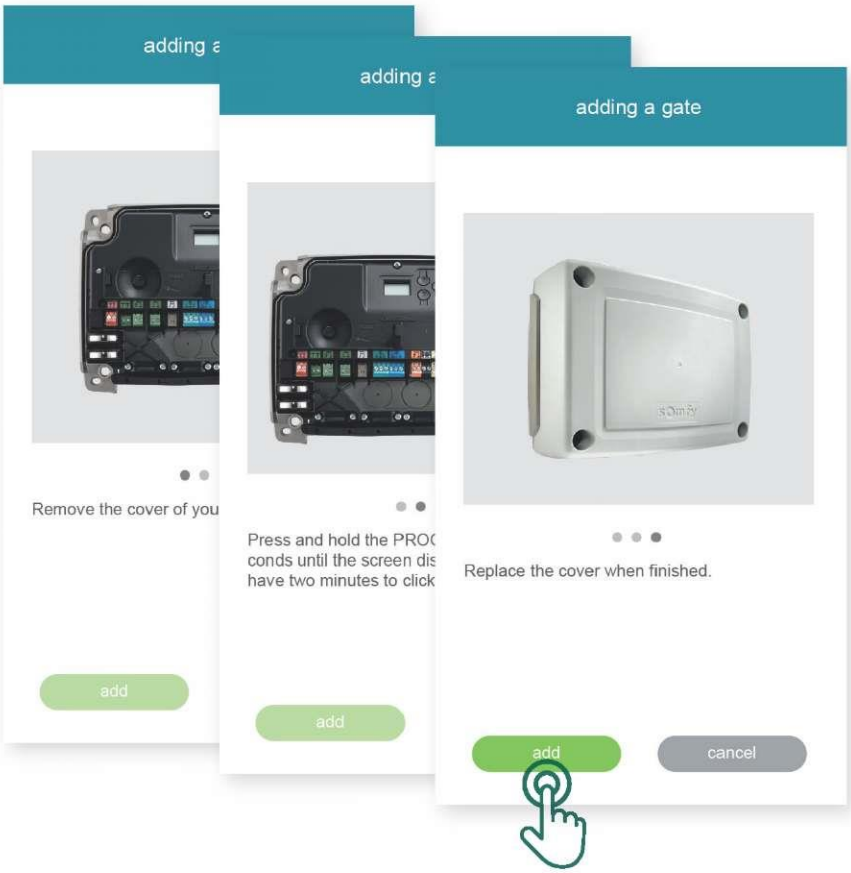


Select the type of product that you want to add to the system: The RTS drives/actuators or Philips Hue lights, and then confirm this by pressing the OK button.

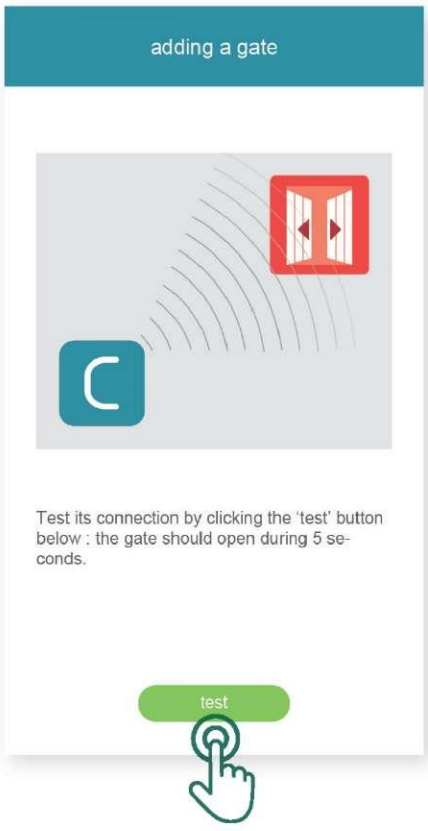
Select the icon representing the product that you want to register in the unit.



