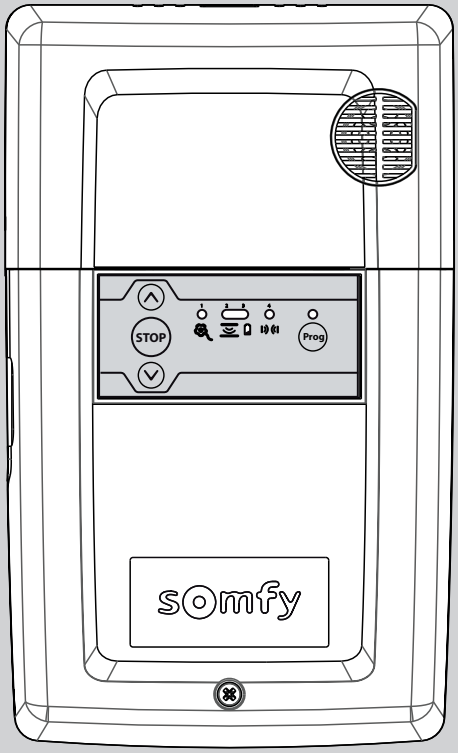


ROLLIXO RTS

EN Installation Guide

HOME MOTION by somfy

EN

CONTENTS

EN

GENERAL INFORMATION

This product, installed in accordance with this guide, complies with the EN 13241-1 and EN 12453 standards.

The instructions referred to in the product's installation guide and instructions for use are designed to prevent damage to property and personal injury along with compliance with the above standards.

Somfy declares that this product complies with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity is available at www.somfy.com/ce (ROLLIXO RTS).

Product can be used in the European Union, Switzerland and Norway.

SAFETY INSTRUCTIONS

Caution

Always read this installation guide and the attached safety instructions before installing this Somfy product.

This guide describes how to install, commission and operate this product. Follow all the instructions as incorrect installation can lead to serious injury.

Any use outside the sphere of application specified by Somfy is forbidden. This invalidates the warranty and discharges Somfy of all liability, as does any failure to comply with the instructions given herein.

This Somfy product must be installed by a professional motorisation and home automation installer, for whom this guide is intended.

Moreover, the installer must comply with current standards and legislation in the country in which the product is being installed, and inform his customers of the conditions for use and maintenance for the product. It is the installer's responsibility to ensure that the automatic installation and its operation are compliant with the standards in force.

This device is not designed to be used by persons (including children) whose physical, sensory or mental capacity is impaired, or persons with little experience or knowledge, unless they are under supervision or have received instructions on using the device by a person responsible for their safety. Children should be supervised to ensure they do not play with the device.

Safety instructions

Pre-installation checks

The product must not be fitted in an area prone to water splashes.

Check there are no dangerous parts accessible on the door. If this is the case, protect them.

Installation

Before fitting the receiver, refer to the safety instructions for the RDO CSI motor.

With RDO CSI motors, the receiver must be fitted inside the garage.

The receiver and non-locking switches must be installed in direct view of the door, but away from moving sections. The minimum height at which they must be installed is 1.5 m and they must not be accessible to the public.

Place the fixed control devices and remote controls out of the reach of children.

The safety instructions must be followed throughout the installation:
- Take off any jewellery (bracelet, chain, etc.) during installation.
- For drilling and welding operations, wear special glasses and appropriate protection.
- Use the appropriate tools.
- Be careful when handling the motorisation system to prevent any risk of injury.
- Do not connect to the mains before completing the assembly process.
- Never use high water pressure cleaning equipment.

After installation, ensure that:
- the mechanism is correctly adjusted,
- the protection system and any manual back release system operate correctly
- the motorisation changes direction when the door encounters an obstacle 40 mm high positioned on the ground.

Power supply

In order to operate, the motorisation must be supplied with 230 V 50 or 220 V 60 Hz. The electric line should:
- be exclusively reserved for the motorisation,
- have a minimum cross-section of 1.5 mm²,
- be fitted with an approved all-pole switch with contact openings of at least 3.5 mm, fitted with a protection device (fuse or circuit breaker with a 16 A rating) and a differential device (30 mA),
- be installed in accordance with the current electrical safety standards,
- be fitted with a lightning conductor (in compliance with standard NF C 61740, maximum residual voltage 2 kV),

Check whether the earthing system is installed correctly: connect all the metal parts of the assembly and all the components of the installation equipped with earth terminals.

Safety devices

The selected safety accessories for the installation must comply with the current standards and regulations in force in the country in which the product is being installed. The use of any safety components not approved by Somfy remains the sole responsibility of the installer.

If the garage door faces a public road, fit an orange light type signalling device.

The bottom of the door must be fitted with a safety edge compatible with the Rollixo system.

Install all the safety devices (photoelectric cells, safety edges, etc.) required to protect the zone from the danger of crushing, entanglement and cutting according to the applicable directives and technical standards.

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.

Maintenance

Before carrying out work on the installation, switch off the power supply.

Use only original parts for any maintenance or repair work.

DESCRIPTION OF THE ROLLIXO RECEIVER

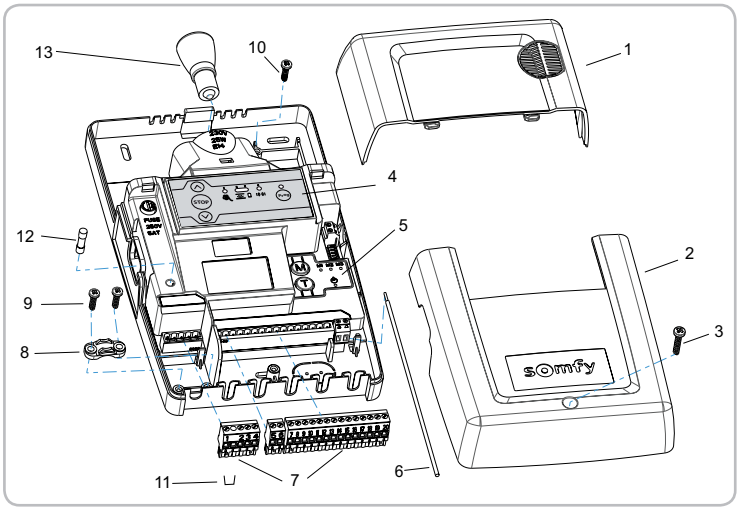
EN

Area of application

- Roller garage doors for residential use.
- Compatible with RDO CSI 50 and 60 motors
- External dimensions of the door:
  Height = 4 m maximum
  Width = 6 m maximum

