

ROLLIXO RTS

EN Installation manual



5108206C



Translated version of the guide

CONTENTS

1 - Safety instructions	1
2 - Description of the Rollixo receiver	3
2.1 Area of application	3
2.2 Description of the receiver	3
2.3 Description of the external programming interface	4
2.4 Space requirements	4
2.5 Standard installation diagram	4
3 - Installation	4
3.1 Mounting the Rollixo receiver	4
3.2 Motor and fall protection wiring	4
3.3 Connecting the receiver to the mains power supply	5
3.4 Checking the direction of rotation of the motor and adjustment of the motor end limits	5
4 - Installing an optical radio safety edge or resistive safety edge with XSE transmitter	6
4.1 Installing the optical radio or resistive safety edge and its XSE transmitter	6
4.2 Installing a base magnet on the door runner	6
4.3 Programming the XSE transmitter	6
5 - Installing an optical radio safety edge with OSE transmitter	6
5.1 Installing the optical safety edge and its OSE transmitter	6
5.2 Programming the OSE transmitter	6
6 - Installing a resistive radio safety edge with ESE transmitter	7
6.1 Installing magnets on the runner	7
6.2 Installing the resistive safety edge and its ESE transmitter	7
6.3 Recognising magnets	8
7 - Checking operation of the receiver	8
7.1 Operation in sequential mode	8
7.2 Integrated lighting	8
7.3 Orange light	8
7.4 Cells	8
7.5 Safety edge	8
7.6 Alarm (optional)	8
8 - Connecting additional devices	8
8.1 General wiring diagram	8
8.2 Parameter setting for wiring options	9
8.3 Description of the various additional devices	9
9 - Advanced parameter setting	11
9.1 Different operating modes	11
9.2 Programming operating modes	11
9.3 Automatic closing mode	11
9.4 Holiday mode	11
10 - Storing the remote controls	12
10.1 Memorising 2 or 4-button remote controls	12
10.2 Memorising 3-button remote controls	12
10.3 Memorising by copying a previously memorised remote control	12
11 - Memorising safety edge transmitters	12
11.1 Storing an XSE or OSE transmitter	12
11.2 Storing an ESE transmitter	12
12 - Clearing the remote controls	13
12.1 Clearing a remote control	13
12.2 Clearing all remote controls	13
13 - Clearing safety edge transmitters	13
14 - Locking/unlocking the programming buttons	13
15 - Diagnostics	13
15.1 Receiver	13
15.2 XSE transmitter	14
15.3 ESE transmitter	15
15.4 OSE transmitter	15
16 - Technical specifications	15

1 - SAFETY INSTRUCTIONS



This symbol indicates a danger, the different degrees of which are described below.



DANGER

Indicates a danger which may result in immediate death or serious injury



WARNING

Indicates a danger which may result in death or serious injury



PRECAUTION

Indicates a danger which may result in minor or moderate injury

ATTENTION

Indicates a danger which may result in damage to or destruction of the product

1.1 Caution - Important safety instructions

For reasons of personal safety, it is important to follow all the instructions, as incorrect installation can lead to serious injury. Retain these instructions.

The motorisation must be installed and adjusted by a professional motorisation and home automation installer, in compliance with the regulations of the country in which it is to be used.

The user manual and installation manual must be given to the end user, explicitly stating that installation, adjustment and maintenance of the motorisation must be performed by a professional motorisation and home automation installer.

1.2 Introduction

> Important information

This product is a receiver for vertically opening roller garage doors for residential use. To ensure compliance with the standard EN 60335-2-95, this product must be installed with a Somfy RDO CSI motor and a Somfy safety edge solution. The assembly is together designated as a "motorisation".

The main purpose of these instructions is to satisfy the requirements of the aforementioned standard and to ensure the safety of equipment and persons.



WARNING

Any use of this product outside the area of application described in this manual is prohibited (see "Area of application" paragraph in the installation manual). Such use, and any failure to comply with the instructions given in this guide, absolves Somfy of any liability and invalidates the warranty.

The use of any safety accessories not validated by Somfy is prohibited.

In case of any doubts when installing the motorisation, or to obtain additional information, consult the website www.somfy.com.

The instructions may be modified if and when there is a change to the standards or to the motorisation.

1.3 Preliminary checks

> Installation environment

ATTENTION

Do not spray water onto the motorisation.
Do not install the motorisation in an explosive environment.

> Condition of the door to be motorised

See the safety instructions for the RDO CSI motor.

1.4 Electrical pre-equipment



DANGER

The installation of the power supply must comply with the standards in force in the country in which the motorisation is installed, and must be carried out by qualified personnel. The electric line must be exclusively reserved for the motorisation and equipped with protection, comprising:

- a 10 A fuse or breaker,
- a differential type device (30 mA).

An all-pole supply cut-off device must be provided.

It is recommended that you fit a lightning conductor (maximum residual voltage 2 kV).

> Cable feed

Underground cables must be equipped with a protective sheath with a sufficient diameter to contain the motor cable and the accessories cables.

For overground cables, use a cable grommet that will withstand the weight of vehicles (ref. 2400484).

1.5 Safety instructions relating to installation



DANGER

Do not connect the motorisation to a power source before installation is complete.



WARNING

Ensure that any danger zones (crushing, cutting, trapping) between the driven part and the surrounding fixed elements caused by the opening movement of the driven part are avoided or indicated on the installation (*see the section on risk prevention*).



WARNING

Modifying one of the elements provided in this kit or using an additional element not recommended in this manual is strictly prohibited.

Monitor the door as it moves and keep people away from it until installation is complete.

Do not use adhesive to secure the motorisation.

ATTENTION

Install any fixed control device at a height of less than 1.5 m and within sight of the door, but away from moving parts.

After installation, ensure that:

- the mechanism is correctly adjusted
- the motorisation changes direction when the door encounters an object 50 mm high on the ground.



WARNING

CAUTION: Automatic door – The door may operate unexpectedly. Do not leave anything in the door's path.

Permanently affix the label concerning automatic door operation.

> Safety devices



DANGER

A fall protection device suited to the weight of the door must be installed to prevent the risk of the door falling.



WARNING

For operation in automatic mode or remote control, photoelectric cells must be installed.



WARNING

For operation by pressing and holding down the button following a fault with the safety device, the door must be operated within sight of the door.

For operation in automatic mode, or if the garage door faces a public road, an orange light type signalling device may be required to comply with the regulations in the country in which the motorisation is installed.

> Clothing precautions

Take off any jewellery (bracelet, chain, etc.) during installation.

For manoeuvring, drilling and welding operations, wear appropriate protection (special glasses, gloves, ear protection, etc.).

1.6 Regulations

SOMFY declares that this product complies with the essential requirements of applicable European directives. A Declaration of Conformity is available at www.somfy.com/ce (Rollixo RTS).

1.7 Assistance

You may encounter difficulties or have questions when installing your motorisation.

Do not hesitate to contact us; our specialists are on hand to answer all your questions.

Internet: www.somfy.com

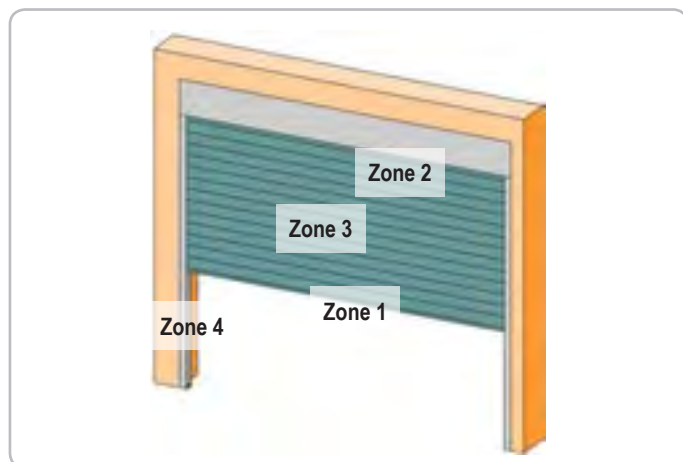
1.8 Risk prevention



WARNING

Risk prevention - roller garage door motorisation for residential use

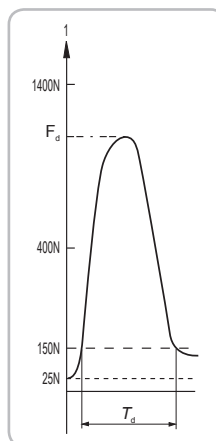
> **Risk zones: measures to be taken to eliminate risks.**



RISK	SOLUTION
ZONE 1 Risk of crushing between the ground and the lower edge of the door during closing	Obstacle detection using safety edge solution (confirm detection using a force measurement - see Force measurement paragraph) For operation with automatic closing, install photoelectric cells (see installation manual)
ZONE 2* Risk of crushing between the casing and door	Eliminate any gap ≥ 8 mm or ≤ 25 mm between the casing and door
ZONE 3* Risk of cutting or trapping between the door slats in gaps of between 8 mm and 25 mm	Eliminate all sticking points and all sharp edges from the surface of the door Eliminate any gap ≥ 8 mm or ≤ 25 mm
ZONE 4* Risk of crushing between the runners and door	Eliminate any sharp edges from the runners Eliminate any gap ≥ 8 mm between the runners and the door

* For zones 2, 3 and 4, no protection is required if the door has continuous control or if the danger zone is more than 2.5 m above ground or any other permanent access level.

> Force measurement



Take the mid-height measurement of the garage door by positioning the measuring tool perpendicular to the panel which is closing.

The standard stipulates:

- dynamic force ≤ 400 N
- dynamic time ≤ 750 ms

Other specifications set out in this standard are validated by Somfy during initial type testing.

