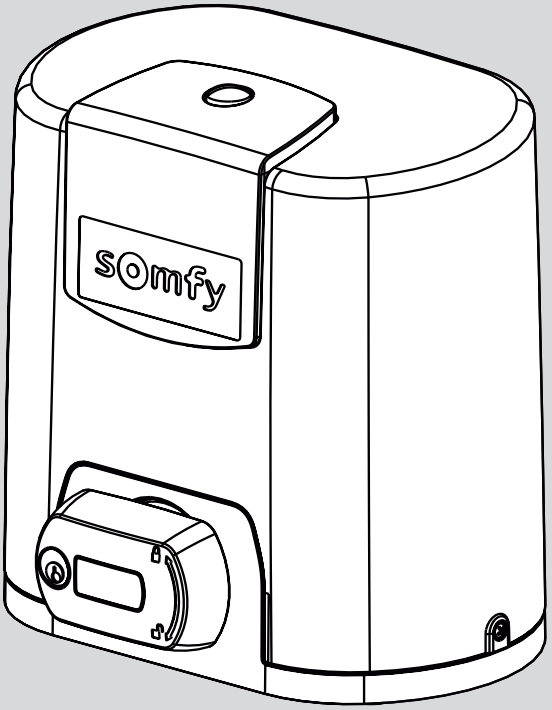


ELIXO 500 3S RTS

FR **Manuel d'utilisation**

DE **Bedienungsanleitung**

IT **Manuale d'uso**

NL **Gebruikshandleiding**

PL **Instrukcja obsługi**

EL **Εγχειρίδιο χρήσης**

CS **Uživatelská příručka**

ES **Manual de uso**

TR **Kullanıcı Kılavuzu**

EN **User's manual**

FA راهنمای استفاده

AR دليل · الاستعمال

D811910_03_16-01-2015

HOME MOTION by somfy

Translated version of the guide

CONTENTS

EN

GENERAL INFORMATION

Thank you for choosing a SOMFY product. This equipment has been designed and manufactured by Somfy in accordance with a quality policy complying with the ISO 9001 standard.

About Somfy

Somfy develops, manufactures and sells automatic control devices for domestic opening and closing systems. We offer alarm systems, automatic control devices for awnings, roller shutters, garages and gates. We guarantee all Somfy products will meet your expectations in terms of safety, comfort and time saving on a daily basis.
At Somfy, the pursuit of quality is a continuous process of improvement. Somfy's reputation has been built upon the reliability of its products and the Somfy brand is synonymous with innovation and technological expertise worldwide.

Assistance

Getting to know our customers, listening to them, meeting their needs: this is Somfy's approach.
For further information on how to choose, purchase or install Somfy systems, please ask for advice from your Somfy installer or contact a Somfy advisor directly for help and assistance.
Internet: www.somfy.com
As part of our policy of continuous innovation and improvement of our models, we reserve the right to make any modifications deemed necessary at any time. © SOMFY. Somfy SAS, with a capital 20.000.000 Euros, RCS Annecy 303.970.230

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

General information

This product is a motorisation for sliding gates, for residential use as defined in standard EN 60335-2-103, with which it complies. 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 of the sphere of application (see installation manual) is prohibited. Such use, and any failure to comply with the instructions given in this guide, absolves Somfy of any liability and invalidates the warranty.

DANGER

The installer is responsible for ensuring this motorisation is 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 is prohibited from making any modifications.

Si un doute apparaît lors de l'utilisation de cette motorisation ou pour obtenir des informations complémentaires, consulter le site internet www.somfy.com.
Ces instructions sont susceptibles d'être modifiées en cas d'évolution des normes ou de la motorisation.

EN

Mise en garde - Instructions importantes de sécurité

In case of any doubts when using this 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.
The keypad for setting the parameters is locked to ensure the safety of the users. It may only be unlocked, or the setting parameters changed, by a professional motorisation and home automation installer, in compliance with the installation manual for this product and the applicable regulations, to ensure the safety of all equipment and persons.

Safety instructions relating to operation

WARNING

This motorisation may be used by children aged 8 and over and by persons whose physical, sensory or mental capacity is impaired, or persons with little experience or knowledge, as long as they are under supervision or have received instructions on safe use of the motorisation and fully understand the associated risks. Children must not be allowed to play with the motorisation. The cleaning and maintenance operations performed by the user must not be carried out by unsupervised children.

