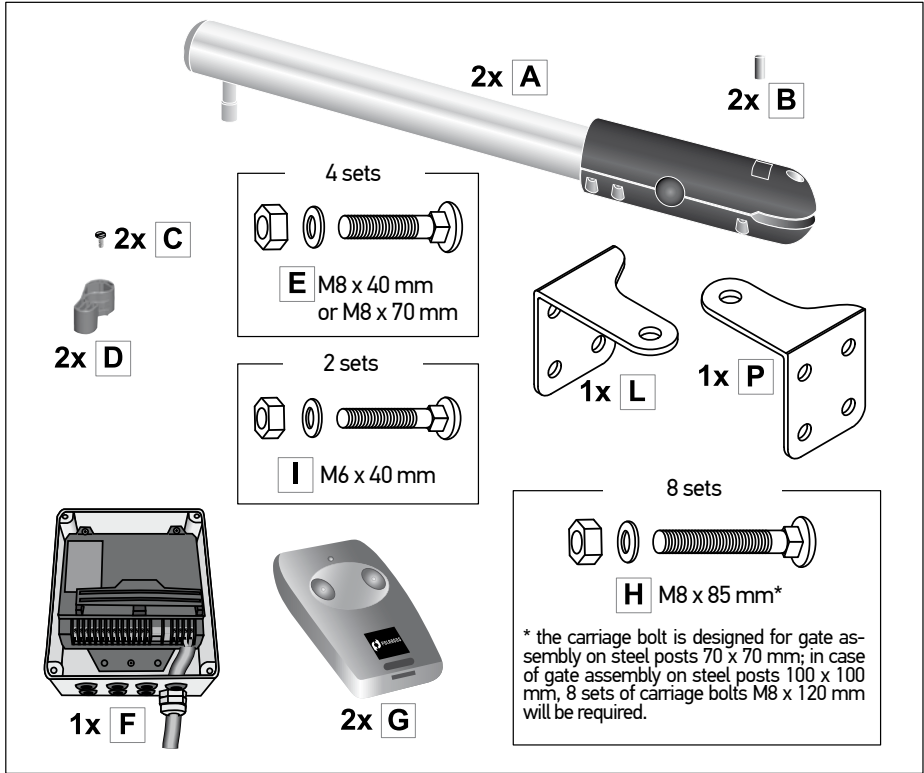


AUTOMATIC GATE EASY WAY202

EN Assembly and service manual

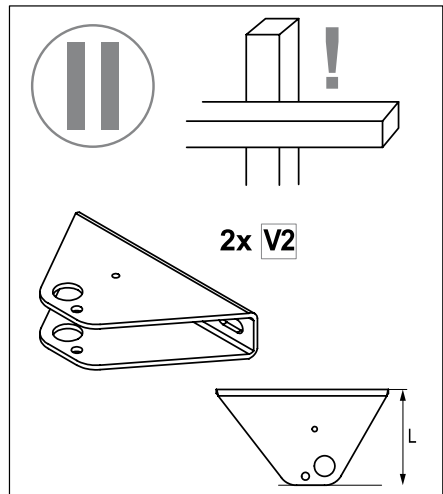
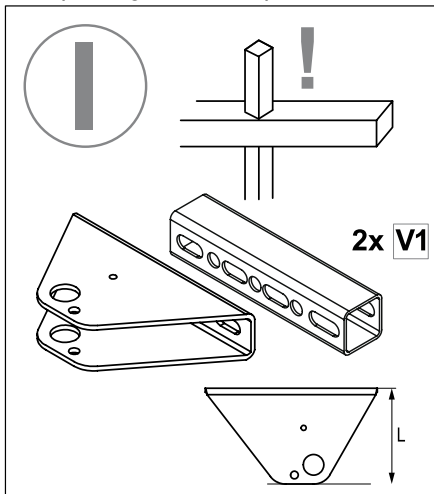


AUTOMATIC GATE EASY WAY202



+

Depending on a model purchased, the suitable connector should be included in the set



Contents

Introduction	4	Start-up and standard use	25
Safety rules	5	Stages	25
Important	6	Explanation of symbols	25
Batteries	6	Remote control programming	25
Worn out equipment recycling and disposal	6	Remote control operation	25
Regulatory compliance	6	Switching on the system power supply	26
Risk prevention	6	Automatic learning of the gate moving course	26
Dangerous zone determination	7	Setting the stand-by / activation mode of the electronic control system	27
Product presentation	8	Complete gate opening / closing	27
Technical data	8	Obstacle detection	27
Leaf dimensions and maximum weight	9	Training for users	27
Maximum opening angle	9	Advanced settings	28
Drive and control module dimensions	9	Opening to allow pedestrian passage	28
Preparation for assembly	10	Automatic closing	29
Inspection before installation	10	Switching off the automatic closing	30
Necessary tools	11	Remote control programming	31
Preliminary wiring system	12	Presentation of remote controls	31
Mains supply	12	Addition of a remote control	32
Preparation of connectors	13	Cancellation of remote controls	33
Automatic system assembly	15	Accessory wiring	33
Gate preparation	15	Photocells	33
Electric connection	19	Orange light	34
Stages	19	Battery	35
Electric box location on the post	19	Independent antenna	35
Control module assembly	20	Video interphone	36
Electric box location on the post	20	Key switch	36
Electric box fastening on the post	20	Zone lighting	36
Antenna connection	21	Solar energy supply	36
Drive connection	22	Troubleshooting	37
Connection of two actuators	22	Technical assistance	37
Connection to the mains	23	Remote control battery replacement	37
		Cancellation of settings	37
		Drive locking / unlocking	38
		Diagnostics	39

POLARGOS is a Polish company manufacturing property and industrial fences as well as another steel products that has been present at the market since 1994.

Thanks to our many years' experience, technical and marketing background, POLARGOS manufactures products that are appreciated by more and more customers at home and abroad.

The Company's purpose is to supply the market with the products that fulfil the highest standards of workmanship and meet customers' expectations as regards aesthetics and 'fashion' prevailing at the fence market.

Thank you for your confidence and choice of the device EASY WAY 202.

Please read this manual thoroughly before assembly

TECHNICAL ASSISTANCE:

HOTLINE: 0 801 377 199*

*a charge as for local call

EASY WAY 202 manufactured by Somfy for POLARGOS

Before assembly of the product, it is necessary to read all information contained in this service manual. You must follow the instructions and keep this document for the whole product service life.

Inobservance of the recommendations concerning the assembly can lead to serious injury or material damage. POLARGOS bears no responsibility in such cases.

This device must not be used by persons (including children) of limited physical, sensory or mental abilities or by persons without experience or knowledge unless they are supervised or instructed by a person responsible for their safety as regards the device operation.

Children must not play with the fixed control devices. The remote control transmitters must be located out of reach of children.

In case of use of the switch without interlocking***, check if other people are far enough from the gate.

Inspect the system often to detect any anomalies as regards the gate balance or to specify any signs of wear and tear. Do not use the drive if it requires repair or adjustment.

If the device is controlled automatically, disconnect its power supply before cleaning or maintenance.

Before drive installation, check if the driven part is in good technical condition, correctly balanced and if it opens and closes properly.

Show concern for maintenance of suitable distance from the zone between the driven part and fixed elements in the vicinity in view of danger caused by movement of the driven part during opening (crushing, cutting, jamming).

Inspect the gate visually during its movement.

All switches without interlocking*** must be located in the area from where the driven part is visible directly but at the suitable distance from the fixed elements. The switches shall be installed at the minimum height of 1.5 m at a place where they are not generally available except for key switches.

When the gate is totally open, keep the distance 500 mm behind each leaf.

Do not discard the worn out device or batteries together with household waste. The user is obliged to transfer all worn out electronic and electric devices to a special waste collection point for recycling.



Hereby, POLARGOS declares that this product conforms to the basic requirements and another relevant regulations of the Directive 1999/5/CE. The Declaration of Conformity is available at www.polargos.pl

The product admitted for use in European Union and Switzerland.

***example: an interphone, a key switch, panel with digital code, etc.



> Safety rules

⚠ WARNING

Monthly, check as follows:

- installation, to detect any signs of wear and tear or damage of conductors or assembly components,
- if the power unit changes direction of its operation when the gate encounters an obstacle of 50 mm that can be found mid-height of the gate leaf.

Do not use the power unit that requires repair or adjustment. The gates in a bad technical condition shall be repaired, strengthened or even replaced.

Use only original parts for servicing and repair.

Introduction of any technical, electronic or mechanical modifications within the power unit requires consent of the POLARGOS Technical Assistance Department.

If the system is equipped with photocells and/or the orange light, clean optic elements of the photocells and the orange lamp regularly.

▶ Batteries

⚠ DANGER

Do not leave batteries / tablet batteries / rechargeable batteries within reach of children. They shall be stored out of reach of children. There is a hazard that children or pet animals can swallow these elements. Danger of death! Nevertheless, if such situation occurs, consult a doctor immediately or go to hospital.

Be careful to avoid battery short circuit. Do not throw batteries into fire or recharge them. Risk of explosion occurs.

▶ Worn out equipment recycling and disposal

Remove a rechargeable battery (if any) from the power unit before its transfer for disposal.



Do not discard the worn out remote control batteries or a rechargeable battery (if any) together with household waste. Transfer them to a special waste collection point for recycling.



Do not discard the out of use power unit together with household waste. Such a power unit shall be transferred to its distributor or to a selective waste collection point made available by the municipality authorities.