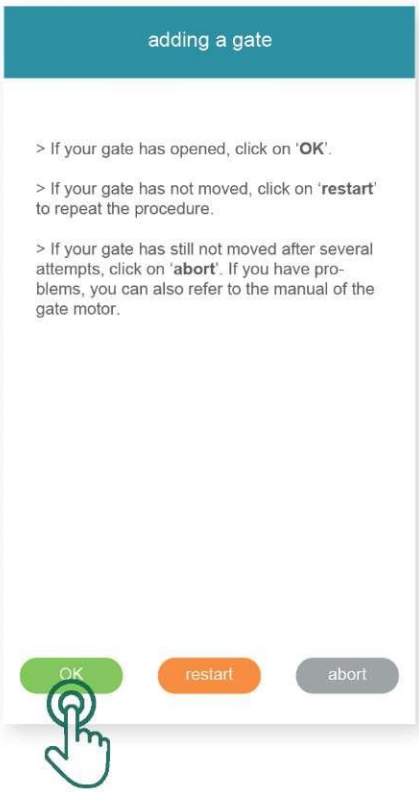
Check the product by moving it using a wall controller or a remote control device. Make sure that the controlling element activates only the added product.



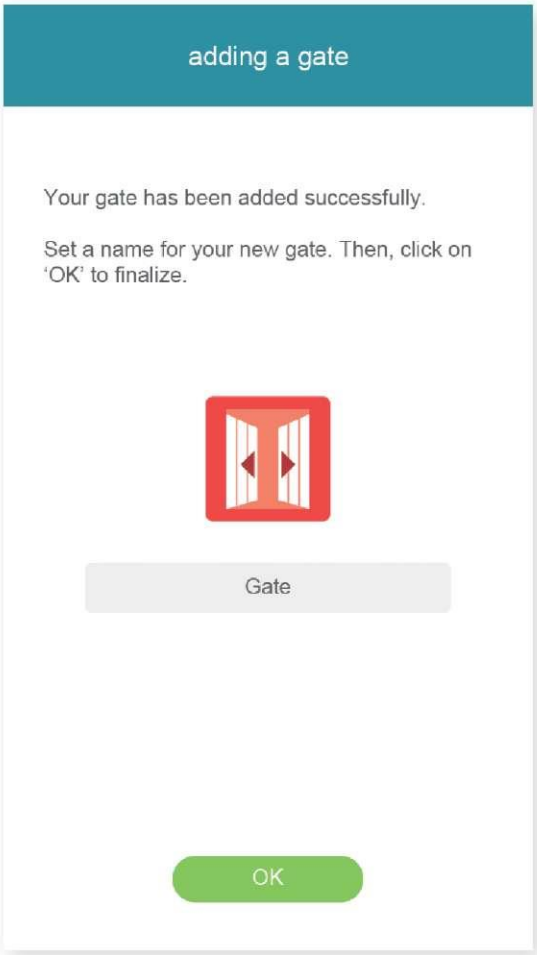
Press the PROG button of the command activating the product added, holding it until the product moves in one direction and back (or flashes). From that moment on, you have 2 seconds to confirm this by pressing the “Add” button.



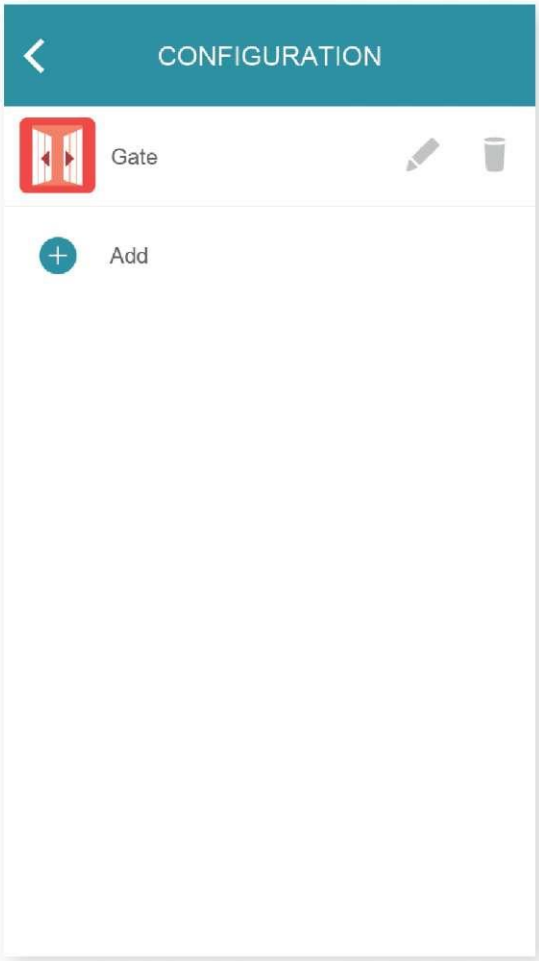
Check whether the product has been registered correctly by pressing the “Test” button. The device will start moving in one direction and back (or it will start flashing) for 5 second.



