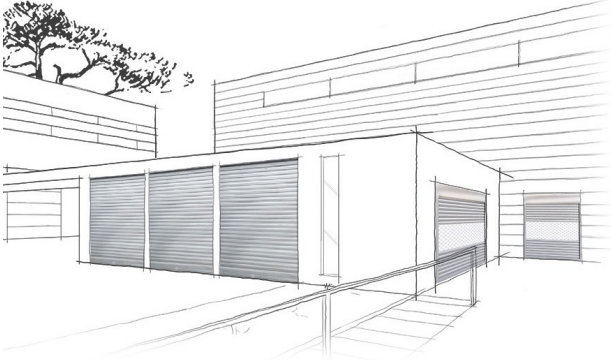


# Manual: No. 1031

## Connection & Programming

### Murax Shutters and Dentel grille



*Axial veoHz Operator*  
*(additional module)*



(Document reserved for installers)

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## Required equipment

- Pliers for cutting and stripping

- Cross-head screwdriver

# Technical characteristics

**End position:** Electronic system, with setting of parameters using a veoHz radio transmitter.

**Power supply:** 230 V - 50 Hz.

**Radio frequency:** 434 MHz.

**Safety of communications:** Encrypting of control commands + Rolling code.

**Number of transmitters:** 12 maximum.

**Range:** Within sight of the shutter and/or grille. Portable veoHz transmitters + or - 5 meters in open space.

**Operating temperature:** from -10°C to +40°C (exceptionally from -20°C to +60°C).

**Thermal break time:** 4 minutes.

**Protection class:** IPX4.

**Power cable:** White, 4 meters long, (stripped, bare and lugged).

**Release cable:** 6 meters long.

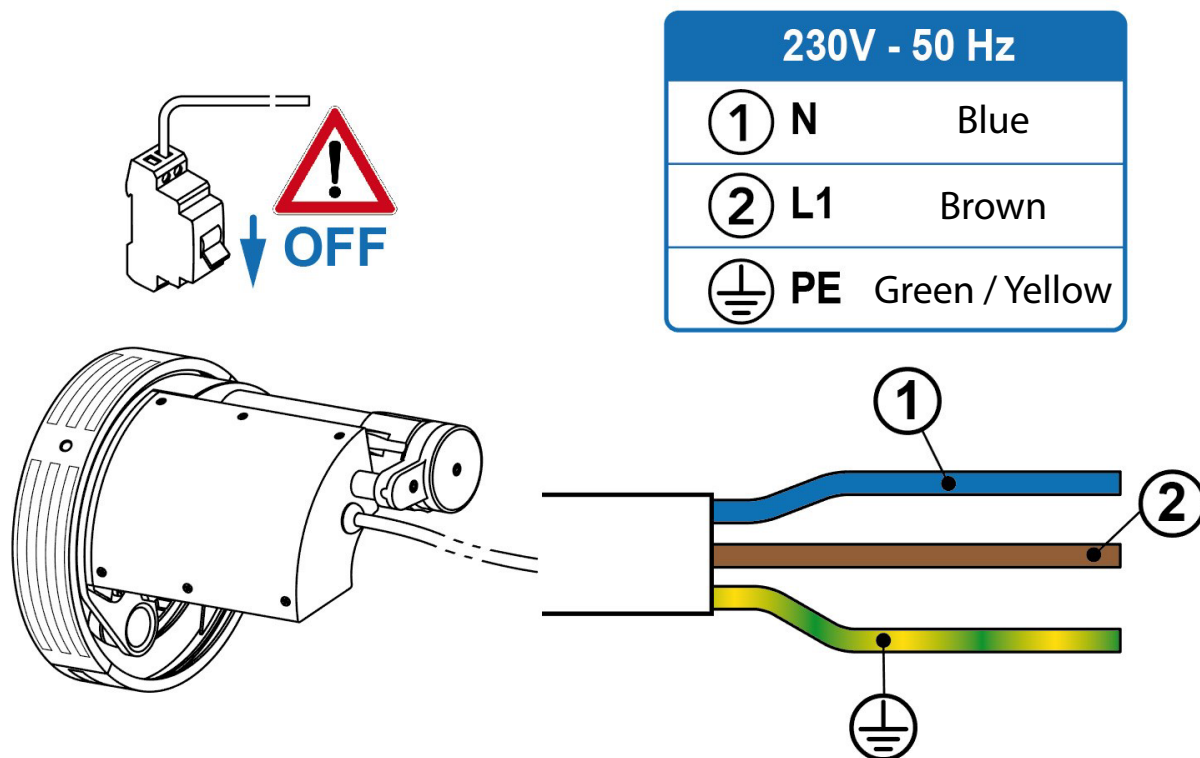
## Connection diagram

The electrical power supply must be installed in compliance with the current standards in force in the country where the product is installed;

The power line must only be connected to the motorization and must be equipped with suitable protection.

The power supply must be equipped with an omnipolar disconnection device:

- Either by using a power cable with a mains plug.
- Or by using a switch that ensures a distance between the contacts of at least **3 mm on each terminal** (refer to standard EN60335-1).
- **Install the connections with the power off.**
- Do not connect the motorization to a power supply (mains) before finishing the installation.