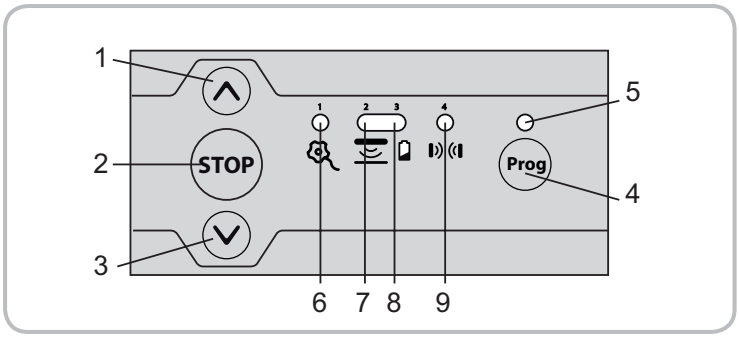
Description of the Rollixo receiver

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
13	E14 - 25W - 230V bulb

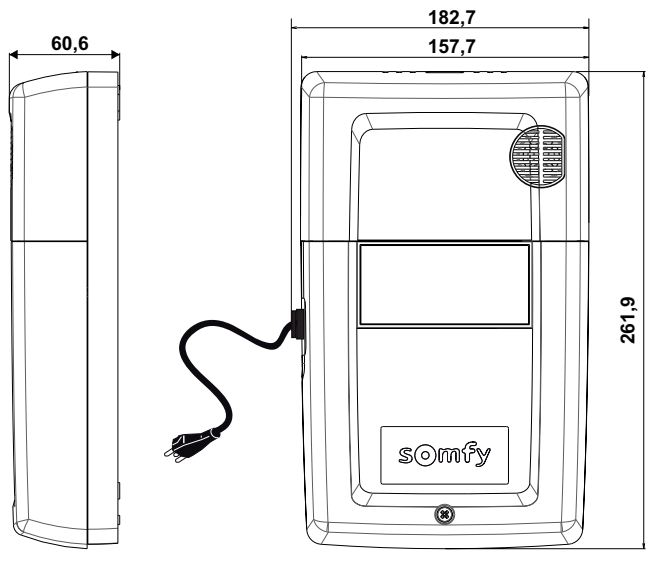


Description of the external programming interface

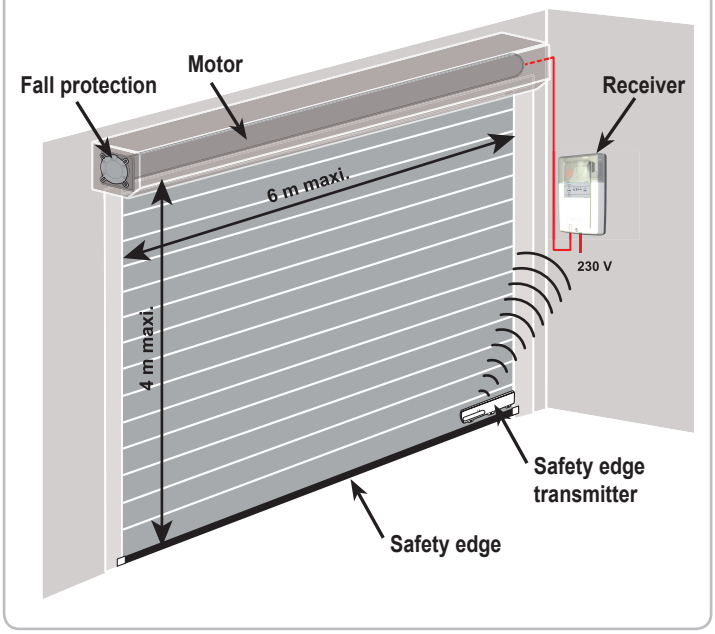
No.	Description	Function
1	Up button	Opening the door
2	STOP Button	Stopping the door
3	Down button	Closing the door
4	Prog Button	Programming radio transmitters
5	Prog Indicator light	Information on radio reception and programming radio transmitters
6	Motor and fall protection warning light	Information 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



Space requirements



Standard installation diagram



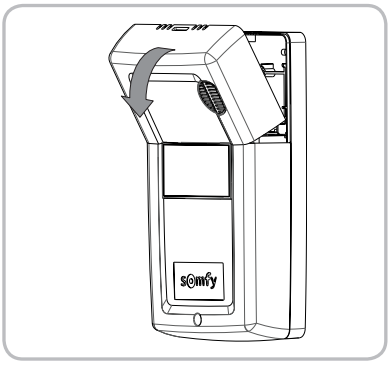
EN

INSTALLATION

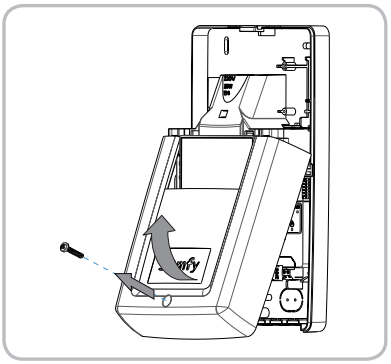
Mounting the Rollixo receiver

⚠ ***Ensure the wall plug is at the correct distance. A 2 m mains power cable is supplied with the receiver.***
It is advisable to install the receiver on the same side of the door as the safety edge transmitter.

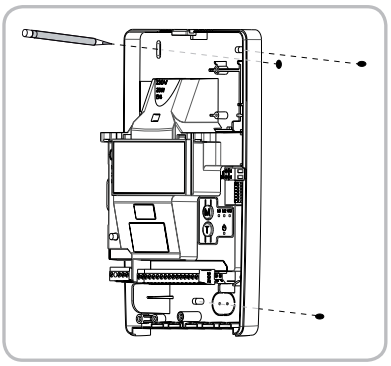
[1]. Remove the integrated light bulb.



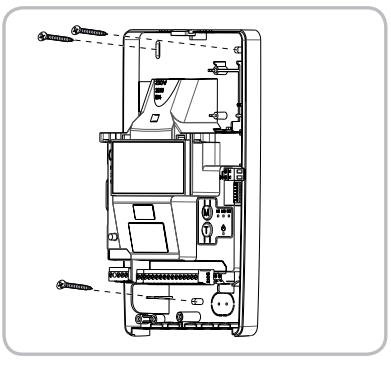
[2]. Unscrew and remove the receiver cover.



[3]. Hold the receiver against the wall (lighting facing upwards) and line up with drilled holes.



[4]. Mount the receiver onto the wall.



Motor and fall protection wiring

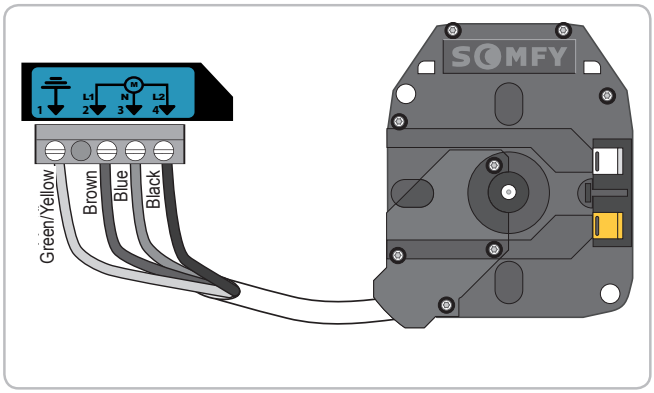
The receiver must not be connected to the mains power supply during connection to the motor.

EN

Motor wiring

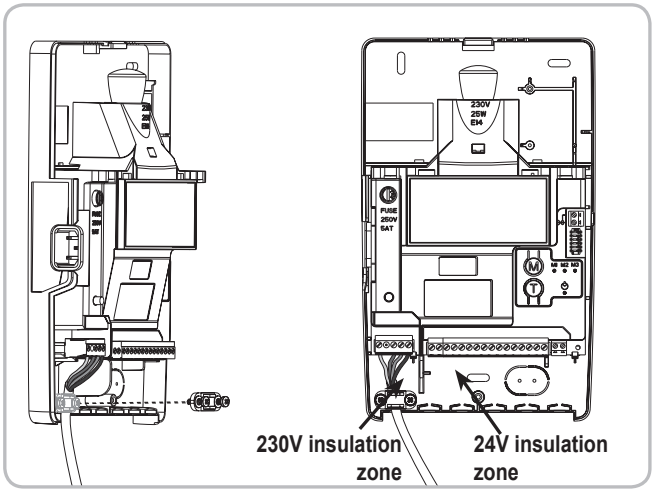
[1]. Connect the motor to the receiver.

Note: the motor's direction of rotation shall then be checked and reversed if necessary.



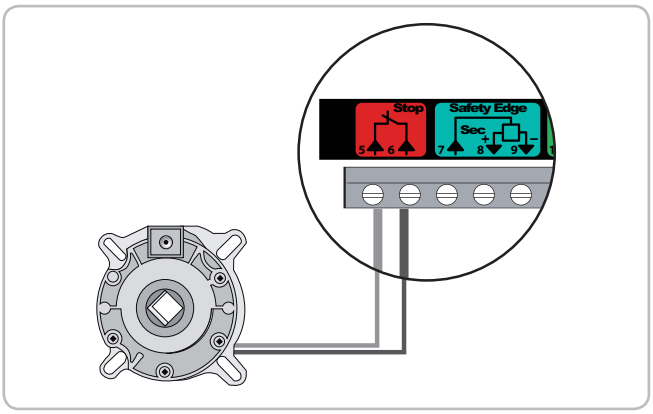
[2]. Lock the motor cable with the cable clamp provided.

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



Fall protection wiring

If no fall protection is connected, it is essential to create the bridge between terminals 5 and 6 of the receiver (with the shunt provided).



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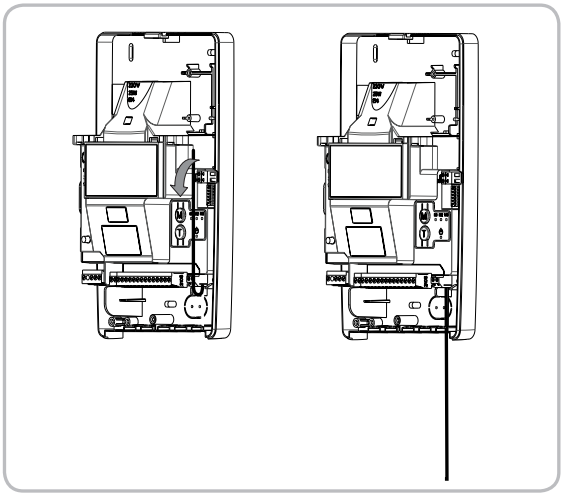
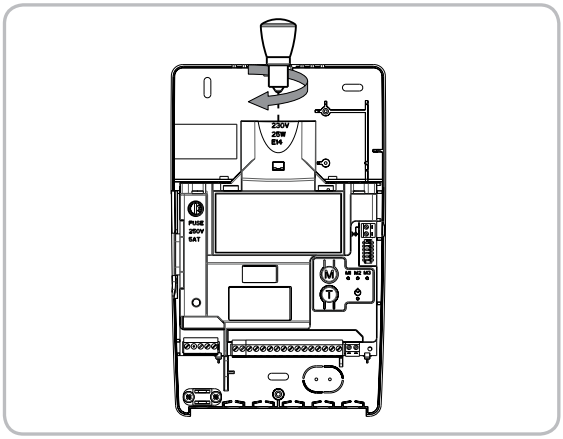
Connecting the receiver to the mains power supply

[1]. Fully unfold the receiver aerial so that it is pointing downwards.