▶ Regulatory compliance

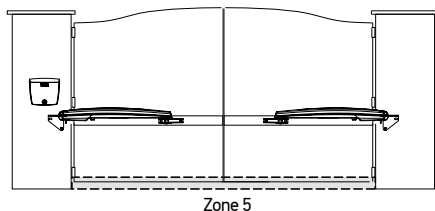
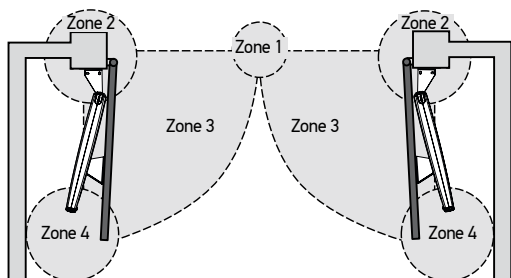


Hereby, POLARGOS declares that the product described in this manual, if it is used according to the given recommendations, conforms to the basic requirements of European Directives in force and, in particular, the Machinery Directive 2006/42/EC and Radio Equipment Directive 2014/53/EU.

The full text of the Declaration of Conformity is available at: www.somfy.com/ce. Antoine CREZE, Regulatory Compliance Manager, Cluses.

> Risk prevention

▶ Dangerous zone determination



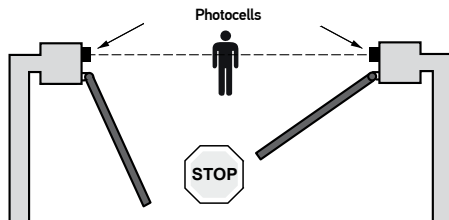
Precautions to eliminate the risk

ZONE 1

Risk of hit and crushing

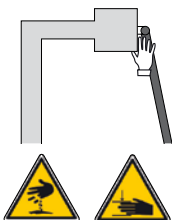


Solution:
Obstacle detection system inside the photocell drive.

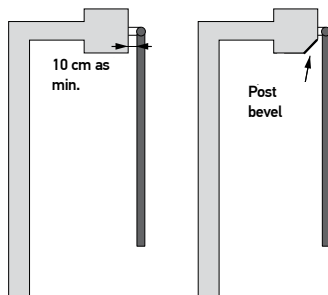


ZONE 2

Risk of hand crushing and cutting



Solution:
If there is a cutting zone in the system:
- leave a minimum distance of 10cm between the leaf and the post / wall
- cut down the post corner without its construction weakening.

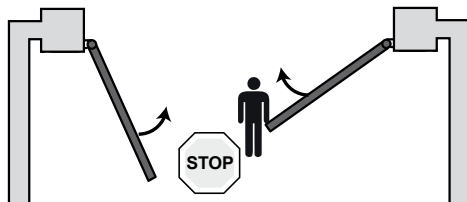


ZONE 3

Risk of hit



Solution:
Obstacle detection system inside the drive.

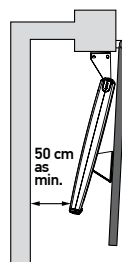


ZONE 4

Risk of confinement and crushing



Solution:
Obstacle detection system inside the drive.
If there is a risk of user confinement in the zone between the gate leaves and fixed elements in the vicinity, leave a minimum distance of 50 cm between the leaves and the fixed elements.



ZONE 5

Ryzyko obrażeń stóp



Solution:
If there is a dangerous zone for feet between the lower part of the gate leaves and the substrate, leave the distance at least 12 cm or at most 5 mm between the lower part of the leaves and the substrate.



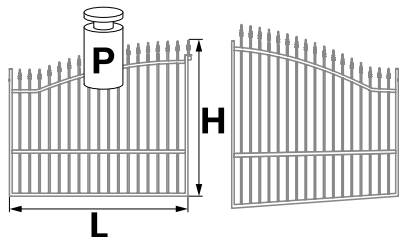
This product is designed for gates used at single-family houses (see description below).

Technical data

Type	EASY WAY 202
Supply voltage	230 V~ / solar system 24 V
Drive type	24 V
Drive power	120 W
Max power consumption (including the gate zone illumination)	600 W
Power consumption during stand-by	3 W (without accessories)
Mean daily number of working cycles	20 cycles daily 10 cycles daily for solar energy supply
Opening time*	20 s as minimum in the range of 90°
Automatic obstacle detection	According to EN 12 453 (Annex A)
Operating temperature	between - 20°C and + 60°C
Thermal shield	Yes
Protection level	IP 44
Built-in radio wave receiver	Yes
Remote controls:	
• Radio frequency	433,42 MHz
• Operational range	≈ 30 m
• Number of memory settings	16
Possible connections:	
• Orange light output	Flashing, 24 V, 10 W
• Zone lighting output, the powered terminal	max. 500 W (przy 230 V~) max. 24 V - 25 W (for the solar system)
• Accessory supply output	24 Vdc / 200 mA
• Spare battery input	Yes (only at 230V)
• Photocell input	Yes
• Control input of dry contact type	Yes
• Built-in antenna	Yes

* Opening time can be different, depending on the gate parameters.

▶ Leaf dimensions and maximum weight



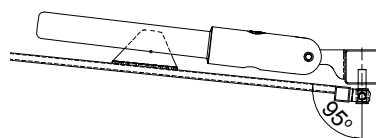
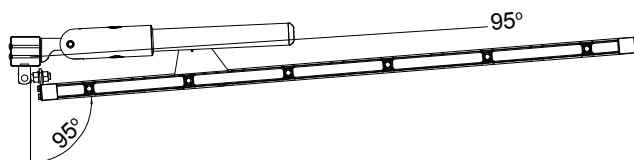
EASY WAY 202	
P	200 kg
H	2,00 m
L	2,00 m

! Each leaf width should be between 1 m and „L“.

! In case of angle setting above 95°, there is a risk of improper operation or damage of electronics.

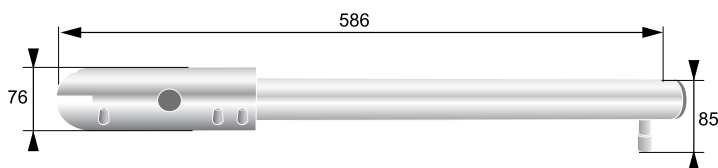
▶ Maximum opening angle (for hinges fastened on the post side)

▶ Maximum opening angle (for standard hinges)



- The opening angle of the gate should be within the range of 85-95°.
- The opening angle of the both gate leaves should be the same.
- The opening angle must be set by means of stops fastened to the substrate.
- The stops are not included in the delivery.

▶ Drive and the control module dimensions (in mm)



▶ Opening stop (not included in the delivery)

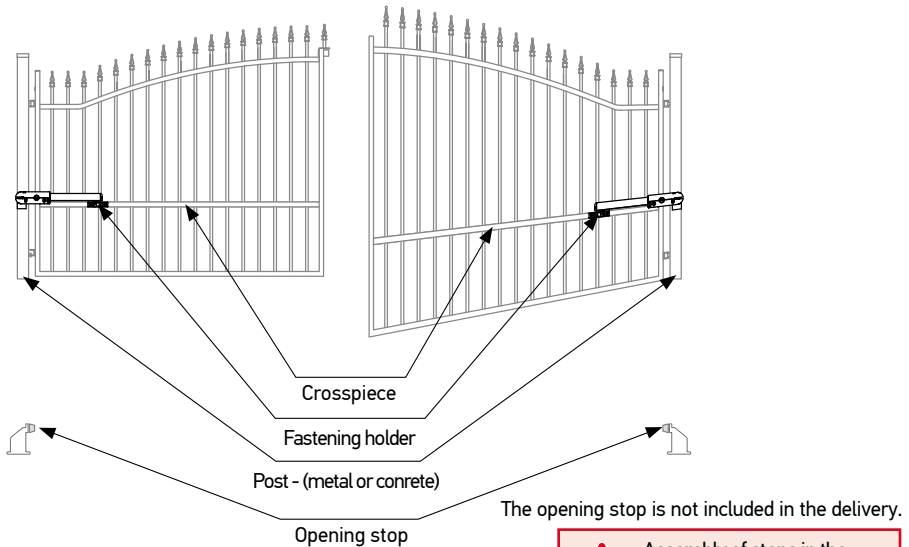
! The motor stops automatically at its internal limiter.
To stop the gate earlier, set a stop (not delivered) on the substrate to stop the leaves.

> Preparation for assembly

Inspection before installation

- **Gate inspection**

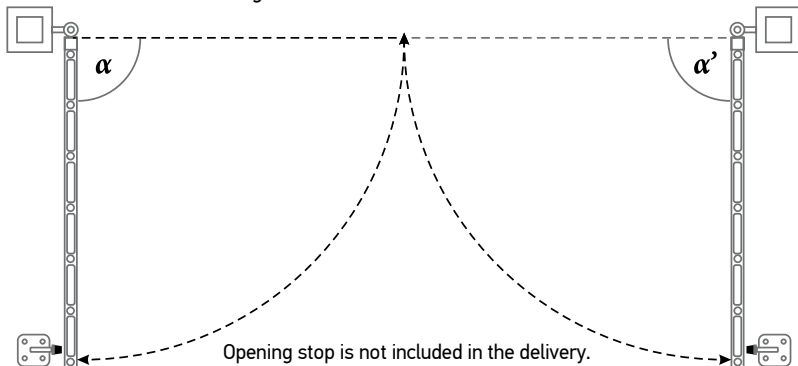
The gate is in good technical condition if it opens and closes without use of force. The gate moves horizontally during the whole cycle. It opens inward the estate..



Assembly of stops in the substrate is mandatory.

- **Inspection of posts**

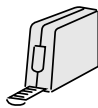
The posts must be at least 70 mm wide. Otherwise, rebuilding may be necessary to ensure proper corner set-back and fastening.



If stops are mounted at another place than shown in the picture, the actuators and the gate elements can be damaged.

- Set stops at the desired opening angle of the gate. The angle should be within the range of 85-95°. The opening angle of the both leaves should be the same: $\alpha = \alpha'$. The opening stop is not included in the delivery.