The sound pressure level of the motorisation is less than or equal to 70 dB(A). The noise emitted by the structure to which the motorisation will be connected is not taken into account.

WARNING

Any potential user must be instructed on the use of the motorisation, by reading the guide supplied with the motorisation.
It is essential to ensure that no untrained persons (including children) are able to put the door into motion.
Monitor the gate as it moves and keep people away from it until it is completely open or closed.
Do not allow children to play with the door control devices. Keep remote controls out of the reach of children.
Do not deliberately prevent the gate from moving.

If not operating correctly, switch off the power supply and contact a professional motorisation and home automation installer.

DANGER

The motorisation must be disconnected from its power supply during cleaning.

Do not try to open the gate manually if the motorisation has not been unlocked.

WARNING

Manual unlocking may result in uncontrolled movement of the gate.

Ensure that no natural obstacles (branch, stone, tall grasses, etc.) are able to obstruct the movement of the gate.
If the installation is equipped with photoelectric cells and/or an orange light, regularly clean the photoelectric cell optical units and the orange light.
Have the motorisation checked every year by a qualified technician.

WARNING

Check each month that the motorisation changes direction when the gate encounters an object 50 mm high positioned halfway up the leaf.
If this is not the case, contact a professional motorisation and home automation installer.

WARNING

Do not use the motorisation if a repair or adjustment is necessary as a fault in the installation can cause injuries.

DANGER

Do not use the motorisation if a repair or adjustment is necessary as a fault in the installation can cause injuries.

EN

About the batteries

DANGER

Do not leave batteries of any kind within reach of children. Keep them somewhere children cannot access. There is a risk that they could be swallowed by children or pets. Danger of death! If this does occur, seek medical advice immediately or go to hospital.
Ensure that the batteries are not short-circuited, thrown in the fire or recharged. There is a risk of explosion.

Recycling and disposal

If installed, the battery must be removed from the motorisation before the latter is disposed of.

Do not dispose of used remote control or other batteries with household waste. They must be taken to the relevant recycling points.

Do not dispose of the motorisation with household waste at the end of its life. Return the motorisation to its distributor or use your local authority's special waste collection services.

EN

PRODUCT DESCRIPTION

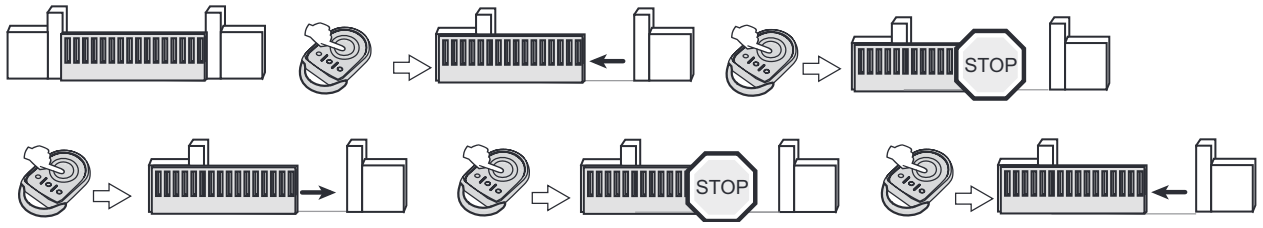
The motorisation is designed to open and close sliding gates.

USE AND OPERATION

Normal operation

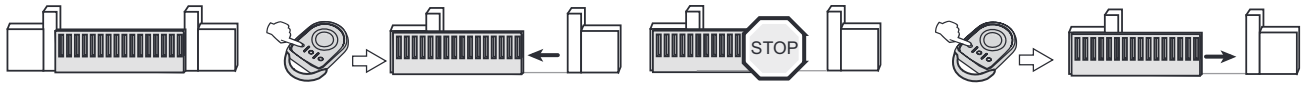
Operation in "complete opening" mode with a 2- or 4-button remote control (Fig. 1)
Press the programmed button to open the gate fully.

1



Operation in "pedestrian opening" mode with a 2- or 4-button remote control (Fig. 2)
Press the programmed button to open the gate in pedestrian mode.

2



Obstacle detection operation

When an obstacle is detected during opening, the gate will stop and partially reverse.