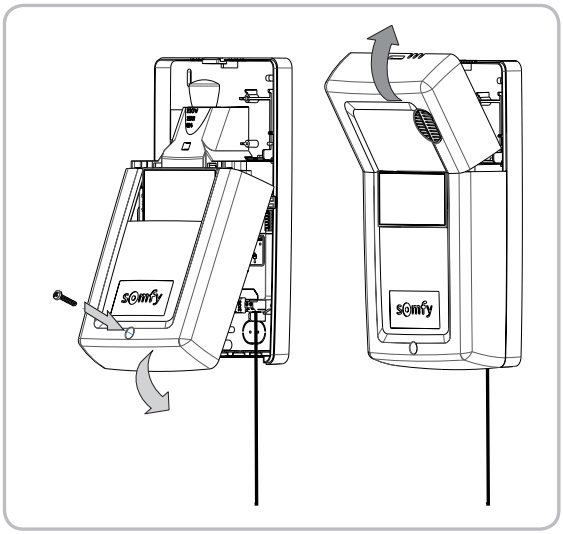


[2]. Screw the bulb supplied into the receiver.

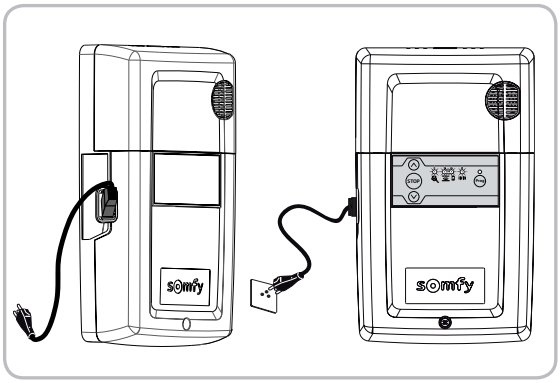


[3]. Replace and screw in the receiver cover.

[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).



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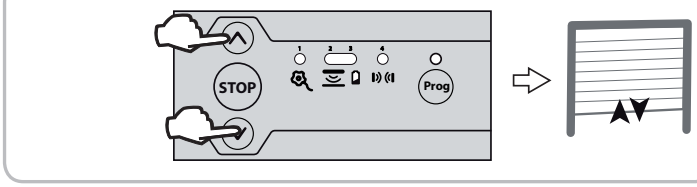
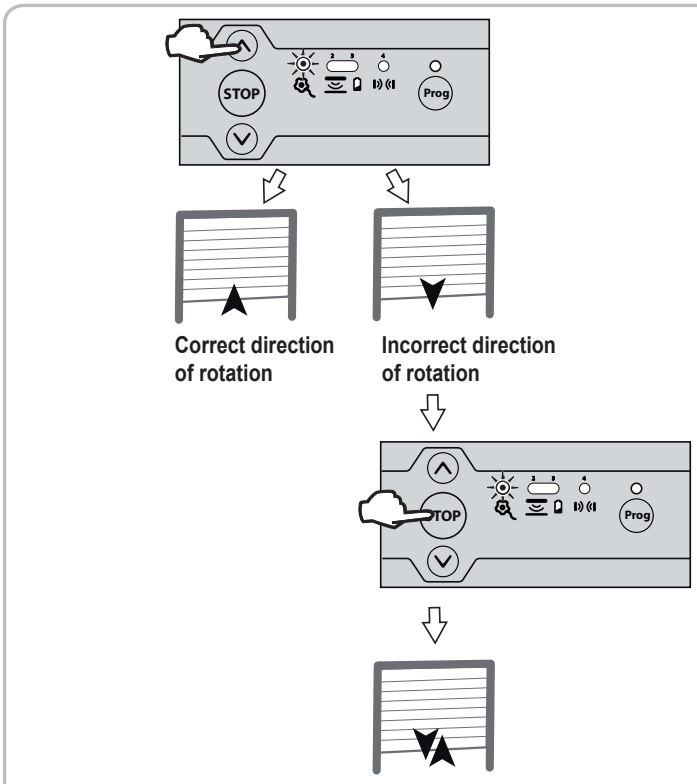
Checking the direction of rotation of the motor and adjustment of the motor end limits

[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.



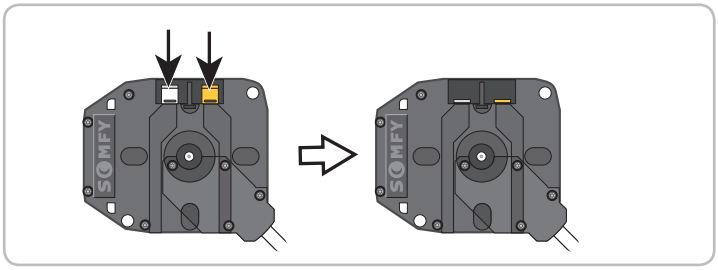
[2]. Press button ▲ or ▼ to check the motor's direction of rotation.

- 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 STOP 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.

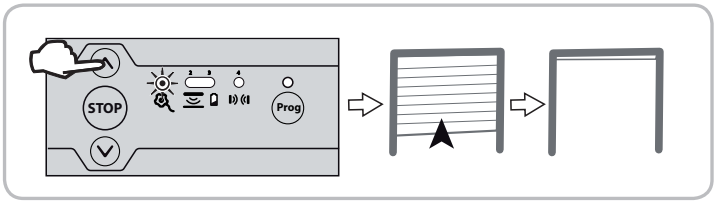


[3]. If the motor end limits are already set, move on to step [8] to exit motor adjustment mode.
If the motor end limits are not set, check that the motor is released: the two push-buttons should be pressed.

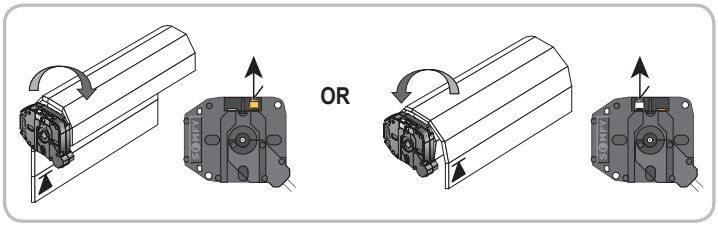
Note: The motor end limits can also be set with a setting tool (ref. 9015971). In this case, set the motor end limits with the cable then move on to step [8] to exit motor adjustment mode.



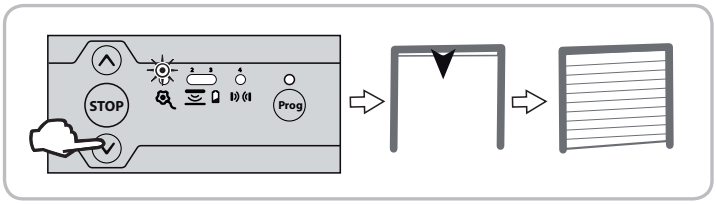
[4]. Press button ▲ to position the garage door in the upper position.
Adjust the upper position with buttons ▲ and ▼.



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



[6]. Press button ▼ to position the garage door in the lower position.
Adjust the low position with buttons ▲ and ▼.



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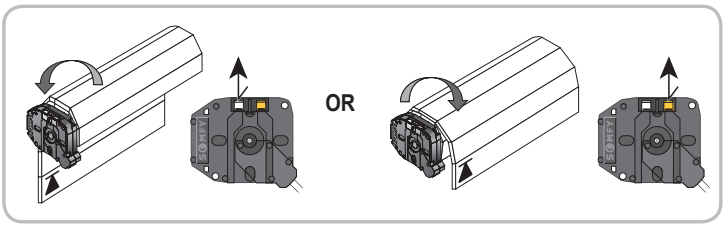
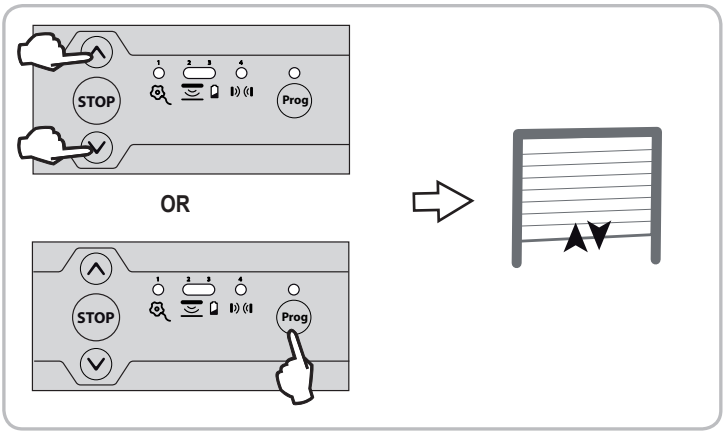
[7]. Press the motor's low end limit push-button.