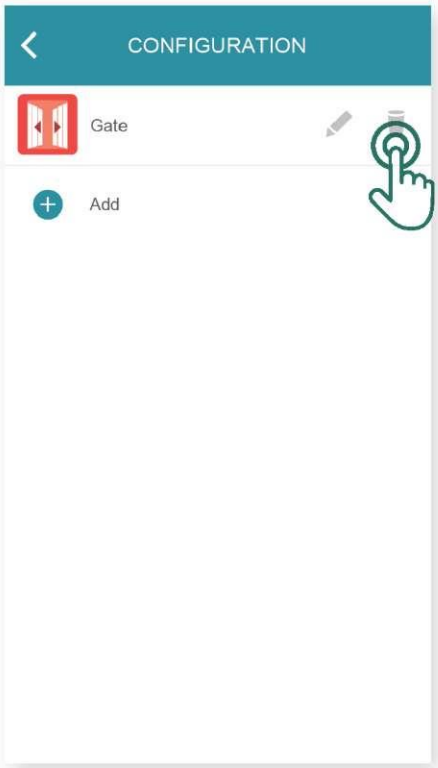
Press the OK button if the product moved or click “Restart” if it did not. If the product does not move after multiple tests, click on “Cancel”.



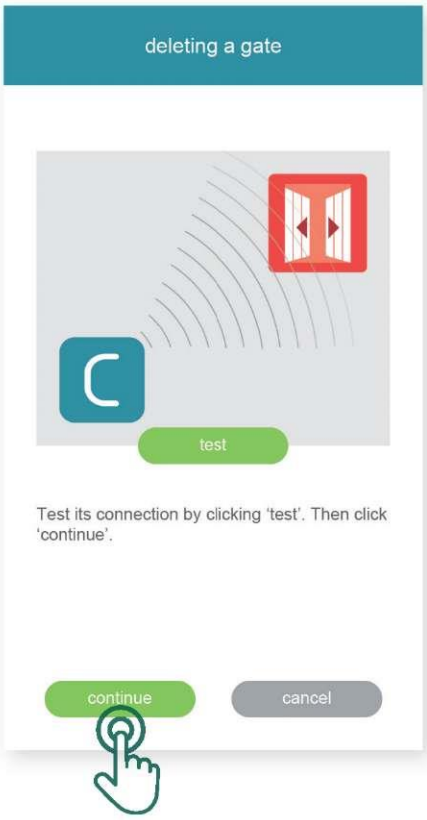
Name the product and then click OK



The product will appear on the list then.



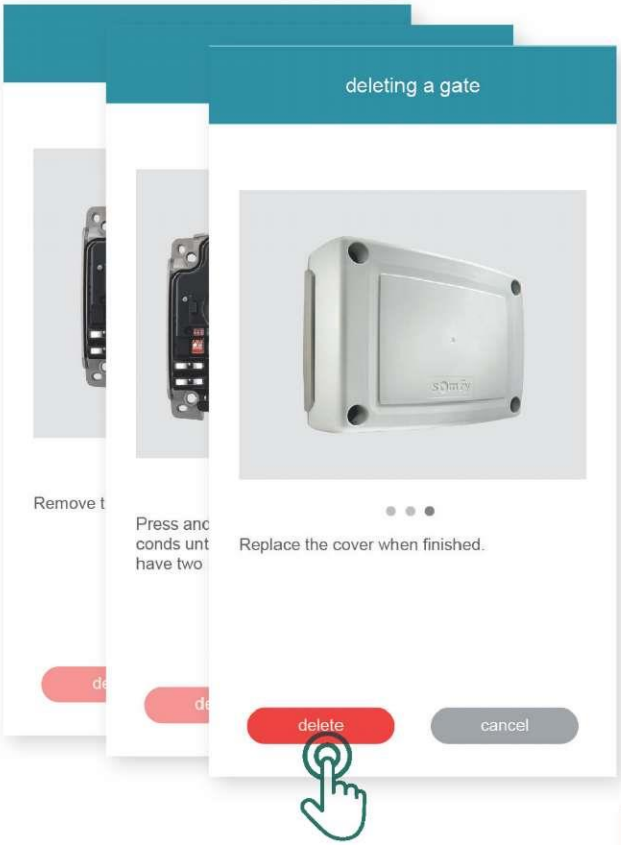
Press the button.



