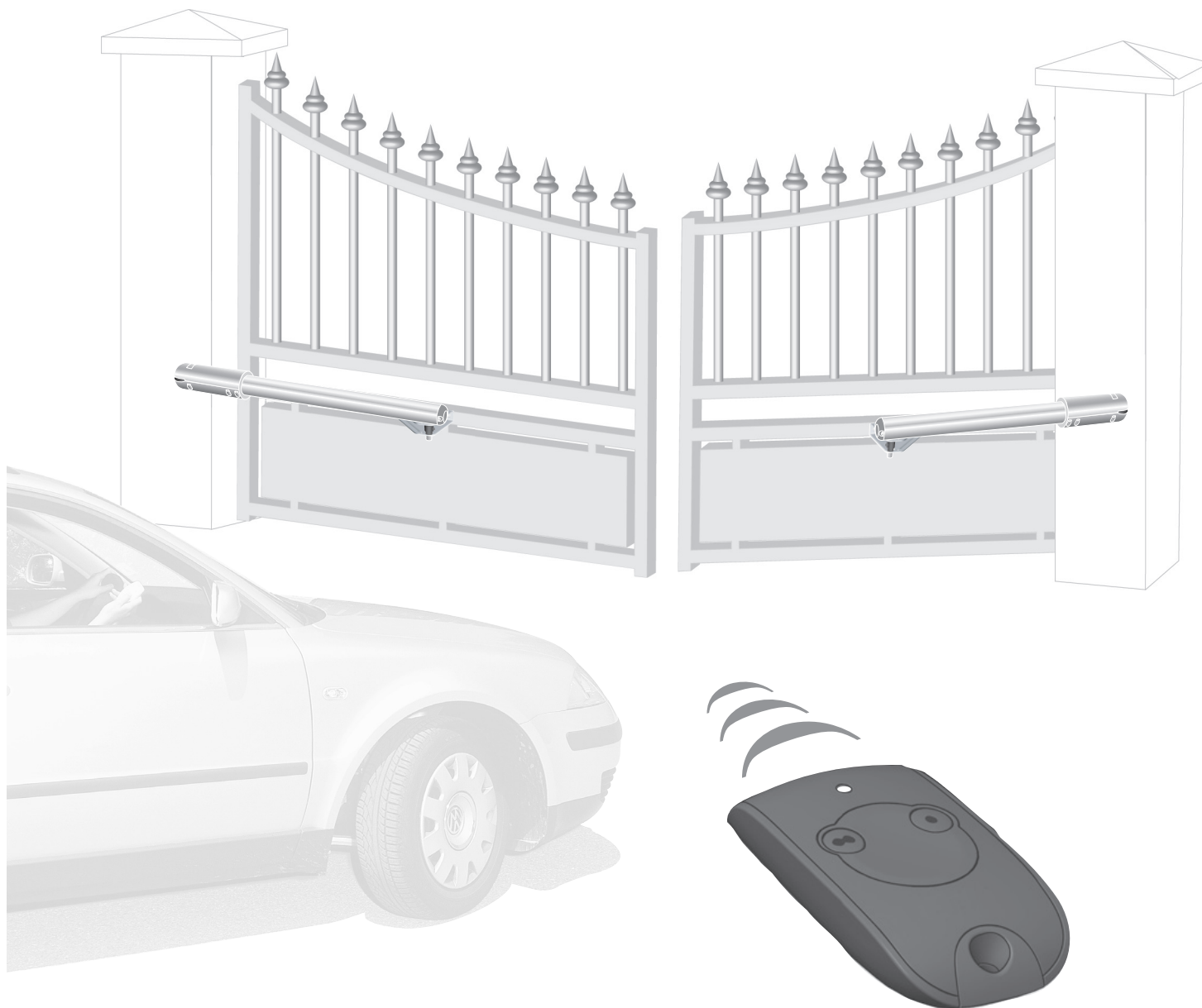


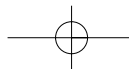
**SGS 201**  
**SGS 501**  
**SGS 601**

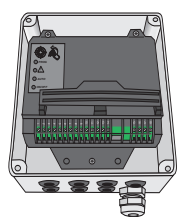
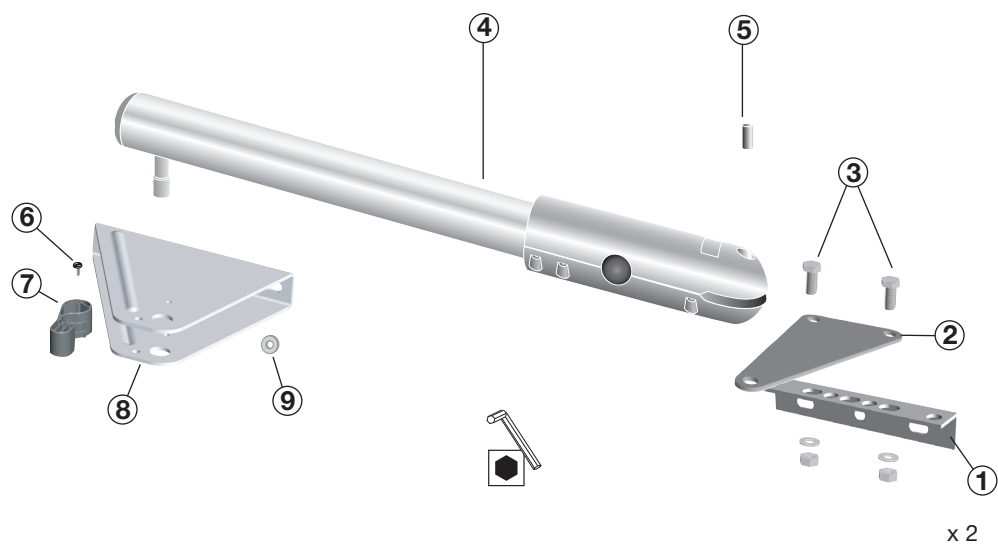
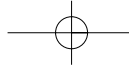
# *MOTOR DRIVES FOR SIDE-HUNG GATES*



HOME  
MOTION BY

somfy®





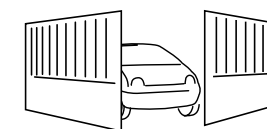
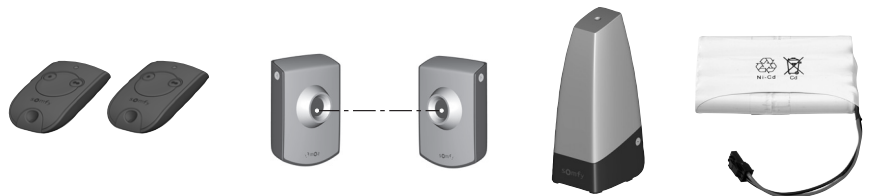
**SGS 201** \_\_\_\_\_



**SGS 501** \_\_\_\_\_

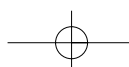


**SGS 601** \_\_\_\_\_



**SUMMARY** \_\_\_\_\_

- Foreword** ..... 2
- Safety instructions** ..... 2
- Product description** ..... 3
- Preliminary operations** ..... 4
- 4-step installation:**
  - 1. Preparing and drilling gateposts** ..... 6
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## Foreword

Thank you for choosing SOMFY. This equipment has been designed, manufactured, and distributed by Somfy to comply with ISO standard 9001 for quality organisation.

### Who are Somfy?

Somfy develops, produces and markets automatic controls for home openings. All Somfy products - alarm systems, automatic controls for blinds, shutters, garages and gates - are built to meet your expectations regarding safety, comfort and timesaving in your everyday life.

At Somfy, the search for quality is an ongoing process of improvement.

Somfy has built its reputation around the reliability of its products and has become synonymous with innovation and technical competence all over the world.

This product strictly complies with the essential safety stipulations and specifications demanded by standard EN 60335-2-103 July 2004.

### Assistance:

For any information on choosing, purchasing, or installing Somfy systems, you are welcome to request advice at your local DIY store, or contact Somfy directly so that one of our support technicians can guide you through the process step-by-step.

Public Somfy Hotline: 0113 391 3030 - Monday to Friday, 8:45 - 17:00.

Internet: [www.somfy.co.uk](http://www.somfy.co.uk)

## Safety Instructions

Before installing your product, these instructions MUST be read carefully. Follow each instruction to the letter and keep this document in your possession throughout your product's lifetime.

Should these installation instructions not be complied with, there is a risk of serious injury or damage to equipment occurring for which SOMFY cannot be held responsible.

Do not allow children to play with control devices. Keep remote control devices out of the reach of children. If you use an unlocked switch<sup>\*\*\*</sup>, make sure that other persons are kept some distance away.

Check the installation frequently in order to detect any imbalance with the leaves or any signs of wear. Do not use the device if repairs or adjustments are needed.

Disconnect the power unit while cleaning or performing other maintenance if the device is controlled automatically.

Before installing the motor drive, check that the driven part is in good working order, that it is correctly balanced and that it opens and closes as it should.

Make sure to avoid the dangerous areas (crushing, shearing or jamming) between the driven part and the surrounding stationary parts caused by the opening movement of the driven part.

Continually observe the gate as it moves.

Any switch without a lock <sup>\*\*\*</sup> must be located within direct eyesight of the driven part but away from moving parts. Unless it is key-operated, it must be installed at a minimum height of 1.5 m and not be accessible to passers-by.

Keep a clearance zone of 500 mm at the rear of each leaf when the gate is fully open.

SOMFY declares that this product complies with the essential requirements and other relevant stipulations of directive 1999/5/EC. A declaration of conformity is available at [www.somfy.com/ce](http://www.somfy.com/ce).

This product may be used in the European Union and in Switzerland.



<sup>\*\*\*</sup> (such as an intercom, key switch or digital code gate opener)

## Product description

This product is intended for gates for detached houses (described opposite).