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



EN

INSTALLING AND COMMISSIONING AN OPTICAL RADIO SAFETY EDGE

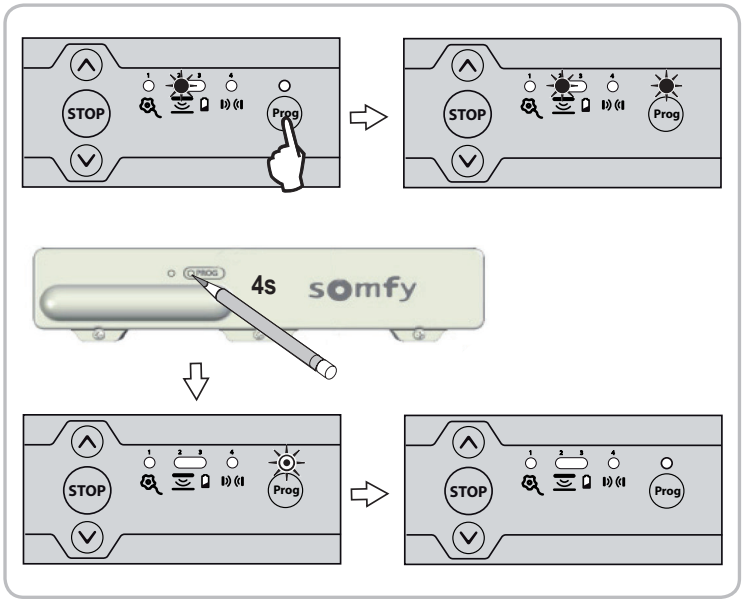
Installing the safety edge and its transmitter

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

Memorising the optical safety edge transmitter

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

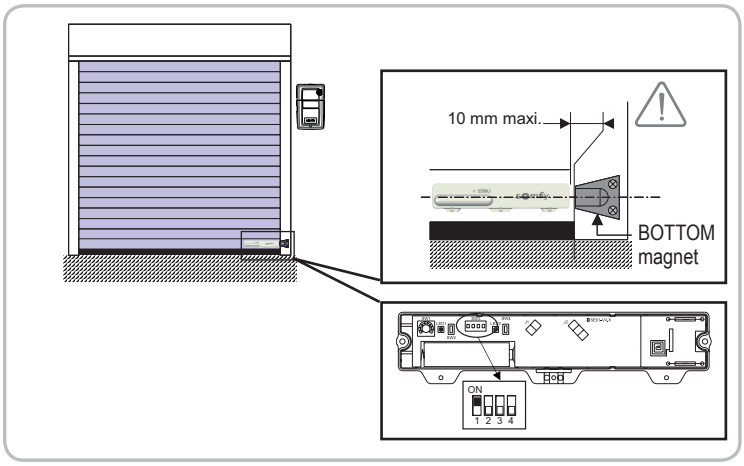
[2]. Using the tip of a pen, press the transmitter PROG push-button for 4 seconds.
Indicator light 2 on the receiver goes out and the receiver's Prog indicator light will flash and then go out (this may take a few seconds, the time required for the transmitter and receiver to communicate with each other).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



[3]. Optional: the lower 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 lower magnet to the edge of the runner, positioning it in line with the transmitter.

⚠ ***This operation is important. Ensure the alignment is observed.***

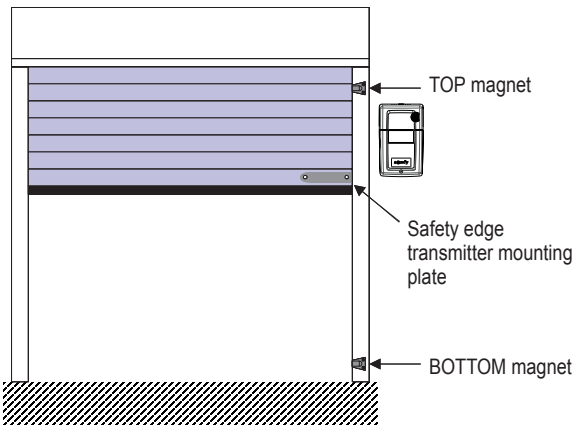
Move SW3 dipswitch 1 on the transmitter to ON.



INSTALLING AND COMMISSIONING A RESISTIVE RADIO SAFETY EDGE

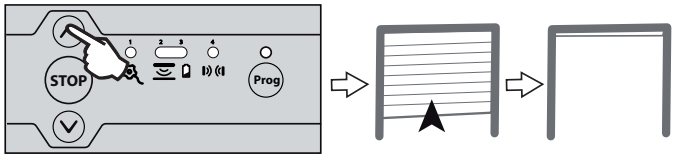
Installing magnets on the runner

To function correctly, this solution requires the installation of a set of magnets on the runner



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

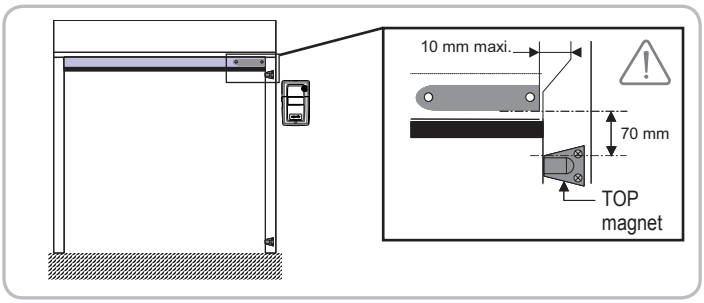
⚠ ***Ensure the safety edge transmitter is not fixed to its plate.***



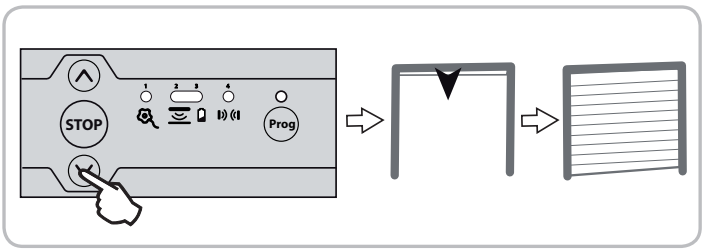
EN

[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.

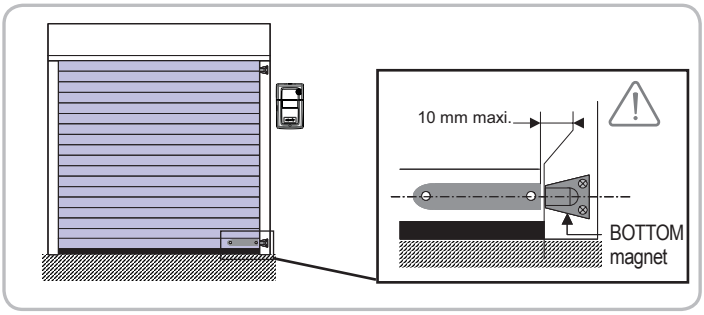


[3]. Press button ⊗ to position the garage door in the low position.

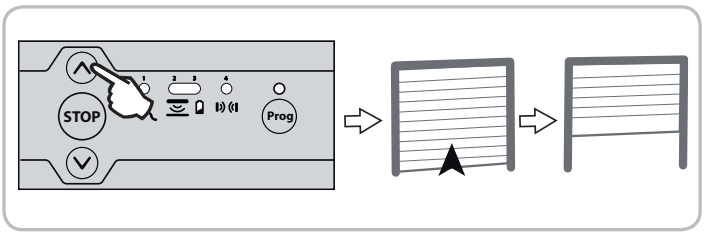


[4]. Attach the magnet to the edge of the runner, positioning it in line with the transmitter.

This operation is important. Ensure the alignment is observed.



[5]. Press button ⊙ then stop the door by pressing button (STOP) to position the garage door in the intermediate position.



Installing the safety edge and its transmitter

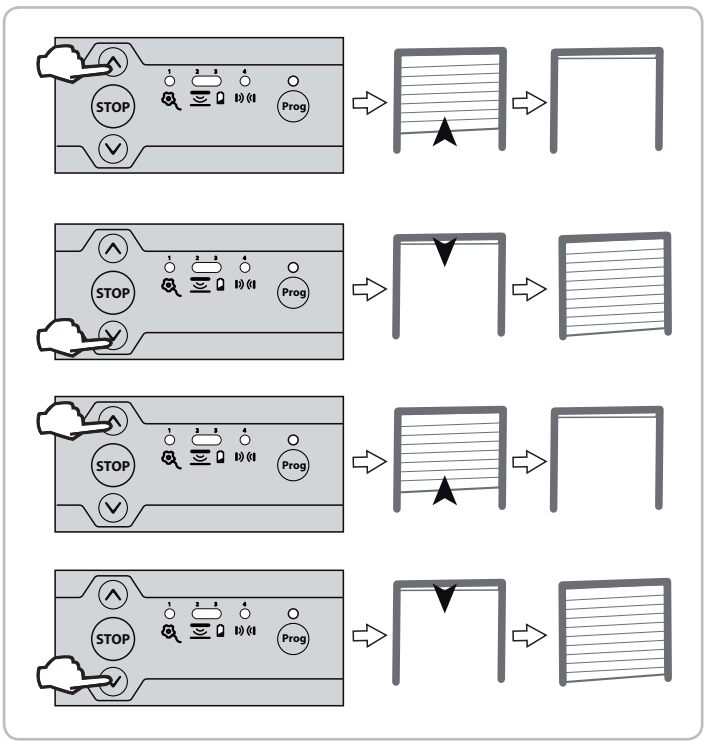
Follow the instructions provided with the resistive safety edge transmitter (ESE) and the safety edge lengthening kit.