2 - DESCRIPTION OF THE ROLLIXO RECEIVER

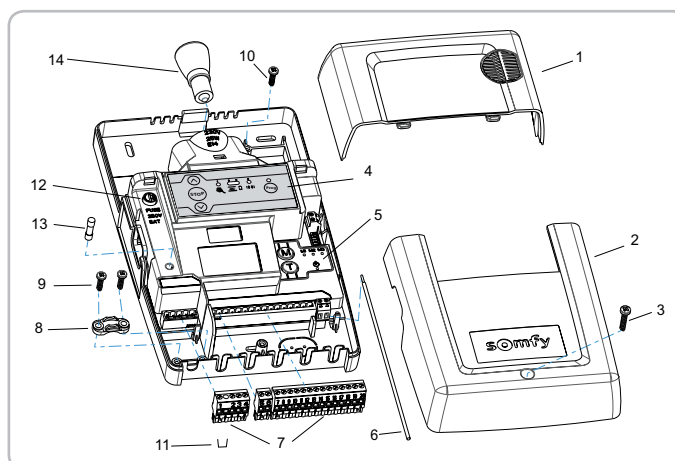
2.1 Area of application

The ROLLIXO receiver, linked to a Somfy RDO CSI motor and a Somfy safety edge solution, is designed to drive a vertically opening roller garage door for residential use with the following external dimensions:

- Height = 4 m maximum
- Width = 6 m maximum

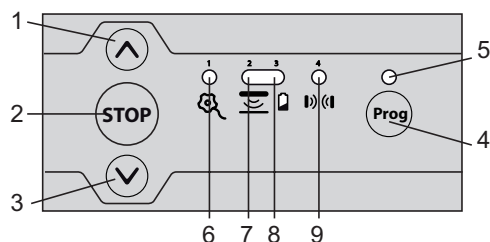
Number of cycles per hour: 5 cycles/hour spread evenly throughout the hour

2.2 Description of the receiver



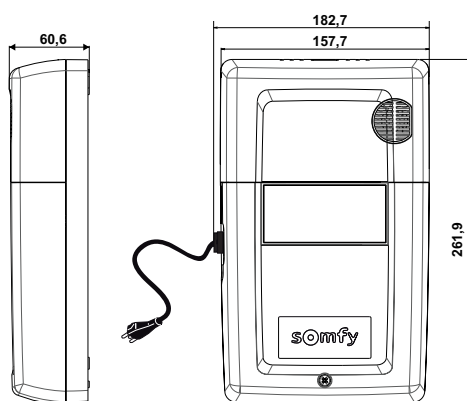
No.	Description
1	Integrated lighting bulb
2	Receiver cover
3	Receiver cover bolt
4	External programming interface
5	Internal programming interface
6	433.42 MHz aerial
7	Plug-in terminals
8	Cable clamp
9	Cable clamp bolt
10	Alarm bolt
11	Fall protection shunt
12	Safety fuse for motor and integrated lighting
13	Spare fuse
14	E14 - 15W max - 230V bulb

2.3 Description of the external programming interface

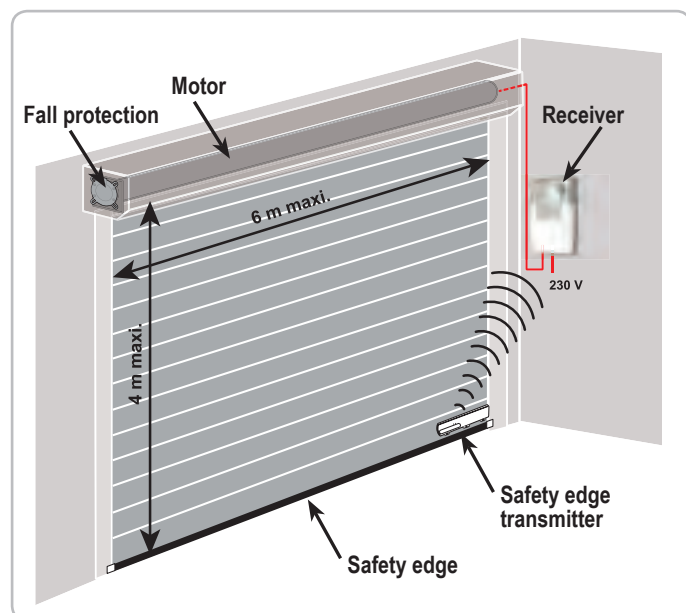


No.	Description	Function
1	Up button	Opening the door
2	STOP Button	Stopping the door
3	Down button	Closing the door
4	Prog Button	Programming radio transmitters
5	Prog Indicator light	Information on radio reception and programming radio transmitters
6	Motor and fall protection warning light	Information on the status of the motor and fall protection
7	Safety edge indicator light	Information on the status of the safety edge and the safety edge transmitter
8	Battery indicator light	Information on the status of the battery and the safety edge transmitter
9	Cell indicator light	Information on the status of the cells

2.4 Space requirements



2.5 Standard installation diagram



3 - INSTALLATION

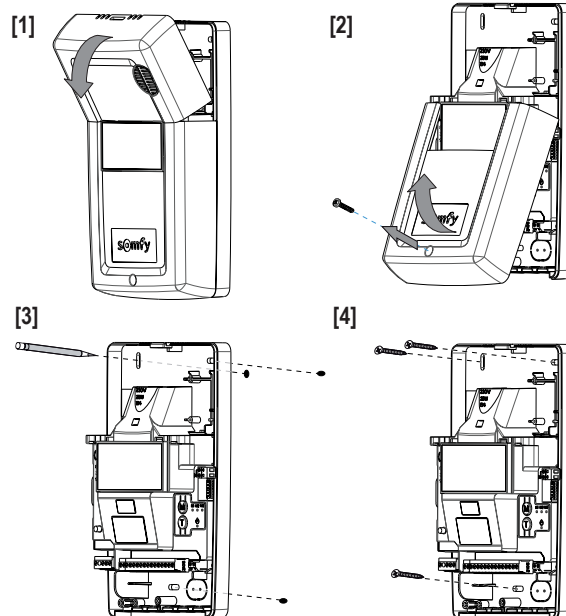
3.1 Mounting the Rollixo receiver



Ensure a suitable distance from the wall socket (2 m power supply cable supplied).

It is advisable to install the receiver on the same side of the door as the safety edge transmitter.

- [1]. Remove the integrated light bulb.
- [2]. Unscrew and remove the receiver cover.
- [3]. Mark the drill holes.
- [4]. Mount the receiver onto the wall.



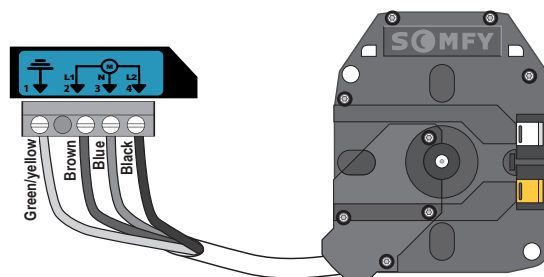
3.2 Motor and fall protection wiring



The receiver must not be connected to the mains power supply during connection to the motor.

> Motor wiring

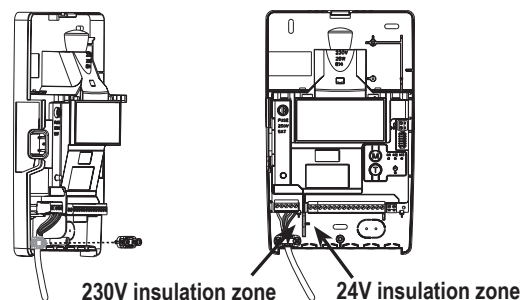
- [1]. Connect the motor to the receiver.
Note: the motor's direction of rotation shall then be checked and reversed if necessary.



- [2]. Lock the motor cable with the cable clamp provided.



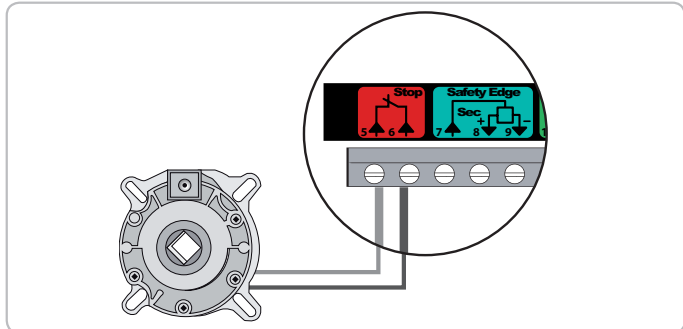
The motor cable must be placed in the receiver's 230 V insulation area.



> Fall protection wiring



The fall protection device must be wired.



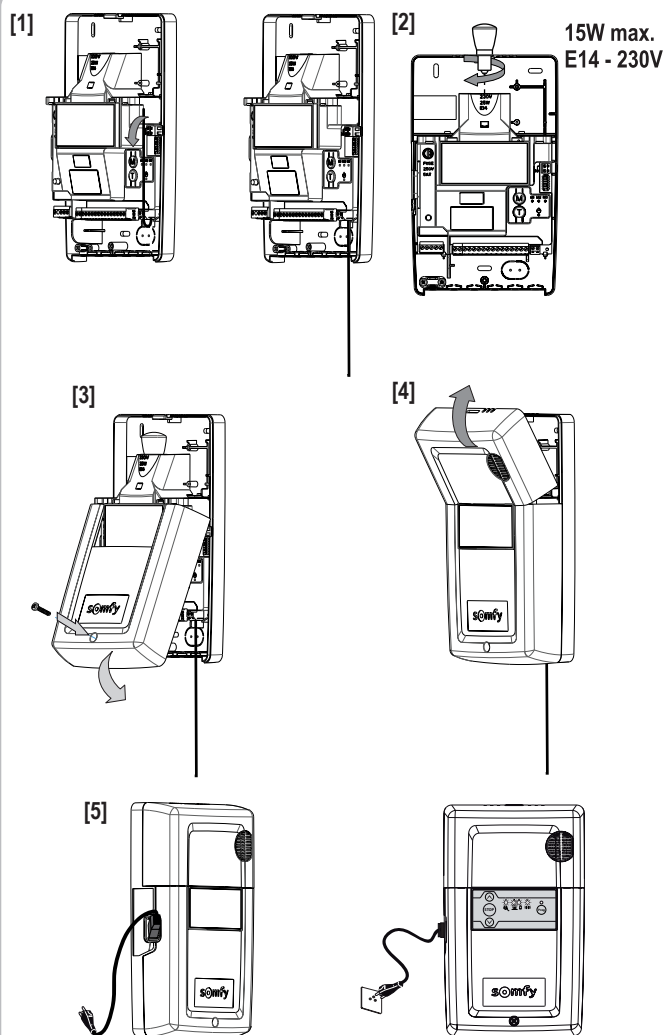
3.3 Connecting the receiver to the mains power supply

- [1]. Fully unfold the receiver aerial so that it is pointing downwards.
- [2]. Screw the bulb supplied into the receiver.



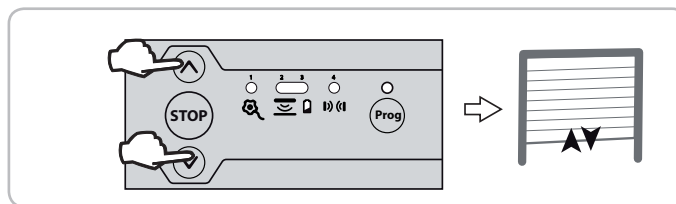
A bulb of the same type as that supplied (E14 - 15W max - 230V) must be used. Using another type of bulb may cause overheating.