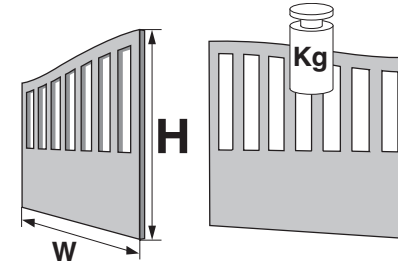
### ● Technical characteristics

Type	SGS 201 / SGS 501 / SGS 601
Supply voltage	230 V~
Motor type	24 Vdc
Motor power	40 W
Maximum power consumption (with zone lighting)	600 W
Consumption in standby mode	4.5 W
Average frequency of use per day	20 cycles/day
Length of time to open*	20 secs to 90°
Automatic detection of obstacles	Complies with standard EN 12 453 (Appendix A)
Operating temperature	-20°C to +60°C
Thermal protection	Yes
Level of protection	IP 55 for electronics IP 44 for motors
Integrated radio receiver	Yes
Remote controls:	
• Radio frequency	433.42 MHz
• Range of use	≈ 30 m
• Number of controls memorisable	16
Possible connections:	
• Orange LED output	Blinking, 24 V, 10 W
• Area lighting output, powered contact	500 W max
• Additional power outputs	24 Vdc / 200 mA
• Backup battery input	Yes
• Photoelectric cell input	Yes
• Dry contact control input	Yes

\* Variable depending on the gate's characteristics.

## Product description

### ● Dimensions and maximum weight of the leaves

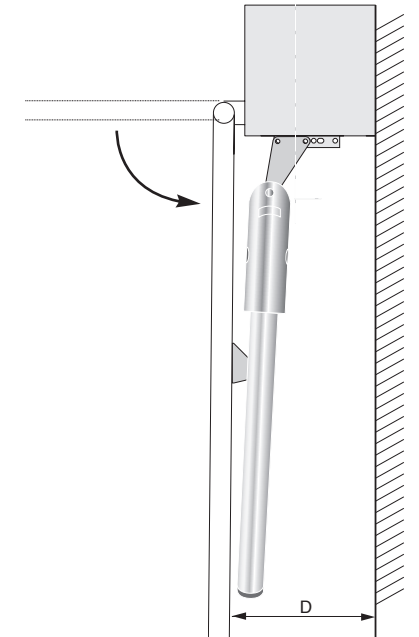


	SGS 201	SGS 501/601
P	200 kg	250 kg
H	2 m	2 m
L	1.80 m	2.50 m



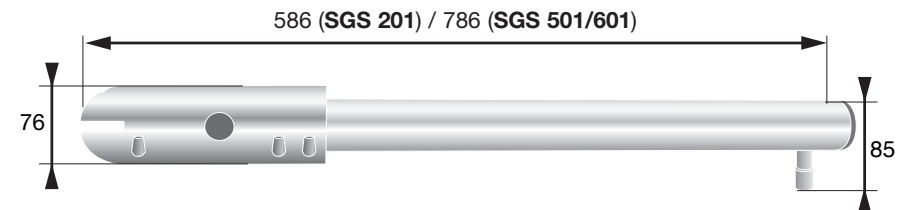
The width of each gate leaf must be within 1 m and "W", inclusive.

### ● Minimum clearance, open gate (in mm)



D = 300 (SGS 201)  
D = 400 (SGS 501/601)

### ● Overall size (in mm)



## Preliminary operations

### Points to be checked before installing

#### ● Checking your gate

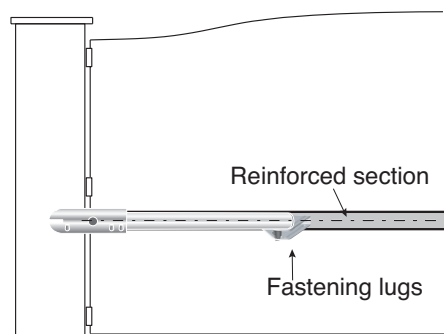
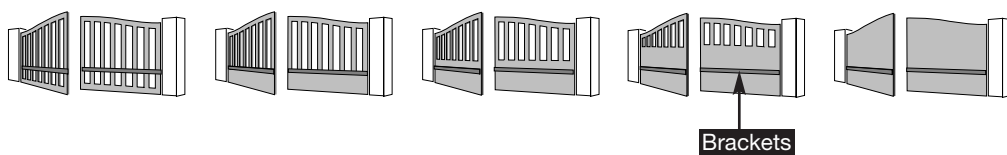
Your gate is in good condition: It will open and close normally without being forced. It remains horizontal as it is swinging open/closed and opens inward.

#### ● Types of gates able to be motorised

(Please follow installation reference tables on pages 7 and 18).

SGS 201: iron gates only.

SGS 501/601: all types of gates (incl. iron, aluminium, and PVC).



#### ● Brackets located on the gate

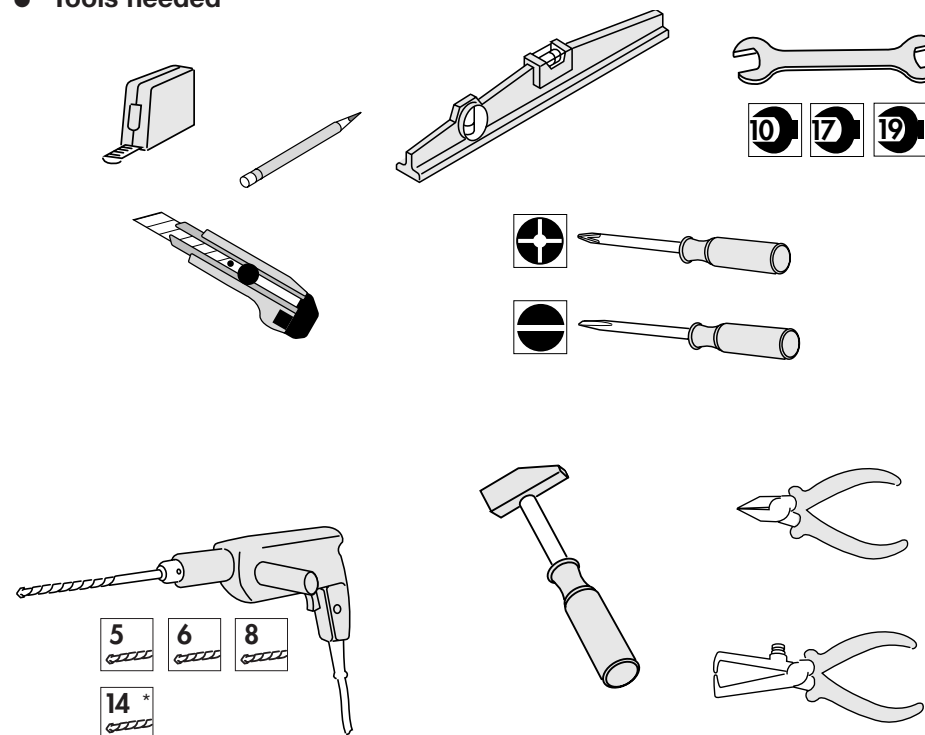
The fastening lugs for the motor drive's arms must be mounted reinforced support section of the gate leaf.

#### ● Checking the gateposts

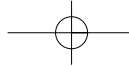
The gateposts must be sturdy and at least 40 cm wide. Otherwise, your gateposts may need servicing to ensure that they are firmly set in the ground and that the angle bracket is securely fastened.

## Preliminary operations

### ● Tools needed



\*for chemical anchors with M10 screws.

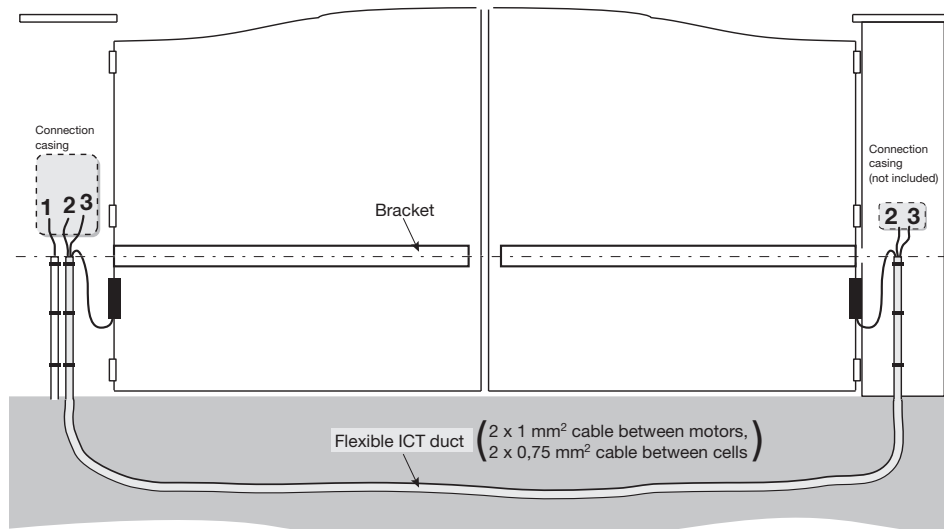


## Preliminary operations

### ■ Electrical pre-wiring

To motorise your gate:

- Install a 230 V electric supply on one of the gateposts, as near as possible to the SGS motor.
- Interconnect the gateposts using the 2 x 1 mm<sup>2</sup> cable provided (or two cables for photocells).  
Use a 25 mm diameter Orange ICT protective sheath for burying the cables.  
If you cannot dig a cable trench between the two gateposts, use a raceway that will bear the weight of vehicles passing over it (ref. 2400484).
- Provide a ducted connection between the two gateposts to wire the photocells.



- 1** Power input from mains: (3 x 1.5 mm<sup>2</sup>)
- 2** 24-volt connection between the two motors provided: (2 x 1 mm<sup>2</sup>)
- 3** 24-volt connection between the two cells for automatic operation: (2 x 0.75 mm<sup>2</sup>)

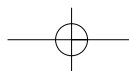
### ● Mains power

To operate, the gate opener must be powered at 230 V - 50 Hz.