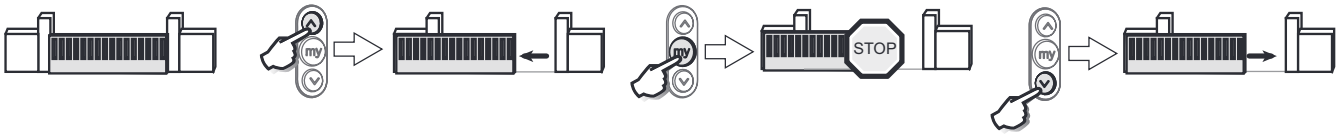
When an obstacle is detected during closing, the gate will stop and reopen.

Specific operation

Depending on the peripherals installed and the operating options programmed by your installer, the motor may have the following specific functions:

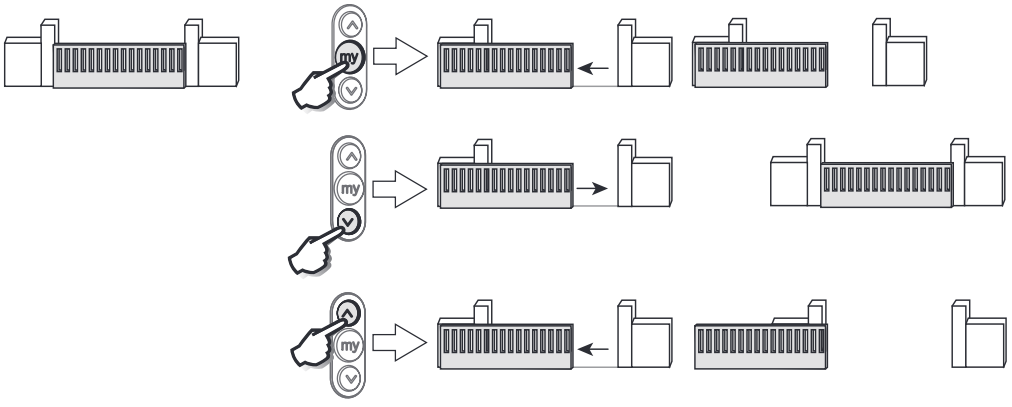
Operation in "complete opening" mode with a 3-button remote control (Fig. 3)

3



Operation in "pedestrian opening" mode with a 3-button remote control (Fig. 4)

4



EN

Operation with safety cells

An obstacle placed between the cells will prevent the gate from closing.
if an obstacle is detected when the gate is closing, it stops then reopens fully or partially depending on how it was programmed during installation.
If the cells are obscured for 3 minutes, the system switches to the "wired deadman operation" mode. In this mode, a command via a wired input causes the gate to move slowly. The gate moves for as long as the command is issued and stops immediately when the command is discontinued. The system switches back to normal operating mode as soon as the cells are no longer obscured.
N.B. the "wired deadman" mode requires the use of a safety contact (e.g. keyed reversing switch ref. 1841036).

Operation with orange flashing light

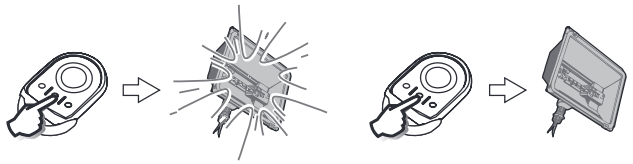
The orange light is activated during any movement of the gate.
A 2-second pre-warning signal before movement starts may be programmed during installation.

Remote lighting operation

Depending on the programming performed during installation, the lighting comes on each time the motor is started and remains on when it stops for the duration of the programmed time delay.
If a remote control is programmed for the remote lighting, operation is as follows:

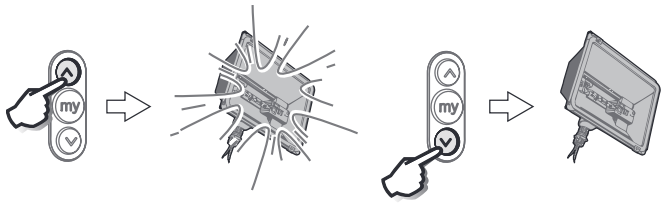
With a 2- or 4-button remote control (Fig. 5)
Press the programmed button to operate the lighting.

5



With a 3-button remote control (Fig. 6)

6



Operation in sequential mode with automatic reclosing after time delay

The gate closes automatically after a time delay programmed during installation.
A new command issued during this time delay cancels automatic closing and the gate remains open.
The next command issued closes the gate.

