

# CONTENTS

<b>GENERAL INFORMATION</b>	<b>2</b>
<b>SAFETY INSTRUCTIONS</b>	<b>2</b>
Caution	2
Safety instructions	2
<b>PRODUCT DESCRIPTION</b>	<b>2</b>
Composition	2
Area of application	2
<b>PRE-INSTALLATION CHECKS</b>	<b>3</b>
Preliminary checks	3
Safety instructions	3
<b>INSTALLATION</b>	<b>3</b>
Height of the installation	3
Information about the various installation stages	3
<b>PROGRAMMING</b>	<b>5</b>
Description of the programming buttons	5
Auto-programming	5
Memorising the remote controls for operation in "Total opening" mode	5
<b>OPERATING TEST</b>	<b>6</b>
Using the remote controls	6
Obstacle detection operation	6
Integrated lighting operation	6
<b>CONNECTING ADDITIONAL DEVICES</b>	<b>6</b>
Description of the various additional devices	6
Electrically connecting additional devices	6
General parameter-setting diagram	6
Meaning of the various parameters	6
Memorising a Telis type remote control or similar	7
<b>SPECIFIC OPERATION</b>	<b>7</b>
<b>CLEARING THE REMOTE CONTROLS AND ALL SETTINGS</b>	<b>7</b>
Clearing the remote controls	7
Reinitialising all the settings	7
<b>REFITTING THE COVER FLAP</b>	<b>7</b>
<b>DIAGNOSTICS</b>	<b>7</b>
<b>TECHNICAL DATA</b>	<b>8</b>
Dimensions	8

## GENERAL INFORMATION

This product complies with the "safety, specific rules for powering vertically opening garage doors in residential use" standard (standard EN 60335-2.95). This product, which is installed in accordance with this guide and the "installation verification sheet", 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. Failure to comply with these instructions absolves Somfy of any liability resulting from damage that may be caused. The Dexxo Compact RTS product must be installed inside the garage with an integrated emergency control system.

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](http://www.somfy.com/ce) (Dexxo Compact RTS).

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

## SAFETY INSTRUCTIONS

### Caution

Important safety instructions. Follow all the instructions as incorrect installation can lead to serious injury.

### Safety instructions

Before installing the motorisation, remove any unnecessary cords or chains and switch off all equipment which is not required for the motorised door to function.

Before installing the motorisation, ensure that the driven part is in good mechanical condition, that it is correctly balanced and that it opens and closes correctly.

Position all control buttons at least 1.5 m from the ground, visible from the entrance but far enough away from the mobile parts.

Position the manual back release device a maximum of 1.8 m from the ground.

In the case of a removable mobile component, it is recommended to store it in the immediate proximity of the door.

Permanently affix the label concerning the manual repair device near to its mobile component.

Permanently affix the crushing warning labels near to any fixed control devices, and so that they are extremely visible to the user.

After installation, check that the mechanism is correctly configured and that the motorisation changes direction when the door encounters an obstacle on the ground which is 50 mm high.

After installation, ensure that none of the door components overhang the top of a pavement or public road.

After installation, check that the motorisation prevents or stops the opening movement when the door is bearing a 20 kg weight, attached to the middle of the lower edge of the door.

## PRODUCT DESCRIPTION

### Composition Fig. 1

No.	Number	Description	No.	Number	Description
1	1	Motor head	13	2	TH M8x16 zn screws
2	1	Flap	14	6	HU8 nut
3	1	Lintel yoke	15	2	Shaft
4	1	Door yoke	16	2	Circlips
5	2	Ceiling mounting bracket	17	4	Thread-forming screws Ø 4x8
6	2	Motor head mounting bracket	18a	1	Single unit rail
7	1	Manual back release device	18b	1	2-part rail
8	1	Connecting arm	18b1	1	Sleeve
9	1	End limit stop	18b2	8	Thread-forming screws Ø 4x8
10	2	TCB-H 4.2x13 zn self-tapping screws	19	1 or 2	Keytis remote control
11	1	Power supply cord	20	1	24V 21W bulb type BA15s
12	4	TH10 M8x12 zn washer screws	21	2	Chain bearings

### Area of application Fig. 2

#### Types of door (Fig.2)

A: overhead door.



B: sectional door:

- if the upper profile of the panel is special, use the "mounting yoke for a sectional door" part no.: 9009390.