Check the product by controlling it using a wall controller or a remote control device. Make sure that the controlling element activates only the removed product.

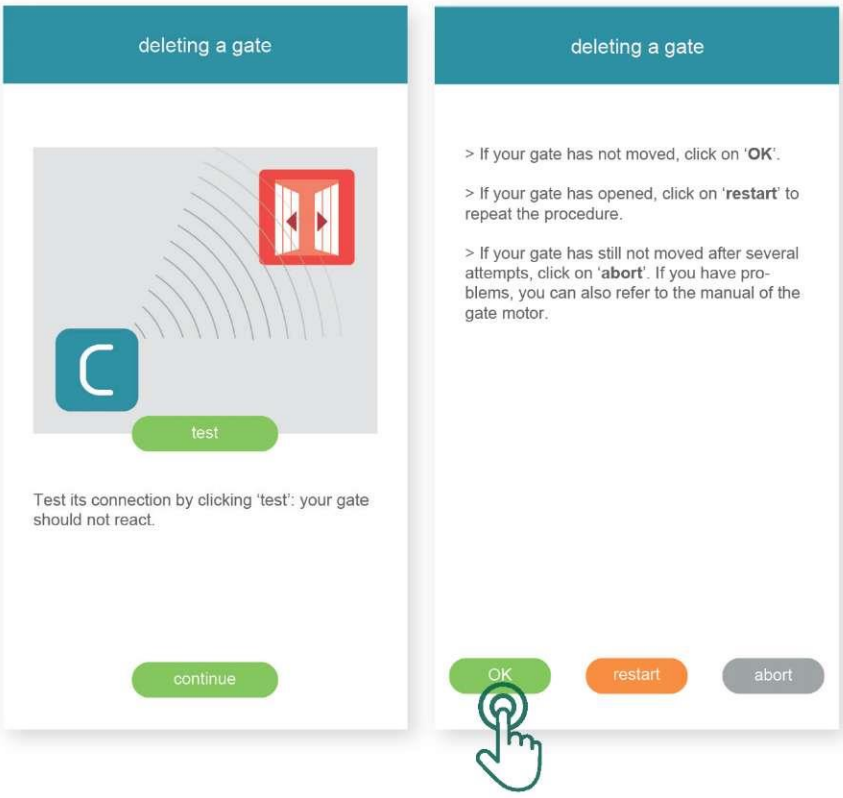
Press the PROG button of the command activating the product removed and hold the button for about 3 seconds until the product moves in one direction and back (or flashes).

From that moment on, you have 2 seconds to confirm this by pressing the “Delete” button.