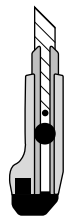
Necessary tools



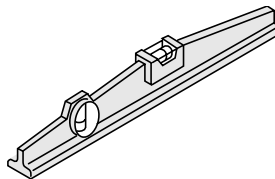
measuring tape



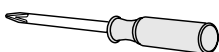
pencil



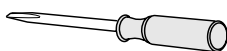
knife



level



cross-headed screwdriver



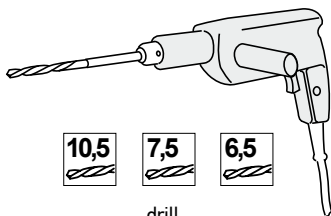
flat screwdriver



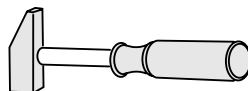
open ended spanner 13



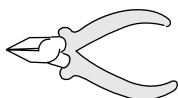
open ended spanner 17



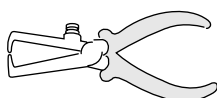
drill



hammer



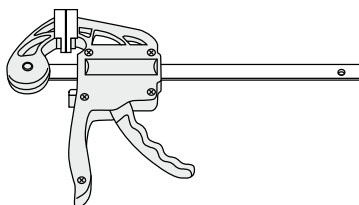
pincers



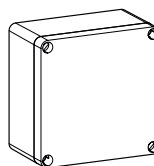
skinning pliers



tubular spanner 13 i 10



clamp



distribution box

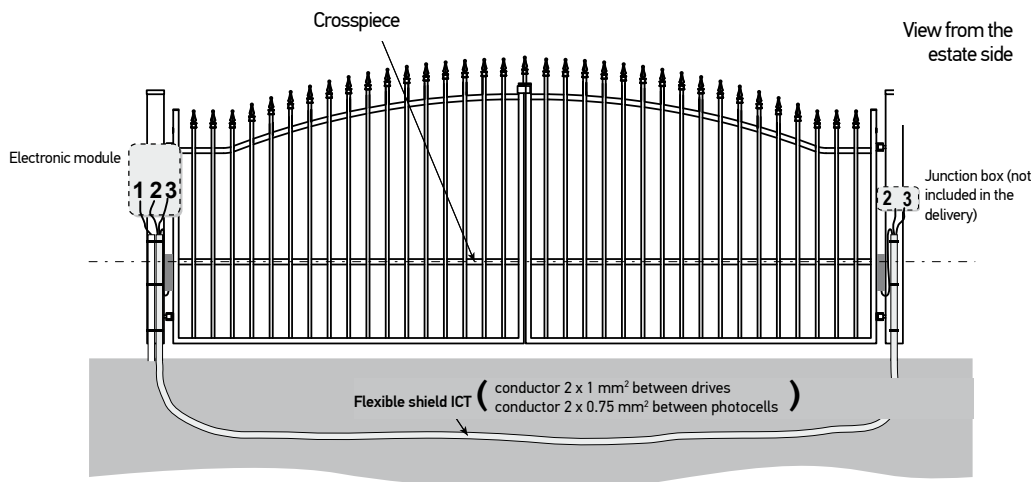
Preliminary wiring system

To mount the gate drive, it is necessary to do as follows:

- Connect the power of 230 V to one of the posts, as close to the drive as possible.
- Bring the posts together with a conductor $2 \times 1 \text{ mm}^2$ (not included in the delivery).

Before, you need to buy a distribution box of IP55 to protect the connection between the conductor going from the drive and the extension going to the control module. You need also the shield Orange ICT 0 25 mm for underground conductors.

If conductors cannot be led underground between the posts, use a cable bush that will withstand vehicle weights.



Use of conductors of smaller cross-sections than shown in the manual can result in voltage drops that can cause improper motor operation.

- 1 Power connection: conductors $3 \times 1.5 \text{ mm}^2$ for external use
- 2 Connection of 24 V between two drives: ($2 \times 1 \text{ mm}^2$)

Mains supply

To ensure operation of the gate opening mechanism, the supply of 230 V - 50 Hz shall be connected to it.

The electric line must be:

- Designed only for the gate opening mechanism.
- Protected:
 - by means of a fuse or a trip of 10 A,
 - by means of a residual-current device (30 mA).
- Mounted according to safety standards for electric systems that are valid in the country of use.

Provide a possibility of multipole disconnection of the power supply:

- using a power cable with a plug,
- or by means of a switch that allows maintenance of a minimum distance of 3 mm between contacts, at each pole (according to EN 60335-1).

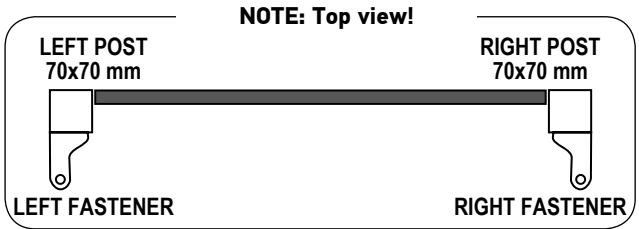
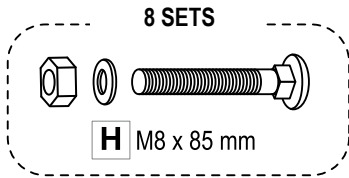
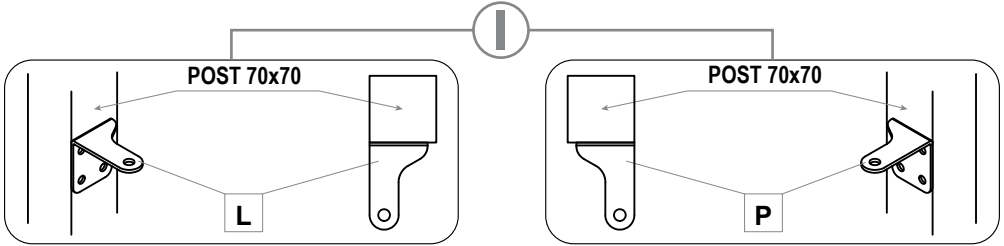
It is recommended to install a lightning arrester (maximum residual voltage of 2 kV).

> Preparation for assembly

Preparation of connectors

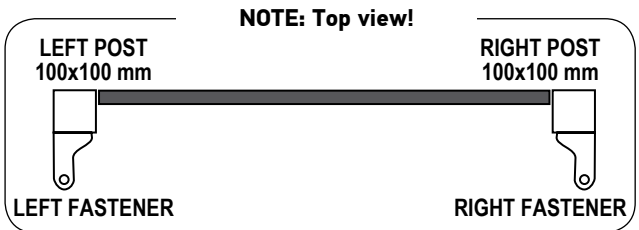
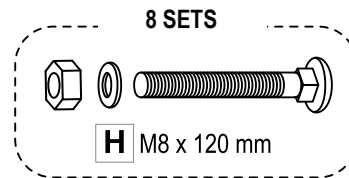
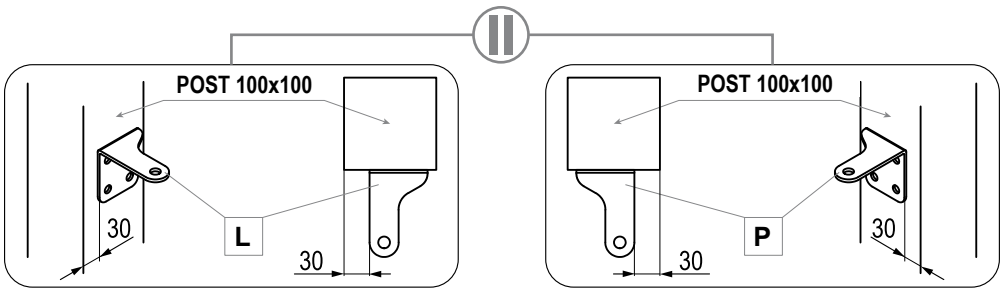
- In case (I), use carriage bolts M8 x 85 mm included in the delivery.

NOTE: View from the estate side!




- In case (II), for steel posts 100 x 100 mm, buy and use 8 sets of carriage bolts M8 x 120 mm.

NOTE: View from the estate side!

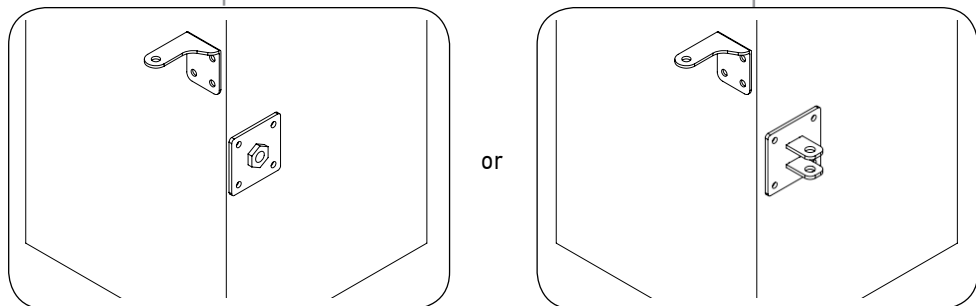


> Preparation for assembly

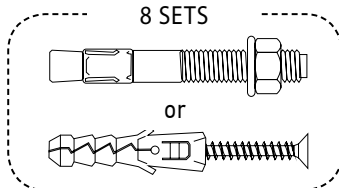
- In case , for concrete posts, you must buy 8 sets of steel dowels or expansion bolts, depending on the post material.

III.A.