#### Door dimensions (Fig. 2)

Garage doors up to a surface area of 7 m<sup>2</sup> can be motorised.

For doors which are maximum in height, the motor travel can be optimised:

- By mounting the motor head at 90° (Fig. 6- .
- By fixing the lintel yoke to the ceiling, setting it back a maximum of 200 mm in relation to the lintel (Fig. 4- .
- By cutting the connecting arm.

## PRE-INSTALLATION CHECKS

### Preliminary checks

The garage door should operate manually without any points of resistance. Check that it is in good mechanical condition (pulleys, supports, etc.) and perfectly balanced (spring tension).



***It is dangerous to perform any operation on the door springs (the door may fall).***

The structures of your garage (walls, lintel, partitions, cross members, door rails, etc.) enable the Dexxo Compact RTS to be fixed securely. Strengthen these if necessary.

Do not spray water onto the device. The Dexxo Compact RTS must not be fitted in an area prone to water splashes.

The bottom of the door must be equipped with a rubber profile to avoid rough contact and to increase the contact surface area.

If the garage door is the only access to the garage, fit an external back release (external lock unlocked by a key (part no.: 9012961) or an external unlocking device (part no.: 9012962) and incorporate a backup battery (part no.: 9001001).

If the garage door faces a public road, fit an orange light type signal device (part no.: 9015171).

Check that there are no dangerous parts accessible on the door; if necessary protect them.



***Unlocking the door can cause uncontrolled movement if the door is incorrectly balanced.***

### Safety instructions

The safety instructions must be followed throughout the installation:

- Take off your 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 the unit to the power supply or to the backup battery before the installation process is complete.
- Never use high pressure cleaning equipment.

## INSTALLATION

### Height of the installation **Fig. 3**


Measure the distance "D" between the highest point of the door and the ceiling.

If "D" is between 35 and 200 mm, secure the assembly directly to the ceiling.

If "D" is greater than 200 mm, secure the assembly so that the height "H" is between 10 and 200 mm.

### Information about the various installation stages **Fig. 4 to 14**

#### Mounting the lintel yoke and door yoke (Fig. 4)

In the case of a door being installed directly on the ceiling (attached ceiling), the lintel yoke may be fixed to the ceiling and, if necessary, have an offset of 200 mm max in relation to the lintel. (Fig. 4- .

#### Assembling the 2-part rail (Fig. 5)

[1] [2] [3]. Unfold the 2 sections of the rail.



***Ensure that the chain or belt is not twisted.***

[4]. Assemble the 2 sections of the rail using the sleeve.

[5]. Secure the assembly using 8 mounting screws.

[6]. Tighten the nut to tension the chain or belt. The compressed rubber must measure between 18 and 20 mm.

The mounting screws must not penetrate the rail (do not drill).


In the case of an attached ceiling installation, do not use the sleeve mounting screws.

### Assembling the rail to the motor head (Fig. 6)

### Mounting the assembly on the garage ceiling (Fig. 7 to 9)

#### Mounting the lintel yoke (Fig. 7)

#### Mounting to the ceiling

- Attached ceiling: mounting directly to the ceiling using the rail (Fig. 8).
- Detachable ceiling: mount the system at the motor head (Fig. 9)  
For adjustable intermediate mounting along the rail, or mounting at a dimension h between 250 mm and 550 mm, use the ceiling mounting kit, part no.: 9014462 (Fig. 9- )

#### Mounting the arm to the door and carriage (Fig. 10)

- [1]. Release the carriage using the manual back release device.
- [2]. Bring the carriage level with the door.
- [3]. Secure the arm to the door yoke and carriage.

#### Adjusting and mounting the opening stop (Fig. 11)

- [1]. Release the carriage using the manual back release device and move the door to the open position.  
Do not open the door fully, but position it so that it does not reach its stops.
- [2]. Position the stop against the carriage and secure it to the rail.

#### Mounting the chain bearings (Fig. 12)

For chain rails only.

Position each of the bearings in the first hole in the rail, outside the end limits.

Ensure that the bearing is fully pushed in so that the positioning lug protrudes past the outside of the rail.

#### Checking the tension of the chain or belt (Fig. 13)

The rails are supplied pre-tensioned and checked. If necessary, adjust this tension.