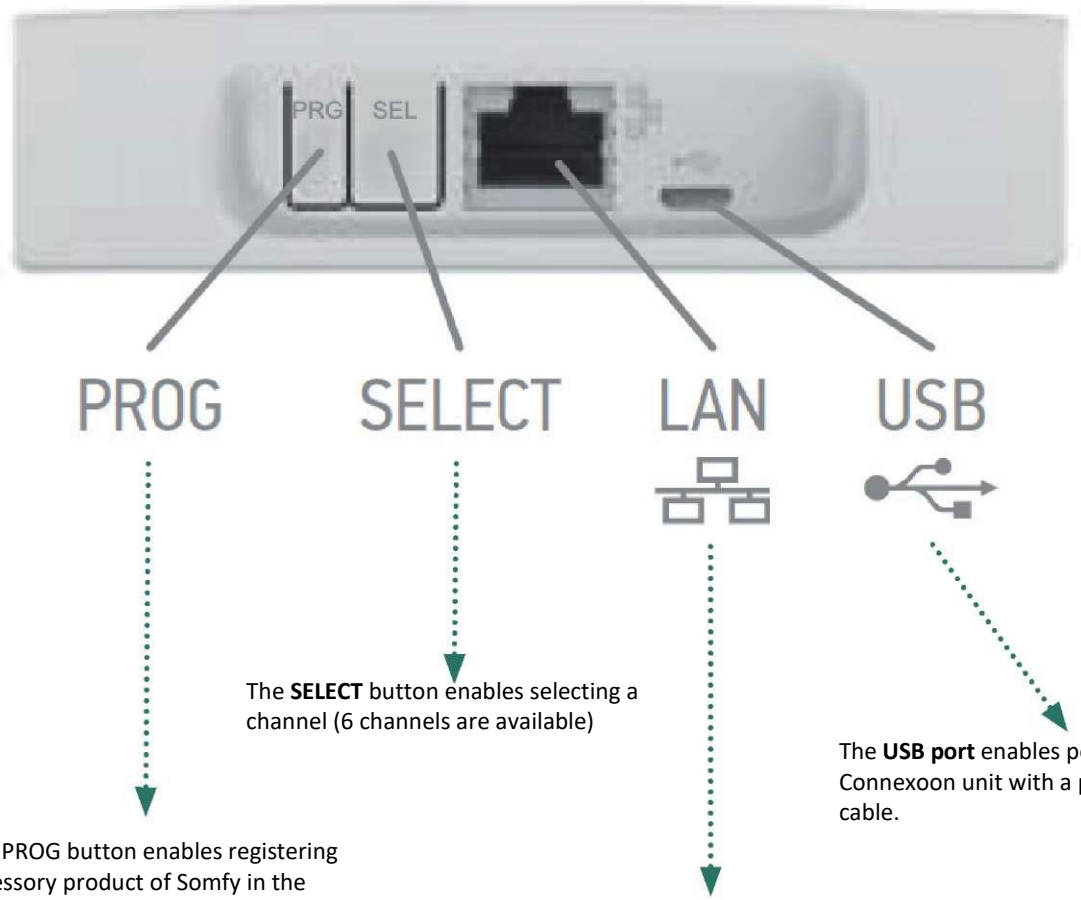


Check whether the product has been removed properly by pressing the “Test” button. If the product has been removed properly, it will not answer.

Press the OK button if the product did not move or click “Restart” if it was closed.



Press OK in order to finish the procedure.



The **SELECT** button enables selecting a channel (6 channels are available)

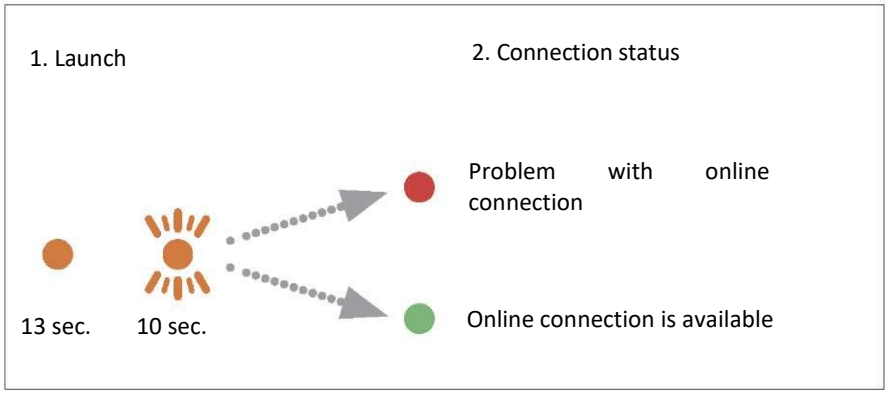
The **USB port** enables powering the Connexoon unit with a power supply cable.

The PROG button enables registering accessory product of Somfy in the Connexoon RTS unit without online connection **(Manual included in the Connexoon box)** of the prog-prog devices (connection enabling communication between the Connexoon controller and the devices).

The **LAN** network socket enables connecting the Connexoon unit directly to the Internet using an Ethernet cable.

The Easy Way 201i drive and the Connexoon controlling device are factory paired – they do not require to be installed.

The LED status light indicates the unit status and the operations carried out.



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