- [3]. Replace and screw in the receiver cover.
- [4]. Refit the integrated lighting bulb.
- [5]. Connect the receiver to the mains power supply .
All the indicator lights come on and then go out.
If indicator light 1 comes on permanently, fall protection is not connected or incorrectly connected to the receiver.
If indicator light 2 comes on permanently, the safety edge has not been detected by the receiver (radio safety edge transmitter not yet memorised or the wired safety edge is still not connected).

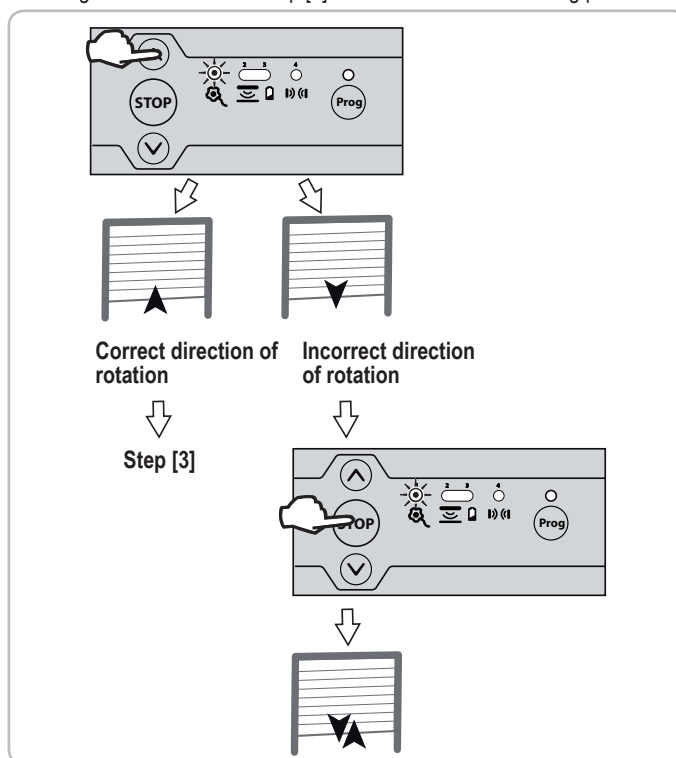


3.4 Checking the direction of rotation of the motor and adjustment of the motor end limits

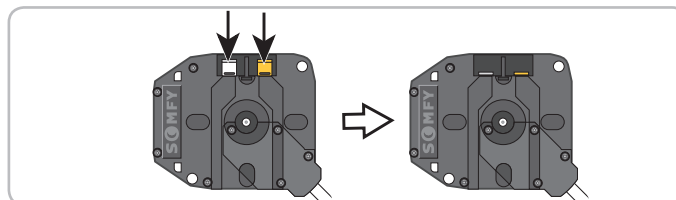
- [1]. Press simultaneously on the and buttons until the motor's up and down movement occurs to enter motor adjustment mode. Indicator light 1 flashes slowly.



- [2]. Press button or to check the motor's direction of rotation.
 - If the motor's direction of rotation is correct, move on to step [3] of the motor end limit setting procedure.
 - If the direction of rotation is incorrect, press button until the motor's up and down movement occurs, check the motor's direction of rotation again and move on to step [3] of the motor end limit setting procedure.

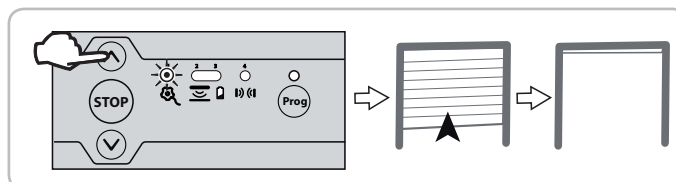


- [3]. If the motor end limits are already set, move on to step [8] to exit motor adjustment mode.
If the motor end limits are not set, check that the motor is released: the two push-buttons should be pressed.

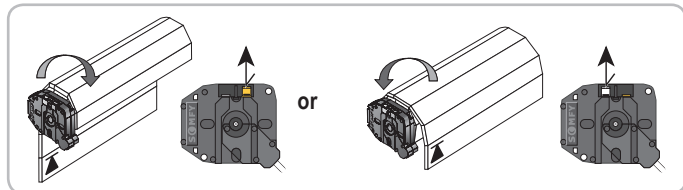


Note: The motor end limits can also be set with a setting tool (ref. 9015971). In this case, set the motor end limits with the cable then move on to step [8] to exit motor adjustment mode.

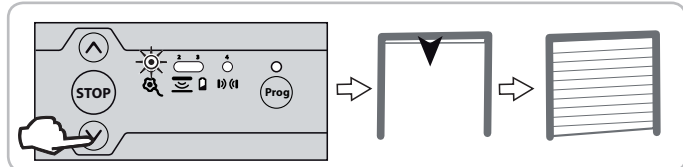
- [4]. Press button to position the garage door in the upper position. Adjust the top position with buttons and .



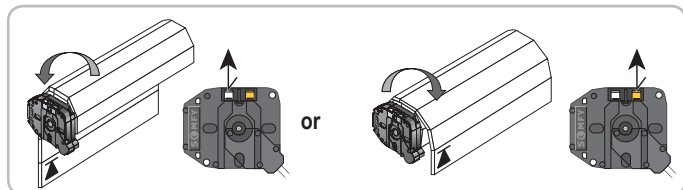
- [5]. Press the motor's upper end limit push-button.



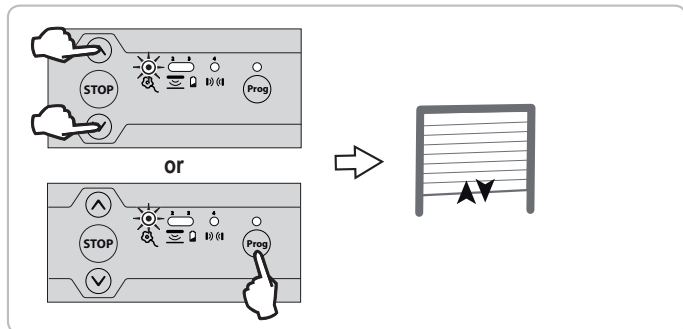
- [6]. Press button to position the garage door in the low position. Adjust the bottom position with buttons and .



- [7]. Press the motor's low end limit push-button.



- [8]. Press simultaneously on the and buttons or press on the button until the motor's up and down movement occurs to enter motor adjustment mode. Indicator light 1 goes out.

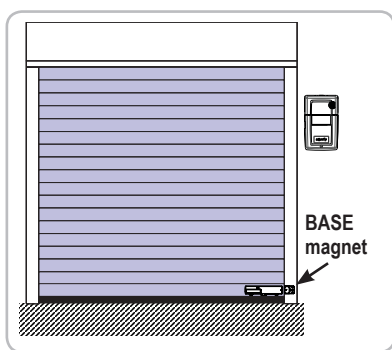


4 - INSTALLING AN OPTICAL RADIO SAFETY EDGE OR RESISTIVE SAFETY EDGE WITH XSE TRANSMITTER

4.1 Installing the optical radio or resistive safety edge and its XSE transmitter

Follow the instructions provided with the XSE transmitter and the optical or resistive safety edge installation kit.

4.2 Installing a base magnet on the door runner

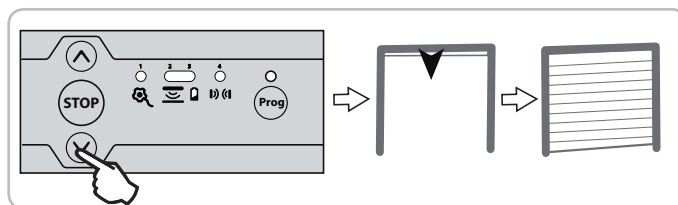


A base magnet must be fitted for a resistive safety edge.

This is recommended for an optical safety edge in order to:

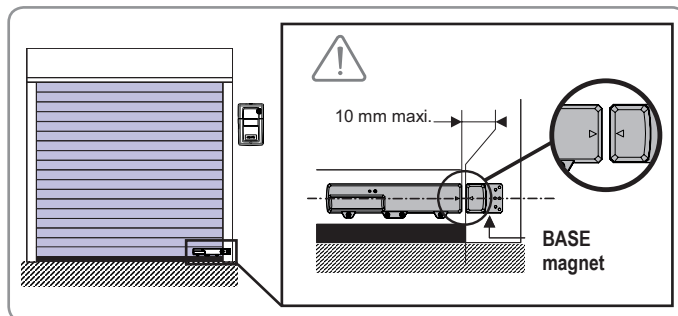
- extend the battery life
- eliminate the risk of ground detection, to secure the closing of the door
- automatically activate the maximum level of sensitivity of the movement sensor
- increase the sensor operating time by 25 to 35 seconds when the base magnet is detected.

- [1]. Press button to position the garage door in the low position.



- [2]. Attach the base magnet to the edge of the runner, positioning it in line with the transmitter.

This operation is important. Ensure the dimensions are observed.



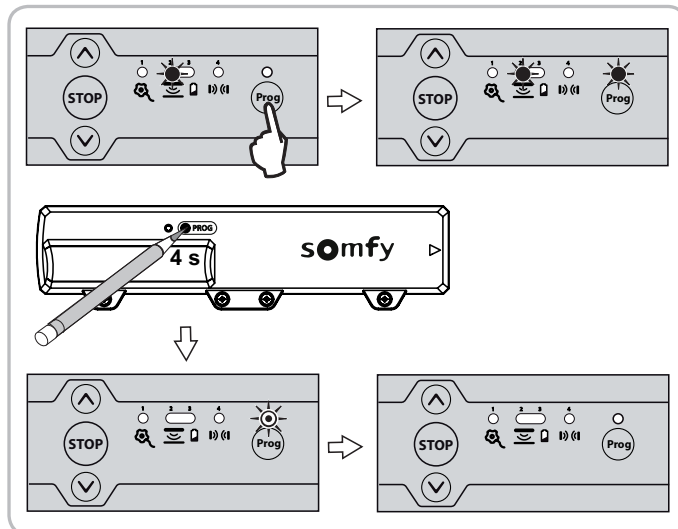
4.3 Programming the XSE transmitter

- [1]. Press the button on the receiver until the indicator light comes on permanently.