***The rubber must never be completely compressed during operation.***

#### Connection to the electrical power supply (Fig. 14)

- [1]. Fit the light.
- [2]. Connect to the mains supply.  
Warning light B flashes twice continuously to indicate that the motor is waiting for auto-programming.



***Connect the power supply cable to a socket provided for this purpose and which complies with the electrical requirements. The electrical line must be equipped with protection (16 A fuse or breaker) and a differential device (30 mA).***



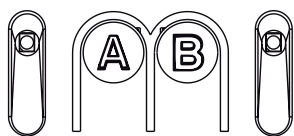
***An all-pole supply cut-off device must be provided:  
. either by using a supply cable fitted with a plug;  
. or by using a switch ensuring a minimum separation distance between the contacts of 3 mm on each pole (see EN60335-1 standard).***



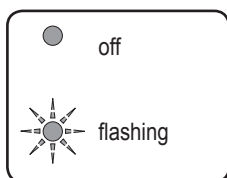
***Check that the manual back release device is a maximum of 1.80 m from the ground.  
If necessary, extend the lead.***

# PROGRAMMING

## Description of the programming buttons



### Warning light legend:



- . Triggering of auto-programming
- . Memorising/clearing the remote controls
- . Modifying a parameter value



- . Use of forced operating mode
- . Selecting a parameter

**Warning light A** . Parameter warning light selected

**Warning light B** . Parameter value warning light  
 . Fault indicator warning light

## Auto-programming **Fig. 15**

- [1]. Control the motor with button "A" so that the transmission shuttle is engaged on the carriage and bring the door to the closed position:
  - . Keep pressing button "A" to cause the shuttle to move.
  - . Release the button to stop the movement.
  - . Press button "A" again to trigger movement in the opposite direction.
 Release button "A" before forcing the motor on the door.
- [3]. Adjust the closed position using button "A".
  - . Release button "A" before forcing the motor on the door.
- [4]. Press "B" to launch the auto-programming cycle.
  - . The door performs a complete Opening-Closing cycle.
  - . If the auto-programming is correct, warning light B goes out.
  - . If the auto-programming cycle was not successful, warning light B continues to flash (2 flashes).
 During auto-programming:
  - . If the door is moving, the movement is stopped and auto-programming is interrupted if any of the buttons are pressed.

It is possible to access auto-programming mode at any moment including when the auto-programming cycle has already been completed.

**Note:** The remote controls supplied in the kit have already been memorised.

**At this stage of the installation, the Dexxo Compact RTS motorisation is ready to operate.**

# OPERATING TEST

## Using the remote controls **Fig. 16**

### Obstacle detection operation **Fig. 17 and 18**

When an obstacle is detected during closing, the door re-opens (Fig. 17).

When an obstacle is detected during opening, the door will stop (Fig. 18).

Check that the obstacle detection function works when the door encounters a 50 mm high obstacle on the ground.

### Integrated lighting operation

The lighting comes on each time the motorisation is switched on. When the door stops moving, it goes off automatically after 30 seconds. Repetitive use will cause the light to be lit constantly which may result in the light being switched off automatically due to thermal protection.

# CONNECTING ADDITIONAL DEVICES

## Description of the various additional devices **Fig. 19**

No.	Description
1	Orange light
2	Wired code keypad
3	Key lock
4	Aerial
5	Battery
6	Photoelectric cells

## Electrically connecting additional devices **Fig. 19 to 22**

Switch off the electrical supply to the motor before performing any operation on the additional devices.

### General electrical diagram (Fig. 19)

### Photoelectric cells (Fig. 20)

When positioning the cells, remove the bridge created between terminals 1 and 2.



**If cells are removed, it is essential to recreate the bridge between terminals 1 and 2.**

### Solar kit (Fig. 21)

Activate solar mode by adjusting the motor supply type (see below).