The electrical wire must be:

- Used only for the gate opener
- Protected:
  - by a 10A-rated fuse or circuit breaker,
  - using a differential device (30 mA).
- Installed in compliance with electrical safety standards in force locally. An all-pole power disconnection means must be provided:
- or a switch which keeps the contacts at least 3 mm apart at each pole (see standard EN 60335-1).

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



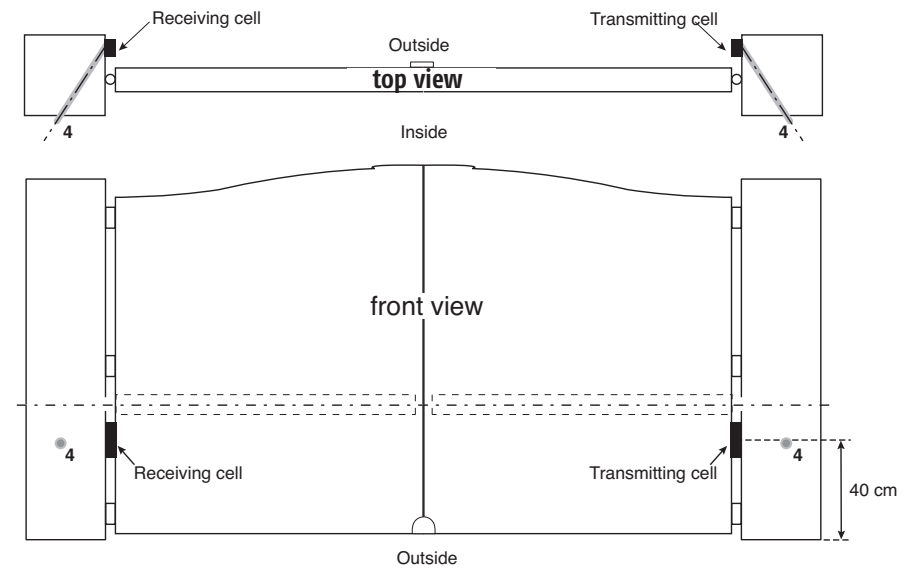
## Preliminary operations

### ● Photocells

Available as an option with SGS 201 and SGS 501, supplied with SGS 601. The photocells are necessary for automatic-mode operation and for gates opening onto the public highway.

#### • Wiring the photocells (see page 15)

- The 24-V input and information received from the contacts (receiving cell) must be under the cells.
- Drill the gateposts to pass the ducts through them.

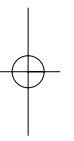


- 4** Running a duct into the gateposts

### ■ Safety instructions

These safety instructions must be followed throughout the whole installation process:

- Remove your jewellery (including bracelets and chains) during installation.
- When drilling and soldering, wear special goggles and appropriate protection.
- Use appropriate tools, as specified on page 5.
- Handle the motorisation system with caution to avoid injury.
- Do not connect the motor to the mains or the (optional) backup battery until the mounting process has been completed.
- Never use a high-pressure water flow rate for cleaning.



# 1 Preparing and drilling gateposts

## Steps:

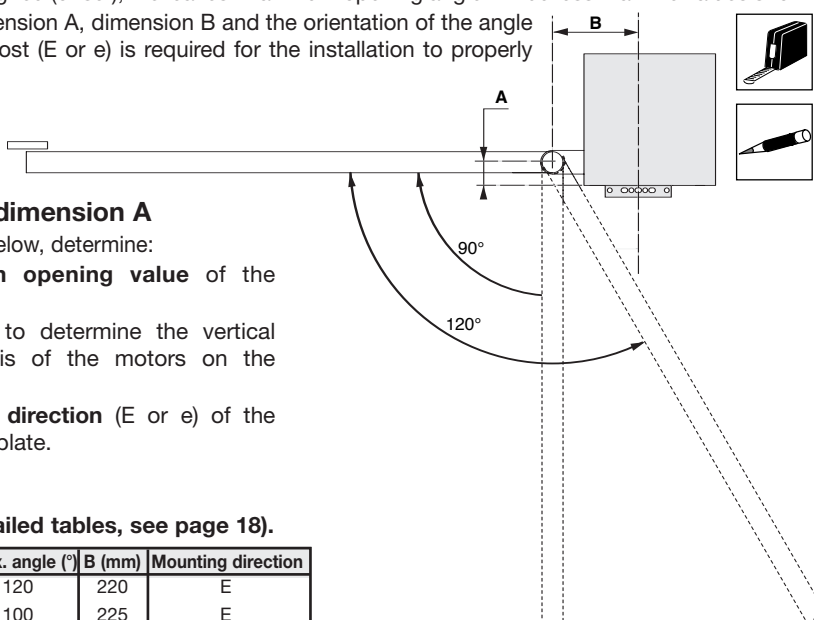
- Dimension measurement.
- Marking the AM and AH baselines.
- Drilling the gateposts.

### Dimension measurement.

The type of gate determines where the motors are to be placed. Measure the dimensions described below to determine their position on the gateposts:

For these measurements, the leaves and their hinges are assumed to be on the same axis. If the hinges are not aligned (offset), the leaves' maximum opening angle will be less than the values shown.

Determining dimension A, dimension B and the orientation of the angle bracket on the post (E or e) is required for the installation to properly function.



### ● Measure dimension A

Using the table below, determine:

- the **maximum opening value** of the leaves,
- **dimension B** to determine the vertical positioning axis of the motors on the gateposts.
- the **mounting direction** (E or e) of the arm-fastening plate.

### SGS 201 :

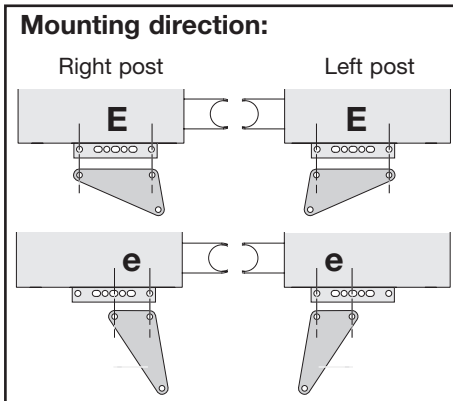
(\* For more detailed tables, see page 18).

A (mm)*	max. angle (°)	B (mm)	Mounting direction
from 0 to 20	120	220	E
from 0 to 20	100	225	E
0	90	235	e
from 30 to 40	90	200	e
from 70 to 80	90	200	E
from 110 to 120	90	160	E

### SGS 501 / 601 :

(\* For more detailed tables, see page 18).

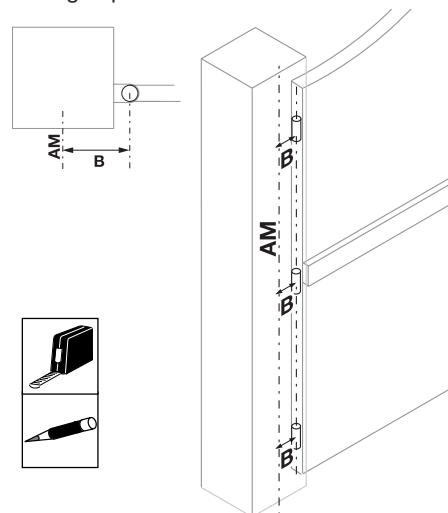
A (mm)*	max. angle (°)	B (mm)	Mounting direction
from 0 to 20	120	305	E
from 0 to 20	100	305	E
0	90	315	e
from 40 to 50	90	285	e
from 90 to 100	90	280	E
from 140 to 150	90	250	E
from 190 to 200	90	205	E



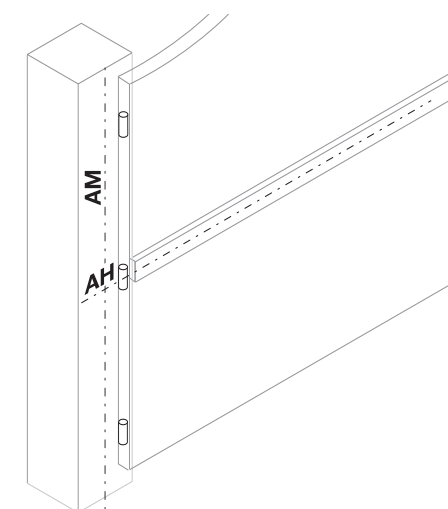
# 1 Preparing and drilling gateposts

## Marking the AM and AH baselines.

- 1 Carry dimension B over and trace a vertical baseline (AM) onto the gateposts.

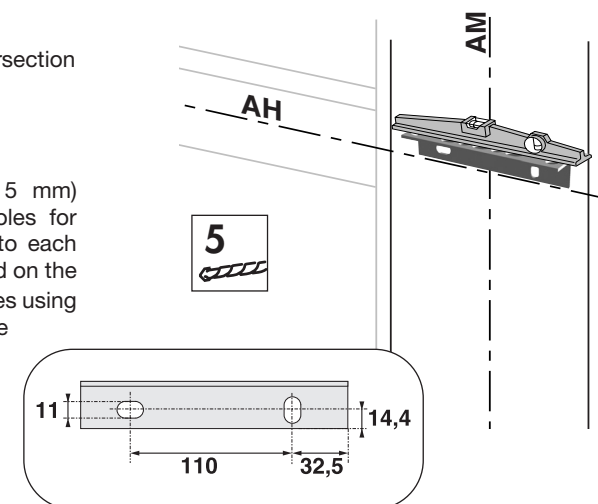


- 2 Trace the horizontal line (AH) onto the post, halfway up the bracket.



## Drilling the gateposts.

- 1 Position the template at the intersection of baselines AM and AH.
- 2 Using a small-diameter (4 or 5 mm) concrete drill bit, pre-drill 2 holes for filling with chemical sealants into each gatepost, in the positions marked on the template. Finish drilling the 2 holes using a concrete drill bit whose diameter corresponds to the chemical sealants.