- [2]. Using the tip of a pen, press the transmitter PROG push-button for 4 seconds.

Indicator light 2 on the receiver goes out and the receiver Prog indicator light will flash and then go out (this may take a few seconds, the time required for the transmitter and receiver to communicate with each other).

The transmitter is memorised in the receiver.



5 - INSTALLING AN OPTICAL RADIO SAFETY EDGE WITH OSE TRANSMITTER


5.1 Installing the optical safety edge and its OSE transmitter

Follow the instructions provided with the OSE transmitter and the optical safety edge installation kit.

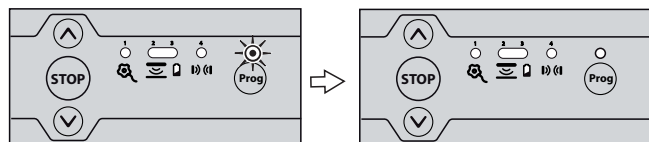
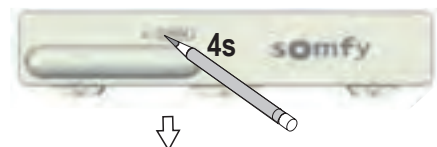
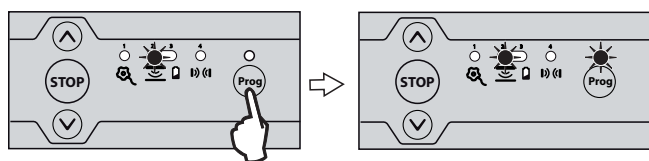
5.2 Programming the OSE transmitter

- [1]. Press the button on the receiver until the indicator light comes on permanently.


- [2]. Using the tip of a pen, press the transmitter PROG push-button for 4 seconds.

Indicator light 2  on the receiver goes out and the receiver Prog indicator light will flash and then go out (this may take a few seconds, the time required for the transmitter and receiver to communicate with each other).

The transmitter is memorised in the receiver.

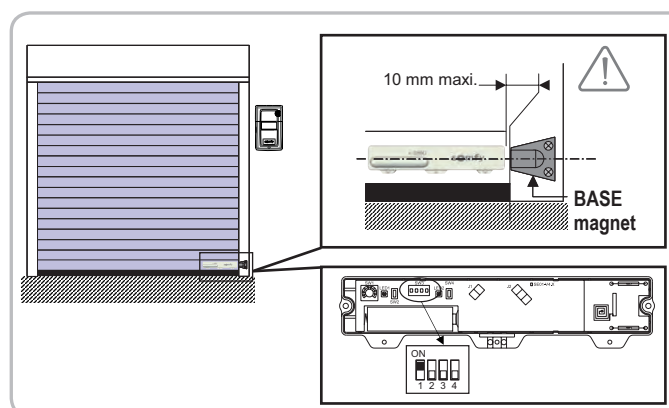


- [3]. Optional: the base magnet must be installed if the ground is uneven and causes erratic obstacle detection.

Press the  button to move the garage door to the bottom position, then secure the base magnet to the edge of the runner, positioning it in line with the transmitter.

Move SW3 dipswitch 1 on the transmitter to ON.

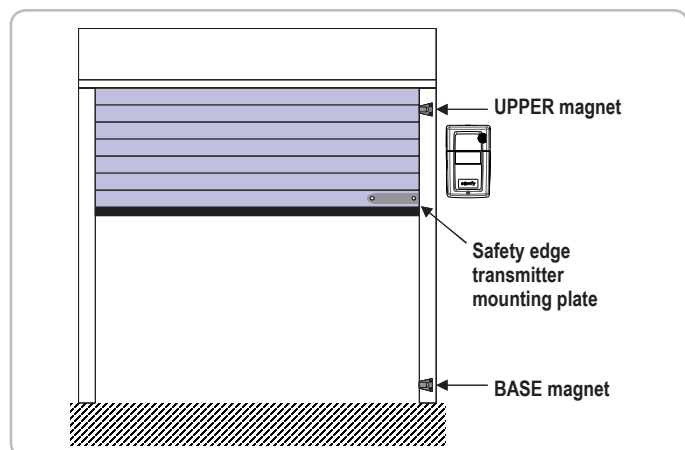
 This operation is important. Ensure the alignment is observed.



6 - INSTALLING A RESISTIVE RADIO SAFETY EDGE WITH ESE TRANSMITTER

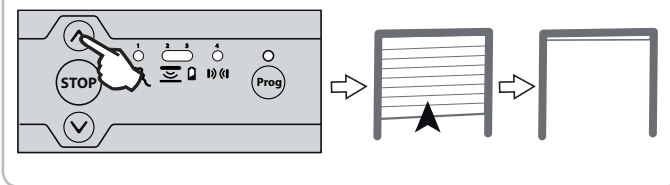
6.1 Installing magnets on the runner

To function correctly, this solution requires a set of magnets to be installed on the runner.




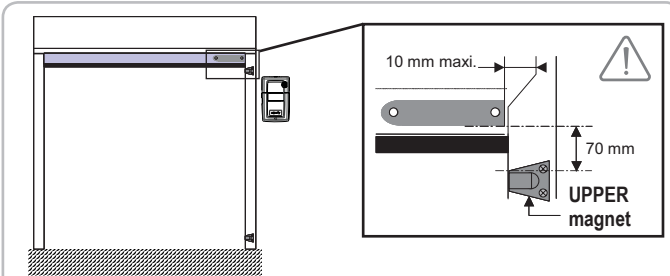
- [1]. Press button  to position the garage door in the upper position.


 Ensure the safety edge transmitter is not fixed to its plate.

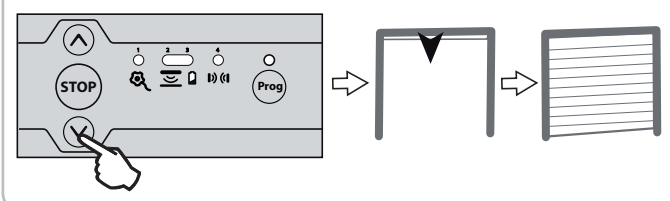


- [2]. Fix the upper magnet to the edge of the runner observing a distance of 70 mm between the base of the transmitter and the top of the magnet.

 This operation is important. Ensure the dimensions are observed.

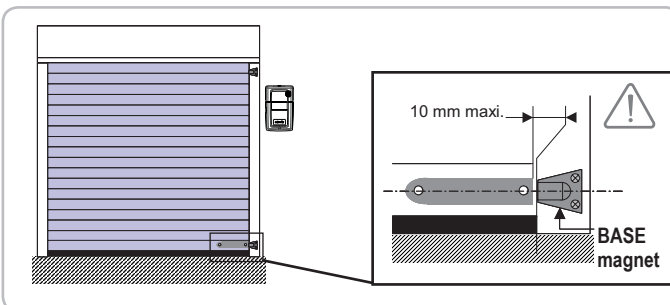




- [3]. Press button  to position the garage door in the low position.

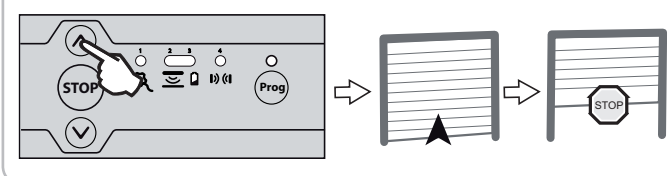


- [4]. Attach the magnet to the edge of the runner, positioning it in line with the transmitter.

 This operation is important. Ensure the dimensions are observed.



- [5]. Press button  then stop the door by pressing button  to position the garage door in the intermediate position.



6.2 Installing the resistive safety edge and its ESE transmitter

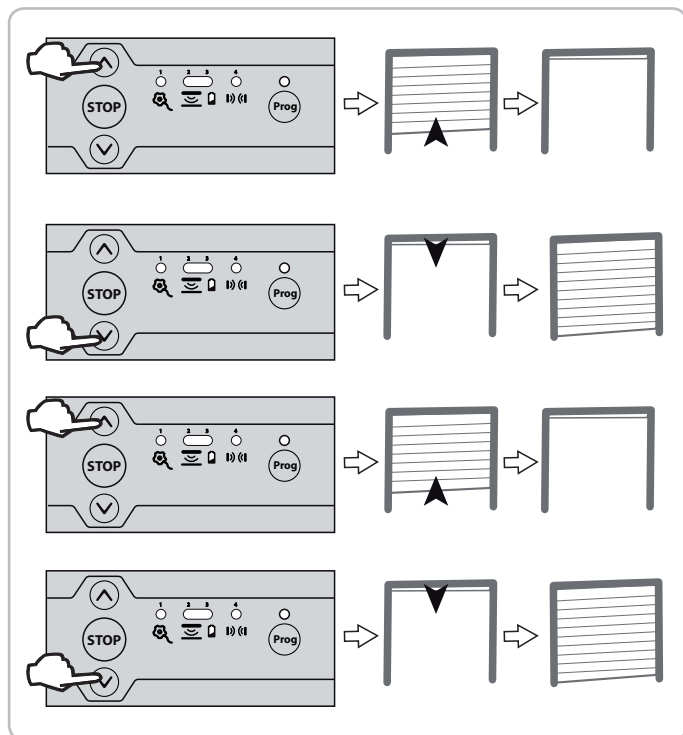
Follow the instructions provided with the ESE transmitter and the resistive safety edge lengthening kit.

6.3 Recognising magnets



It is essential that the following procedure is observed to ensure completely safe operation of the door.
The door must be in the intermediate position before the magnet recognition procedure can be started.
Do not press the safety edge during the magnet recognition procedure.

Carry out two whole cycles (opening then closing) using buttons and .

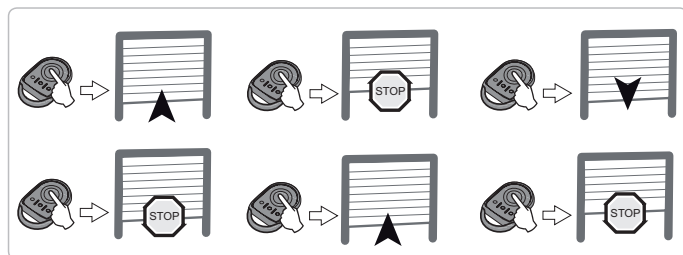


7 - CHECKING OPERATION OF THE RECEIVER



At the end of installation, it must be checked that the limitation of forces complies with appendix A of the standard EN 12 453.