# Programming and confirming the 1st control point

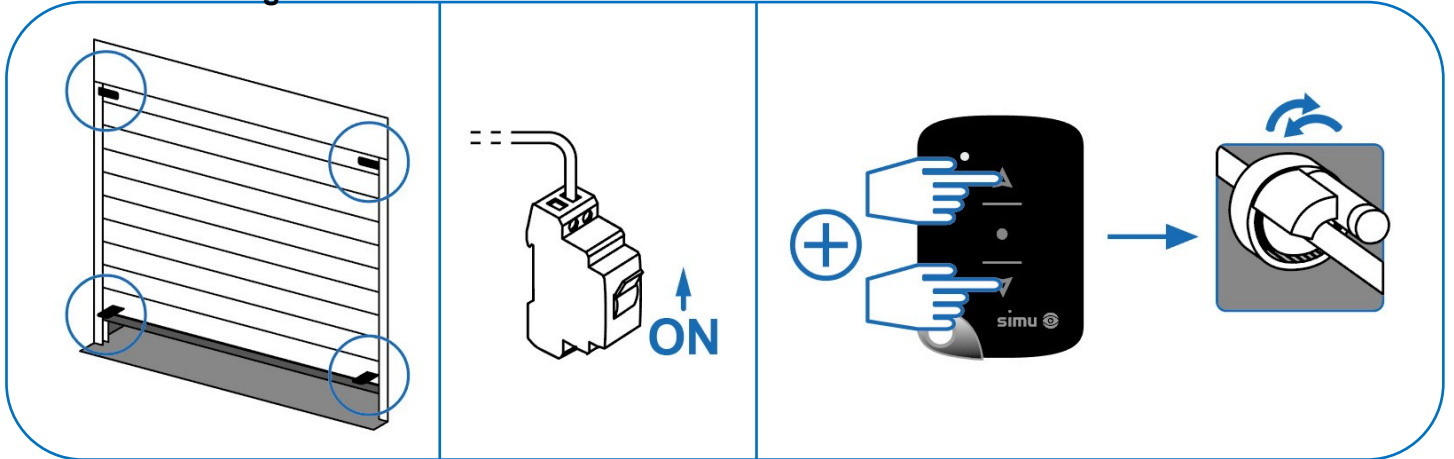
## Setting the end positions



All programming is carried out using the transmitter which controls the closure. It is obligatory to use the stops on the guiding rails and the stops of the end-slat.

**Important:** In the case of a power cut, if the 1st control point has not been confirmed, all the previously programmed settings will be lost.

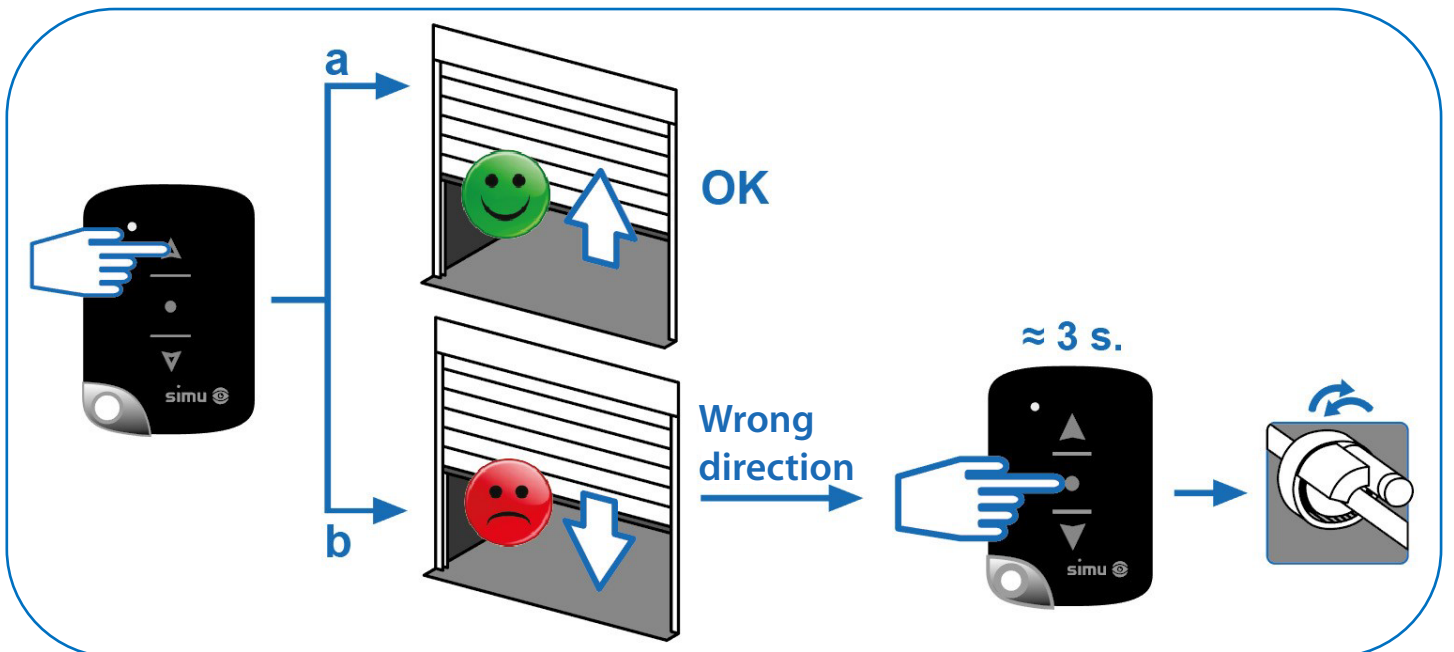
### 1 - Enter the settings mode:



- Cut off the power supply to the operator.
- On the transmitter, press the ▲ and ▼ keys at the same time, until the operator responds with a quick forward and back movement.

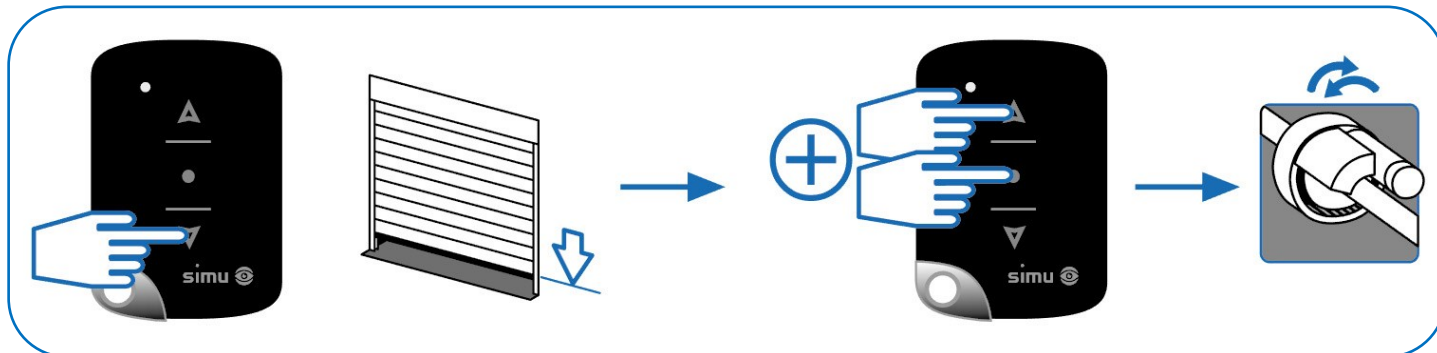
**Info:** By default, this transmitter controls the operator using sustained pressure.