VARIANT IIIA. – ASSEMBLY WITHOUT A CAVITY

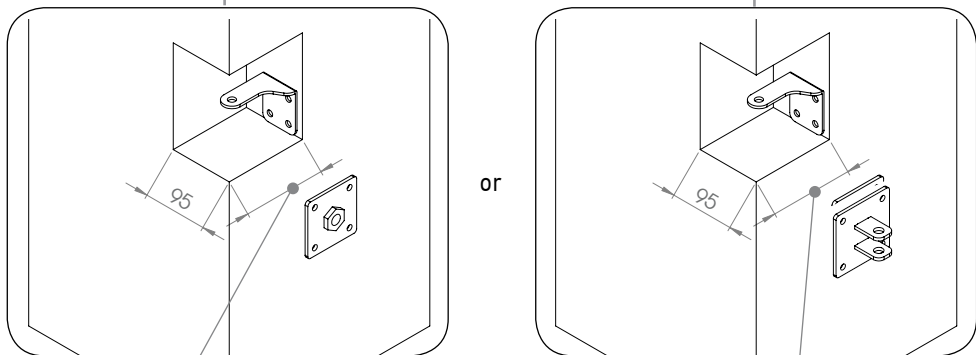


8 SETS



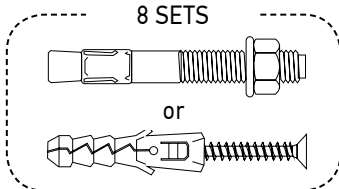
III.B.

VARIANT IIIB. – ASSEMBLY WITH A CAVITY



depending
on the post
dimension

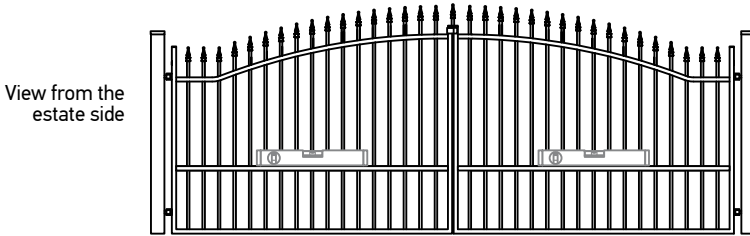
8 SETS



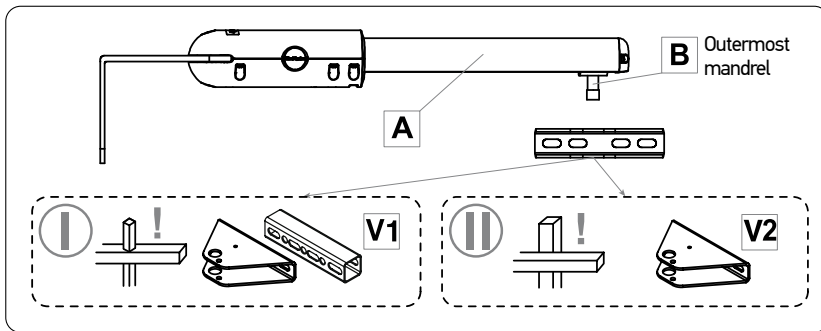
depending
on the post
dimension

Gate preparation

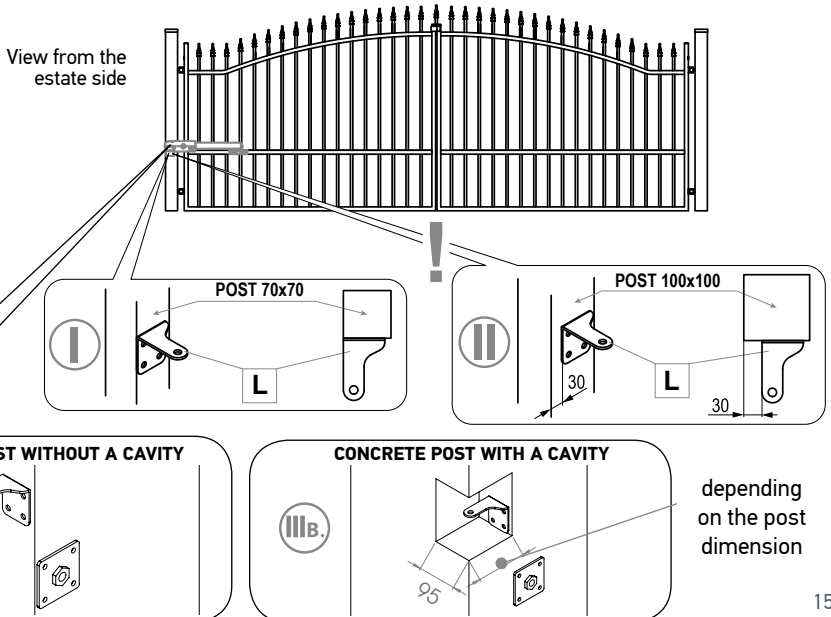
- 1 Level the gate leaves.



- 2 Fix the automatic system position.



- 3 Apply the prepared set to the closed gate levelled before. The automatic system must not scrape the fastening to the gate.

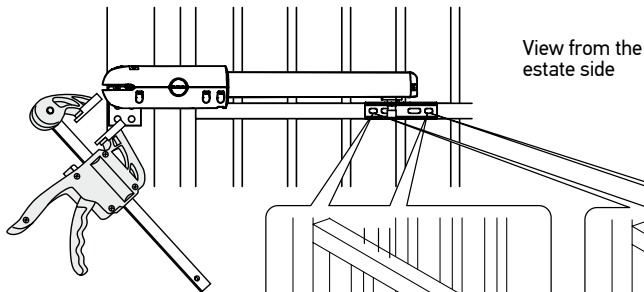


Automatic system assembly

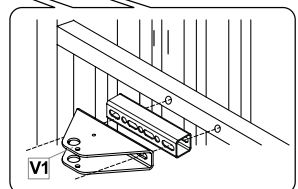
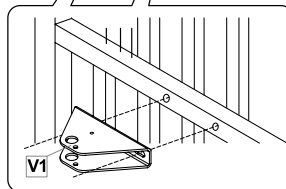
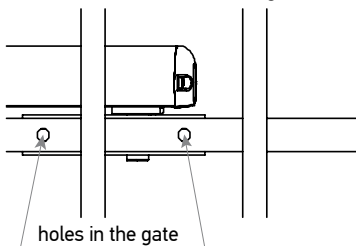
- 4 Hold the fasteners **L** and **P** in position using a clamp.



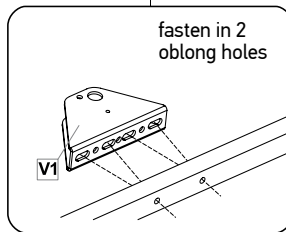
Outermost mandrel towards the internal limiter when the gate is closed and adheres the stop in the substrate.



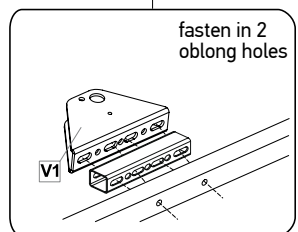
Once the automatic system is applied to the gate, see which holes in the gate crosspiece overlap oblong holes in the fastening to the gate **V1** (fasten in two chosen oblong holes).



or



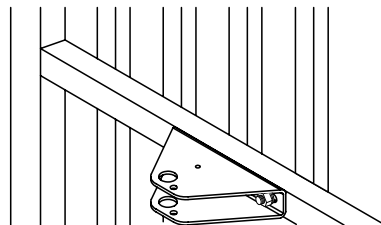
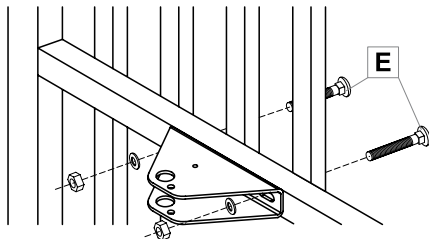
fasten in 2 oblong holes



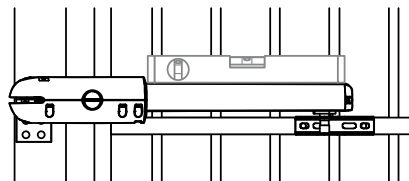
fasten in 2 oblong holes

- 5 Install the fastening to the gate using screws.

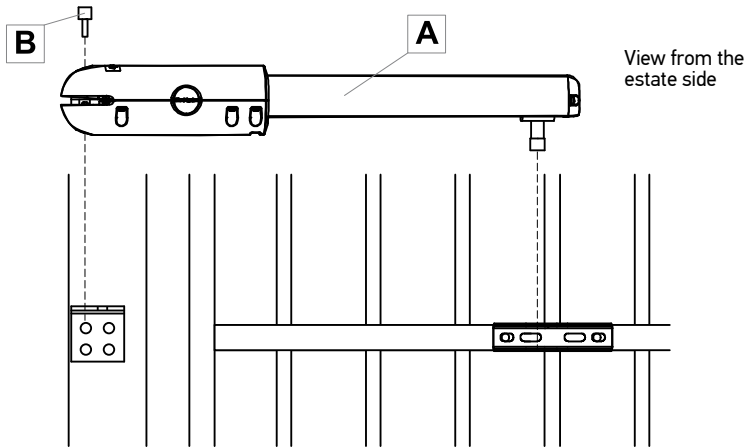
The fastening to the gate should be adjustable using fine displacements (tighten the screws to feel only weak resistance).



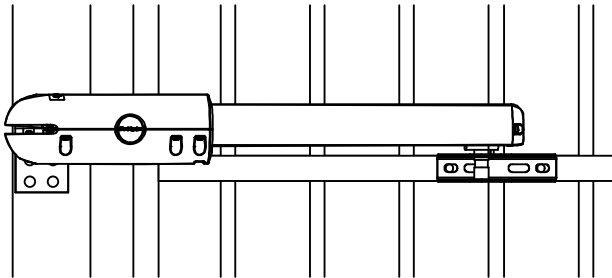
- 6 Then, when the gate is closed, install the fastener to the post.