### Wired code keypad (Fig. 22)

# PARAMETER SETTING AND OPERATING OPTIONS

## General parameter-setting diagram **Fig. 23**

### Meaning of different parameters

Programming example: Adjusting the long slow zone (Fig. 24)

Warning light A	Description	Warning light B	Comments
	Obstacle detection sensitivity	1 : very low sensitivity 2 : slightly sensitive 3 : <b>standard</b> 4 : very sensitive	If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation.
	Coupling speed when closing	1 : no reduction in speed 2 : <b>short reduction in speed</b> 3 : long reduction in speed	No reduction in speed at the end of closing. The speed is reduced during the last 30 centimetres. The speed is reduced during the last 50 centimetres. If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation.
	Auto-programming mode	2 : waiting for auto-programming	
	Power supply type	1 : Power supply 2 : Solar	

## Memorising the remote controls for operation in "Total opening" mode **Fig. 25**

The remote controls supplied in the kit have already been memorised.

It is possible to memorise up to 32 control channels.

If this procedure is carried out using a channel which has already been memorised, this channel will be cleared.

## Memorising a Telis type remote control or similar **Fig. 26**

### SPECIFIC OPERATION

See the user booklet.

### CLEARING THE REMOTE CONTROLS AND ALL SETTINGS

#### Clearing the remote controls **Fig. 27**

Press button "B" until the light flashes (7 secs).

Causes all memorised remote controls to be cleared.






#### Reinitialising all settings **Fig. 28**

- [1]. Press button "A" 3 times to access the auto-programming parameter.
- [2]. Press button "B" to enter auto-programming mode. Warning light B flashes twice continuously.
- [3]. Control the motor with button "A" so that the transmission shuttle is engaged on the carriage and brings the door to the closed position.
- [4]. Press "B" to launch the auto-programming cycle.  
The door performs a complete Opening-Closing cycle.
  - If the auto-programming is correct, warning light B goes out.
  - If the auto-programming cycle was not successful, warning light B flashes twice continuously.

### REFITTING THE COVER FLAP (Fig. 29)

Fit the cover flap.

### DIAGNOSTICS

Warning light B	Meaning	Solution?
2 	Motor waiting for auto-programming	Start auto-programming
3 	Cell fault	Check that no obstacles prevent the cells from detecting. Check the wiring of the cells or create a bridge between terminals 1 and 2 if no cells are installed. Check the correct alignment of the cells.
5 	Motor thermal protection device	Leave the motor to cool until the fault disappears.
6 	Motor current measuring circuit fault or sensor fault	Switch off the power supply (mains and backup battery), wait a few minutes then reconnect the power supply. Perform an auto-programming cycle. If the fault remains, contact Somfy technical assistance.
7 	Maximum power delivered by the motor reached during the auto-programming phase	Product has reached operating limit.

# TECHNICAL DATA

## DEXXO COMPACT RTS

### GENERAL SPECIFICATIONS

Power supply		230 V - 50 Hz
Max. power consumption	Standby operation	4 W - 120 W
Max. tensile force		600 N
Operation		20 cycles per day max. tested for 10,000 cycles
Number of Opening-Closing cycles per day		
Maximum speed		14 cm/s
Programming interface		2 buttons - 2 warning lights
Climatic operating conditions		- 20°C / + 60°C - dry interior - IP 20
End limits		Opening mechanical stop Electronic when closing: stored closing position
Electrical insulation		Class 2: double-insulated
Integrated lighting		24 V / 21 W; BA15s socket
Somfy radio frequency		RTS 433.42 MHz
Number of storable channels		32

### CONNECTIONS

Safety input	Type	Dry contact: NC
	Compatibility	TX/RX photoelectric cells
Wired control input		Dry contact: NO
Orange light output		Flashing output for orange light: 24 V - 15 W
Accessories supply output		24 V - 500 mA max
Offset aerial input		Yes: RTS antenna compatible (part no.: 2400472)
Backup battery input	Battery life	Yes: battery pack compatible (part no.: 9001001) 24 hours; 5 to 10 cycles depending on the door Charging time: 72 hours

### OPERATION

Forced operating mode		By pressing and holding button "A"
Timed lighting (after movement)		Set at 30 seconds
Orange light warning		2 secs automatic if light connected
Security entry operation	When closing	Total reopening
	Before opening (ADMAP)	With
Integrated obstacle detection		Adjustable sensitivity: 4 levels
Operation in the event of obstacle detection		Total reopening
Gradual starting		Yes
Opening speed		Fixed: 14 cm/s (max.)
Closing speed		Fixed: 12 cm/s (max.)
Coupling speed when closing		Programmable: no reduction in speed, short slow zone (30 cm), long slow zone (50 cm)

## Dimensions