### 2 - Configure the rotation direction:



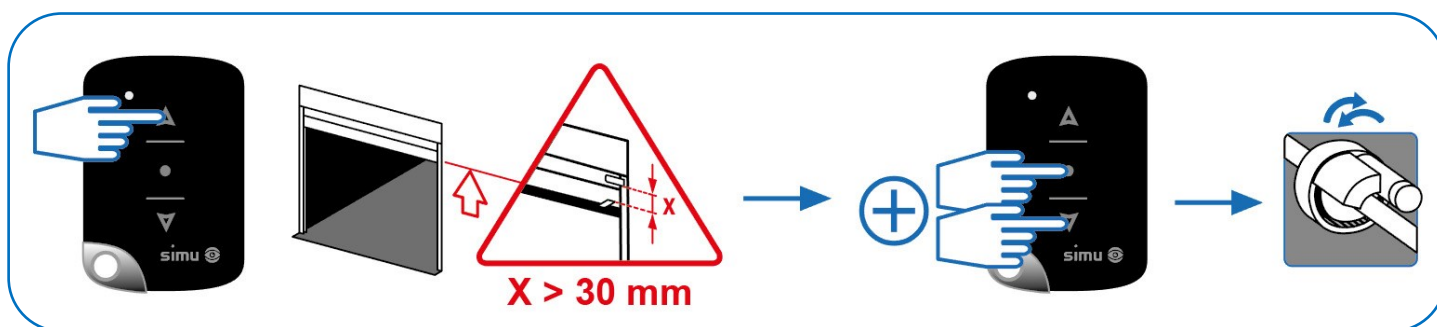
- Press the ▲ key on the transmitter:
  - a** - If the axle turns in the ascent direction, the direction is correct, **proceed to step 3**.
  - b** - If the axle turns in the descent direction, the direction is incorrect, therefore the rotation direction must be reversed, by pressing on the ● STOP key of the transmitter, until the operator responds with a quick forward and back movement, of about 3 seconds.

### 3 - Setting the end positions:



#### Setting the bottom end position:

- Position the shutter on the required bottom end position, by pressing the ▼ key on the transmitter.
- On the transmitter, press the ● STOP and ▲ keys at the same time to record the bottom end position, until the operator responds with a quick forward and back movement.

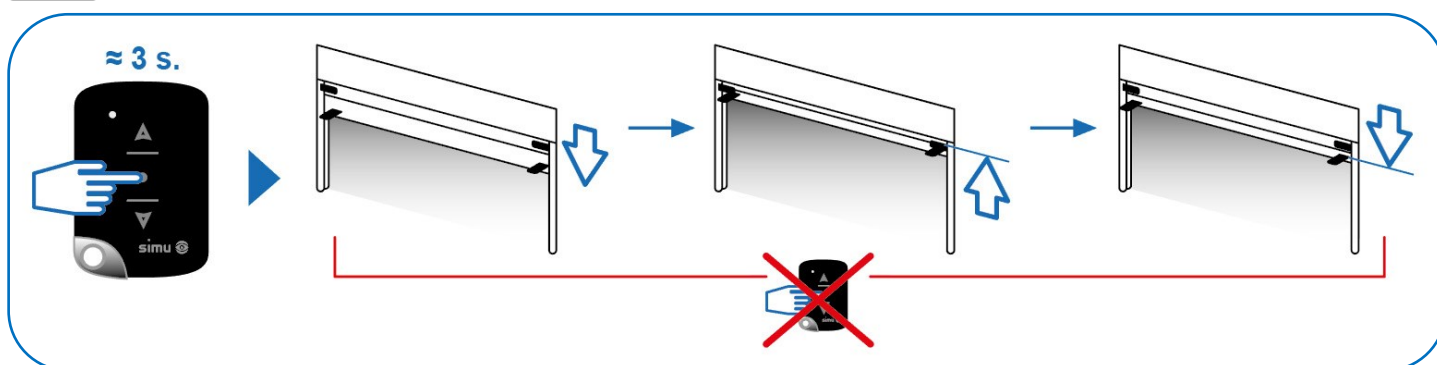


#### Setting the top end position:

- Position the shutter on the required top end position, by pressing the ▲ key on the transmitter.
- Important:** The stop of the end-slat must be situated at least 30 mm from the guiding rail stop.
- On the transmitter, press the ● STOP and ▼ keys at the same time to record the top end position, until the operator responds with a quick forward and back movement.

### 4 - Confirming the end position settings:

**⚠ Do not use the transmitter controls when the shutter is moving.**



After having recorded the top and bottom end positions, **confirm the settings**:

- On the transmitter, hold down the ● STOP key until the operator responds with a 0.5 second rotation in the descent direction, then automatically rises by forcing the stops on the guiding rails and then "decompresses".

## Selecting the operating mode



The mode cannot be changed once the first transmitter is confirmed

(refer to chapter: Confirming the 1st control point).

In this case, the operator settings must be completely erased, by following the instructions in the chapter: Canceling the programming and end position settings.

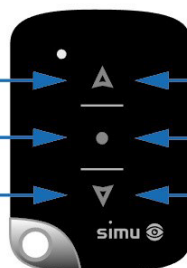
### MODE 1 (default)

### MODE 2

Sustained pressure

Inactive

Sustained pressure



Pulse

STOP / Partial opening

Sustained pressure

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**Info.** If the installation configuration allows, you can change the operating mode to **MODE 2**.

### MODE 2:

Pulse operation for ascent and sustained pressure for descent.

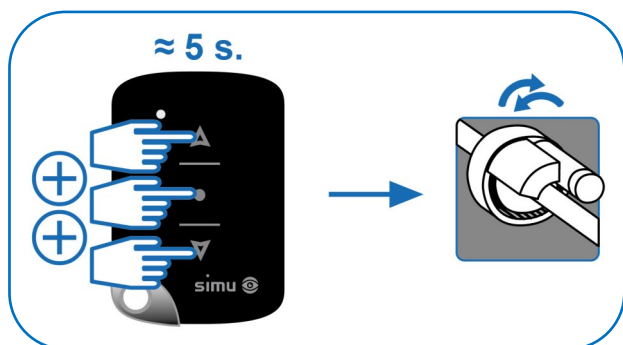


In accordance with standard EN 12453: 2001 §4.1.1 and §4.1.2, **mode 2 must not be used with a Dentel Grille or on a shutter with Dentel parts situated at less than 2.5 meters from the floor. Non-compliance with these recommendations may cause danger resulting in death, or serious injury.**

**Selecting this mode is under the sole responsibility of the installer.**

## Changing the MODE

**Info:** If the default operating mode: **MODE 1**, suits your needs, ignore the following step and proceed directly to the next chapter.



Switching to **MODE 2**:

- Position the shutter outside of the end positions.
- On the transmitter, press the • STOP, ▲ and ▼ keys at the same time, until the operator responds with a quick, forward and back movement of roughly 5 seconds.