7.1 Operation in sequential mode



7.2 Integrated lighting

The lamp comes on each time a command is sent to the receiver.
It goes out 2 minutes after the door stops.

7.3 Orange light

The orange light flashes every time the receiver is controlled, with or without a 2-second warning, depending on the configured parameter setting.
It stops flashing when the door stops.

7.4 Cells

If the cells are blocked when the door is closed, it stops, then re-opens fully.
If the cells are blocked when the door is opened, the door continues its movement.

7.5 Safety edge

If the safety edge is activated when the door is closing, it stops then re-opens partially.

If the safety edge is activated while the door is opening, it continues its movement.

7.6 Alarm (optional)

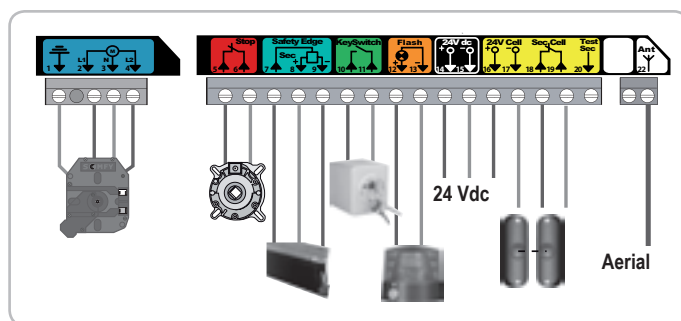
The alarm is triggered for 2 minutes if the door is fully closed and raised manually. No movement of the door is possible when the alarm is sounding.
When the alarm sounds, press a button on a remote control memorised in the receiver to stop it.



The alarm can only be stopped with a memorised remote control.

8 - CONNECTING ADDITIONAL DEVICES

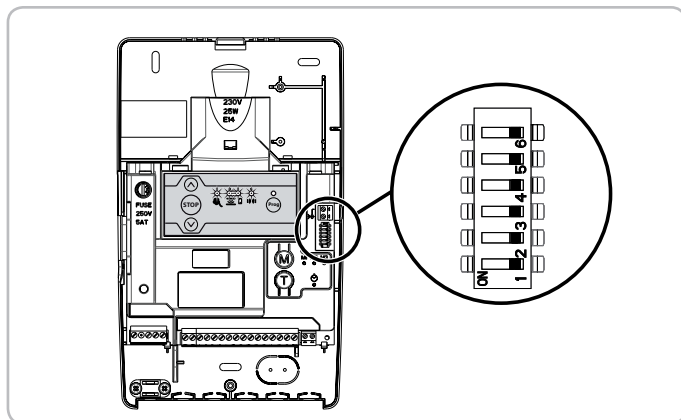
8.1 General wiring diagram



Terminal	Type of terminal	Connection	Comments
1	Earth	RDO CSI 50 or 60	
2	L1	motor	
3	Neutral		
4	L2		
5	Contact	Fall protection - NC contact	
6	Shared		
7	Contact	Safety edge safety input	Wired 8k2 resistive safety edge (terminals 7 - 8)
8	12 Vdc	12 Vdc safety edge power supply	Wired optical safety edge (terminals 7 - 8 - 9)
9	0 Vdc		
10	Contact	NO contact	Sequential control
11	Shared		
12	24 Vdc	24V - 3.5 W orange light output	Maximum 4 W bulb
13	0 Vdc		
14	24 Vdc	TX cell 24 V power supply	Transmitting photoelectric cell/Reflex photocell power supply
15	0 Vdc		
16	24 Vdc	RX cell 24 V power supply	Receiving photoelectric cell power supply
17	0 Vdc		
18	Shared		
19	Contact	Cell safety input (NC)	
20	Test output	Cell safety test output	Reflex photocell self-test
22		433.42 MHz aerial	Do not connect an offset aerial (incompatible)

8.2 Parameter setting for wiring options

Dipswitch	Possible parameter setting	ON	OFF
1	Cell self-test	Activated	Deactivated
2	Choice of cell type	Photoelectric	Electric eye
3	Orange light 2s warning	Activated	Deactivated
4	Choice of wired safety edge type	Resistive	Optical
5	Holiday mode parameter setting (see section 9.4)		
6	Do not use		



8.3 Description of the various additional devices

> Photoelectric cells

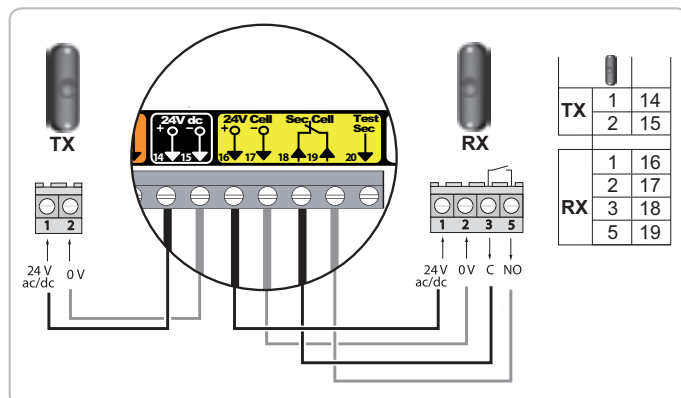
N.B.: In accordance with standard EN 12453 governing the safe use of motorised gates and doors, the use of the TAHOMA control box to automatically control a garage door or gate not visible to the user requires the installation of a photoelectric cell type safety device with autotest on the automatic control system.

	Receiver		Comments
	Dipswitch 1	Dipswitch 2	
Without auto-test	OFF	ON	Requires checking for correct operation every 6 months.
With auto-test	ON	ON	Enables an automatic test to be carried out to check the operation of the photoelectric cells each time the door moves. If the operational test is negative, closure is in downgraded mode (press and hold down).

If cells are removed, it is essential to create a bridge between terminals 18 and 19.

It is compulsory to install photoelectric cells if:

- the automatic control device is being controlled remotely (user unable to see it),
- automatic closure is activated.



> Reflex photocell

N.B.: In accordance with standard EN 12453 governing the safe use of motorised gates and doors, the use of the TAHOMA control box to automatically control a garage door or gate not visible to the user requires the installation of a photoelectric cell type safety device with autotest on the automatic control system.

	Receiver		Comments
	Dipswitch 1	Dipswitch 2	
Without auto-test	OFF	OFF	Requires checking for correct operation every 6 months.
With auto-test	ON	OFF	Enables an automatic test to be carried out to check the operation of the photoelectric cells each time the door moves. If the operational test is negative, closure is in downgraded mode (press and hold down).

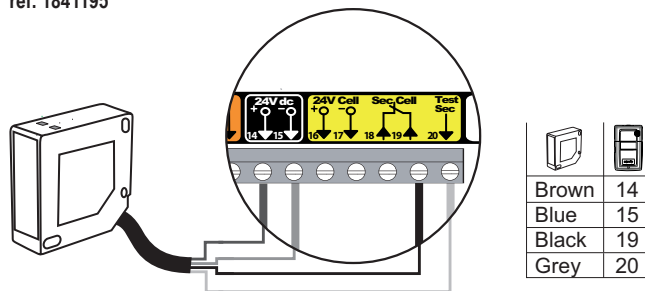
If cells are removed, it is essential to create a bridge between terminals 18 and 19.



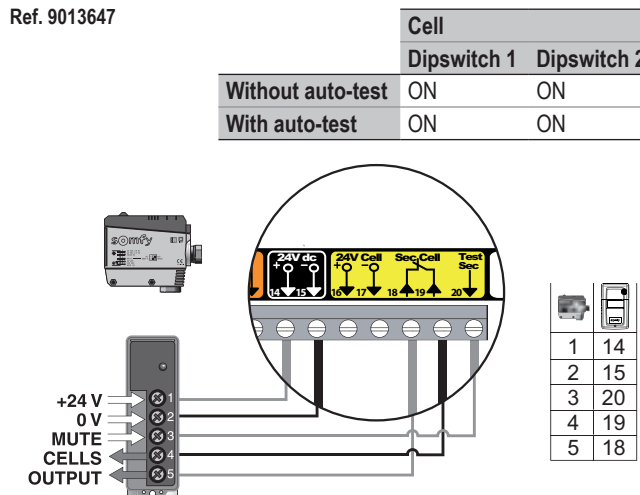
It is compulsory to install photoelectric cells if:

- the automatic control device is being controlled remotely (user unable to see it),
- automatic closure is activated.

ref. 1841195

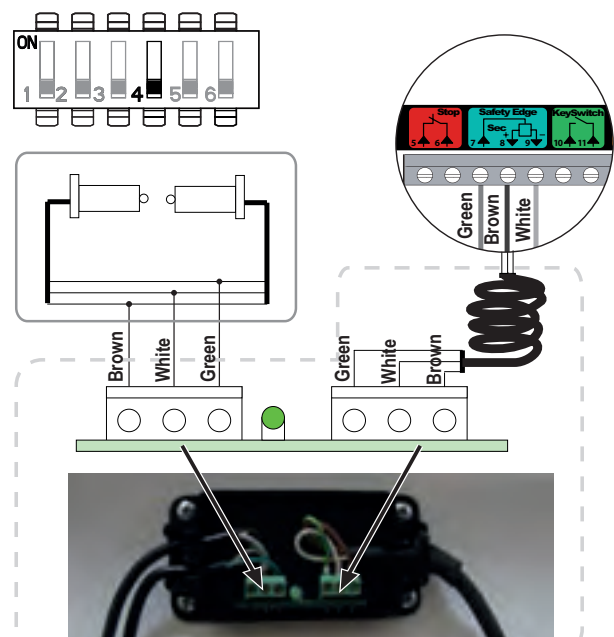


Ref. 9013647



> Optical wired safety edge - Dipswitch 4 receiver set at OFF

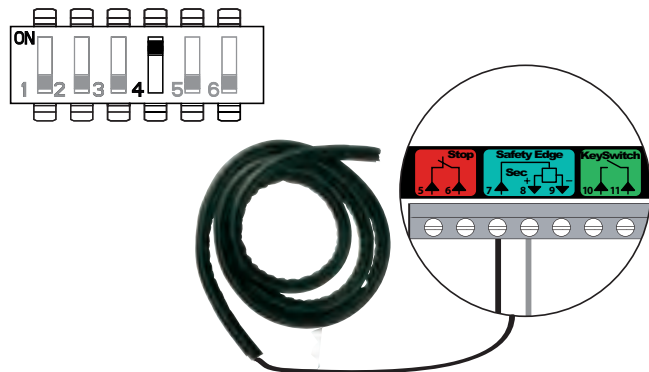
Dipswitch 4 receiver position



If a wired safety edge replaces a radio safety edge, the radio safety edge transmitter must be cleared (see section 13) to ensure the wired safety edge is taken into account.