**! Take care to follow the recommendations in the instructions provided with the chemical sealants when determining the drilling method and diameters.**

## 2 Installing the arms

### ■ Steps:

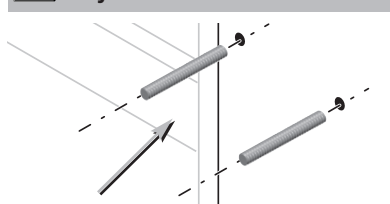
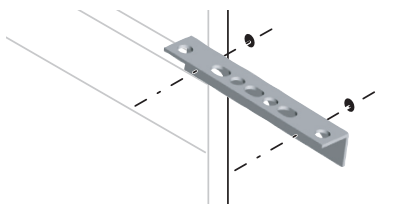
- Applying the sealants.
- Fastening the bracket (1) onto the gatepost.
- Mounting the arm fastening plate (2) onto the bracket (1).
- Mounting the arm (4) onto the arm fastening plate (2).
- Mounting the gate fastening lug (8).
- Attaching/detaching the arm.

### Applying the sealants.

For reliability, SOMFY advises that you fasten the angle bracket (1) to the gatepost using a chemical sealant.

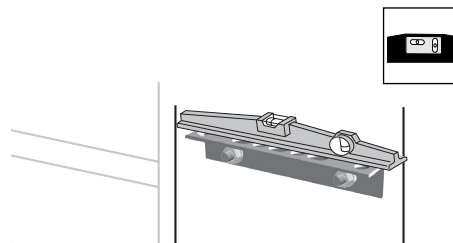
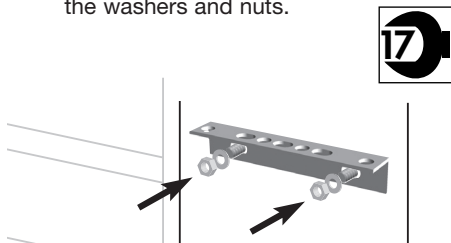
- 1** Position the angle bracket (1) onto the gatepost and check that all mounting holes are perfectly aligned with the holes drilled into the gateposts.
- 2** Remove the bracket. Place the 2 chemical sealants and their threaded rods into the holes drilled in the posts.

**!** Wait for the chemical sealants to fully harden.



### Fastening the bracket (1) onto the gatepost.

- 1** Position the angle bracket (1) while fastening it to the threaded rods using the washers and nuts.
- 2** Check the height level of the brackets. If necessary, continue fastening.



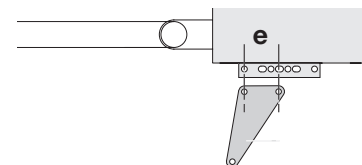
### Self-check before the next step

Did you check that the arms are perfectly level?

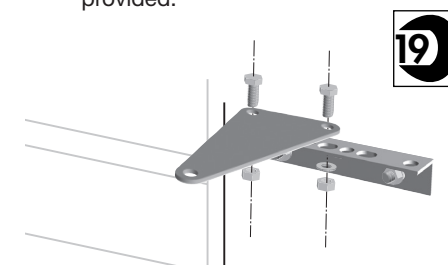
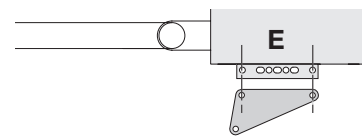
## 2 Installing the arms

### Mounting the arm fastening plate (2) onto the bracket (1).

- 1** Position the arm fastening plate (2) onto the bracket (1) mounted in either the "e" or "E" orientation as determined above.
- 2** Assemble the arm fastening plate (2) on the bracket (1), fastening it using the screws, washers, and nuts (3) provided.

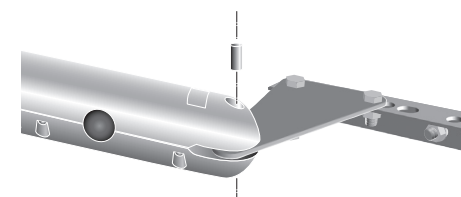


**!** Position the arm fastening bracket into the hole which is the closest to the hinge.



### Mounting the arm (4) onto the arm fastening plate (2).

- 1** Mount the arm (4) onto the arm fastening plate (2) while holding the axle (5) in place using the lock ring. Lubricate.





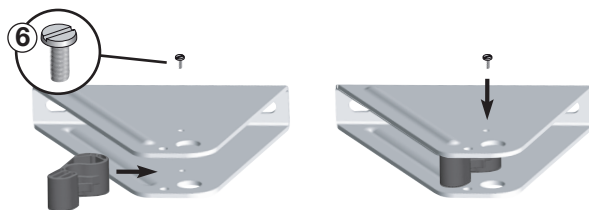
## 2 Installing the arms

- Mounting the gate fastening lug (8).

**!** Never operate the device's arm before you have finished mounting it onto the gate section. Otherwise, the internal stop will be incorrectly adjusted and malfunctions may result. The arms are delivered (in their default position) with their internal gate-closing stops in place.

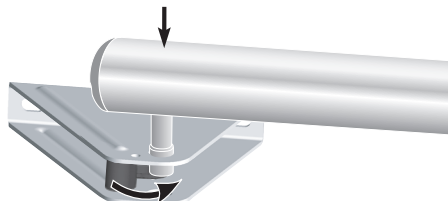
Mounting it onto the gateway requires drilling the gates. Perform the following steps:

- 1 Screw (6) the unlocking mechanism (7) onto the gate fastening lug (8).

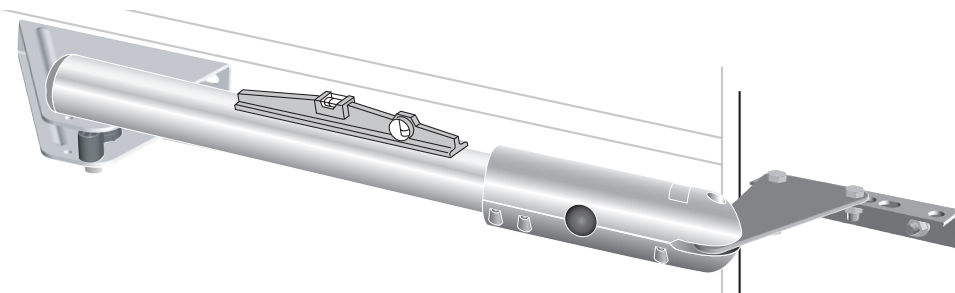


**!** To ensure that the unlocking mechanism works properly, please follow the mounting direction shown in the diagram. Do not screw it in from below.

- 2 Mount the gate fastening lug (8) onto the drive rod. Clip the unlocking mechanism (7) onto the drive rod in order to hold it in place.



- 3 Check that the arm is level.



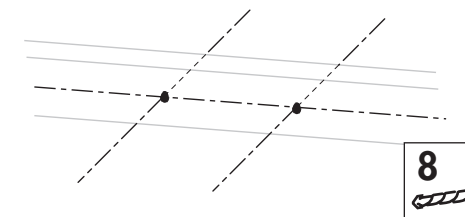
## 2 Installing the arms

- 4 Through the angle bracket, mark the holes to be drilled for mounting the lug onto the gate's own bracket.

**!** This step must be done with the gate closed, while pressing on the ground stop, and with the arm on its internal stop.

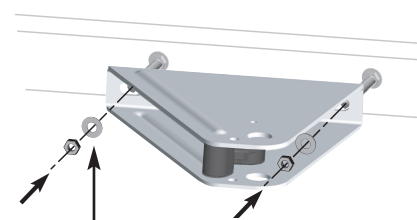


- 5 Drill the gates using an 8mm drill bit.

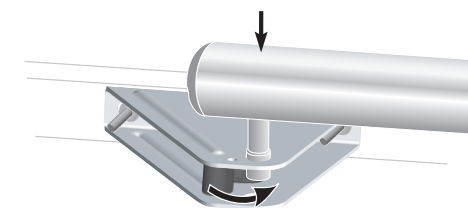


- 6 Remove the arm from the gate fastening lug. Mount the gate fastening lug onto both points on the gates using screws appropriate for the material of the bracket and the washers provided. Install the arm. Clip the unlocking mechanism onto the drive rod in order to fix it in place.

**!** The 3<sup>rd</sup> fastening hole will not be drilled until after the arm's path has been set.



The washer (9) provided must be mounted.



### Self-check before the next step

Did you check that the arms are perfectly level?

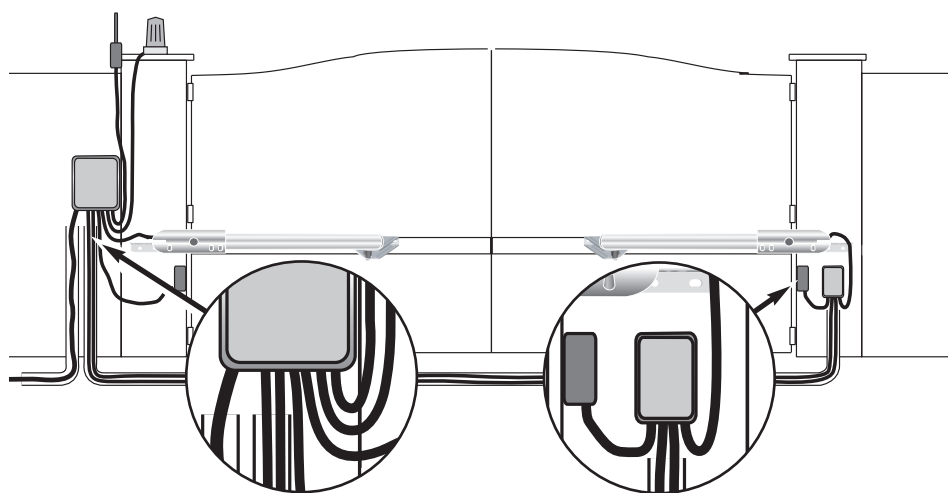
### 3 Electrical connections

■ **Steps:**

- ❑ Positioning the electric housing on the gatepost.
- ❑ Attach the electric housing to the gatepost.
- ❑ Connecting the two arms.
- ❑ Connecting the antenna.
- ❑ Connecting the mains power cord.