**Info:** The operator is currently controlled by pulse for ascent and sustained pressure for descent

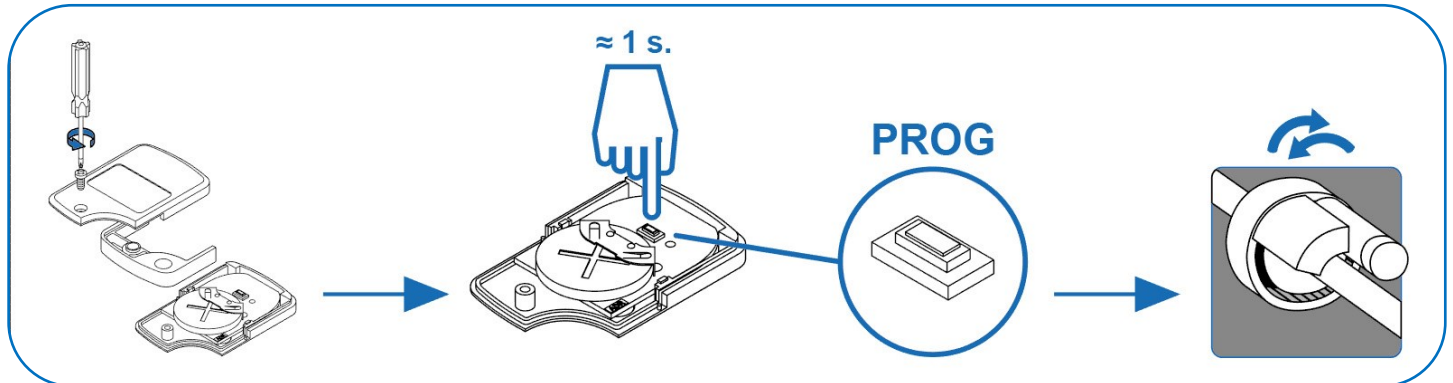
**If you are not satisfied with this mode or you are concerned that it presents any danger whatsoever to property or people: Return to MODE 1.**

- To return to **MODE 1**, on the transmitter, press the • STOP, ▲ and ▼ keys at the same time, until the operator responds with a quick, forward and back movement of roughly 5 seconds.

## Confirming the 1st control point

**Important:** In the case of a power cut, if the 1st control point has not been confirmed, all the previously programmed settings will be lost.

You must now confirm the 1st control point:



- Open the transmitter, by removing the screw at the back.
- On the transmitter, press the **PROG** key until the operator responds with a quick, forward and back movement of roughly 1 second.

**Your transmitter is now recorded and will control the operator according to the defined operating mode.**

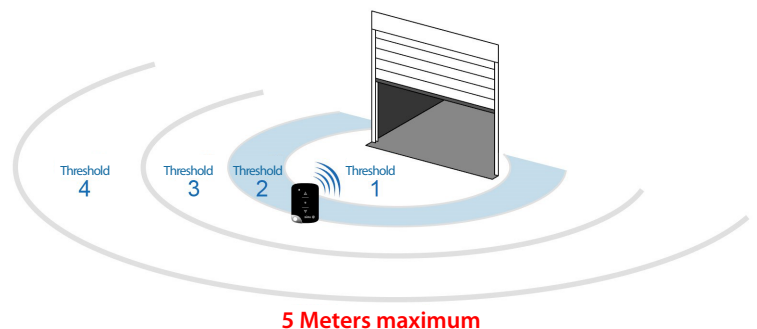
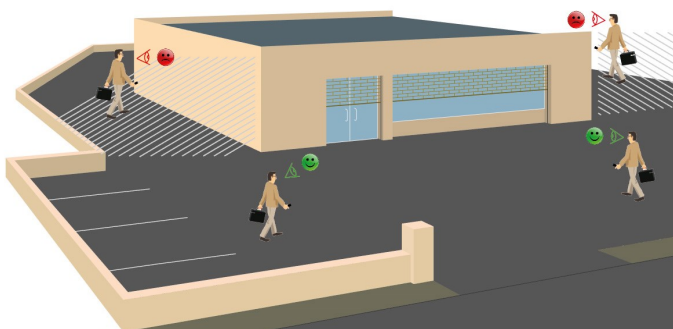
**Info:** Confirming the 1st control point makes it possible to record the previously set parameters and to exit the operator from the programming mode.

## Setting the transmitter range

Standard EN 12453: 2001 §5.1.1.4, stipulates that the person operating the product must have a view directly above it, and must be in close proximity while the shutter is moving. The shutter must not be left in a dangerous position.

By default, the veoHZ transmitters have a very short frequency range (setting on threshold 2).

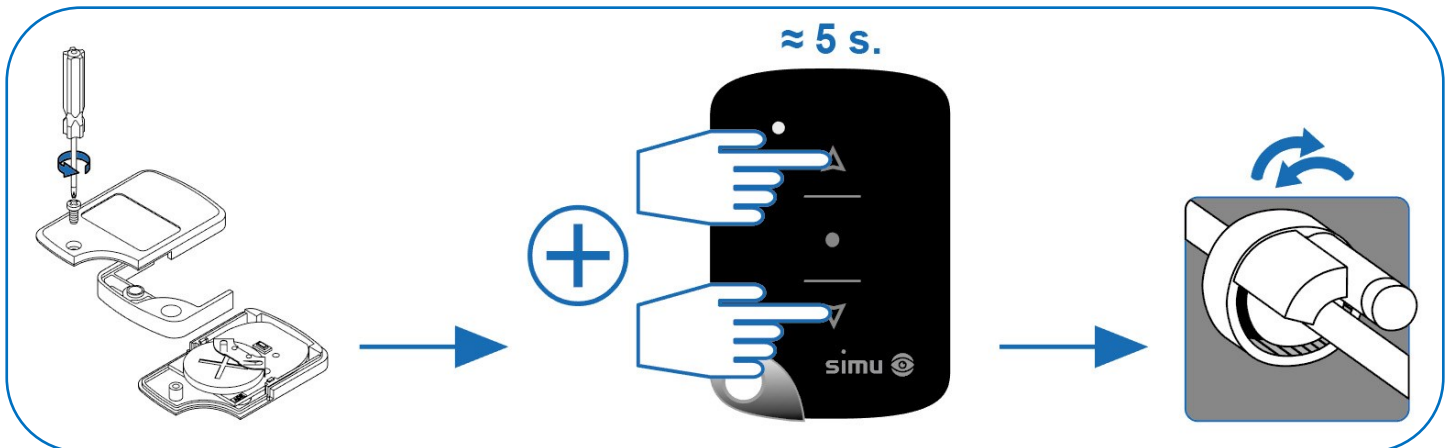
**It is the installer's responsibility to ensure that the defined radio range allows for the shutter to be controlled while still in sight.**



- If you think that this very short range will not enable you to control the product properly, you can increase it (threshold 3 - 4), provided that the new radio range ensures the shutter can be controlled while still in sight.
- If you think that this very short range will not enable you to control the product while in sight of the shutter, you can decrease it (threshold 1).