> Wired 8k2 resistive safety edge - Dipswitch 8k2 4 receiver set to ON

Dipswitch 4 receiver position

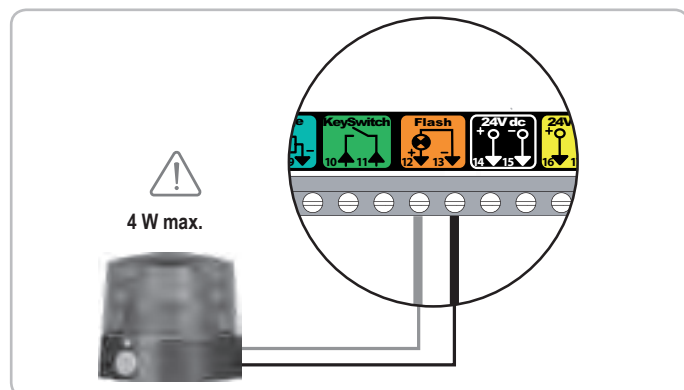


If a wired safety edge replaces a radio safety edge, the radio safety edge transmitter must be cleared (see section 13) to ensure the wired safety edge is taken into account.

> Orange LED (part no. 9017842)

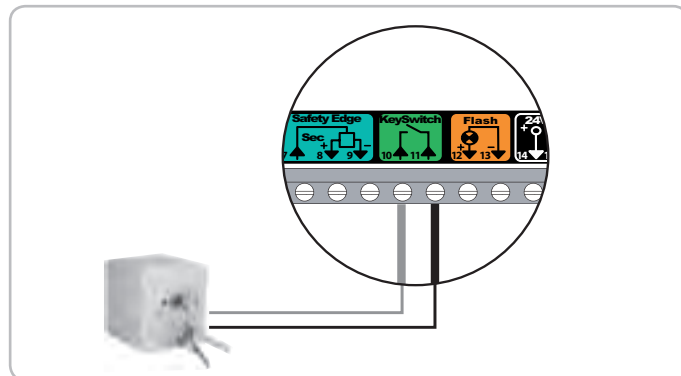
Dipswitch 3 receiver set to ON → 2-second warning activated

Dipswitch 3 receiver set to OFF → No warning



> Key lock

Successive presses cause the motor to move (initial position: door closed) as per the following cycle: open, stop, close, stop, open, etc.



> Alarm



It is essential to have programmed at least one remote control. The alarm can only be stopped with a memorised remote control.

• Installing and connecting the alarm

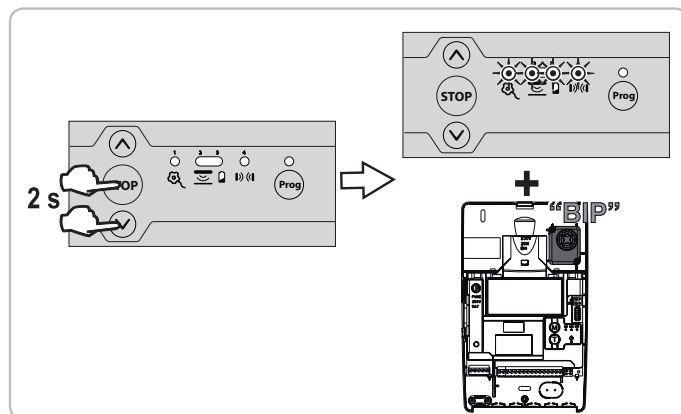
Mount the alarm to the receiver with the bolt provided.

Connect the alarm connector.

• Activating/Deactivating the alarm

To activate/deactivate the alarm, simultaneously press the **STOP** and **✓** buttons on the receiver until the 4 indicator lights flash rapidly.

The alarm emits a beep if it has been activated.



• Alarm operation

The alarm is triggered for 2 minutes if the door is raised manually.

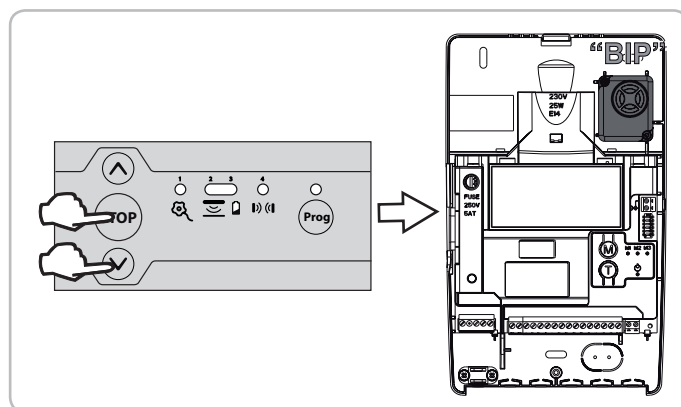
No movement of the door is possible when the alarm is sounding.

When the alarm sounds, press a button on a remote control memorised in the receiver to stop it. The alarm can only be stopped with a memorised remote control.


• Alarm operation test

Simultaneously press then quickly release the **STOP** and **✓** buttons on the receiver.

The alarm triggers briefly to indicate that it is activated.



• Anti-intrusion function test

- Press button  to position the garage door in the low position.
- Wait until the transmitter switches to sleep mode (instant if base magnet installed).
- Manually raise the door by pressing on the rubber. The alarm is triggered.
- Press a button on a remote control memorised in the receiver to stop the alarm.

• Optional: base magnet

A base magnet can be fitted if the alarm is triggered unexpectedly (see section 4.2).

9 - ADVANCED PARAMETER SETTING

9.1 Different operating modes

> 2 operating modes are available:

Sequential (default mode)	Each press on the remote control causes the motor to move (initial position: door closed) as per the following cycle: open, stop, close, stop, open, etc.
Semi-automatic	In semi-automatic mode: - pressing a button on the remote control during opening has no effect, - pressing a button on the remote control during closing causes it to reopen.

> 2 automatic closure options are available for the door:

Closure time delay	With automatic closure time delay: - the door is closed automatically after the programmed time delay has elapsed (20 s, by default), - pressing a button on the remote control interrupts the movement taking place and the closure time delay (the door remains open).
Cell locking	After the door is opened, movement in front of the cells (safe closure) will close the door after a short timed delay (fixed at 5 seconds). If there is no movement in front of the cells, the door will close automatically after the programmed closure time delay (20 s, by default). If there is an obstacle in the cells' detection zone, the door will not close. It will close once the obstacle is removed.

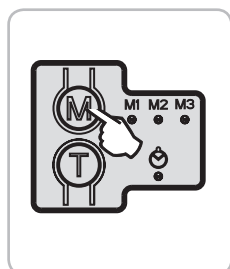
Note: by default, no automatic closure option for the door is activated.



The installation of photoelectric cells is mandatory in the event that an automatic closure option is activated.

9.2 Programming operating modes

> Changing the operating mode

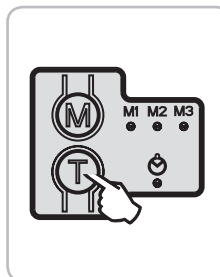


Briefly press the M button to switch from sequential mode to semi-automatic mode.

Indicator lights			Mode activated
M1	M2	M3	
		Not used	Sequential
			Semi-automatic

9.3 Automatic closing mode

> Activating automatic closure



Short press on the T button to activate automatic closure.

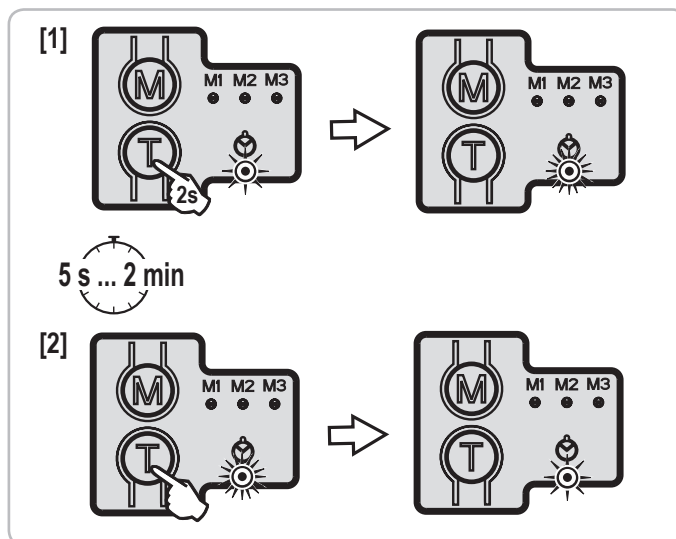
Indicator light	Automatic closure option activated
	Closure time delay
	Cell locking
	No option active

> Modification of the automatic closure time delay

The automatic closure time delay can be adjusted from 5 seconds to 2 minutes (20 seconds by default)

To modify the automatic closure time delay, one or other of the automatic closure options must be activated.

- Run the timer by pressing and holding down the T button for 2 seconds. Indicator light flashes rapidly.
- Stop the timer by briefly pressing the T button when the desired time delay is obtained. Indicator light flashes slowly or comes on permanently.




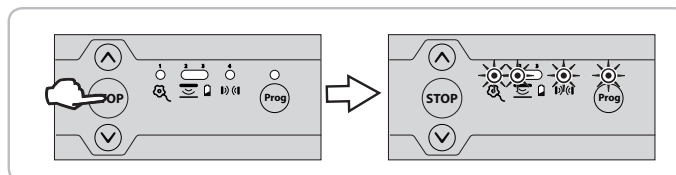
9.4 Holiday mode

> Activating/deactivating holiday mode



The door must be closed to activate this mode.

To activate/deactivate holiday mode, press the  button until the 4 indicator lights flash rapidly for 2 seconds.



When holiday mode is active, each time a locked control (programming interface or remote control) is pressed, indicator lights 1, 2, 3 and Prog start flashing for 2 seconds.