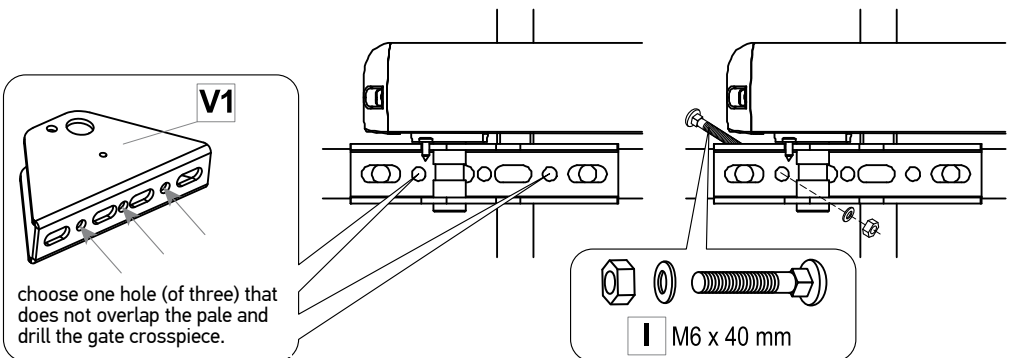
- 7** Put the automaton on the suitably installed fastenings.



- 8** Check the fastening installation on the gate once again and adjust if necessary.



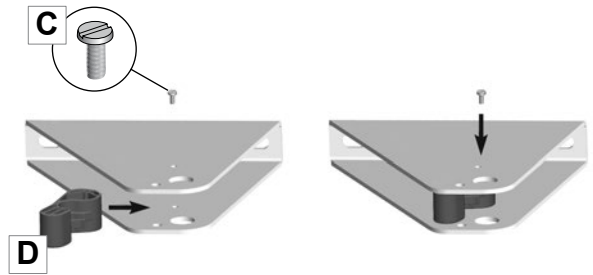
- 9** Remove the automatic system. Choose one hole in the fastening, not overlapping the pale. In this hole position, drill through the gate crosspiece using a drill **6,5**. Then, drill it from the street side using a drill **7,5**. Then install a carriage bolt M6 x 40 mm.



Automatic system assembly

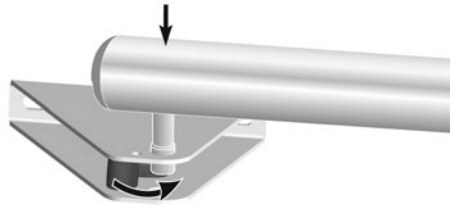
- Assembly of a yoke to fasten the leaf **V1** or **V2**

- 11** Fasten the unlocking element **D** on the yoke that fastens the leaf **V1** or **V2** using the screw **C**



For correct use of the unlocking element, maintain the assembly direction shown in the diagram. Do not mount the screw underneath.

- 12** Fasten the yoke that fastens the leaf **V1** or **V2** on the drive mandrel. Attach the unlocking element **D** to the drive mandrel to lock the mandrel.



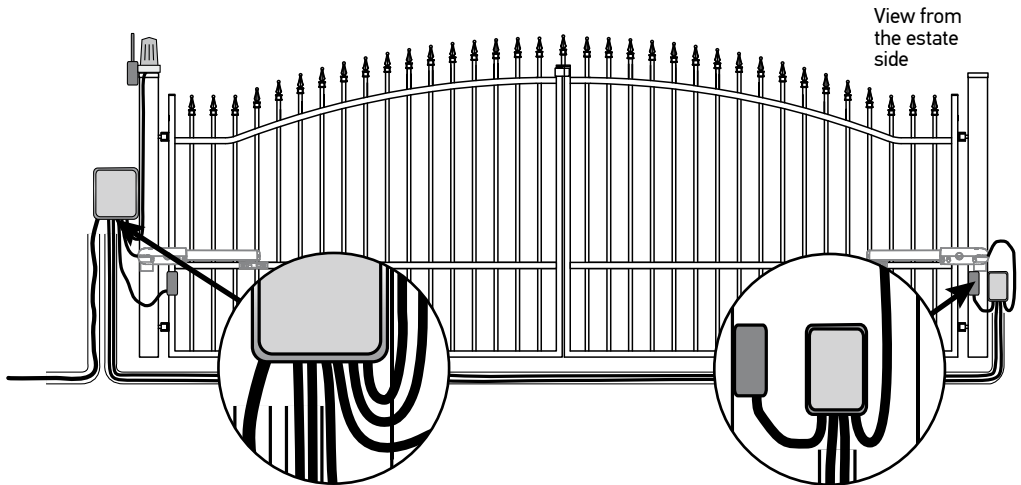
- 13** For the other gate leaf, repeat steps **1** - **12**

► **Stages**

- Electric box location on the post.
- Electric box fastening on the post.
- Connection of two actuators.
- Antenna connection.
- Connection to the mains or to the solar system..

► **Electric box location on the post.**

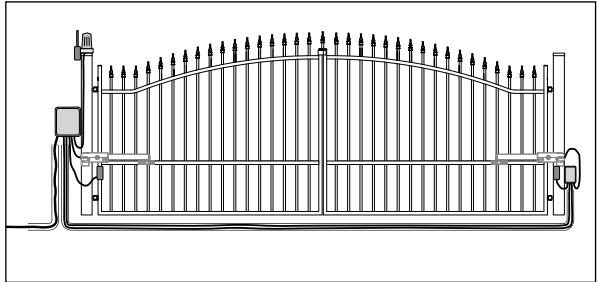
Install the box at the power supply source side.



Control module assembly

► Electric box location on the post.

Install the box at the power supply source side.



► Electric box fastening on the post.

1

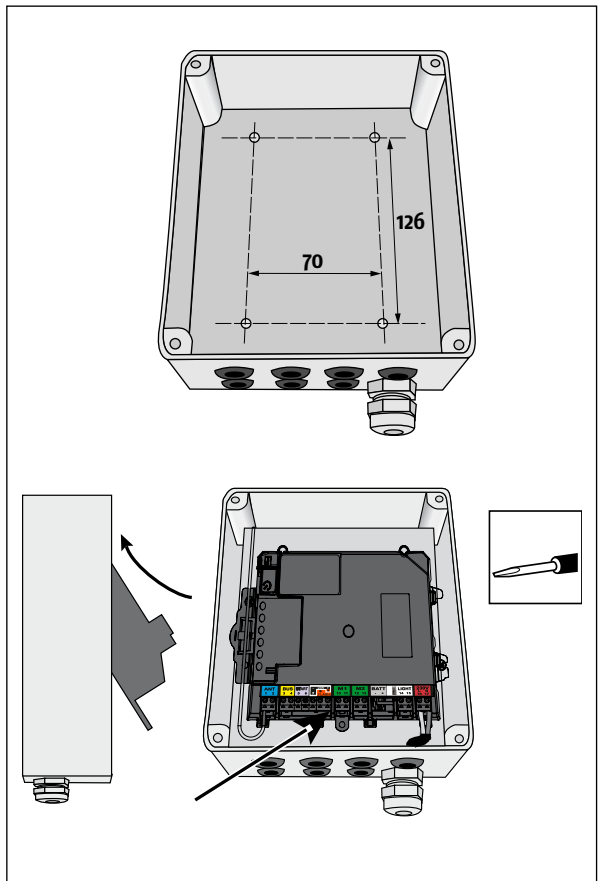
Apply the box at the post (preferably at the height at least 1 m above the ground) and use the template to drill holes for assembly.

2

Insert the electronic equipment into the box. Press slightly to locate elements properly. Fasten the equipment using the clamping screw (included).

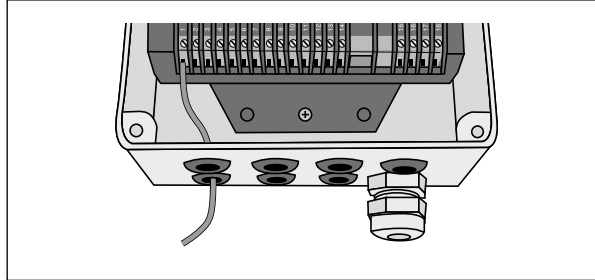
Mount the box with the gland downward.

Conductors will be led in the lower part (as shown in the picture).



▶ Antenna connection

To ensure optimum operation, it is recommended to lead the antenna conductor from the box through a bush.



Never cut the antenna conductor.

Drive connection



- M1 drive activates the leaf that
- opens first and closes as the last one,
 - opens to allow pedestrian passage through the gate.

1

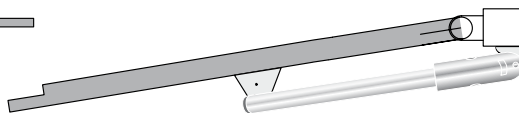
▶ Connection of two actuators.

Connection between the actuators and the electric box shall be made before the electric box is connected to the mains.

M1 actuator must be mounted on the post of the leaf that opens first and closes as last.



M2



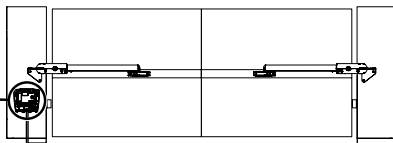
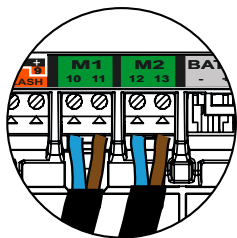
M1

M1 actuator activates the right leaf that opens first and closes as last.

2

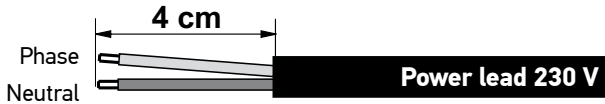
Connect the drives as shown in the following table:

Connect conductor of drive		To terminal
M1	blue	10
	brown	11
M2	blue	12
	brown	13



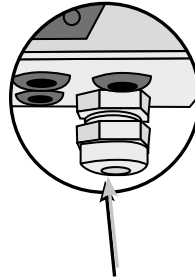


For safety reasons, disconnect the power supply before these activities. Use the conductor $3 \times 1.5 \text{ mm}^2$ for external use (H07RN-F type as minimum). It is necessary to use the delivered wireholder. Check if all low voltage conductors withstand operation of the force 100 N. Check if they are not displaced after this force is applied.