### Adjusting the radio range (Thresholds 1 - 2 - 3 - 4)

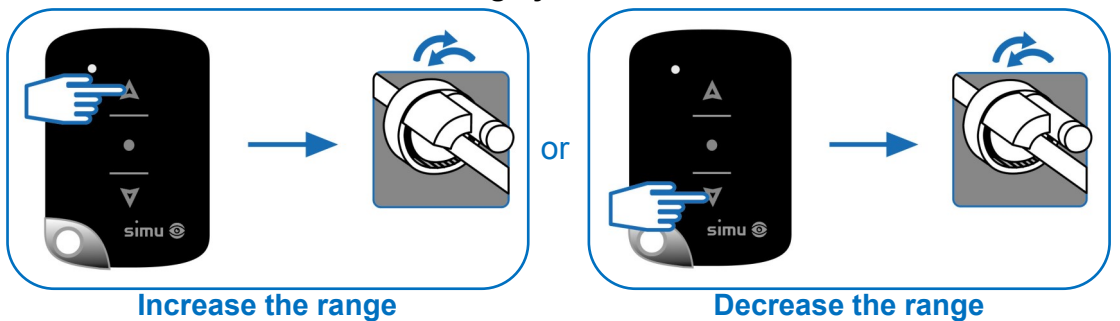
**Info:** If the default range of the transmitter (Threshold 2) suits your needs, skip the following step.



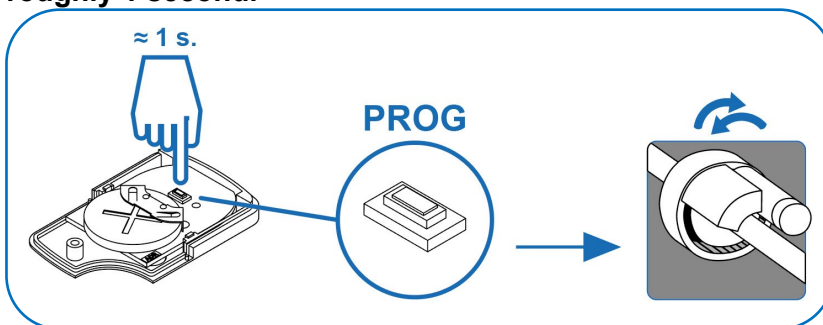
- Open the transmitter, by removing the screw at the back, (this enables quick access to the **PROG** button later).
- Position the shutter outside of the end positions.
- On the transmitter, press the ▲ and ▼ keys at the same time, until the operator responds with a quick, forward and back movement of roughly 5 seconds.

To increase or decrease the range, press the ▲ or ▼, keys at the same time, until the operator responds with a quick, forward and back movement of roughly 5 seconds:

- **Threshold 1:** 1 rotation.
- **Threshold 2:** 2 rotations.
- **Threshold 3:** 3 rotations.
- **Threshold 4:** 4 rotations.



Within 15 seconds, depending on the selected threshold, confirm the settings by pressing the **PROG** key on the transmitter, until the operator responds with a quick, forward and back movement of roughly 1 second.

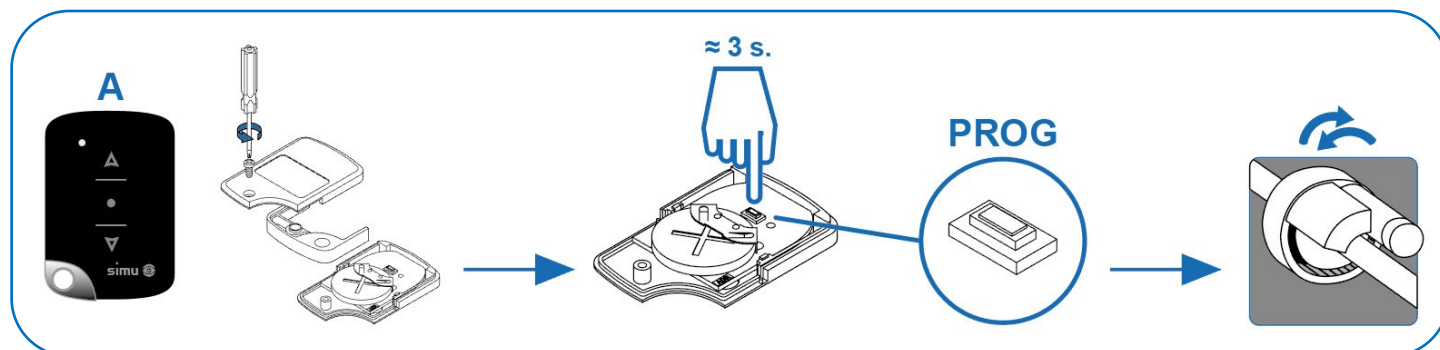


**Check that the new range ensures the shutter can be controlled while still in sight.**

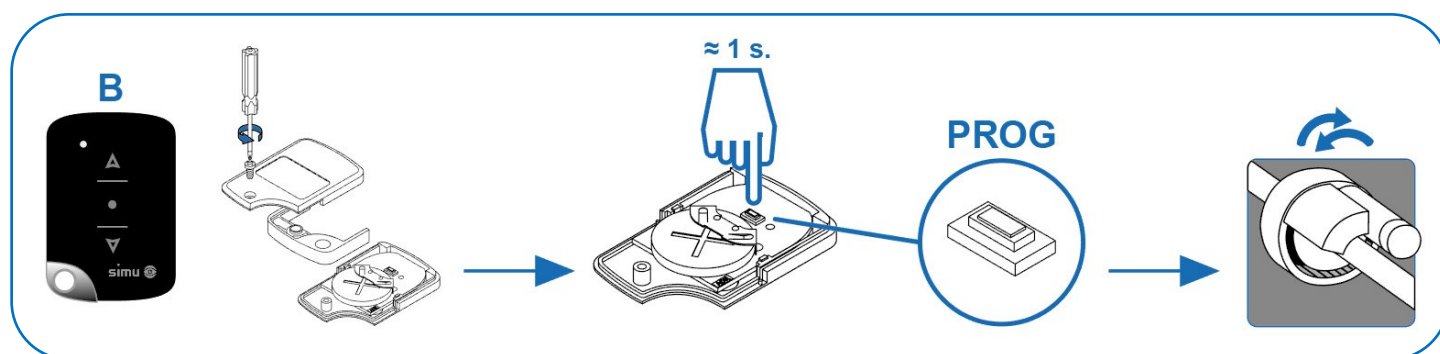
**Info:** This new radio range will apply to all the portable transmitters that are subsequently programmed. If the transmitter is outside of the defined range, its commands will not be applied.