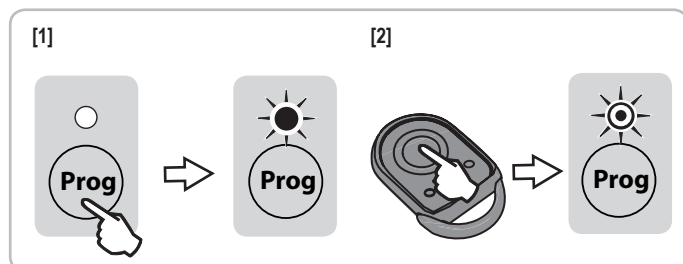
> Holiday mode parameter setting

	ON	OFF	Comments
Dipswitch 5		X (default setting)	Programming Interface locked (remote controls and keyswitch active)
Holiday mode	X		Remote controls locked (programming interface and keyswitch active)

10 - STORING THE REMOTE CONTROLS

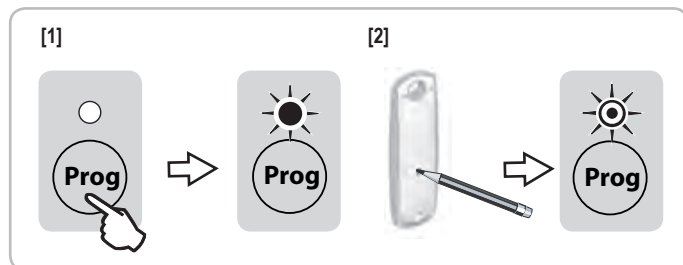
10.1 Memorising 2 or 4-button remote controls

- Press the **Prog** button on the receiver until the indicator light comes on permanently.
- Press a button on the remote control to be memorised within a maximum time delay of 2 minutes.
The indicator light above button **Prog** on the receiver flashes; the remote control is memorised in the receiver.



10.2 Memorising 3-button remote controls

- Press the **Prog** button on the receiver until the indicator light comes on permanently.
- Press the PROG button on the back of the remote control to be memorised within a maximum of 2 minutes.
The indicator light above button **Prog** on the receiver flashes; the remote control is memorised in the receiver.



10.3 Memorising by copying a previously memorised remote control

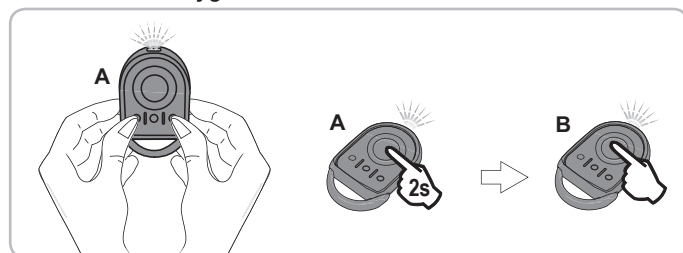


This operation must be carried out close to the receiver.

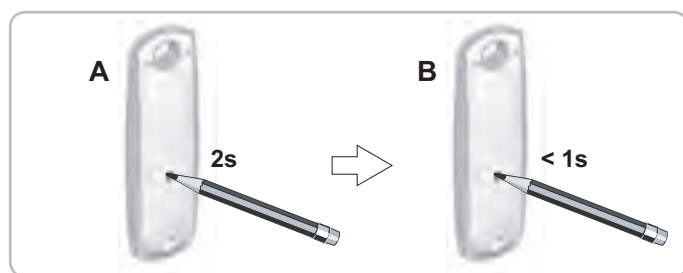
A = "source" remote control already stored

B = "target" remote control to be stored

> With an RTS Keygo



> With a 3-button remote control

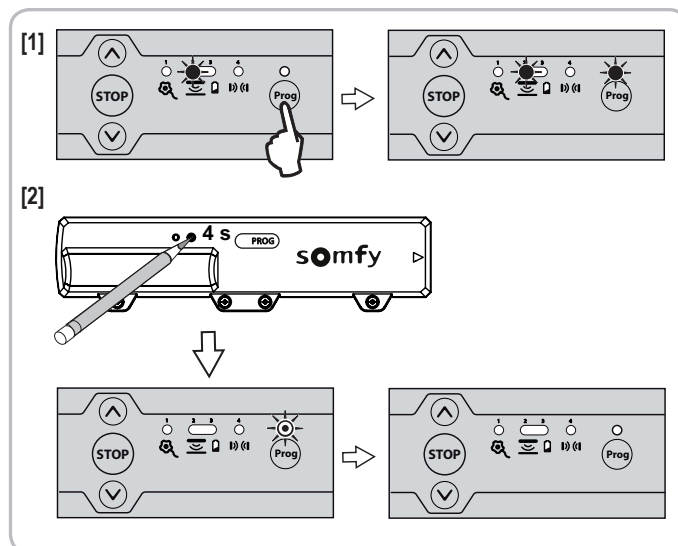


11 - MEMORISING SAFETY EDGE TRANSMITTERS

Memorising a new radio safety edge transmitter overwrites the previous transmitter.

11.1 Storing an XSE or OSE transmitter

- Press the **Prog** button on the receiver until the indicator light comes on permanently.
- Using the tip of a pen, press the transmitter PROG push-button for 4 seconds.
Indicator light 2 on the receiver goes out and the receiver Prog indicator light will flash and then go out (this may take a few seconds, the time required for the transmitter and receiver to communicate with each other).
The transmitter is memorised in the receiver.

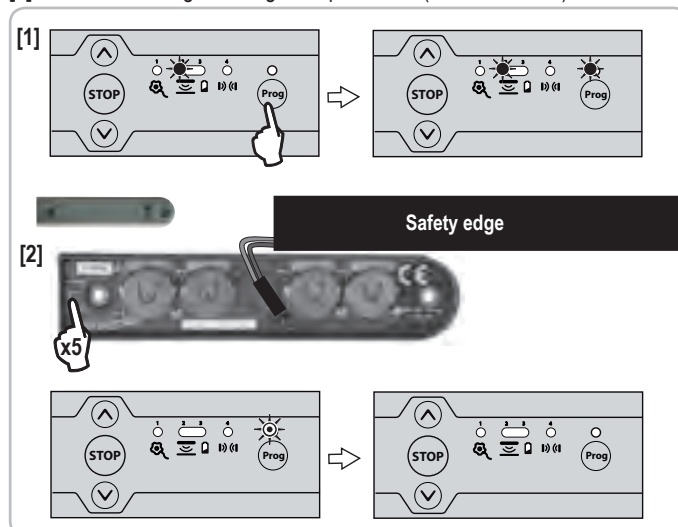


11.2 Storing an ESE transmitter



The transmitter must already be installed and the resistive safety edge must be connected to the transmitter.

- Press the **Prog** button on the receiver until the indicator light comes on permanently.
- Press the button on the back of the safety edge transmitter 5 times.
The safety edge transmitter indicator light comes on with each press and after the 5th press remains constantly lit for 4 seconds and then flashes for 4 seconds.
Indicator light 2 on the receiver goes out and the receiver Prog indicator light will flash and then go out (this may take a few seconds, the time required for the transmitter and receiver to communicate with each other).
The transmitter is memorised in the receiver.
- Restart the magnet recognition procedure (see section 6.3).



12 - CLEARING THE REMOTE CONTROLS

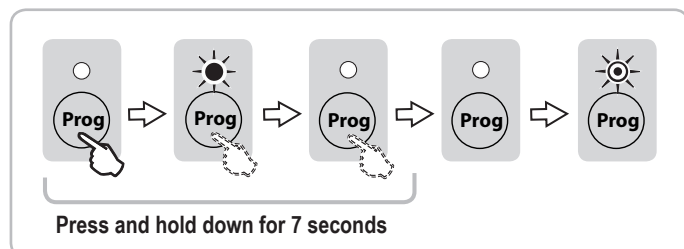
12.1 Clearing a remote control

Executing "Remote control memorisation" procedures on an already memorised remote control clears it.

12.2 Clearing all remote controls

- Press button **Prog** on the receiver (for approximately 7 seconds) until the indicator light above it goes out.
- Release button **Prog** on the receiver when the indicator light goes out; the indicator light flashes slowly.

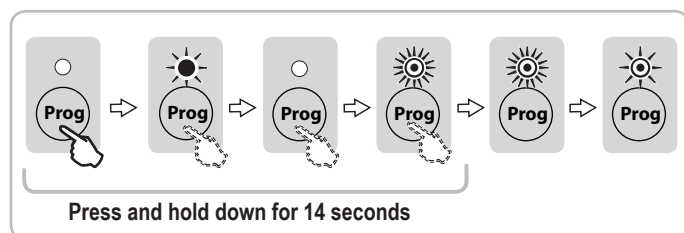
All memorised remote controls will be cleared.



13 - CLEARING SAFETY EDGE TRANSMITTERS

Note: This operation must be carried out when a radio safety edge is replaced with a wired safety edge.

- Press button **Prog** on the receiver (for approximately 14 s) until the indicator light above it goes out.
- Release button **Prog** on the receiver during rapid flashing of the indicator light; the indicator light flashes slowly. The safety edge transmitter is cleared.

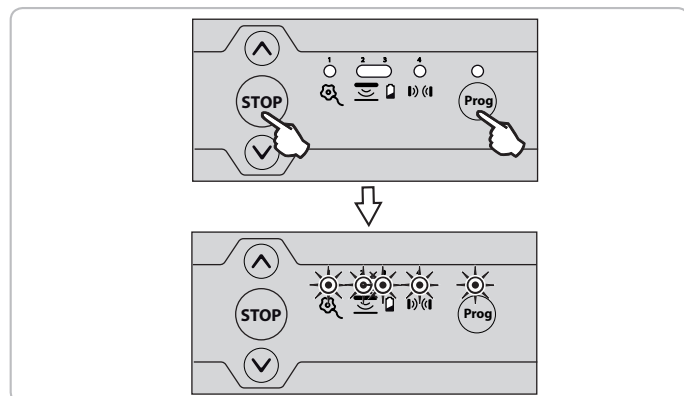


14 - LOCKING/UNLOCKING THE PROGRAMMING BUTTONS

The programming buttons must be locked to ensure user safety. When the programming buttons are locked, the following functions cannot be accessed:

- entering programming mode by pressing button **Prog** on the receiver
- entering motor end limit setting mode by pressing buttons **↶** and **↷** on the receiver
- setting the operating modes.

To lock the programming buttons, press buttons **STOP** and **Prog** on the receiver until all the indicator lights flash.



To lock the programming buttons, repeat the locking procedure described above.