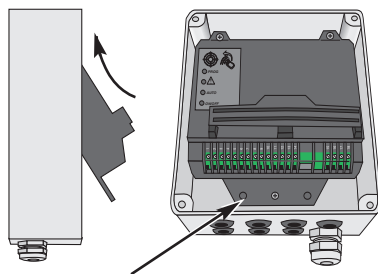
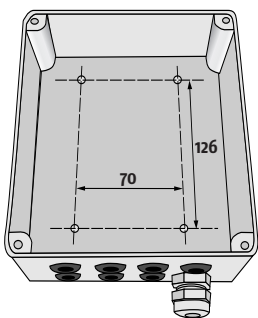
❑ Positioning the electric housing on the gatepost.

The housing is to be mounted on the same side as the power supply feed.



❑ Attaching the electric housing to the gatepost.

- 1 Place the housing (preferably more than one metre from the ground) against the gatepost, and use it as a template for drilling the mounting holes:
- 2 Slide the electronics into the housing. They will need to be forced slightly to fit inside. Secure them in place using the enclosed mounting screw:



The housing is to be mounted with the gland facing down.  
The cables extend from the bottom (as shown in the illustration).

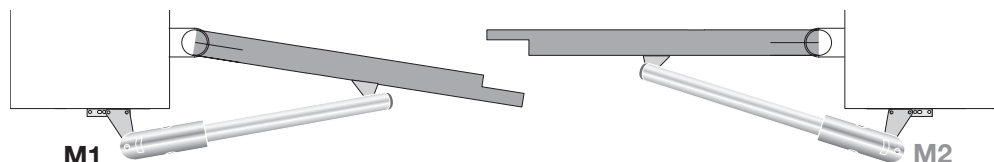
### 3 Electrical connections

❑ Connecting the two arms.

The arms must each be connected to the electrical housing before the electrical housing is connected to the mains.

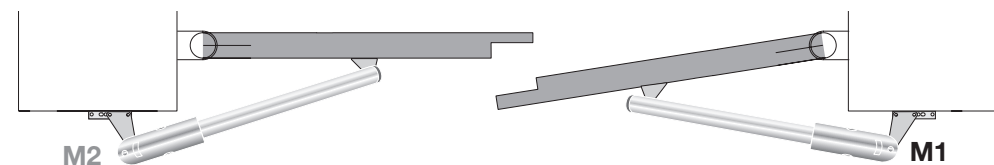
**The arm installed on the gatepost of the gate which opens first and closes last is arm M1.**

Figure 1 :



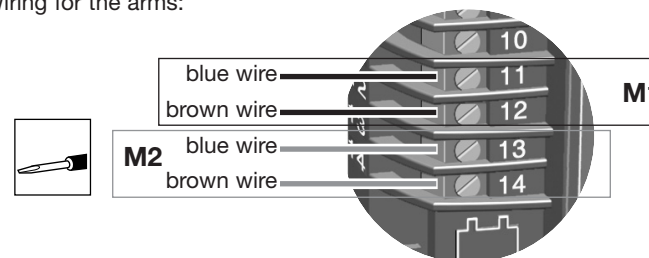
Arm M1 moves **the left gate, which opens first and closes last.**

Figure 2 :



Arm M1 moves **the right gate, which opens first and closes last.**

Wiring for the arms:



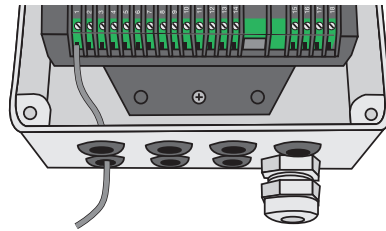
**! Arm M1 is always connected between terminals 11 and 12.  
Arm M2 is always connected between terminals 13 and 14.**

### 3 Electrical connections

❑ Connecting the aerial.

For best results, it is recommended that a grommet be used to lead the aerial wire out from the housing.

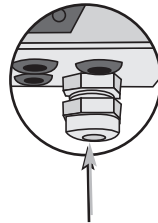
**⚠ Never cut the aerial wire.**



❑ Connecting the mains cable.

**⚠ For your safety, these steps should be performed with the power off.**

**1** Run the cable through the gland.

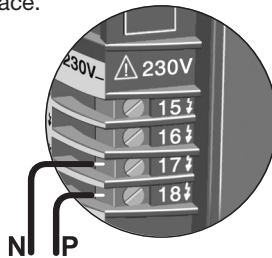


**2** Connect the earth wire.

An earth wire (green/yellow) must be used for certain accessories (230V Class I lighting).



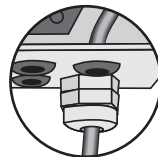
**3** Connect the phase to the neutral. Tug on the wires to check that they are firmly in place.



**⚠ It is vital to match the colours when connecting the cables.**

Blue wire	Neutral
Red/brown/black wire	Phase
Green/yellow wire	Earth

**4** Tighten the gland.  
Tug on the cable to check that it is firmly in place.



### 4 Settings

■ Steps:

- ❑ Symbols used.
- ❑ Programming the remote control memory.
- ❑ Adjusting the stops (SGS 501 and 601).
- ❑ Programming the leaves' travel.
- ❑ Setting the automatic mode.
- ❑ Switching from automatic mode to sequential mode.
- ❑ Confirming adjustments.

❑ Symbols used.

<b>Long press</b> longer than 0.5 seconds	↓
<b>Short press</b> less than 0.5 seconds	↕

<b>LED blinking</b>	◐
<b>LED on</b>	○

❑ Programming the remote control memory.

Before starting to configure your installation, check that the ON/OFF and PROG LEDs are on and that ⚠ DANGER is not. Complete the following steps:

● Operating the remote controls

Your SGS can work with one or more remote controls. The operations described below should be repeated once for each remote control you wish to program.

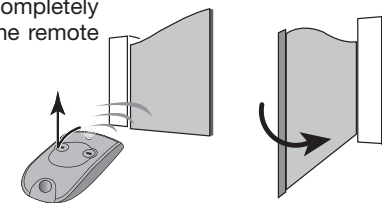
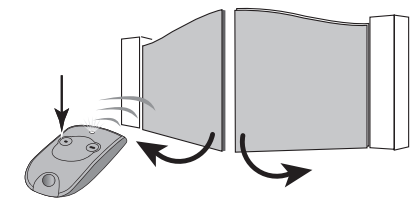
Your SGS has two operating modes:

**Complete opening only**

Both leaves systematically open completely with either a short or long press on the remote control.

**Pedestrian or complete opening**

A single leaf opens to allow pedestrians access with a short press on the remote control. The two leaves open completely with a long press on the remote control.




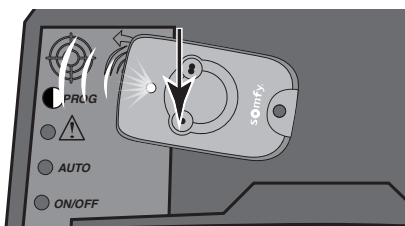
## 4 Settings

### ● Programming the remote control memory for complete opening only:

Choose the remote control button you want to use to control your gate.

Place the remote on the crosshairs inscribed on the casing:



- 1 Hold down the button to be memorised until the **PROG** LED blinks slowly (the **DANGER**  LED will come on while the button is being held).
- 2 Release the button. It is now memorised.

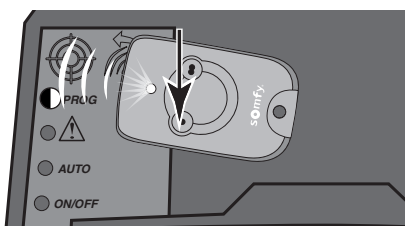



### ● Programming the remote control memory for pedestrian or complete opening:

Choose the remote control button you want to use to control your gate.

Place the remote on the crosshairs inscribed on the casing:

- 1 Hold down the button to be memorised until the **PROG** LED blinks slowly (the **DANGER**  LED will come on while the button is being held).
- 2 Release the button.
- 3 Within 10 seconds, press again on the button to be memorised until the **PROG** LED blinks slowly (the **DANGER**  LED will come on while the button is being held).
- 4 Release the button. It is now memorised.



 Once the programming cycle is complete, only the **PROG** and **ON/OFF** LEDs will be lit, with the electronics on standby to record the leaves' travel.

### ● Changing the operating mode for already-programmed remote controls:

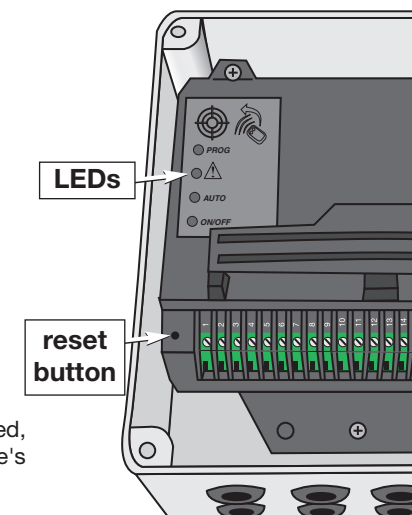
To switch a remote control from “**complete opening only**” mode to “**pedestrian or complete opening**”, mode, simply carry out the “**Programming remote controls for pedestrian or complete opening**” operation explained above. The latest programming overwrites the previous memorised mode. To switch a remote control from “**pedestrian or complete opening**” mode to “**complete opening only**”, mode, simply use the “**Programming remote controls for full opening only**” operation explained above. The latest programming overwrites the previous memorised mode.