## Programming a new remote controller (12 maximum)



- Open transmitter **A** (already programmed) and the new transmitters **B** (to be programmed) by removing the screw at the back.
- On **transmitter A**, press the **PROG** key, until the operator responds with a quick, forward and back movement of roughly 3 seconds.



- On the new **transmitter B**, press the **PROG** key, until the operator responds with a quick, forward and back movement of roughly 1 second.
- The new transmitter B has been recorded.**

**Info:** If the new control point is portable, it will have the same range as that defined in the chapter: Setting the transmitter range.  
All portable or wall-mounted transmitters control the operator in accordance with the selected operating mode, refer to chapter: Selecting the operating mode.

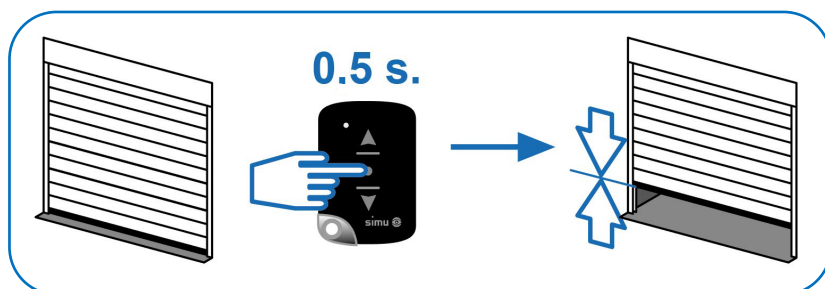
**Important:** In the case of a fixed control point, it is the installer's responsibility to install the controller within sight of the shutter.

**If you wish to delete a transmitter:**

- Perform the same operation as for **transmitter A** (already programmed) above.
  - Select the operator to be deleted and perform the same operation as for **transmitter B**, above.
- The selected transmitter is deleted.**

# Partial opening

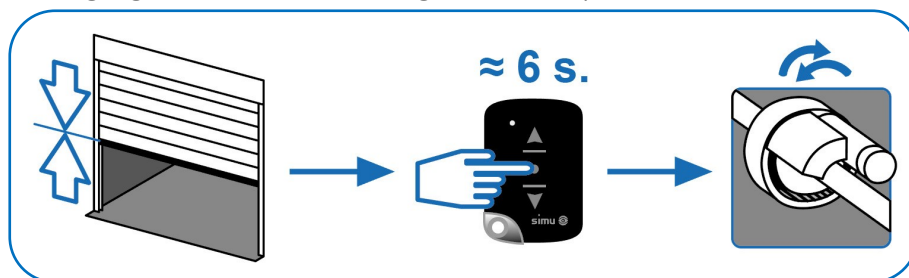
**Info:** This function is only available in **MODE 2** (Pulse ascent and sustained pressure descent) and only for raising the shutter



**Check whether the default position "Partial opening", suits your needs:**

- Position the shutter in the bottom position.
- On the transmitter, press the ● STOP key for 0.5 seconds, the shutter will move to the "Partial opening" position.

**Changing the "Partial opening" position** (if the default position does not suit your needs):

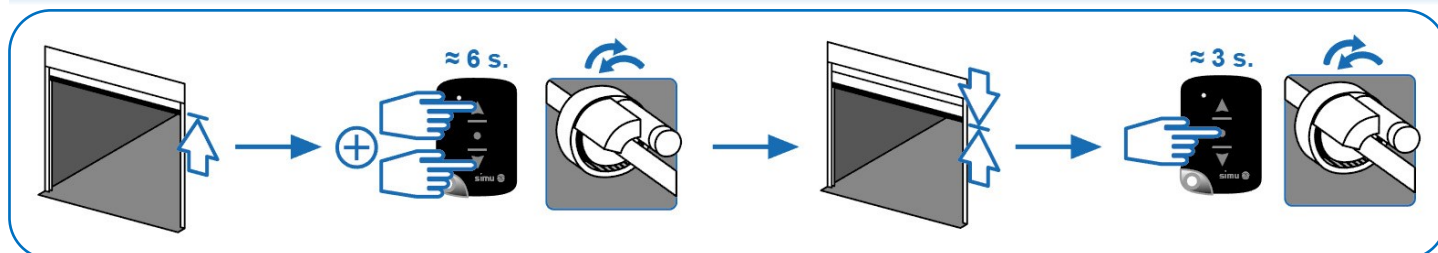


- Position the shutter on the required partial opening position, using the ▲ or ▼ keys on the transmitter.
- Press the ● STOP key, until the operator responds with a quick, forward and back movement of roughly 6 seconds.

**The new partial opening position is recorded.**

## Changing the end positions

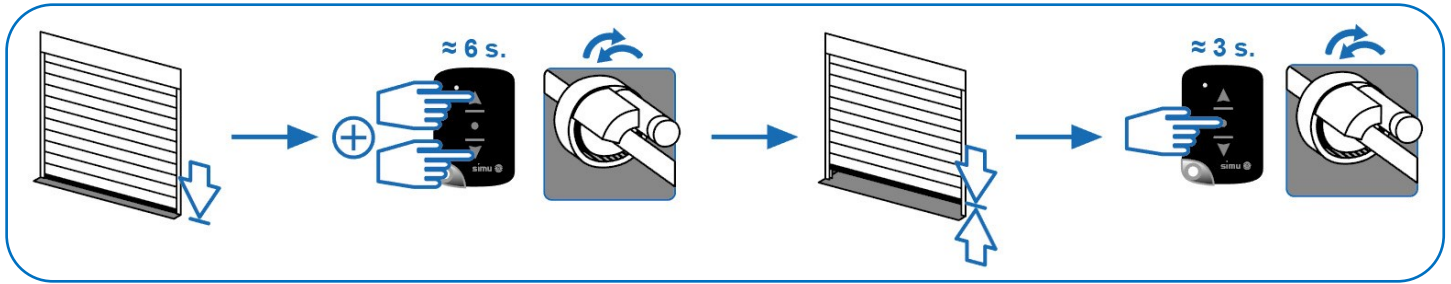
### Top end position



- Position the operator on the top end position, using the ▲ key on the transmitter.
- On the transmitter, press the ▲ and ▼ keys at the same time, until the operator responds with a quick, forward and back movement of roughly 6 seconds.
- Position the shutter on the required top end position, using the ▲ or ▼ key on the transmitter.
- On the transmitter, press the ● STOP key, until the operator responds with a quick, forward and back movement of roughly 3 seconds.