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.

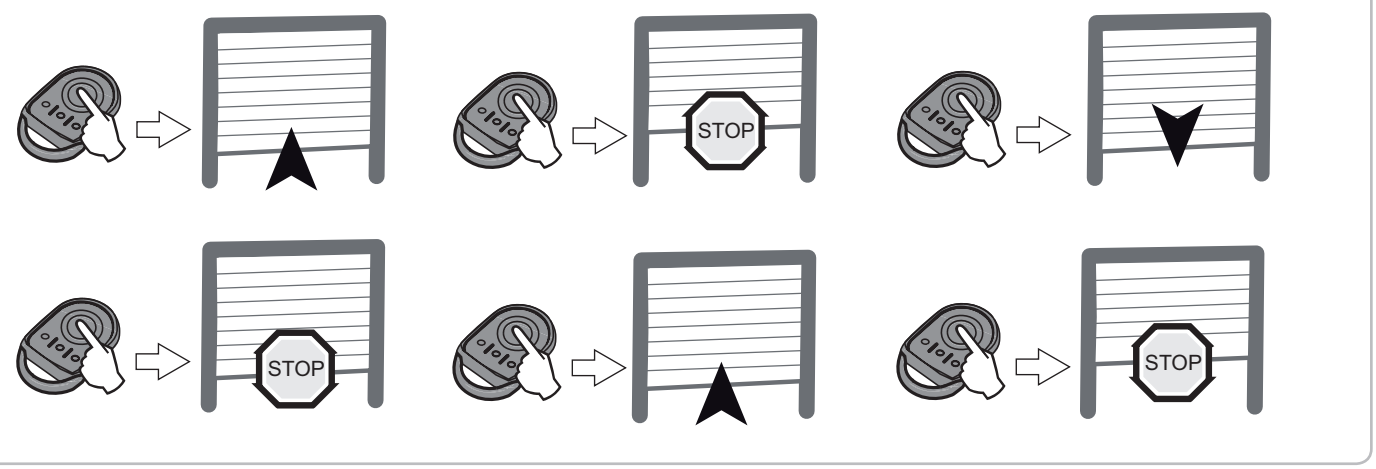
Do not press the safety edge during the magnet recognition procedure.

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



CHECKING OPERATION OF THE RECEIVER

Operation in sequential mode



Integrated lighting

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

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.

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.

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.

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.***

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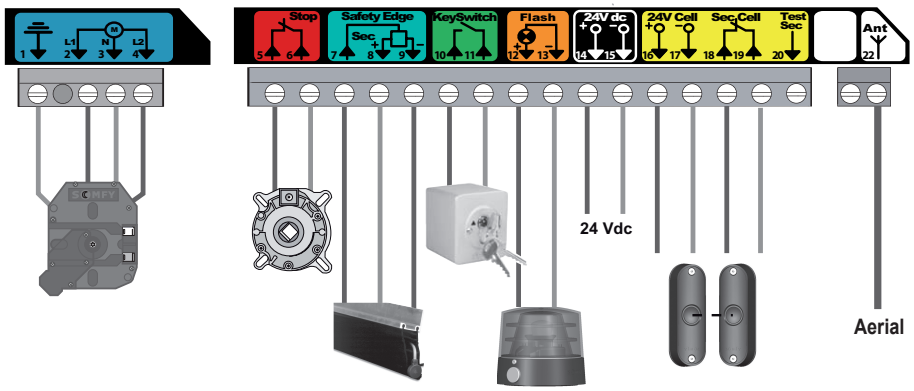
CONNECTING ADDITIONAL DEVICES

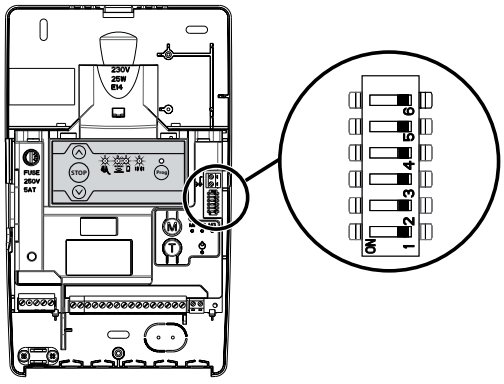
General wiring diagram



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

Parameter setting for wiring options

Dipswitch	Possible parameter setting	ON	OFF
1	Cell self-test	Activated	Deactivated
2	Choice of cell type	Photoelectric	Reflex photocell
3	2-second orange light warning	Activated	Deactivated
4	Choice of wired safety edge type	Resistive	Optical
5	Alarm operation	Activated	Deactivated
6	Do not use		



EN

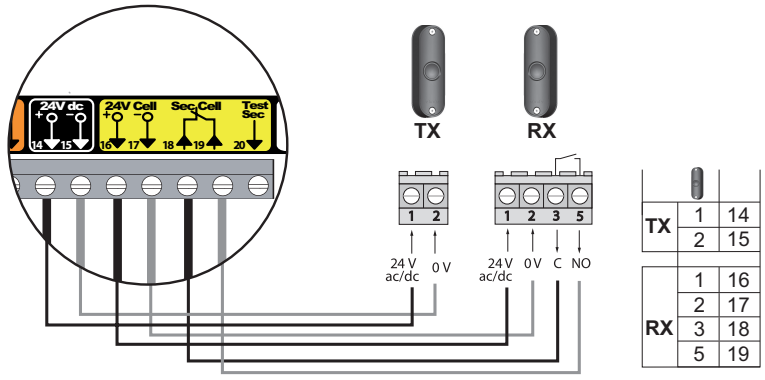
Description of the various additional devices

Photoelectric cells

Note: 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.

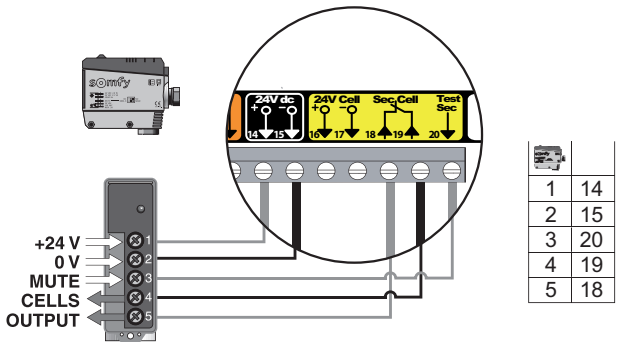


Reflex photocell

Note: 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.