## 4 Settings

### ● Deprogramming remote controls



- 1 • Press the reset button and hold it for 7 seconds.  
> As you do, all four LEDs will come on.
- 2 • Release the reset button.  
> All four LEDs will go off for two seconds.  
> The **ON/OFF** LED will come on again.  
> The **PROG** LED will come on again.

All settings that have been recorded are deleted, including remote controls programmed, the gate's travel and the operating mode.



### ● Subsequent adding of remote controls

Repeat the steps given in “**Programming remote controls**” (see opposite).

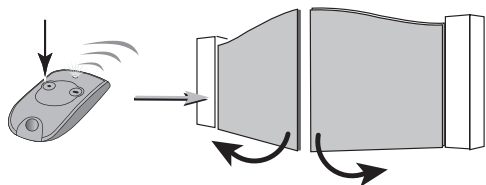
-  **Over and above 16 transmitters, programming will fail. Delete all controls (see above) and reprogramme.**
-  **Programming a new remote control cancels the previous programmed gate travel. Start “Learning the leaves' travel” again (see page 13).**

## 4 Settings

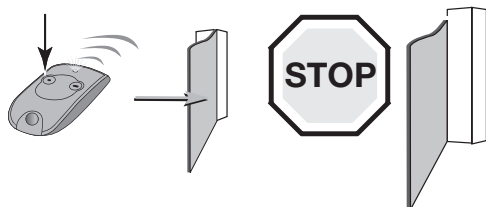
### □ Adjusting the opening stops (SGS 501 and 601).

During this phase, the programmed remote's button operates in sequential mode. (button-pressing cycle = open/stop/close/stop/open, etc.) Therefore, it is possible to adjust the degree to which the gates open, as desired.

- 1 • Hold down the button on the remote control.
  - > After a few seconds, the gates will slowly open.
  - \* If the gates do not open properly, check that the arms are correctly wired as shown on page 14.

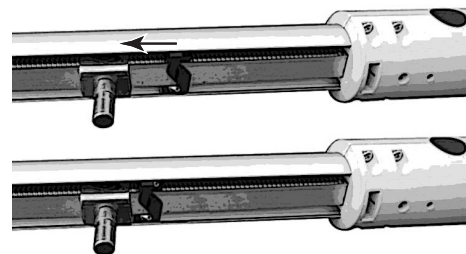


- 2 • Press the remote control button again to stop the first gate in the desired position.



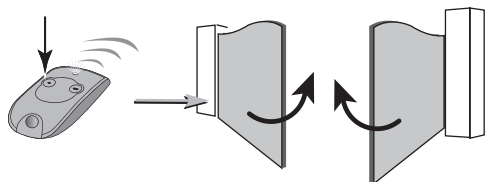
- 3 • Position the stop in contact with the motor's drive rod.
  - Screw in the stop using the hex key provided (2 screws per stop).

**⚠ Turn the key 3 times after contact.**



- 4 • Position the second gate and fasten the second stop

- 5 • Use the remote to fully close the gates again.



**⚠ For the SGS 201, the opening stop is not adjustable. The motor shuts off automatically on its internal stop. To stop the gates before they reach that point, you will need to place a stop on the ground (not included).**

## 4 Settings

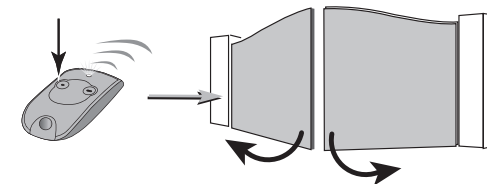
### □ Learning the leaves' travel

Somfy's electronics automatically memorise:

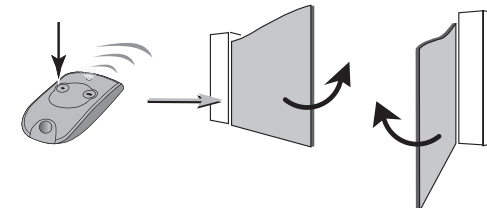
- The motor torque needed to control the gates when operating normally. This programming subsequently enables any abnormal strain on the motorisation to be detected.
- The travel required for the complete opening and closing of the leaves with location marking of the stops.

To begin the programming process, **the leaves must be closed**. Keep at a normal distance from the gate and follow the steps below:

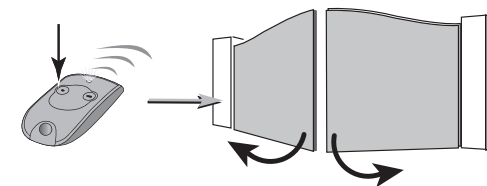
- 1 • Make a long press on the remote control button.
  - > After a few seconds, the gates will slowly open.
  - \* If the gate does not open correctly, check that the motors are wired as shown on the following page.



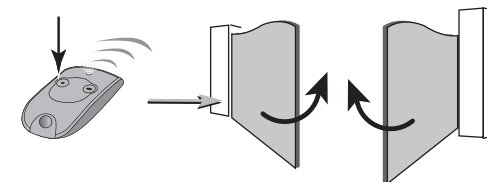
- 2 • Once the gate is open, make another long press on the remote control button.
  - > The gate closes, one leaf after the other.



- 3 • Press the same button again.
  - > The gates open, still at a slow speed.



- 4 • Press the button one last time.
  - > The two leaves will close almost simultaneously.



**⚠ Once these 4 steps have been completed, the PROG LED goes off, indicating the end of the operations to programme the gate's travel path. This must be a full cycle (2 complete and uninterrupted openings/closings). If it is interrupted, the process is simply postponed, and will resume the next time the gates are opened.**

## 4 Settings

### ● Checking that settings are correct

- 1 Make a long press on the remote control.
- 2 Press the button again so that both leaves stop midway through their travel.
- 3 Cut mains power for at least 5 seconds.
- 4 Restore mains power.
- 5 Make another long press on the remote control.

The leaves **MUST** continue in the opening direction.

### If the leaf does not open correctly:

- The leaf which moves first (controlled by M1) starts to close  
 → Invert wires A and B on motor M1.
- The gate which moves second (controlled by M2) starts to close  
 → Invert wires A and B on motor M2.

After inverting the wiring on one or two motors, the leaf travel learning procedure will have to be carried out again.

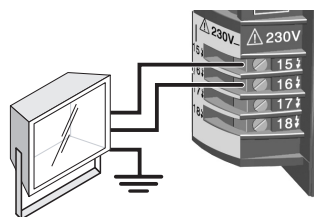
To do this, the remote control programming process must be started again (see page 12).

### □ Automatic mode settings.


### ● Usage precautions

To use your gate in automatic mode, standard EN 12453 requires that the following accessories be installed. Your SGS is designed to be connected to them.

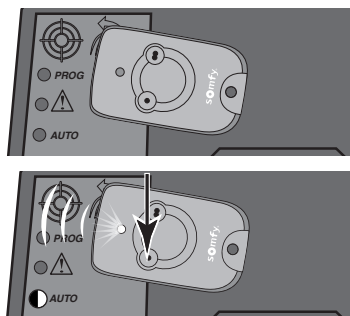
- a set of photocells (see description and wiring on page 16),
- an orange LED (see description and wiring on page 17),
- zone lighting



### ● Automatic mode

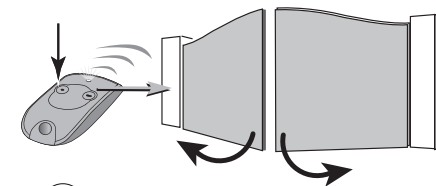
After opening, the gates close again automatically after a preset length of time.   
 Automatic mode will function after the cells have been wired and configured as below:

- 1 Place a remote control on the crosshairs inscribed on the motor unit's casing:  
 > The **AUTO** is off.
- 2 Make a long press on the remote control button until the **AUTO** LED comes on. Release the button.  
 > The **AUTO** LED blinks.

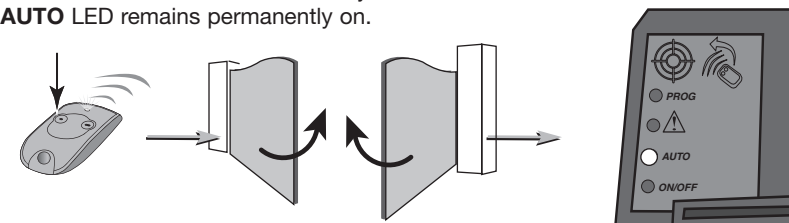


## 4 Settings

- 3 Use the remote control (at a normal distance) to open the gate.  
 > The gate opens at nominal speed.



- 4 Once the gate is completely open:  
 - Wait the length of the desired time delay.  
 - Make a new press (short or long) on the remote control to order closing  
 > Both leaves close almost simultaneously.  
 > The **AUTO** LED remains permanently on.



Automatic mode is now operational.

### □ Switching from automatic to sequential mode.


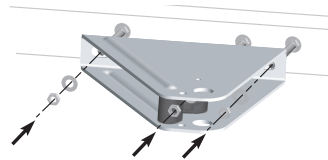
To return to sequential mode (the **AUTO** LED is on):

- Place the remote control on the crosshairs inscribed on the motor unit casing.
- Press a button on the remote control and hold it until the **AUTO** light turns off.  
 > Sequential mode is active.



### □ Confirming adjustments.

After completing one cycle without difficulties, secure it mechanically by firmly setting the gate lug in place, using the 3rd hole:

- 1 Mark the centre point. Fasten bracket. Drill the gates using 6 mm drill bit. 
- 2 Fasten the bracket. Reinstall the arm. 



### Self-check before the next step

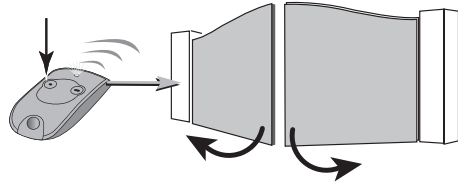
Check that when the gates close, they do not re-open.