**The new end position is recorded.**

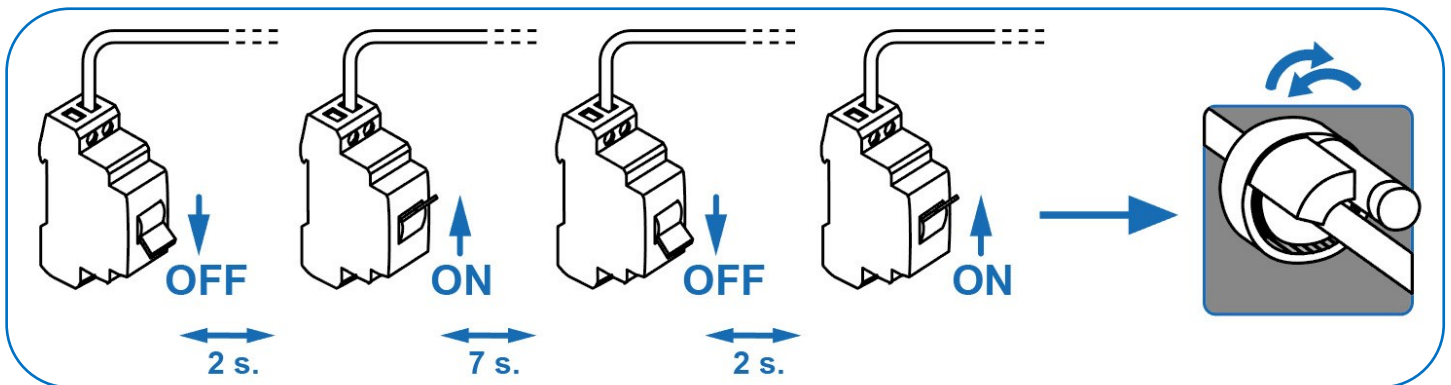
### Bottom end position



- Position the operator on the bottom end position, using the ▲ key on the transmitter.
  - On the transmitter, press the ▲ and ▼ keys at the same time, until the operator responds with a quick, forward and back movement of roughly 6 seconds.
  - Position the shutter on the required bottom end position, using the ▲ or ▼ key on the transmitter.
  - On the transmitter, press the ● STOP key, until the operator responds with a quick, forward and back movement of roughly 3 seconds.
- The new end position is recorded.**

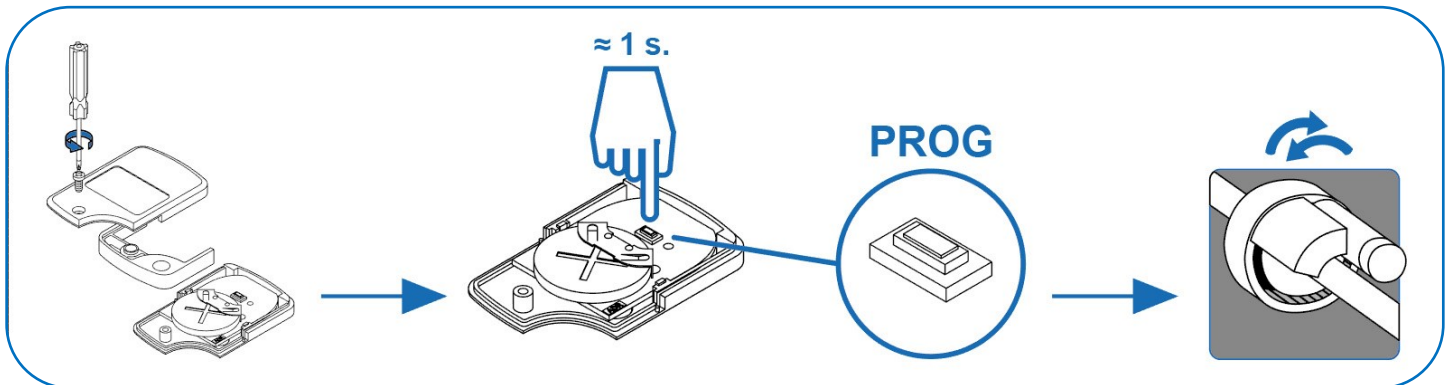
## Deleting all the remote controllers

For example, in the case where one or several of the remote controllers have been lost.



- Cut the power supply to the operator for **2 seconds**.
- Reconnect the power supply to the operator for **7 seconds**.
- Cut the power supply to the operator for **2 seconds**.
- Reconnect the power supply to the operator.
- The operator will respond with a quick forward and back movement.

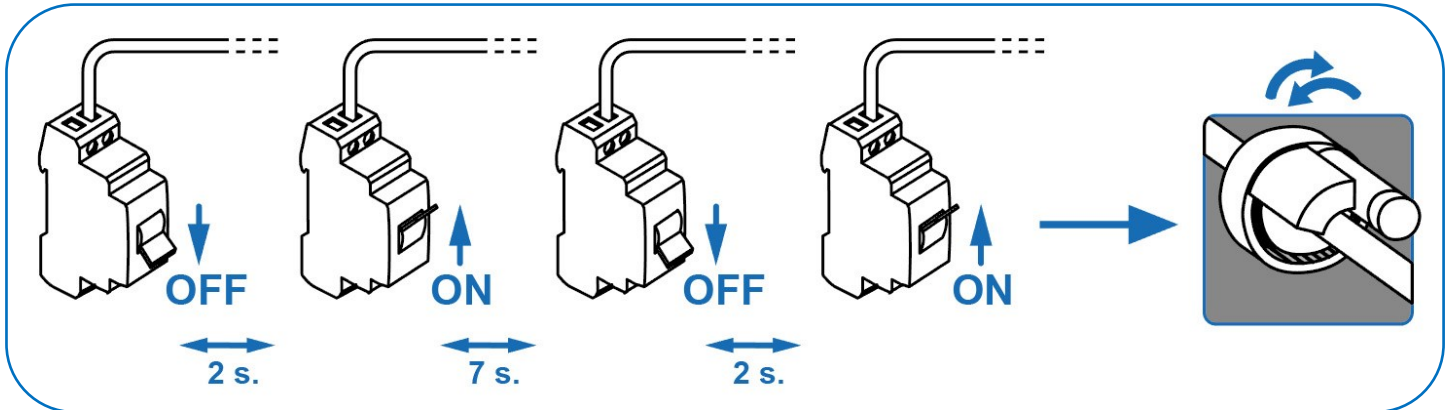
**Use a transmitter whether already programmed or not on the operator.**



- Open the transmitter, by removing the screw at the back.
- On the transmitter, press the **PROG** key, until the operator responds with a quick, forward and back movement of roughly 1 second.