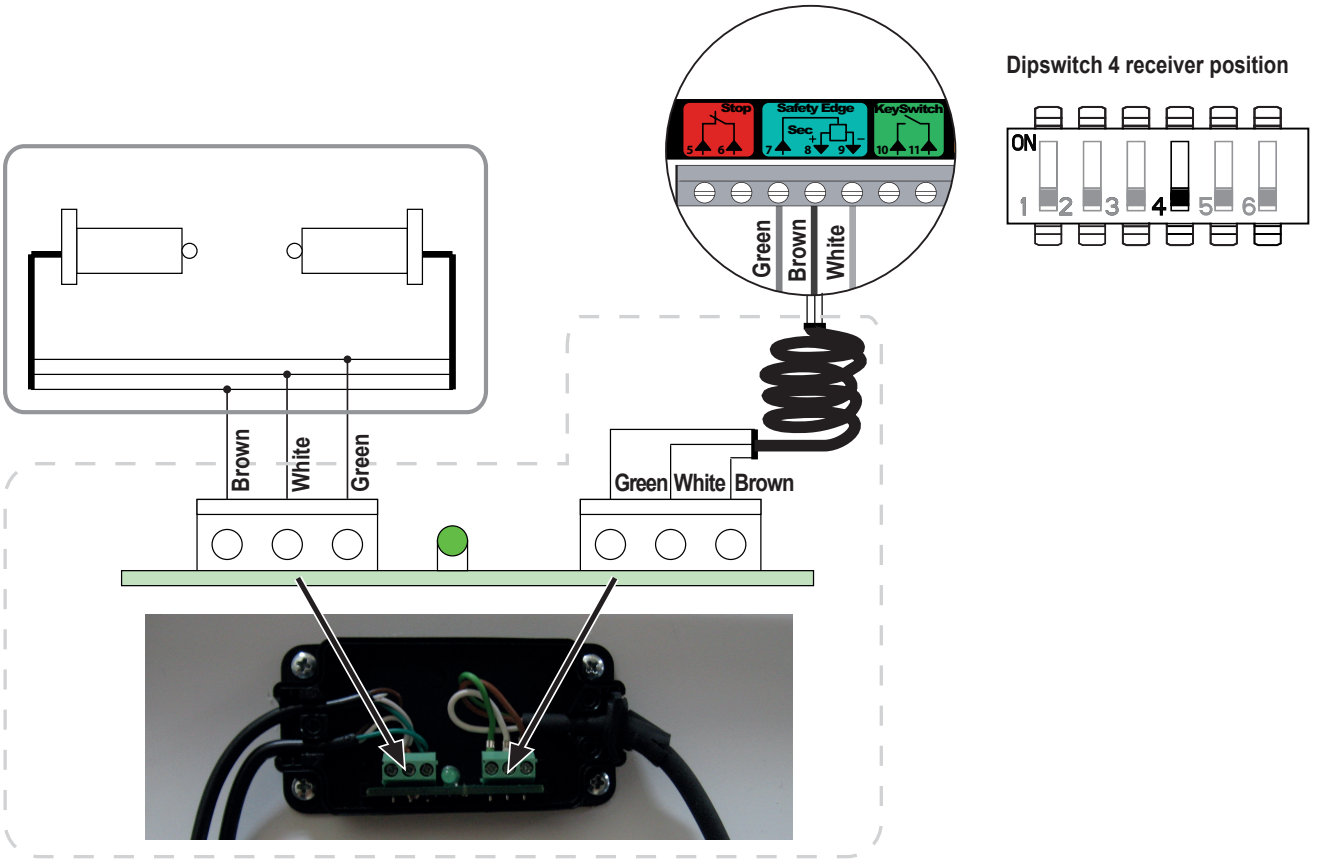
	Receiver		Cell		Comments
	Dipswitch 1	Dipswitch 2	Dipswitch 1	Dipswitch 2	
Without self-test	OFF	OFF	ON	ON	Requires checking for correct operation every 6 months.
With auto-test	ON	OFF	ON	ON	Allows an automatic test to be carried out to check the operation of the photoelectric cells each time the door 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.



EN

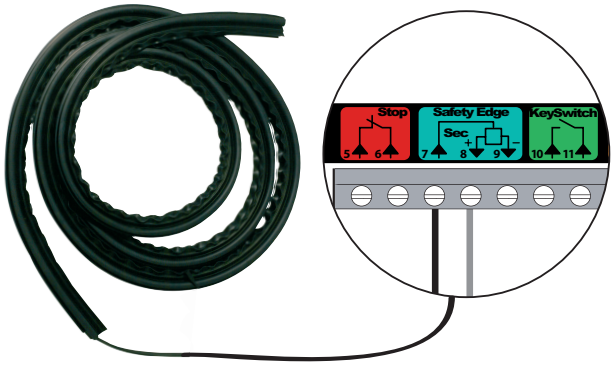
Optical wired safety edge - Dipswitch 4 receiver set at OFF



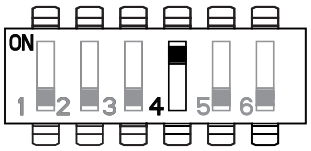
Dipswitch 4 receiver position

⚠ ***If a wired safety edge replaces a radio safety edge, the radio safety edge transmitter must be cleared (see page 18) to ensure the wired safety edge is taken into account.***

Resistive wired safety edge - Dipswitch 4 receiver set to ON



Dipswitch 4 receiver position



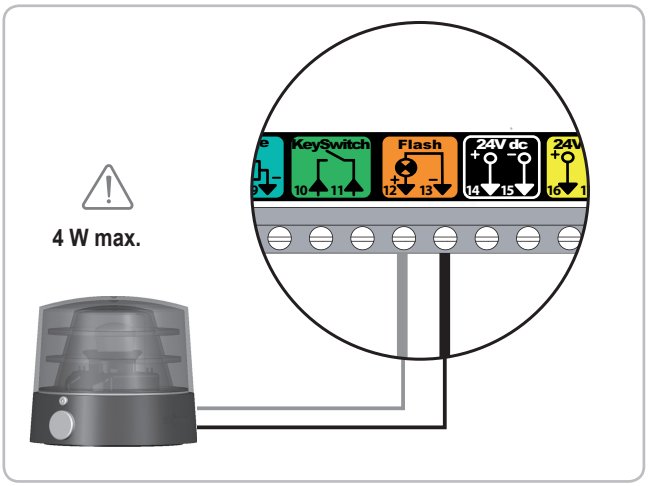
⚠ ***If a wired safety edge replaces a radio safety edge, the radio safety edge transmitter must be cleared (see page 18) to ensure the wired safety edge is taken into account.***

EN

Orange LED (part no. 9017842)

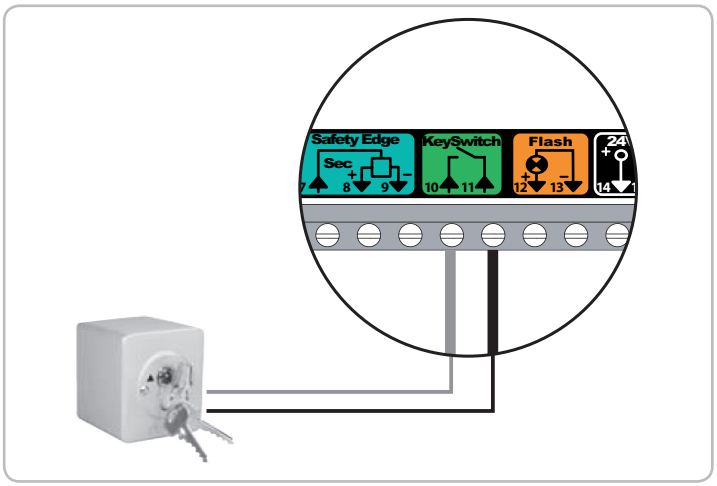
Dipswitch 3 receiver set to ON → 2-second warning activated

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

For the alarm to operate, it is essential to install a radio safety edge and program at least one 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

Dipswitch 5 receiver set to ON → Alarm activated

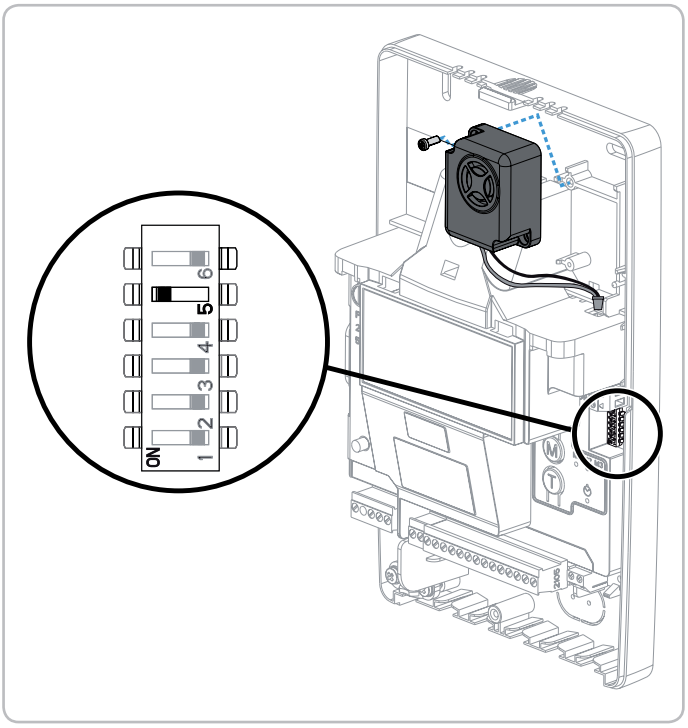
Dipswitch 5 receiver set to OFF → Alarm deactivated or not connected

• 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.

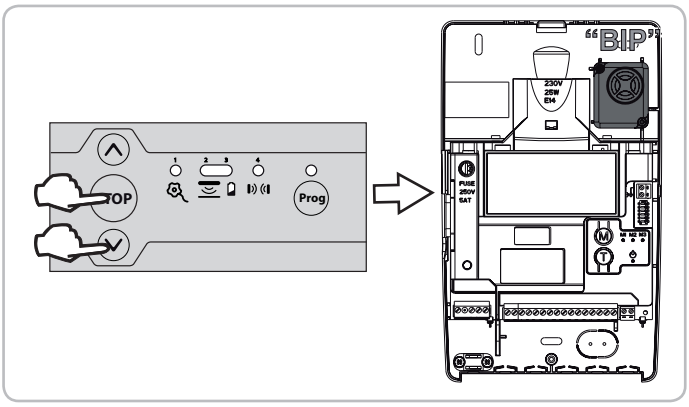
When the alarm sounds, press a button on a remote control memorised in the receiver to stop it. The alarm can only be stopped with a memorised remote control.