## Usage

### ■ Operation in sequential mode

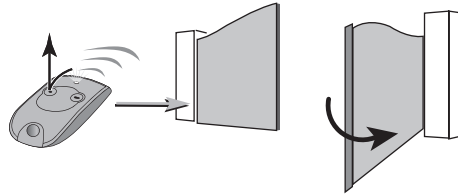
#### ● Complete opening

- Make a long press on the remote control.
  - > Both leaves should open.
- A new press (short or long) controls the closing of the leaves.



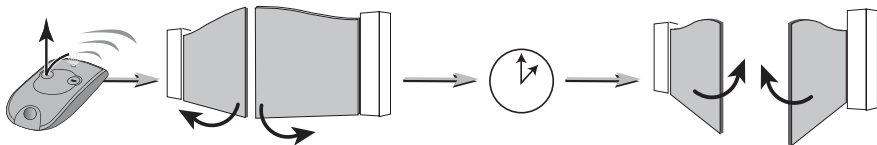
#### ● Pedestrian opening (if programmed)

- Make a short press on the remote control.
  - > Only the overlapping leaf should open.
- A new press (short or long) controls the closing of the leaves.

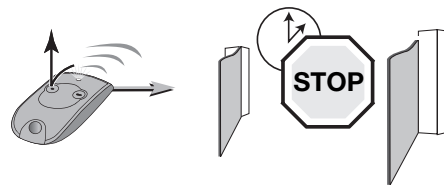


### ■ Operation in automatic mode

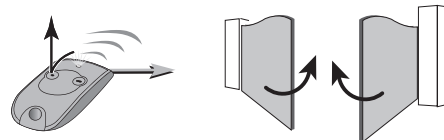
In automatic mode, pressing the key on the remote control causes the gate to open. It will close automatically after the pre-set time delay.



The gate may be kept open with a short press on the remote control button during the time delay.



Pressing the remote control button again causes the gates to close.



### ■ Operating the lighting

The zone lighting comes on each time the gates are activated. They go off automatically 2 minutes after movement has ended.

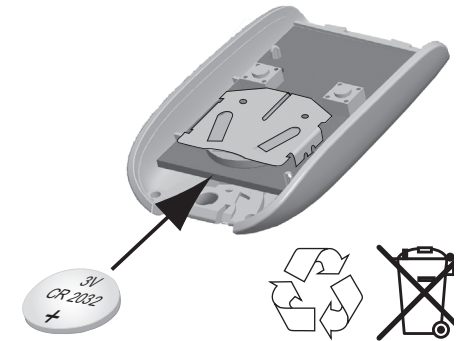
## Usage

### ■ Changing the battery

- Remove the clip from the remote control and lift off the cover.
- Remove the battery with a screwdriver and replace it (3V CR 2430 or 3V CR2032).

Battery life is generally 2 years.

Used batteries are to be returned to the distributor or discarded in a waste reception/sorting centre.



### ■ Using the remote control

If your vehicle has air conditioning and a metal-coated windscreen, aim the remote control at the windscreen's black strip or through one of the untreated side windows.

### ■ Customising remote controls

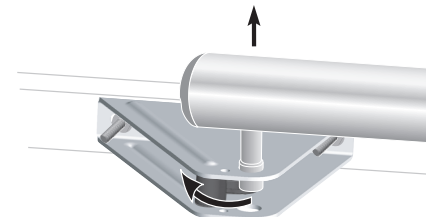
The coloured clips provided enable the remote controls to be customised.

### ■ Attaching/detaching the arm.

**!** For your safety, these steps should be performed with the power off. Even if mains power is cut, power may be restored at any moment.

- 1 If mains power is cut, the gate may be opened:
  - using the backup battery, see page 17;
  - by mechanically removing the arm.

Unlock the drive rod by pivoting the unlocking mechanism. Pull the arm upwards to remove the drive rod from the gate fastening section.




- 2 To safely mount the arm, use a padlock (not included) to keep the unlocking mechanism from locking.



## Troubleshooting

### ■ SGS is not responding to remote control commands

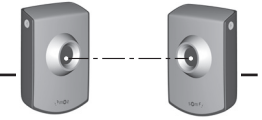
- **The ON/OFF LED does not light up when energised.**
  - Check the mains power.
  - Check the power supply cable.
  - Check the fuse.
- **The DANGER LED  remains on permanently. This signal indicates a photocell defect.**
  - Check the alignment of the photocells.
  - Check the photocells' power supply.
  - Check the presence of photocells in automatic mode.
- **The ON/OFF LED blinks slowly.**
  - Power malfunction: Call the hotline.
  - Load too heavy: Too much wind or gate too heavy.
- **The ON/OFF LED blinks quickly.**
  - Motor overheated: Wait for it to cool down.
  - Short-circuit at motor output/outputs: Call the hotline.
- **Arms M1 and M2 are not moving or are moving in the wrong direction.**
  - Check the connections to the electronics.
  - Check the cord between the two arms.
  - Check how the arms are wired, and reverse them if needed (see page 10).
- **The remote control's range has been lowered.**
  - Check the antenna wire.
  - Check the transmitter battery.
  - Environmental disturbance (such as electricity pylons or iron walls),
  - Provide for an outside antenna.
- **After closing, the gate reopens by itself.**
  - Move the gate fastening lug slightly away from the hinge using the oblong holes.
- **After opening, the gate closes by itself.**
  - Check how the arms are wired (see page 14).

### ■ Other problems

For all other problems or requests for information about your SGS, you can call our Somfy customer support technicians: 0113 391 3030 - Monday to Friday, 8:45 - 17:00.

## Accessories - Description and connections

### ■ Photocells 2400599



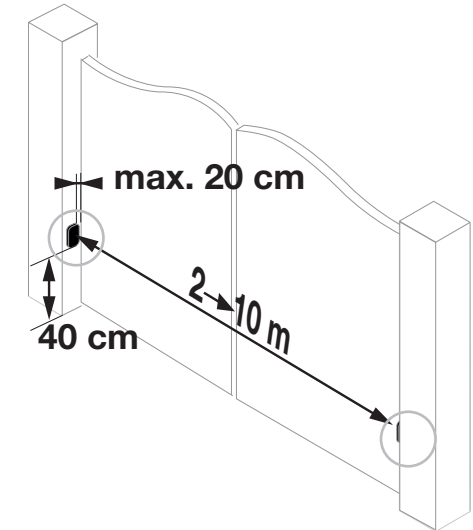
Photocells are used to halt or reverse the gate's movement if an obstacle is detected.

A set of photocells may be installed. Each set of photocells comprises:

- a transmitting cell (EC),
- a receiving cell (RC).

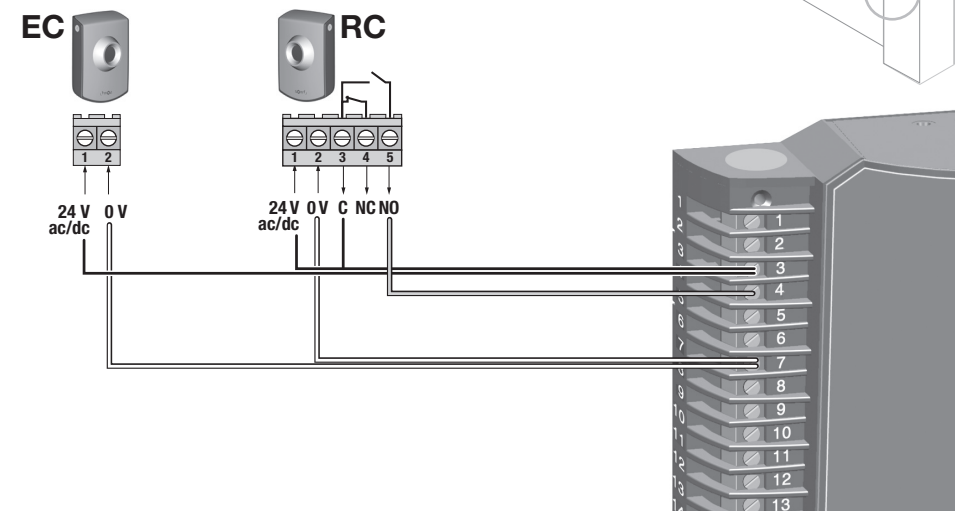
#### ● Placing the cells

In order to make wiring simpler, place the receiving cell on the gatepost where the electronic motor is installed.



 **Before plugging in the cells, remove the shunt found between terminals 3 and 4 in the electronic box.**

#### ● Wiring diagram for a set of photocells



 **For the photocells to work as well as possible, their covers should be adjusted.**

#### ● Safety instruction

The cells must be checked every 6 months to make sure they are in good working order. To do so, cover one cell with your hand as the gates close. **They should stop closing.**



## Accessories - Description and connections

### ■ Backup battery

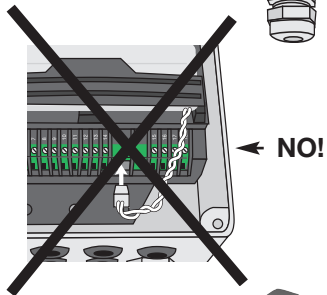
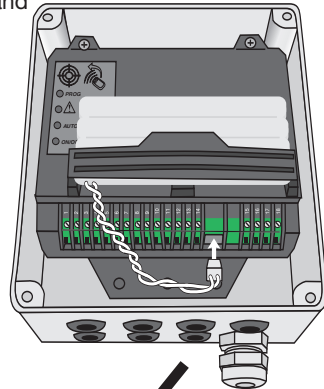
2400720



The backup battery ensures that the gate will operate in the event of an electric failure, albeit at slow speed. It is connected and integrated directly into the motor's electronic housing.