15 - DIAGNOSTICS

15.1 Receiver

Indicator light status	Meaning
○ Off	Functional installation
☀ Slow flashing	Waiting for an action/adjustment
☀ Rapid flashing	Deactivation/activation in progress
☀ Permanently lit	Installation fault/failure

		Indicator light status					
		☀	○	○	☀	☀	Prog
Fall protection		☀	○	○	○	○	
	Diagnostics	Fall protection is not connected or there is no bridge on the connector if fall protection is connected to the shared motor terminal Fall protection triggered					
	Consequences	No movement possible					
	Actions	Check the fall protection wiring (see section 3.2).					
Motor		☀	○	○	○	○	
	Diagnostics	Incorrectly wired motor					
	Consequences	No movement possible					
	Actions	Check the motor wiring (see section 3.2).					
	Diagnostics	Fall protection triggered (when fall protection is connected to the shared motor terminal)					
	Consequences	No movement possible					
	Actions	Check the installation and replace the fall protection.					
	Diagnostics	Activated motor thermal protection					
	Consequences	No movement possible					
	Actions	Wait around 10 minutes.					
	Diagnostics	Faulty motor or fuse blown					
	Consequences	No movement possible and integrated lighting off					
	Actions	Check the condition of the fuse and replace it if necessary (spare fuse supplied, see section 2.2, point 13). If the motor still does not work, replace it.					
Optical wired safety edge		☀	○	○	○	○	
	Diagnostics	Waiting for motor adjustment					
	Actions	Set the motor end limits (see section 3.4).					
		○	☀	○	○	○	
	Diagnostics	Optical wired safety edge failure					
	Consequences	Opening ok Closing by pressing and holding down the button within sight of the door					
Optical wired safety edge	Actions	<ul style="list-style-type: none"> - Check the type of safety edge connected (optical wired safety edge, dipswitch no.4 set to OFF); if the connected wired safety edge is resistive, move dipswitch no.4 to ON. - Check the safety edge wiring (see section 8.3). - Check that no radio safety edge transmitter is stored in the receiver. If a radio safety edge transmitter is stored in the receiver, clear it (see section 13). 					

		Indicator light status				
						Prog
Resistive wired safety edge		○	☀	○	○	○
	Diagnostics	Wired resistive safety edge failure				
	Consequences	Opening ok Closing by pressing and holding down the button within sight of the door				
	Actions	<ul style="list-style-type: none"> - Check the type of safety edge connected (wired resistive safety edge, dipswitch no.4 set to ON); if the connected wired safety edge is optical, move dipswitch no.4 to OFF. - Check the safety edge wiring (see section 8.3). - Check that no radio safety edge transmitter is stored in the receiver. If a radio safety edge transmitter is stored in the receiver, clear it (see section 13). 				
Radio safety edge		○	☀	○	○	○
	Diagnostics	Radio safety edge failure				
	Consequences	Opening ok Closing by pressing and holding down the button within sight of the door				
	Actions	Request movement again and if the problem persists: <ul style="list-style-type: none"> - See radio safety edge transmitters for diagnostics (see sections 15.2, 15.3 and 15.4). - Repeat the safety edge transmitter programming procedure on the receiver (see section 11). 				
		○	☀	○	○	☀
	Diagnostics	Radio interference on the safety edge transmitter				
	Consequences	Opening and stopping ok Closing by pressing and holding down the button within sight of the door: the closing movement will automatically resume when the radio interference disappears.				
	Actions	If a powerful radio system is present on the site (infrared detector, TV transmitter, etc.) and is transmitting on the same frequency, the receiver will wait for the transmission to end to before controlling the door again.				
		○	☀	○	○	○
	Diagnostics	Upper magnet absent if ESE edge transmitter installed				
	Consequences	Opening ok Closing by pressing and holding down the button within sight of the door				
	Actions	Check that the magnet is present and install if not (see section 6.1).				
		○	☀	☀	○	○
	Diagnostics	End of life of the safety edge transmitter batteries				
	Consequences	Opening ok Closing by pressing and holding down the button within sight of the door				
	Actions	Safety edge transmitter low battery indication. If the fault persists, replace the safety edge transmitter batteries.				

		Indicator light status				
						Prog
		○	☀	○	○	○
	Diagnostics	Obstacle detection				
	Consequences	Remove the obstacle by automatic partial opening				
	Actions	Check that no obstacle is causing the safety edge to detect. If the floor is being detected, check that there is a magnet fitted at the down point and install one if necessary or rectify the ground to make it smooth and even.				
		○	○	○	☀	○
	Diagnostics	Cell fault				
Photoelectric cells	Consequences	Opening ok Closing by pressing and holding down the button within sight of the door				
	Actions	If no cells are installed, check that the connector (terminals 18 and 19) is bridged. If cells are installed: <ul style="list-style-type: none"> - Check that no obstacle is cutting across the cell beam - Check the position of dipswitch no.2 according to the type of cell (see section 8.2). - Check the cell wiring (see section 8.3). 				
		○	○	○	☀	○
	Diagnostics	Bridged cell connector				
	Consequences	Opening ok Closing by pressing and holding down the button within sight of the door				
	Actions	If no cells are installed and cell connectors are bridged (terminals 18 and 19), check that dipswitch no.1 is set to OFF.				
		○	○	○	☀	○
	Diagnostics	Obstacle detection				
	Consequences	Remove the obstacle by full automatic opening				
	Actions	Check that no obstacle is cutting across the cell beam.				
Radio		○	○	○	○	☀
	Diagnostics	Radio frame received from a recognised transmitter				

15.2 XSE transmitter

> Problem on XSE transmitter

LED1 and LED2: ○☀ / ☀☀ / ☀☀☀

Stage 1: CHECK THE BATTERY

Remove the battery then press a button (PROG or MODE) to discharge the residual energy from the electronics. Refit the battery and wait for the automatic battery test to be completed (an orange light flashes to signal the test is under way - it may last up to 2 minutes).

- If LED1 and LED2 light up red for 5 seconds, replace the battery and repeat the operations above.
- If LED1 and LED2 light up green for 5 seconds, skip to step 2.

Stage 2: CHECK THE OPERATION OF THE SAFETY EDGE

Press and hold the MODE button for 3 seconds to launch safety edge detection.

- If LED2 lights up green then the safety edge and transmitter are operating correctly. Squeeze the safety edge and check that LED2 lights up red.
- If not, go to step 3.

Stage 3: DETERMINE THE ORIGIN OF THE FAULT: XSE TRANSMITTER OR SAFETY EDGE?

Disconnect the safety edge.

Test 1: Press and hold the MODE button for 3 seconds to launch safety edge detection.

- If LED2 flashes red for 8 seconds then the XSE transmitter is operating correctly.
- If not, the XSE transmitter is faulty.

Test 2 (optional): Press and hold the MODE button for 3 seconds to launch safety edge detection by short-circuiting the 2 contacts on the ESE J3 connector (using a flat-blade screwdriver).

- If LED2 lights up red for 8 seconds then the XSE transmitter is operating correctly.
- If not, the XSE transmitter is faulty.

If tests 1 and 2 show that the transmitter is operating correctly, replace the safety edge.

> Problem waking up the transmitter at the Up point

Important: For each test, wait until LED2 goes off to test that the transmitter wakes up.

Test 1: Check that the XSE transmitter is working by tapping it and check that LED2 lights up green. If not, press and hold the PROG button for 3 seconds and retest. If the problem persists, replace the XSE transmitter.

Test 2: Open the door fully, check that a base magnet is fitted and/or that dipswitch 3 is ON, then retest.

Test 3: If the problem persists, fit an upper magnet and set dipswitch 4 on the XSE transmitter to ON then retest.

If the problem persists, replace the XSE transmitter.

15.3 ESE transmitter

Press the button on the inside of the transmitter once.

The transmitter indicator light will come on.

If the indicator light flashes:

6 times → the safety edge is faulty (short-circuit).

8 times → the safety edge has not been correctly lengthened (open circuit).

**15.4 OSE transmitter**

Press the PROG SW4 button on the safety edge transmitter. Press it down until the indicator light goes out (the indicator light is permanently lit while the button is pressed).

The transmitter indicator light will illuminate:

- first green to provide information on the assembly configuration
- then red to indicate any faults.

Green OSE transmitter light		
Status	Diagnostics	Actions
1 green flash	Operation without magnet (default)	Check that there are no magnets installed on the door runner.
2 green flashes	Operation with base magnet only	Check that magnet(s) are fitted on the door runner.
3 green flashes	Operation with upper magnet only	Check that the safety edge transmitter and the magnet(s) are installed on the right-hand side of the door.
4 green flashes	Operation with upper and base magnets	Perform the installation with magnet procedure again.

OSE transmitter indicator light fixed red: transmitter faulty

Actions	Transmitter indicator light status	Actions
Open the OSE transmitter housing. Remove and refit the battery	LED 1 and LED 2: flash green once then flash orange for 1 to 30 seconds, then flash green for 5 seconds.	The battery and the transmitter are operating correctly. If the problem persists, replace the battery (part no. 1782078).
	LED 1 and LED 2: flash orange for 1 to 2 minutes	The battery is low, replace it (part no. 1782078).
	LED 1 and LED 2 remain off	The OSE transmitter is no longer operating and must be replaced (ref. 1781245). Follow the instructions provided with the OSE transmitter then carry out commissioning as described in section 5.
Open the OSE transmitter housing. Press button SW2 until LED 1 lights up permanently red.	LED 1 and LED 2 remain off	
	LED 1 and LED 2 light up red briefly	Check that the rubber on the safety edge is not crushed and repeat the check. Check the photoelectric sensor wiring and repeat the check. If the problem persists, replace the optical cells by following the instructions provided with the cells. Photoelectric sensors: - for a strip of 3 m max.: ref. 9016767 - for a strip of 7 m max.: ref. 9015560
	LED 1 lights up green then LED 2 lights up permanently green for 8 seconds.	The OSE transmitter and the photoelectric sensors are operating correctly. If the problem persists, replace the battery (part no. 1782078).

16 - TECHNICAL SPECIFICATIONS**GENERAL SPECIFICATIONS**

Power supply	230 V - 50-60 Hz
Electrical insulation	Category 1
Maximum motor output	230 V - 1250 W
Safety fuse for motor and integrated lighting	5 AT - 250 V - spare fuse supplied
Climatic operating conditions	- 20°C/+ 60°C - IP 20
Somfy radio frequency	433.42 MHz
Number of storable remote controls	32

CONNECTIONS

Mains power supply cable	2 m - IEC sheet (phase-neutral-earth)
Integrated courtesy lighting	E14 - 15W max. - 230V
Safety inputs	3 inputs for: - Wired safety edge: optical, resistive - Fall protection device - Photoelectric cells

Self-test output for safety devices	For cells
Wired control input	NO dry contact - sequential operation
Orange light	24V - 4W max.
Alarm siren output	Yes

OPERATION

Control buttons	Up-Stop-Down buttons in the control panel
Automatic closing mode	Yes
Maintenance assistance	Real time status with 5 indicator lights