• Alarm operation test

Press simultaneously on buttons (STOP) and (v) on the receiver.

The alarm triggers briefly to indicate that it is activated.



• Optional: lower magnet

A lower magnet may be installed if the alarm sounds erratically (see page 9).

EN

ADVANCED PARAMETER SETTING

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.

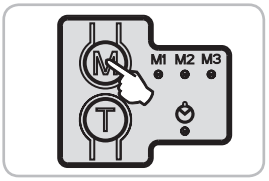
⚠ ***The installation of photoelectric cells is mandatory in the event that an automatic closure option is activated.***

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	
☀	○		Sequential
○	☀		Semi-automatic

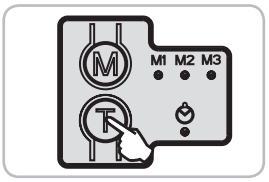


Note: M3 indicator light, unused

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



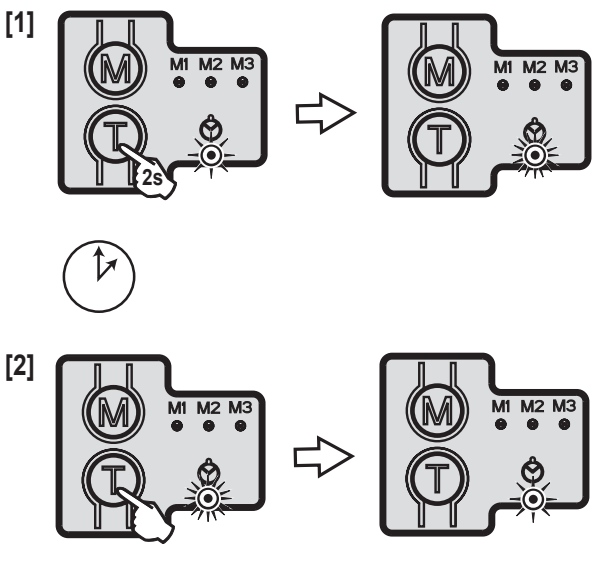
Modification of the automatic closure time delay

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.

[1]. Run the timer by pressing and holding down the T button for 2 seconds.
Indicator light ⏻ flashes rapidly.

[2]. Stop the timer by briefly pressing the T button when the desired time delay is obtained.
Indicator light ⏻ flashes slowly or comes on permanently.



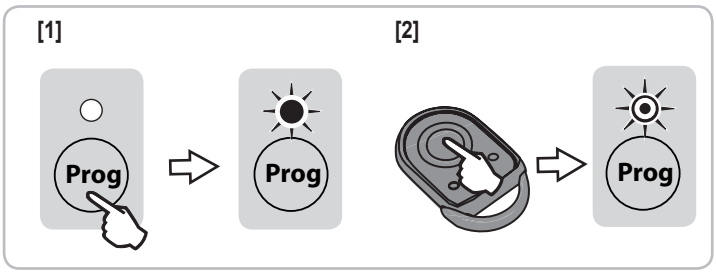
EN

MEMORISING THE REMOTE CONTROLS

Memorising 2 or 4-button remote controls

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

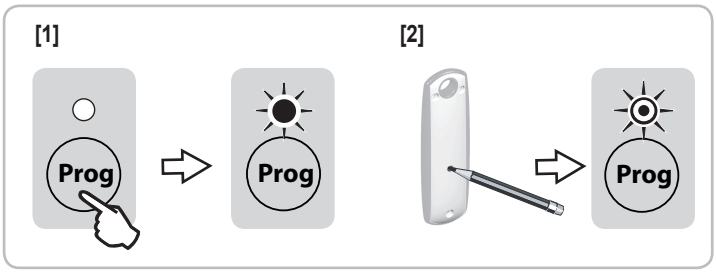
[2]. Press a button on the remote control to be memorised within a maximum time delay of 2 minutes.
The indicator light above button Prog on the receiver flashes; the remote control is memorised in the receiver.



Memorising 3-button remote controls

[1]. Press button Prog on the receiver until the indicator light above it comes on permanently.

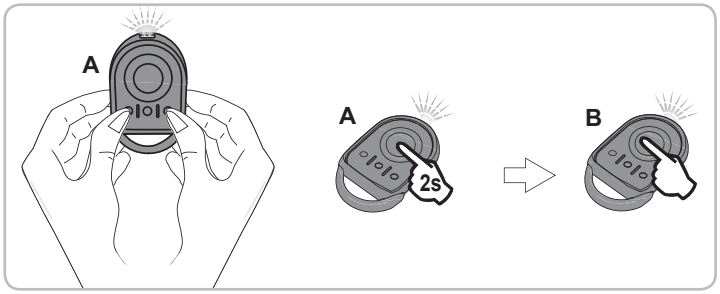
[2]. Press the PROG button on the back of the remote control to be memorised within a maximum of 2 minutes.
The indicator light above button Prog on the receiver flashes; the remote control is memorised in the receiver.



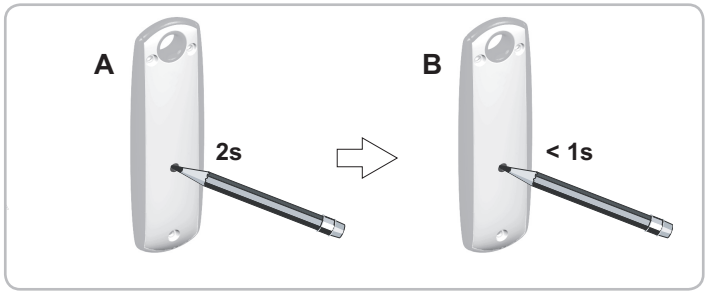
Memorising by copying a previously memorised remote control

⚠ ***This operation must be carried out close to the receiver.***

With an RTS Keygo



With a 3-button remote control



A = remote control "**source**" already memorised

B = remote control "**target**" to be memorised

EN

MEMORISING SAFETY EDGE TRANSMITTERS

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

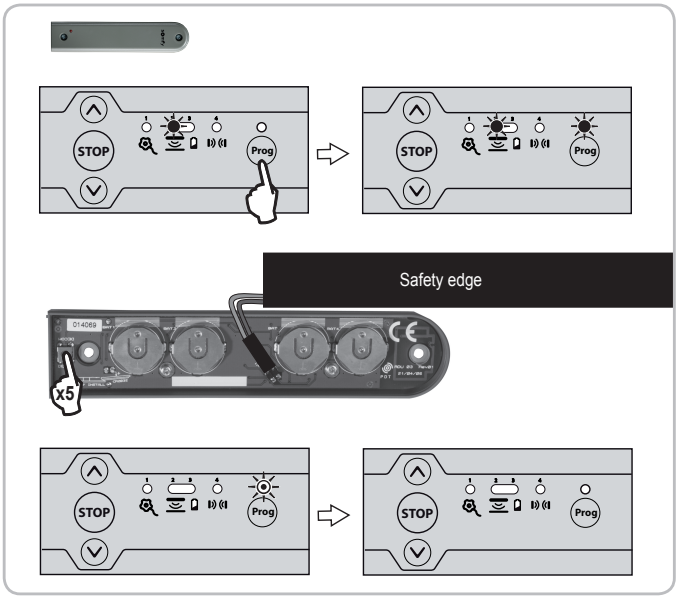
Memorising a resistive safety edge transmitter

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

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

[2]. 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.

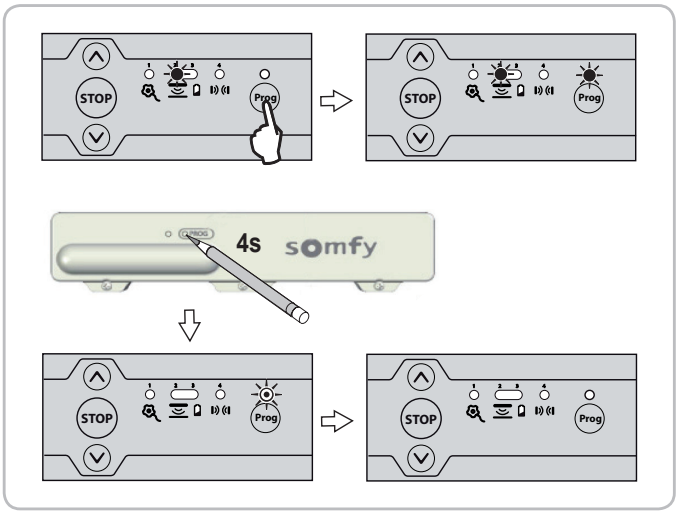
[3]. Restart the magnet recognition procedure (see page 10).