In the cable of type $3 \times 1.5 \text{ mm}^2$, prepare 2 conductors of 4 cm (phase and neutral).

- 1 Insert the conductor into the gland.



- 2 Connect the ground conductor.

The ground conductor (green/yellow) will be necessary for some accessories (lighting 230 V class I).

- 3 Connect the phase and the neutral point. Check if the conductors are locked properly while pulling them.

Connection to the mains

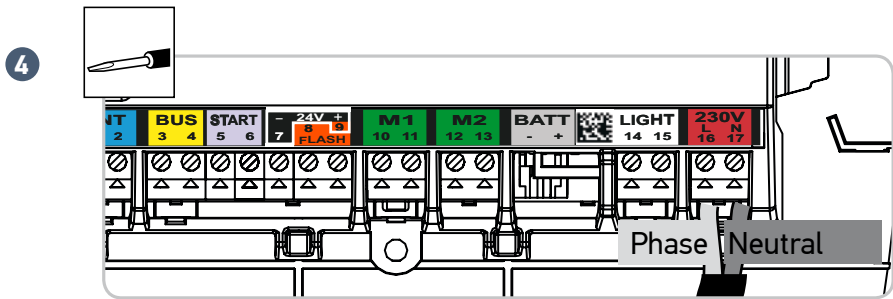


Fig. No. 1

- Connect the phase conductor and the neutral conductor to terminals 16 and 17 (red label "230 V").
- Put a connection block on the ground conductor (green/yellow) and insert it the control module..



It is necessary to follow recommendations concerning colours of the conductors.

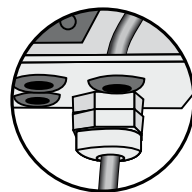
Blue conductor	Neutral
Red/brown/black conductor	Phase
Green/yellow conductor	Grounding

See Fig. No. 1, above

5

Clamp the gland.

Check if the conductor is locked properly while pulling it.



► Stages

- Explanation of symbols.
- Remote control programming.
- Learning of the leaf moving course.
- Automatic mode adjustment.
- Change-over from automatic to sequential mode.
- Approval of settings.

► Explanation of symbols

Long pressing longer than 0.5 s	↓
Short pressing shorter than 0.5 s	↑

Indicating lamp flashes	◐
Indicating lamp is on	○

► Remote control programming.

Before entering the system parameters, check if indicating lamps ON/OFF and PROG are ON and the indicating lamp ⚠ DANGER is OFF.

Carry out the next activities:

Remote control operation

The drive can be controlled by one or more remote controls.

The activities described below shall be carried out for each of remote controls to be programmed.

The drive provides 2 operating modes:

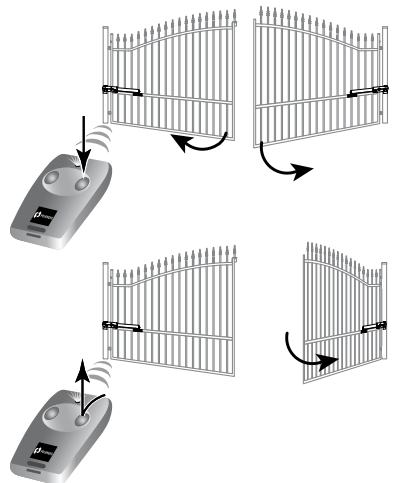
• Complete opening only

Complete opening of 2 leaves through a short or a longer pressing of the remote control button.

• Opening to allow pedestrian passage or complete opening

Opening of the one leaf only by short pressing of the remote control button to allow pedestrian passage.


Complete opening of two leaves by a longer pressing of the remote control button.






The remote controls supplied in the set are not programmed.
The remote control must be programmed. See point 31-32

▶ Switching on the system power supply

The lamp  flashes (twice).

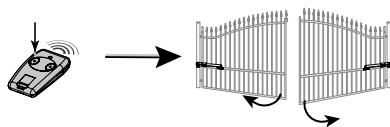
The drive is live and waits for automatic learning.

If the lamp  is OFF or number of blinks is different than expected: see „Diagnostics“.

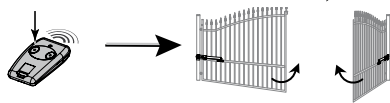
▶ Automatic learning of the gate moving course

Check if the system is live: the lamp flashes (twice).

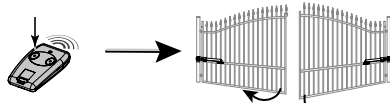
- 1 Press the button 1 of the remote control to cause COMPLETE gate opening. The leaves open one by one.



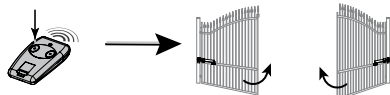
- 2 When the gate is open completely, press the button 1 again to cause COMPLETE gate closing.




- 3 Press the button 1 of the remote control to cause COMPLETE gate opening. The leaves open with a minor difference in opening time.




- 4 When the gate is open completely, press the button 1 again to cause COMPLETE gate closing.




When the gate is closed completely, the lamp  of the control module should LIGHT CONSTANTLY.



Do not interrupt the gate movement (complete opening / closing). In case of gate movement interruption, learning will be resumed automatically during the next opening.

If the lamp  flashes, restart the procedure of the automatic learning of the leaf movement course (4 complete movements of opening and closing).

If the lamp  still flashes, see “Diagnostics”, page 39.

If the gate opens again after closing movement is finished, loosen and slightly move the leaf holders towards the gate centre.




WARNING

Once the installation is complete, it is necessary to check if the obstacle detection system conforms to the specification given in the Annex A of EN 12 453.

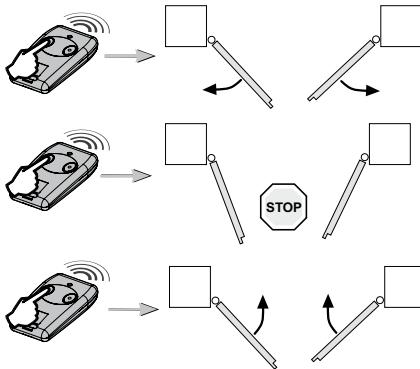
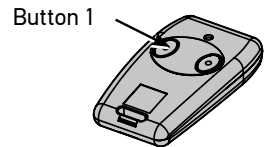
▶ Setting the stand-by / activation mode of the electronic control system

i Once the automatic learning is finished, the electronic system switches automatically on the stand-by mode after 5 minutes to save energy if there are no commands. In the stand-by mode, all indicating lamps are OFF.

To check if the drive is powered or to check / change the settings, press and hold the button , for 2 s to activate the electronic system. If there are no commands, the electronic system switches automatically on the stand-by mode after 5 minutes.

▶ Complete gate opening / closing

! The remote controls supplied in the set are not programmed. The remote control must be programmed. See point 31-32



Closed gate: press the button 1 of the remote control to open the gate completely.

Running gate: press the button 1 of the remote control to stop the gate.

Open gate: press the button 1 of the remote control to close the gate.

▶ Obstacle detection

If the system detects an obstacle (an abnormal force influences the drive unit):

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

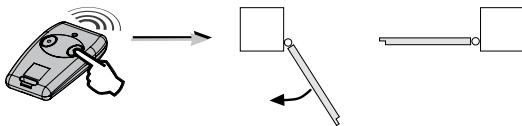
▶ Training for users

All users must know the rules of fully safe use of this gate with electric drive (the standard use and the method of unlocking) and of mandatory periodical surveys.

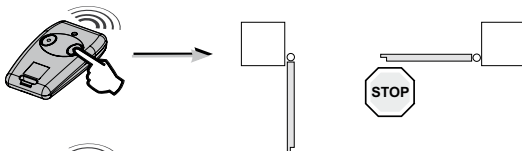
Opening to allow pedestrian passage

▶ Operation of the opening mode to allow pedestrian passage

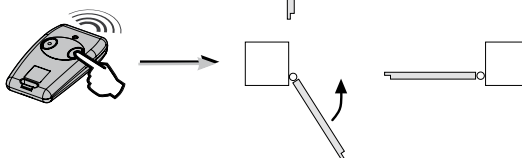
Opening to allow pedestrian passage (the drive M1) by pressing the active button.



Stopping the gate movement by renewed pressing of the active button.





Closing by renewed pressing of the active button.

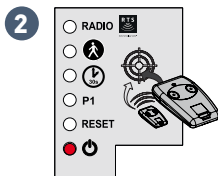


▶ Switching on the opening mode to allow pedestrian passage

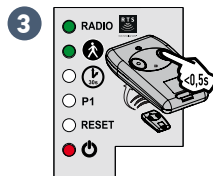
i The button 1 of remote controls with 2 or 4 buttons cannot be programmed to control gate opening mode to allow pedestrian passage.
See „Presentation of remote controls”, page 31, to obtain additional information.




Press and hold the button  of the electronic control system for 2 s.
The lamp  lights up.



Put the remote control on the disc of the electronic control system.




Press the button 2 of the remote control.
Lamps RADIO and  light up and then go out.

The function of opening to allow pedestrian passage has been activated in this button.

i Walk away from the electronic control system to test the mode of opening to allow pedestrian passage.

▶ Switching off the opening mode to allow pedestrian passage

Repeat the procedure “Switching on the opening mode to allow pedestrian passage” using the button for which the mode of opening to allow pedestrian passage should be switched off. The lamp  lights up and then goes out. The mode of opening to allow pedestrian passage has been activated in this button.