Operation using the backup battery

If a backup battery is installed, the motorisation will work even during a power outage.

Operation is then activated under the following conditions:
- With a 9.6 V battery:
  - Reduced speed.
  - The additional devices (photoelectric cells, orange light, wired code keypad, etc.) do not operate.
- With a 24 V battery:
  - normal operation: normal, accessories functional

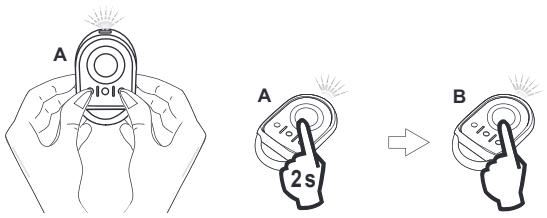
Battery specifications:
- Life: 24 hrs; 5 operating cycles depending on the weight of the gate.
- Recharging time: 48 hours
- Service life before replacement: Approximately 3 years.

For optimum battery life it is recommended that the main power supply be switched off and the motor operated using the battery for several cycles, three times a year.

Adding remote controls

2- or 4-button remote control (Fig. 7)
Copying the function from a memorised button on a 2- or 4-button remote control to a button on a new 2- or 4-button remote control:

7



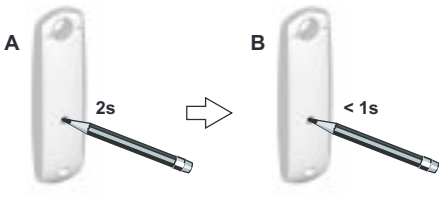
Remote control "A" = "source" remote control already memorised

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

For example, if the button on remote control A opens the gate fully, the button on the new remote control (B) will also open the gate fully.

3-button remote control (Fig. 8)
Copying the function from a memorised button on a 3-button remote control to a new 3-button remote control:

8



For example, if remote control A operates the gate's remote lighting, the new remote control (B) will also operate the gate's remote lighting.

EN

Manual emergency unlocking (Fig. 9)

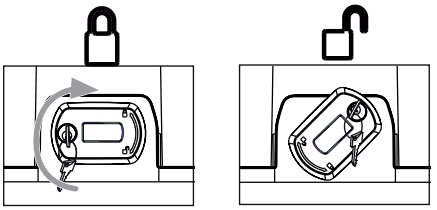
[1] Insert the key into the lock.

[2] Turn the key a quarter of a turn to the left.

[3] Turn the release handle to the right.

Do not forcibly push the gate. Hold the gate over its entire travel during manual manoeuvres.

9



Locking the motorisation (Fig. 10)

[1] Turn the release handle to the left.

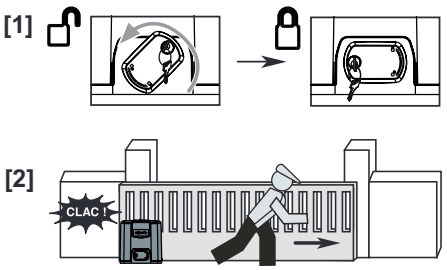
[2] Move the gate manually until the drive mechanism re-locks.

[3] Turn the key a quarter of a turn to the right.

[4] Remove the key

The motorisation must be locked before a new command.

10



MAINTENANCE

Checks

Safety devices (cells)

Check correct operation every 6 months.

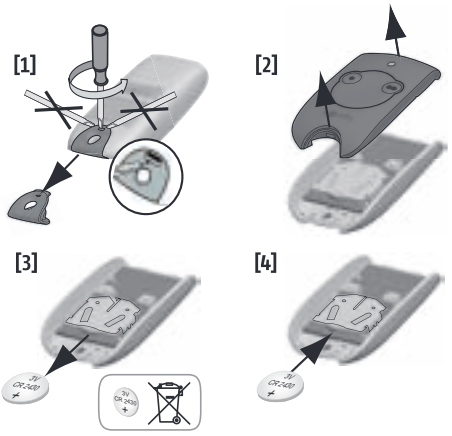
Backup battery

For optimum battery life, it is recommended that the main power supply be switched off and the motor operated using the battery for several cycles, three times a year.