Memorising an optical safety edge transmitter

[1]. Press button Prog 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.



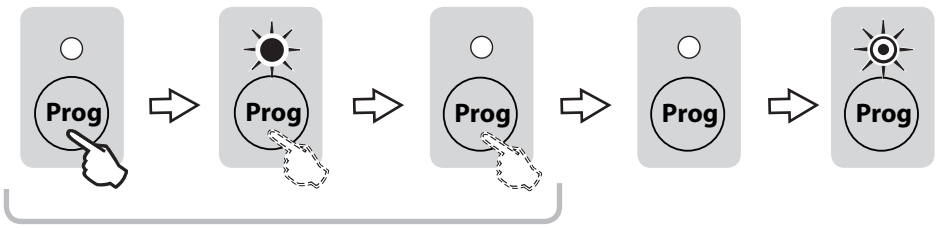
CLEARING THE REMOTE CONTROLS

Clearing a remote control

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

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.

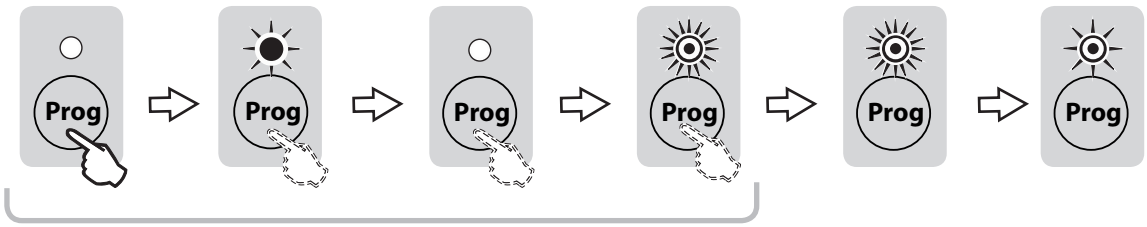


Press and hold down for 7 seconds

EN

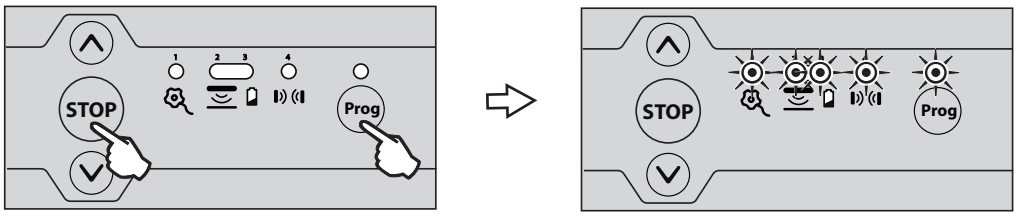
CLEARING SAFETY EDGE TRANSMITTERS

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.



LOCKING THE PROGRAMMING BUTTONS

Press buttons STOP and Prog on the receiver until all the indicator lights flash.



Entry into programming mode by pressing button Prog on the receiver is locked.
Entry into motor end limit setting mode via pressing buttons ∧ and ∨ on the receiver is locked.
The parameter setting of the operating modes is locked.

DIAGNOSTICS

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					Diagnostics	Consequences	Actions/Troubleshooting
					Prog			
Fall protection	☼	○	○	○	○	Fall protection is not connected or there is no bridge on the connector if fall protection is connected to the shared motor terminal	No movement possible	Check the fall protection wiring (see page 5).
						Fall protection triggered		Check the installation and replace the fall protection.
Motor	✺	○	○	○	○	Incorrectly wired motor	No movement possible	Check the motor wiring (see page 5).
						Fall protection triggered (when fall protection is connected to the shared motor terminal)		Check the installation and replace the fall protection.
						Activated motor thermal protection		Wait around 10 minutes.
	☼	○	○	○	○	Waiting for motor adjustment		Set the motor end limits (see pages 7 and 8).

EN

	Indicator light status					Diagnostics	Consequences	Actions/Troubleshooting
					Prog			
Optical wired safety edge	○	☀	○	○	○	Optical wired safety edge failure	Opening ok Closed by pressing and holding down	- Check the type of safety edge connected (optical wired safety edge, dipswitch no.4 set to OFF); if the wired safety edge is resistive, move dipswitch no.4 to ON. - Check the safety edge wiring (see page 14). - Check that no radio safety edge transmitter is memorised in the receiver. If a radio safety edge transmitter is memorised in the receiver, clear it (see page 19).
Resistive wired safety edge	○	☀	○	○	○	Resistive wired safety edge failure	Opening ok Closed by pressing and holding down	- Check the type of safety edge connected (resistive wired safety edge, dipswitch no.4 set to ON); if the connected safety edge is resistive, move dipswitch no.4 to OFF. - Check the safety edge wiring (see page 14). - Check that no radio safety edge transmitter is memorised in the receiver. If a radio safety edge transmitter is memorised in the receiver, clear it (see page 19).
Radio safety edge	○	☀	○	○	○	Radio safety edge failure	Opening ok Closed by pressing and holding down	See radio safety edge transmitters for diagnostics (see pages 20 and 21). Repeat the safety edge transmitter memorisation procedure on the receiver (see page 18).
	○	☀	○	○	✺	Radio interference on the safety edge transmitter	Opening and stopping ok Closed by pressing and holding down: the closing movement will automatically resume when the radio interference disappears.	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.
	○	☀	○	○	○	Magnets missing if the resistive safety edge transmitter is installed	Opening ok Closed by pressing and holding down	Check for the presence of magnets and install them if required (see pages 9 and 10).
	○	☀	☀	○	○	End of life of the safety edge transmitter batteries	Opening ok Closed by pressing and holding down	Safety edge transmitter low battery indication. If the fault persists, replace the safety edge transmitter batteries.
	○	✺	○	○	○	Obstacle detection	Remove the obstacle by automatic partial opening	Check that no obstacle is causing the safety edge to detect.
Photoelectric cells	○	○	○	☀	○	Cell fault	Opening ok Closed by pressing and holding down	If no cells are installed, check that the connector (terminals 18 and 19) is bridged. If cells are installed: - Check that no obstacle is cutting across the cell beam - Check the position of dipswitch no.2 in accordance with the type of cell (see page 12). - Check the cell wiring (see page 13).
	○	○	○	☀	○	Bridged cell connector	Opening ok Closed by pressing and holding down	If no cells are installed and cell connectors are bridged (terminals 18 and 19), check that dipswitch no.1 is set to OFF.
	○	○	○	✺	○	Obstacle detection	Remove the obstacle by full automatic opening	Check that no obstacle is cutting across the cell beam
Radio	○	○	○	○	☀	Radio frame received from a recognised transmitter		

Resistive safety edge transmitter (ESE)

Press the button on the back 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).

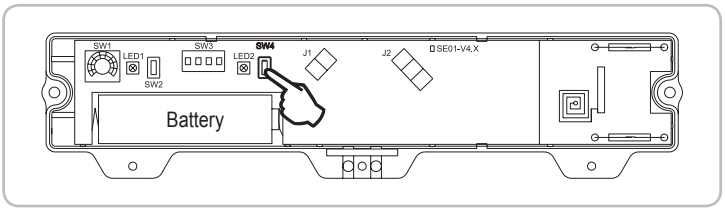
8 times → the safety edge has not been correctly lengthened (open circuit).

Optical safety edge transmitter (OSE)

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.



Transmitter indicator light		
Status	**Diagnostics**	**Repair / Actions**
1 green flash	Operation without magnet (default)	Check that there are no magnets installed on the door runner.
2 green flashes	Operation with lower magnet only	Check for the presence of magnet(s) on the door runner. Check that the safety edge transmitter and the magnet(s) are installed on the right-hand side of the door. Perform the installation with magnet procedure again.
3 green flashes	Operation with upper magnet only	
4 green flashes	Operation with upper and lower magnets	
Permanently red	Faulty OSE transmitter	See table below to identify the fault.

OSE transmitter indicator light fixed red: transmitter faulty		
Actions	**Transmitter indicator light status**	**Result/troubleshooting**
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 on page 9.
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).

GENERAL TECHNICAL

SPECIFICATIONS	
Power supply	196-253 V 50-60 Hz
Electrical insulation	Category 1
Maximum motor output Safety fuse	230 V - 1250 W 5 AT - 250 V
Somfy radio frequency	433.42 MHz
Number of storable remote controls	32
Operating temperature	-20°C/+60°C
Protection rating	IP 20
CONNECTIONS	
Mains power supply cable	2 m - IEC sheet (phase-neutral-earth)
Integrated courtesy lighting	E14 - 25W 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
Downgraded operation mode control	Automatically activated when lowering if a fault is detected on a safety device
Maintenance assistance	Real time status with 5 indicator lights

Somfy Ltd
Moorfield Road
Yeadon
Leeds
West Yorkshire
LS19 7BN
T. 0113 391 3030

www.somfy.co.uk
www.rollixo.co.uk

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