Automatic closing

▶ Operation of the automatic closing mode

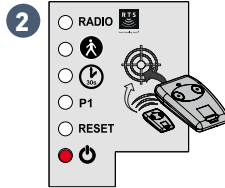
The gate closes after 30 s or after 5 s in case the passage is detected by photocells. Automatic gate closing can be stopped by pressing the button 1 of the remote control. To close the gate, press the button 1 of the remote control once again.

▶ Switching on the automatic closing mode

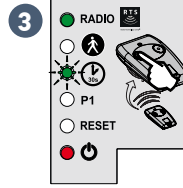
! The automatic closing function can be switched on only if the photocells are connected and recognized by the electronic system of drive control.



Press and hold the button of the electronic control system for 2 s. The lamp lights up.

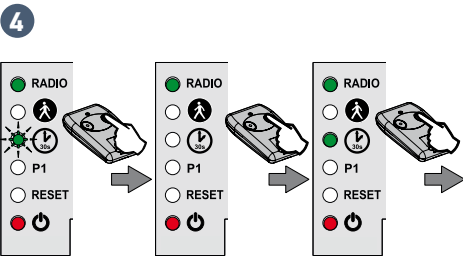


Put the remote control on the disc of the electronic control system.

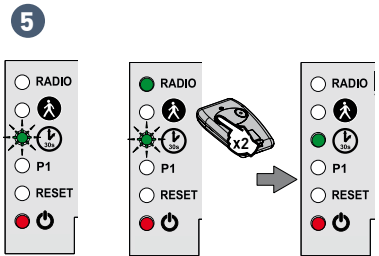


Hold the pressed button 1 of the remote control until the lamp starts flashing.

i Once the stage 3 is finished, you can carry out the next stages using the remote mode (do not put the remote control on the disc figure).



Hold the pressed button 2 of the remote control until the lamp goes out and then it lights constantly.



Release the button 2, the lamp flashes; press the button 1 of the remote control twice. The lamp keeps lighting.



The automatic closing function is ON.

Advanced settings

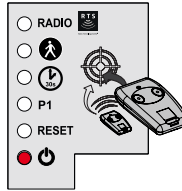
▶ Switching off the automatic closing

1



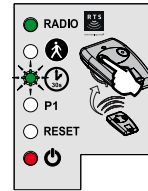
Press and hold the button  of the electronic control system for 2 s. The lamp  lights up.


2



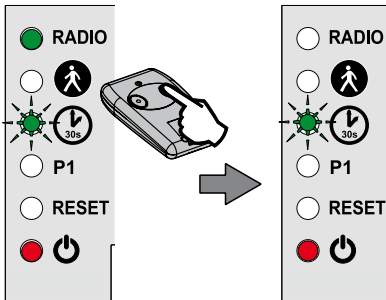
Put the remote control on the disc of the electronic control system.


3



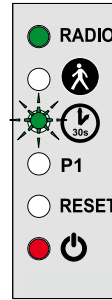
Hold the pressed button 1 of the remote control until the lamp  starts flashing.

4



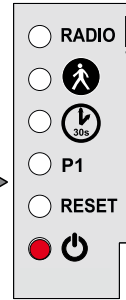
Press the button 2 of the remote control. The lamp  flashes.


5



Press the button 1 of the remote control twice.

6

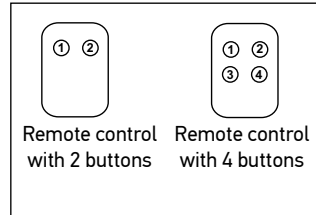


The lamp  is OFF.
The automatic closing function is OFF.

Presentation of remote controls

The remote controls RTS Somfy can control (according to chosen settings):

- complete gate opening
- gate opening to allow pedestrian passage
- other equipment of Somfy RTS (eg.: a garage gate drive, a roller blind, etc.)



i Up to 16 control points can be saved in the memory (remote controls, another radio control points). In case of saving the 17th control point in the memory, the first saved point will be cancelled automatically

i To program the opening mode to allow pedestrian passage, use the button that is next in sequence after the button controlling the complete opening mode (eg. if the complete opening mode is controlled by the button 2, then the opening mode to allow pedestrian passage – the button 3). You cannot program the opening mode to allow pedestrian passage in the button 1 of the remote controls.

► Methods of programming the remote control with 2 buttons

	Button 1	Button 2
Method 1	Complete opening	Opening to allow pedestrian passage or another automatic mechanism of Somfy RTS
Method 2	Another equipment of Somfy RTS	Complete opening

► Methods of programming the remote control with 4 buttons

	Button 1	Button 2	Button 3	Button 4
Method 1	Complete opening	Opening to allow pedestrian passage or another automatic mechanism of Somfy RTS	Another equipment of Somfy RTS	Another equipment of Somfy RTS
Method 2	Another equipment of Somfy RTS	Complete opening	Opening to allow pedestrian passage or another automatic mechanism of Somfy RTS	Another equipment of Somfy RTS
Method 3	Another equipment of Somfy RTS	Another equipment of Somfy RTS	Complete opening	Opening to allow pedestrian passage or another automatic mechanism of Somfy RTS
Method 4	Another equipment of Somfy RTS	Inny mechanizm automatyczny Somfy RTS	Inny mechanizm automatyczny Somfy RTS	Complete opening

Remote control programming

► How to use a remote control with 3 buttons



Opening

To open the gate completely, press the button «Up» of the remote control.

Stop

To stop the moving gate, press the central button of the remote control.

Closing

To close the gate, press the button «Down» of the remote control.





The remote control with 3 buttons cannot be used to change the drive settings.

Addition of a remote control

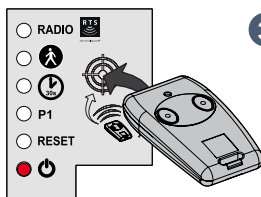
► Remote control with 2 or 4 buttons

1



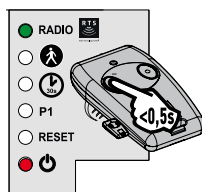
Press and hold the button  of the electronic control system for 2 s. The lamp  lights up.

2



Put a new remote control to be programmed on the disc of the electronic control system.

3





Shortly press the button to be programmed of the remote control. The lamp „RADIO” lights up and then goes out when the remote control button is released.

The complete opening mode has been programmed in this button.

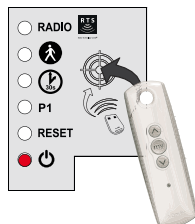
► Remote control with 3 buttons

1



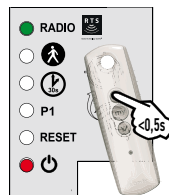
Press and hold the button  of the electronic control system for 2 s. The lamp  lights up.

2



Put a new remote control to be programmed on the disc of the electronic control system.

3



Shortly press the button to be programmed of the remote control. The lamp “RADIO” lights up and then goes out when the remote control button is released.

The remote control has been saved in the memory.

Cancellation of remote controls – see page 37–38

! For safety reasons, disconnect the power supply before these activities.

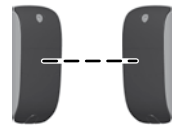
i It is recommended to carry out automatic learning of the gate movement course before connection of accessories (photocells, orange light, etc.)

Photocells

Photocells allow stopping the gate or change of its movement direction in case of an obstacle detection.

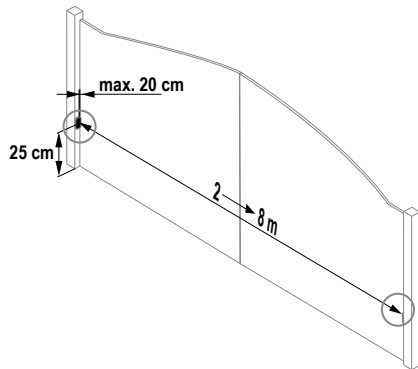
You can mount a set of photocells. Each set of photocells consists of:

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



► Location of photocells

To allow assembly of conductors, locate the receiving photocell on the post where the drive equipped with the electronic system is located.



! Before connection of photocells, remove the conductor (jumper) from between terminals 3 and 4 of the electronic module.

i For this drive unit, wiring of the second set of photocells is impossible.

▶ Assembly

Once the conductors are connected to the photocells, proceed as follows:

- switch on the drive power supply,
- activate the gate opening and closing mode.

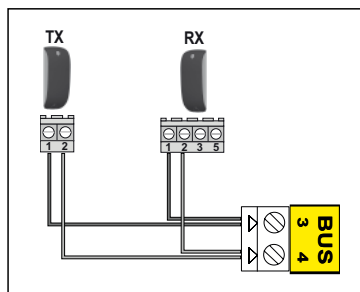
The photocells are recognized by the electronic control system after this movement is finished.

▶ Operation using the photocells

If the photocells are covered during gate closing, the gate will stop and start to open again.

▶ In case of photocell removal

After the photocells are removed, switch on the drive power supply again and then carry out the procedure „Switching off the automatic closing“, page 30.

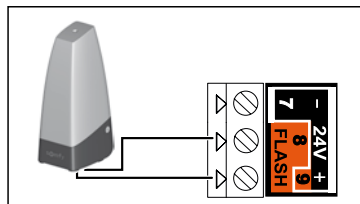


Orange light (option)

! The light bulb of MAXIMUM 10 W – 24 V – Use of a light bulb of power above 10 W - 24 W can result in improper operation of the drive unit..

▶ Orange light operation

The orange light flashes when the gate is moving.



Rechargeable battery (option)



This element is incompatible with solar power supply.



To prolong the life of the rechargeable battery, the wire control systems are disconnected; the gate control is provided only by the remote controls and control radio transmitters.