Replacing the battery

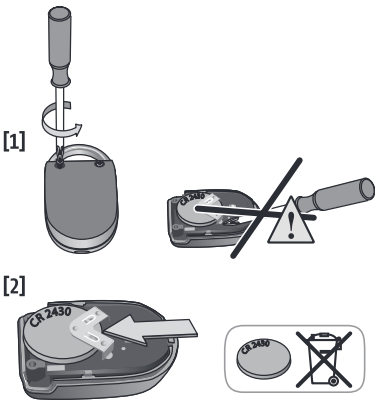
Keytis (Fig. 11)

11



Keygo (Fig. 12)

12



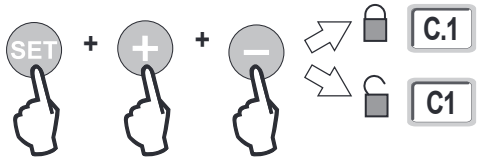
TECHNICAL DATA

Power supply	230 V - 50 Hz
Max. power consumption	600 W (with 500 W remote lighting)
Climatic operating conditions	- 20°C/+ 60°C - IP 44
Somfy radio frequency	RTS 433.42 MHz
Number of memorisable channels	40
Remote lighting output	230 V - 500 W Halogen or incandescent only

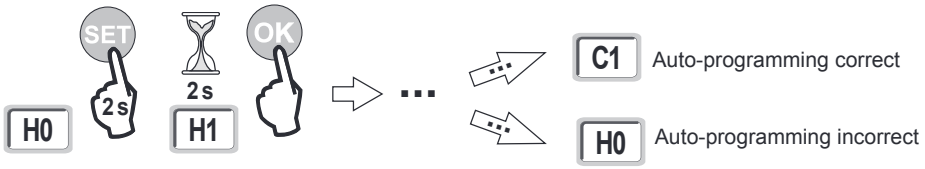
Elixo 500 3S RTS

EN Guide

UNLOCKING THE PROGRAMMING BUTTONS



AUTO-PROGRAMMING

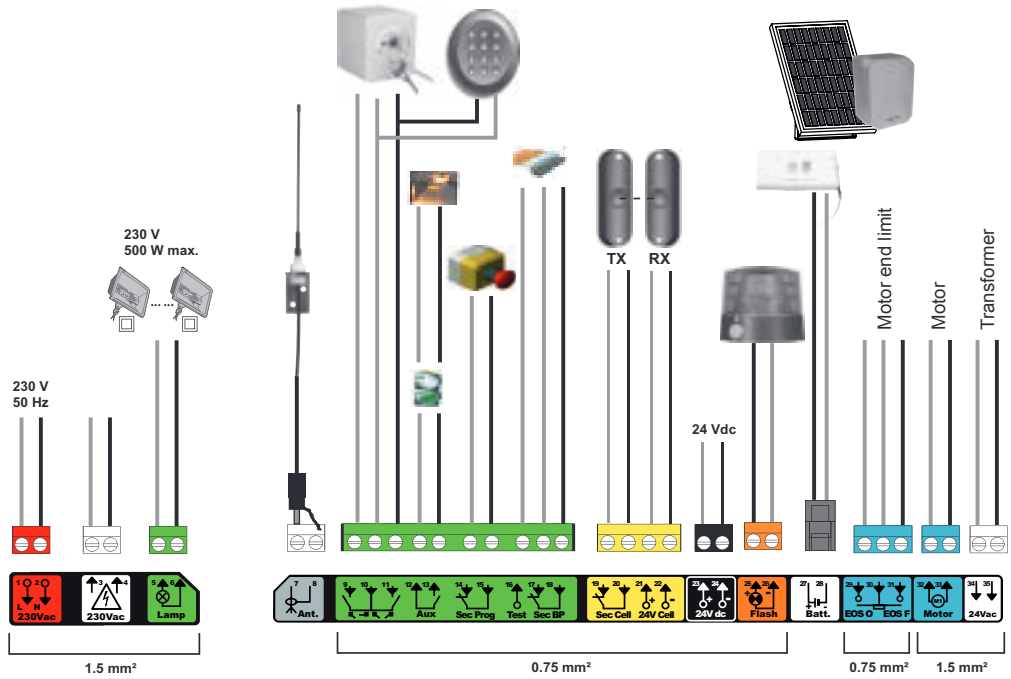


MEMORISING REMOTE CONTROLS

COMPLETE opening control

PEDESTRIAN opening control

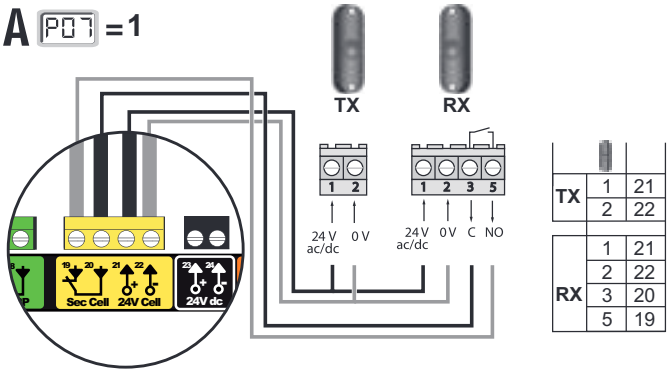
GENERAL WIRING DIAGRAM



PHOTOELECTRIC CELLS

WITHOUT autotest

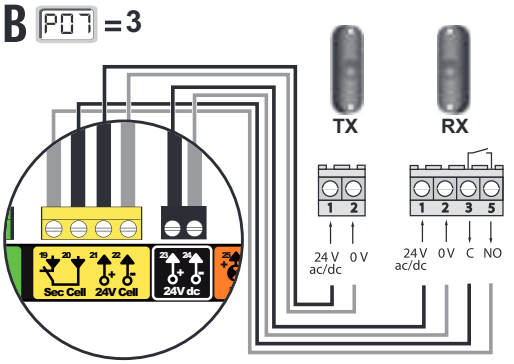
A P07 = 1



TX	1	21
	2	22
RX	1	21
	2	22
	3	20
	5	19

WITH autotest

B P07 = 3



TX	1	21
	2	22
RX	1	23
	2	24
	3	20
	5	19

Meaning of different parameters

Code	Description	Values (bold = default)	Setting compl.
P01	Complete cycle operating mode	**0: sequential**	
		1: sequential + timed close	
		2: semiautomatic	
		3: automatic	
		4: automatic + cell blocking	
		5: deadman's control (wire)	
P02	Complete operating mode automatic timed closing	0 to 30 (value x 10 s = time delay value) **2: 20 s**	
P03	Pedestrian cycle operating mode	**0: ident. to complete cycle operating mode**	
		1: without automatic closing	
		2: with automatic closing	
P04	Short automatic closing time delay in pedestrian cycle	0 to 30 (value x 10 s = time delay value) **2: 20 s**	
P05	Long automatic closing time delay in pedestrian cycle	0 to 99 (value x 5 min = time delay value) **0: 0 s**	
P06	Pedestrian opening amplitude	1: minimum pedestrian opening 9: maximum pedestrian opening **1: 80 cm**	
P07	Cell safety input	0: inactive **1: active** 2: active with autotest via test output 3: active with autotest via power supply switching 4: bus cells	