**This transmitter is now the only programmed transmitter on the operator, all the other transmitters have been deleted. However, the operator settings have not been modified.**

## Canceling the programming & end position settings



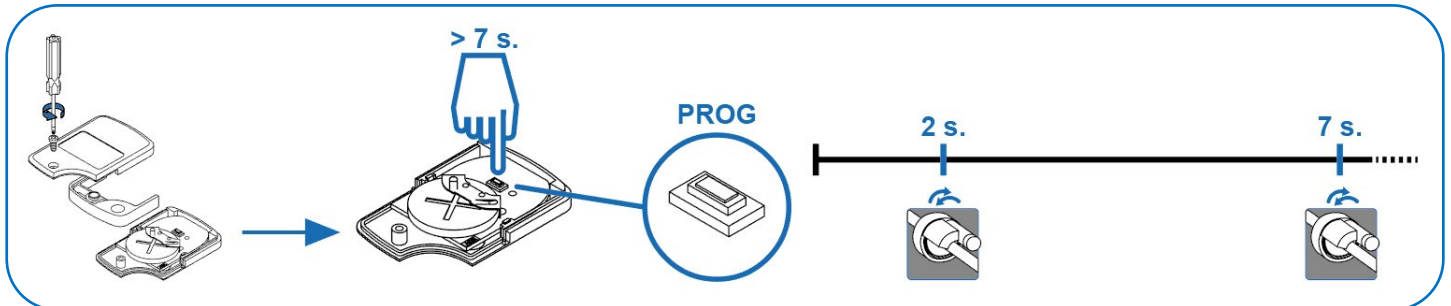
- Cut the power supply to the operator for **2 seconds**.
- Reconnect the power supply to the operator for **7 seconds**.
- Cut the power supply to the operator for **2 seconds**.
- Reconnect the power supply to the operator.
- The operator will respond with a quick forward and back movement.

The operator is now in "Cancellation of programming" mode.



**If you are working on the power supply to several operators, they will all be ready to be canceled. You simply need to "eject" all the operators from this mode which are not affected by this modification by pressing the control key of a transmitter programmed with the operators to be ejected.**

Now, confirm the "Cancellation of programming" of the operator.



- Open the transmitter, by removing the screw at the back.
- Now hold down the **PROG** key on the transmitter for over 7 seconds, until the operator responds with a first quick forward and back movement (**2 s.**) then several seconds later (**7 s.**), with a second quick forward and back movement.

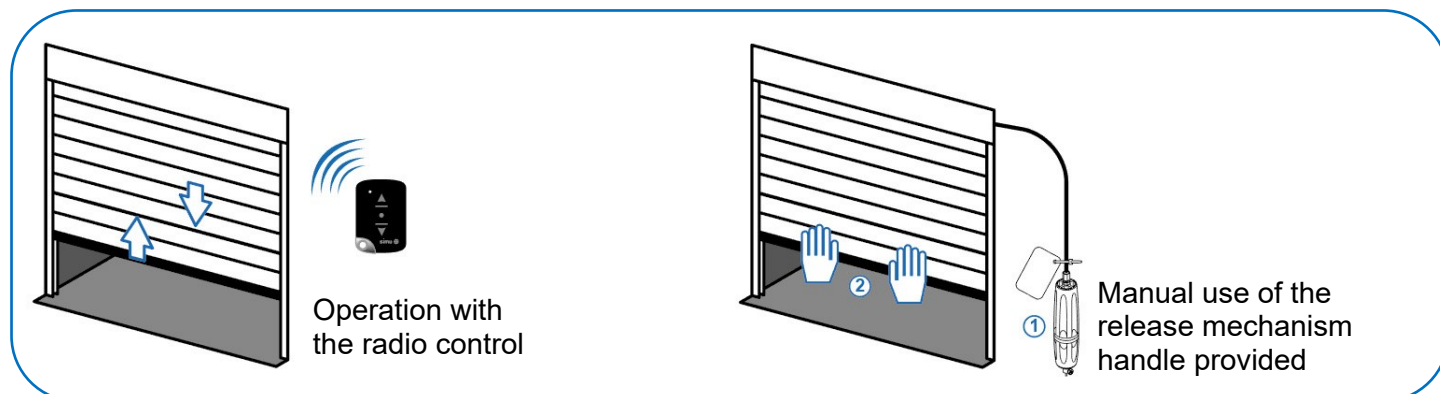
**The operator's memory is now empty.**

**Reprogram all the operator settings by referring to the chapter: Programming and confirming the 1st control point.**

# Use - Maintenance



**In case of a cut in the power supply lasting longer than 30 seconds, the only subsequent radio control authorized will be to raise the shutter up to the top end position (recalibration). The operator will force the stops on the guiding rails and "decompress".**



- Directions for use: Refer to the manuals for control points and release mechanism systems.
- The operator does not require a maintenance operation. Change the battery of your control points every 2 years or before, depending on frequency of use.

# Troubleshooting

Fault	Possible causes	Solutions
The motorized product is not functioning	The motorization is in thermal protection mode	Wait for the operator to cool down. If the operator still does not work, use the release mechanism system and contact customer service.
	The operator is disengaged	Restart the operator, by tightening the release mechanism handle.
	Transmitter is out of range	Move closer to the operator.
The product is not functioning correctly	Transmitter is at the range limit	Move closer to the operator.
The descent command is not being acknowledged	There has been a cut in power to the operator lasting longer than 30s or a release mechanism has been triggered during a power cut of less than 30s.	Raise the shutter to the top end position, the product will make a quick downward movement.
The LED on the transmitter is flashing very quickly or the product is jerky when moving (requires restarting every 3 seconds)	Low battery	Replace the battery, before you are no longer able to maneuver the shutter.
I cannot pair my portable transmitter with the shutter	Transmitter is not veoHz compatible	Obtain a veoHz transmitter.
	No more channels are available (12 max.)	Delete an existing transmitter.
	Transmitter is out of range	Move closer to the operator.