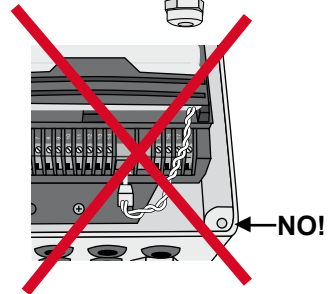
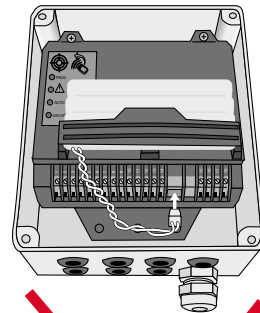
▶ Spare rechargeable battery

The spare rechargeable battery ensures gate operation with small speed in case of an electric fault.

The spare rechargeable battery is built in the electronic drive module and connected to it directly.

- Operation time: 10 cycles in the continuous mode or 24 hours if the gate is in good technical condition.
- Optimum time of charging the battery before use: 48 hours.
- Battery life: 3 years.

To ensure optimum battery life, disconnect the gate power supply 3 times a year to allow its supplying from the battery during several operation cycles.



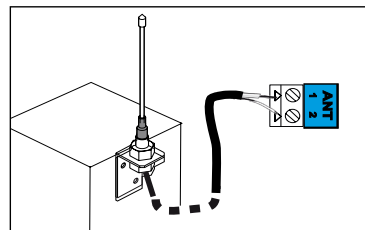
Do not locate the battery conductor above the power supply source.

Independent antenna (option)



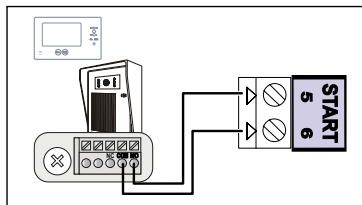
The independent antenna of greater range can replace the wire antenna. Locate it on the top of the post and check if it is exposed.

The antenna is connected to terminals 1 and 2 (blue label „ANT”) of the control module: the conductor core to terminal 1; the stranded aerial wire to terminal 2.



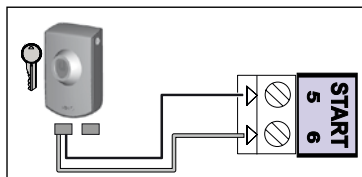
Video interphone (option)

! This element is incompatible with solar power supply. Connect only one potential-free contact without power supply.



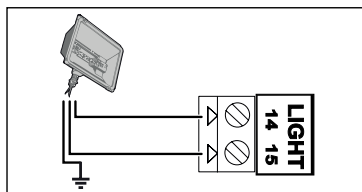
Key switch (option)

! This element is incompatible with solar power supply.



Zone lighting (option)

! This element is incompatible with solar power supply. For the zone lighting, use only halogen bulbs or incandescent lamps of maximum power 500 W.

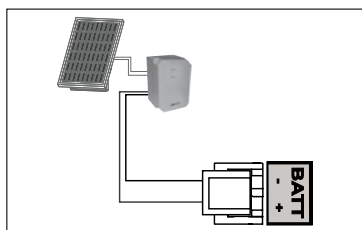


▶ Zone lighting operation

The zone lighting is activated every time when the drive is started. It goes out automatically at expiration of 1 minute and 30 seconds after the movement is finished.

Solar energy supply (option)

! Never connect the drive to power supply of 230 V when it is connected to solar energy supply source as this can lead to damage of the electronic drive module.



When the drive is powered by solar energy, then:

- the gate can be controlled only by means of the remote controls and the radio control transmitters (the wire control is inactive),
- the wire protecting accessories (photocells, the orange light) are still active.

! During cleaning, maintenance and part replacement, the drive unit must be disconnected from the power source.

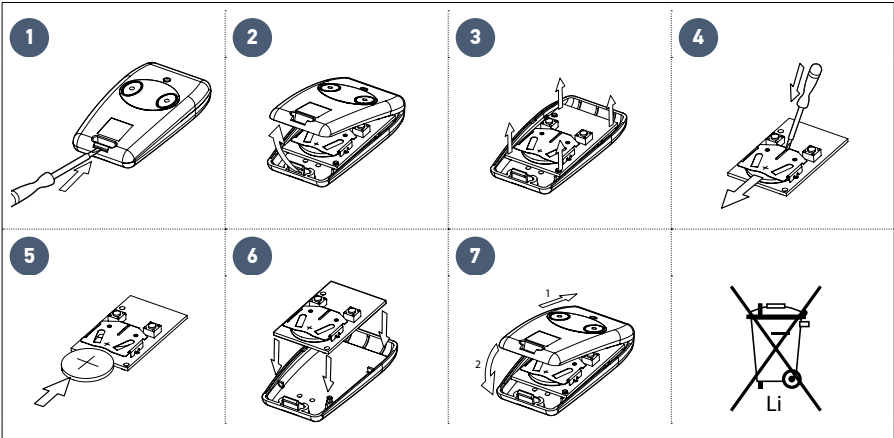
Technical assistance

If a fault persists or in case of another problem or inquiries concerning the drive unit, please use www.polargos.pl

Remote control battery replacement



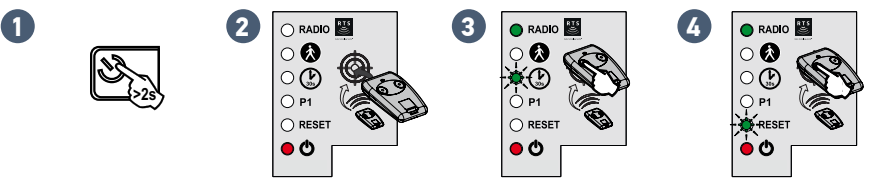
The battery life is usually 2 years.



Cancellation of settings

When do you need to cancel settings?

- After learning of the gate movement course, after change of the opening stop position or after modification of drive conductors.
- In case of renewed accidental gate opening as a result of standard use of the gate.



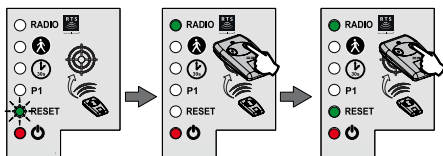
Press and hold the button of the electronic control system for 2 s. The lamp lights up.

Put the programmed remote control on the disc.

Hold the pressed button 1 of the remote control until the lamp starts flashing.

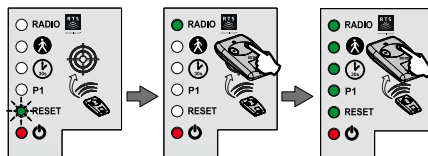
Press the button 1 of the remote control once. The lamp „RESET” flashes.

5 Cancellation of settings*



Press and hold the button 2 of the remote control until the lamp „RESET“ lights up.


6 Cancellation of settings * and remote controls / control points saved in memory



Press and hold the button 2 of the remote control until all lamps light up.

7

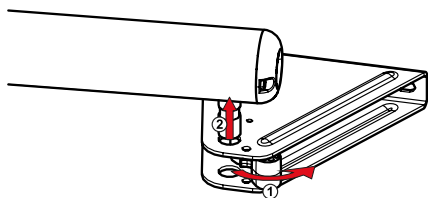


The lamp  flashes twice (see „Automatic learning of the gate movement course“, page 26).

Drive locking / unlocking

After unlocking the drives, the gate can be moved manually in case of an electric fault.

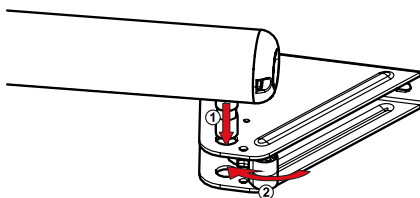
1



Unlocking the drives

Unfasten the unlocking element and then remove the actuator from the leaf holder.



2




Locking the drives

Install the actuator. Fasten the unlocking element on the drive mandrel to lock the mandrel.

Diagnostics

DIAGNOSTICS		SOLUTION
The drives do not answer any commands from the remote control	Limited range of the remote control operation	<ul style="list-style-type: none"> - Check the battery of the remote control (see „Replacement of the remote control battery“). - Check the control module antenna (conductors, position, see page 21). - Check presence of any external element that can cause radio frequency interference (a power line tower, a reinforced wall, etc.). If this is the case, provide an independent antenna.
	The remote control is not saved in memory	Save the remote control in memory (see page 32).
	The drives are connected improperly	Check the drive conductors (see page 12).
The lamp  of the control module is OFF	The electronic control system is at stand-by mode	Press the button  for 2 s to activate the electronic control system.
	The electronic control system is not powered	<ul style="list-style-type: none"> - Check the mains supply. - Check the power cable.

The lamp of the control module flashes:

1 blink	Operation using power supply from the spare battery	Check the mains supply.
2 blinks	The drive waits for automatic learning	Start automatic learning of the gate movement course (see page 26).
3 blinks	Damaged photocells	- Check if there is no obstacle between the photocells.
		- Check photocell setting.
		- Check photocell conductors (see page 34).
		- If the photocells were disconnected intentionally, carry out the procedure „Switching off the automatic closing“, page 30.
4 blinks	„START“ control of the electronic module (terminals 5-6) is always ON	Check accessories connected to „START“ of the electronic module.
5 blinks	Thermal protection of the electronic system is ON	Wait for the electronic system cooling, until the lamp  starts lighting constantly again.
6 blinks	Short circuit at the „BUS“ of the electronic module (terminals 3-A)	Check accessories connected to „BUS“ of the electronic module.
	Short circuit at „24 V“ of the electronic module (terminals 7-9)	Check accessories connected to „24 V“ of the electronic module.
	Short circuit within the „orange light“ of the electronic module (terminals 8-9)	Check conductors of the orange light (see page 34).
	Short circuit within the drive	Check conductors of the drives (see page 12).
7 blinks	Electronic fault	Contact the Technical Assistance Department of Somfy.
The gate opens again after closing is finished		Loosen the leaf holders and move them slightly towards the gate centre.



Oziemkówka 57A
08-420 Miastków Kościelny, Polska
Tel. 48 25 683 05 55
e-mail: oziemkowka@polargos.pl, www.polargos.pl