P08	Safety edge safety input	0: inactive **1: active** 2: active with auto-test	
P09	Programmable safety input	0: inactive **1: active** 2: active with autotest via test output 3: active with autotest via power supply switching	
P10	Programmable safety input - function	**0: active closing** 1: active opening 2: active closing + ADMAP 3: all movement disabled	
P11	Programmable safety input - action	0: stop 1: stop + partial reversal **2: stop + complete reversal**	
P12	Orange warning light	**0: no warning** 1: with 2 s warning prior to movement	

Code	Description	Values (bold = default)	Setting compl.
P13	Area lighting output	0: inactive 1: controlled operation **2: automatic + controlled operation**	
P14	Area lighting time delay	0 to 60 (value x 10 s = time delay value) **6: 60 s**	
P15	Auxiliary output	0: inactive 1: automatic: gate open indicator light 2: automatic: timed bistable 3: automatic: one-touch 4: controlled: bistable (ON-OFF) 5: controlled: one-touch **6: controlled: timed bistable**	
P16	Auxiliary output time delay	0 to 60 (value x 10 s = time delay value) **6: 60 s**	
P19	Closing speed	1: slowest speed at 10: highest speed - **Default value: 5**	
P20	Opening speed	1: slowest speed at 10: highest speed - **Default value: 5**	
P21	Closing slowdown zone	1: shortest slowdown zone at 5: longest slowdown zone **Default value: 1**	
P22	Opening slowdown zone	1: shortest slowdown zone at 5: longest slowdown zone **Default value: 1**	
P25	Closing torque limitation	1: minimum torque at 10: maximum torque **Adjusted when auto-programming complete**	
P26	Opening torque limitation		
P27	Closing slowdown torque limitation		
P28	Opening slowdown torque limitation		
P33	Obstacle detection sensitivity	0: low sensitivity 1: low sensitivity **2: standard** 3: high sensitivity	
P37	Wired control inputs	**0: complete cycle mode - pedestrian cycle** 1: opening mode - closing	
P40	Coupling speed when closing	1: slowest speed at	
P41	Coupling speed when opening	4: fastest speed **Default value: 2**	