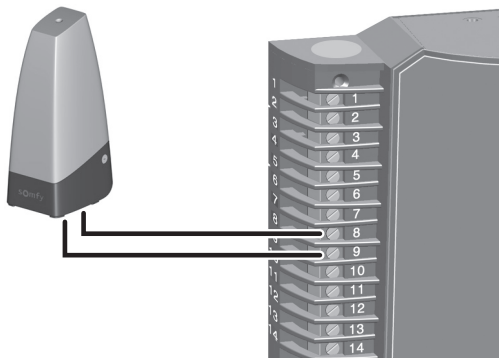
**Warning:** Do not run the battery cable over the mains power supply.

- Endurance: 10 continuous cycles or 24 hours on a gate in perfect condition.
- Charge time before optimum battery use: 48 hours.
- Battery life: 3 years.  
For best possible battery life, cut the electric power to your gate 3 times a year in order to run the battery for a few cycles.



### ■ Orange LED

2400596

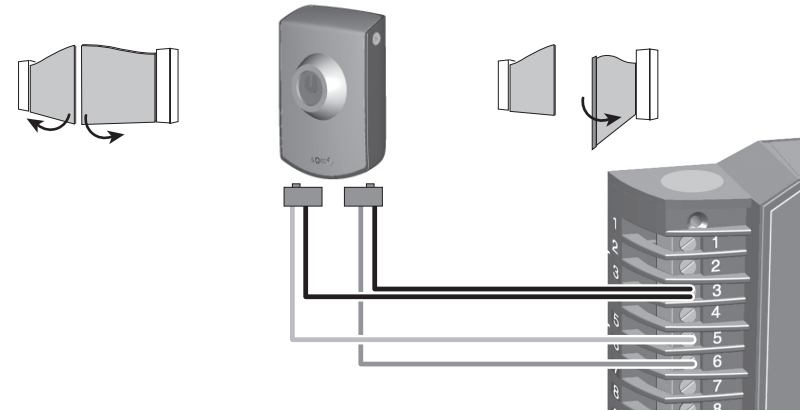
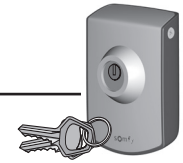


The orange LED signals the activation of the motorisation mechanisms. It starts blinking two seconds before the gate begins to move.

## Accessories - Description and connections

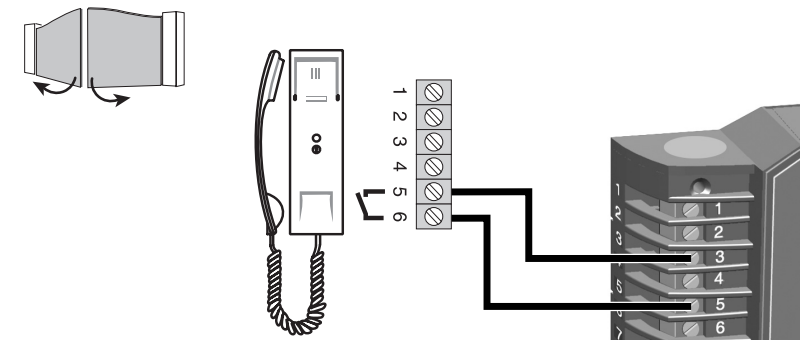
### ■ Key switch

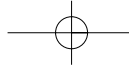
2400597



### ■ Intercom

2400552

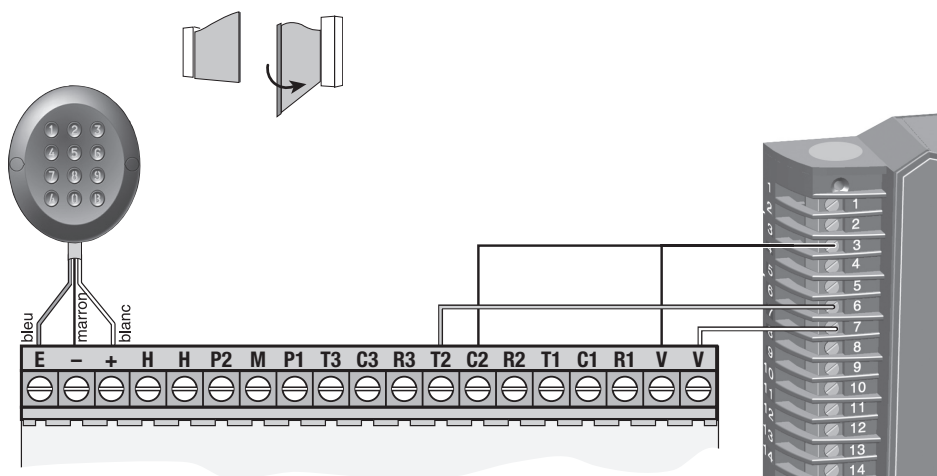
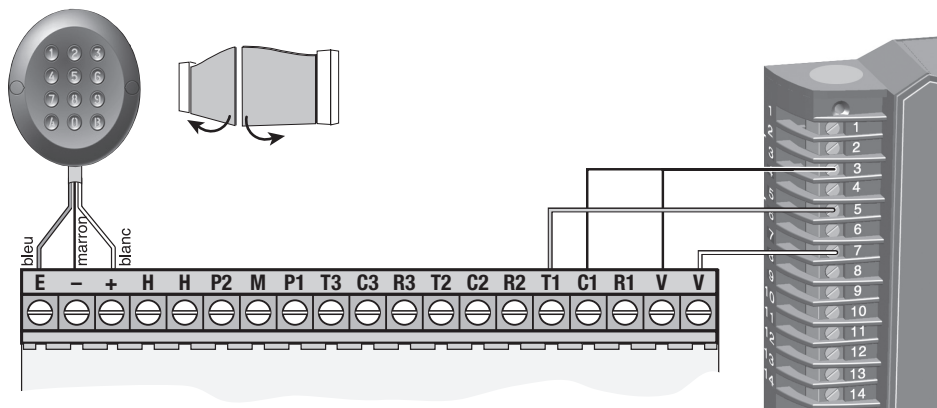




## Accessories - Description and connections

### ■ Wired keypad

2400581



## Accessories - Description and connections

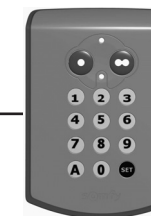
### ■ Radio wall switch

2400594



### ■ Radio keypad

2400625



### ■ 2-button remote control

2400549



### ■ 4-button remote control

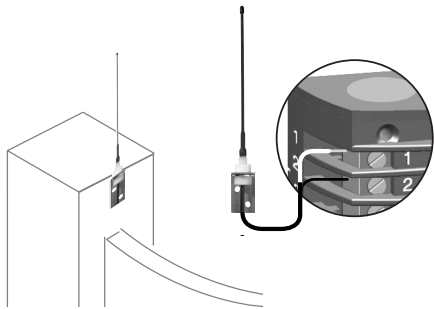
2400576



## Accessories - Description and connections

### Remote antenna

2400472



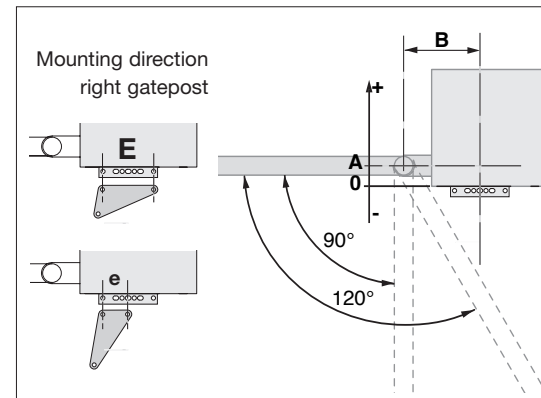
A wider-range remote antenna may be used to replace the wire antenna.

It is to be placed atop the gatepost, and must be unencumbered.

It is connected to the electronic box: the core of the wire into terminal 1, the grounding strand into terminal 2.

## Additional dimensions to be taken (p.6)

for determining how to position the arms on the gateposts.



### SGS 201 :

A (mm)	max angle (°)	B (mm)	Mounting direction
0	120	230	E
from 0 to 20	120	220	E
-30	110	230	e
from -30 to 0	110	210	e
0	110	225	E
from 0 to 20	110	225	E
-30	100	240	e
from -30 to 0	100	220	e
0	100	225	E
from 0 to 20	100	225	E
-30	90	240	e
from -30 to 0	90	235	e
0	90	235	e
from 0 to 10	90	230	e
from 10 to 20	90	220	e
from 20 to 30	90	210	e
from 30 to 40	90	200	e
from 40 to 50	90	225	E
from 50 to 60	90	220	E
from 60 to 70	90	210	E
from 70 to 80	90	200	E
from 80 to 90	90	190	E
from 90 to 100	90	180	E
from 100 to 110	90	170	E
from 110 to 120	90	160	E

### SGS 501 / 601 :

A (mm)	max angle (°)	B (mm)	Mounting direction
0	120	305	E
from 0 to 20	120	305	E
-30	110	325	e
from -30 to 0	110	315	e
0	110	315	e
from 0 to 20	110	310	e
-30	100	325	e
from -30 to 0	100	315	e
0	100	305	e
from 0 to 20	100	305	e
-30	90	315	e
from -30 to 0	90	315	e
0	90	315	e
from 0 to 10	90	305	e
from 10 to 20	90	305	e
from 20 to 30	90	295	e
from 30 to 40	90	295	e
from 40 to 50	90	285	e
from 50 to 60	90	275	e
from 60 to 70	90	300	E
from 70 to 80	90	290	E
from 80 to 90	90	290	E
from 90 to 100	90	280	E
from 100 to 110	90	280	E
from 110 to 120	90	270	E
from 120 to 130	90	260	E
from 130 to 140	90	250	E
from 140 to 150	90	250	E
from 150 to 160	90	240	E
from 160 to 170	90	230	E
from 170 to 180	90	220	E
from 180 to 190	90	215	E
from 190 to 200	90	205	E

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Usable in EU, CH  
Bruikbaar in EU, CH  
Utilizable en la UE, CH



We are constantly seeking to develop and improve our models, and therefore, we reserve the right to modify them at any time, in any way we may deem useful.

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