Operating code display

Code	Description
C1	Awaiting command
C2	Gate opening
C3	Awaiting gate closure
C4	Gate closing
C6	Detection in progress for cell safety
C7	Detection in progress for safety edge safety
C8	Detection in progress for programmable safety
C9	Detection in progress for emergency stop safety
C12	Reinjecting current
C13	Safety device autotest in progress
C14	Permanent complete opening wire control input
C15	Permanent pedestrian opening wire control input
C16	BUS cell programming refused
Cc1	9.6 V power supply
Cu1	24 V power supply

Programming code display

Code	Description
H0	Awaiting setting
Hc1	Awaiting setting + 9.6 V power supply
Hu1	Awaiting setting + 24 V power supply
H1	Awaiting start of auto-programming
H2	Auto-programming mode - opening
H4	Auto-programming mode - closing
F0	Awaiting remote control memorisation for operation in complete opening mode
F1	Awaiting remote control memorisation for operation in pedestrian opening mode
F2	Awaiting remote control memorisation for remote lighting control
F3	Awaiting remote control memorisation for auxiliary output control

Fault and breakdown code display

Code	Description	Comments	Solution?
E1	Cell safety autotest fault	The cell autotest is not satisfactory.	Check that "**P07**" is correctly configured. Check the wiring of the cells.
E2	Programmable safety autotest fault	The programmable safety input autotest is not satisfactory.	Check that "**P09**" is correctly configured. Check the programmable safety input wiring.
E3	Defective safety edge autotest	The safety edge autotest is not satisfactory.	Check that "**P08**" is correctly configured. Check the safety edge wiring.
E4	Obstacle detection when opening		
E5	Obstacle detection when closing		
E6	Cell safety fault	Detection in progress on safety input for longer than 3 minutes.	Check that no obstacles are causing the cells or safety edge to detect. Check that "**P07**", "**P08**" or "**P09**" is correctly configured in relation to the device connected to the safety input. Check the safety device wiring. Check that the photoelectric cells are correctly aligned.
E7	Safety edge safety fault		
E8	Programmable safety fault		
E10	Motor short circuit protection		Check the motor wiring.
E11	24V power supply short protection	Product and additional devices connected to terminals 21 to 26 not operating	Check the wiring, then disconnect the power supply for 10 seconds.
E12	Hardware fault	The hardware auto tests are not satisfactory	Repeat an order. If the fault persists, contact Somfy.
E13	Accessories power supply fault	The accessories power supply cuts out following an overload (excessive consumption).	N.B.: maximum accessories consumption = 1.2 A Check the consumption of the connected accessories.
E15	Fault when the control box supplied by the backup battery is first switched on		Disconnect the backup battery and connect the control box to the mains to switch it on for the first time.

Access to memorised data - To access memorised data, select parameter "**Ud**" and press "**OK**".

Data	Description	
U0 to U1	Complete opening cycle counter	global [Hundred thousands - ten thousands - thousands] [hundreds - tens - units]
U2 to U3		since last auto-programming [Hundred thousands - ten thousands - thousands] [hundreds - tens - units]
U6 to U7	Cycle counter with obstacle detection	global [Hundred thousands - ten thousands - thousands] [hundreds - tens - units]
U8 to U9		since last auto-programming [Hundred thousands - ten thousands - thousands] [hundreds - tens - units]
U12 to U13	Partial opening cycle counter	
U14 to U15	Reset movement counter	
U20	Number of remote controls memorised for complete opening control	
U21	Number of remote controls memorised for pedestrian opening control	
U22	Number of remote controls memorised for remote lighting control	
U23	Number of remote controls memorised for auxiliary output control	
d0 to d9	Log of the last 10 faults (d0 most recent - d9 oldest)	
dd	To clear the fault log: press and hold "**OK**" for 7 s.	

Somfy SAS, capital 20.000.000 Euros, RCS Annecy 303.970.230 - 01/2015