

Oximo WireFree™ Battery Stick

EN Instructions
IT Istruzioni
ES Manual
PT Guia
PL Instrukcja
AR دليل

somfy®

ORIGINAL INSTRUCTIONS

These instructions apply to all Oximo WireFree™ battery sticks, the different versions of which are available in the current catalogue.

CONTENTS

1. Prerequisite information **3**
1.1. Field of application 3
1.2. Liability 3
1.3.Safety instructions 4
2. Installation **4**
2.1. Installing the battery 5
2.2. Wiring 6
2.3. Commissioning 7
3. Use and maintenance **8**
3.1. Charging the battery 8
3.2. Protecting the battery against excessive discharge 8
3.3. Maintenance 8
3.4. Tips and advice for use 8
4. Technical data **9**

GENERAL INFORMATION

Safety instructions

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. PREREQUISITE INFORMATION

1.1. FIELD OF APPLICATION

The Oximo WireFree™ Battery Stick is an extended-temperature-range battery used for storing the electrical energy supplied by the Somfy solar panel and for powering the Oximo 40 WF RTS low-consumption motor.

The Oximo WireFree™ Battery Stick is also referred to as "the battery" in these instructions.

1.2. LIABILITY

Please read these instructions carefully before installing or using this product.

This product must be installed by a motorisation and home automation professional, in accordance with Somfy instructions and the regulations applicable in the country in which it is commissioned.

Any use of the product outside the above field of application is forbidden. Such use, and any failure to comply with the instructions given in this guide, absolves Somfy of any liability and invalidates the warranty.

The installer must inform his customers of the usage and maintenance conditions of this product and must provide them with the user and maintenance instructions after installing the product. Any After-Sales Service operation on the product must be performed by a motorisation and home automation professional.

If in doubt when installing the product, or to obtain additional information, contact a Somfy adviser or consult the website www.somfy.com.

Copyright © 2018 SOMFY ACTIVITES SA, Société Anonyme. All rights reserved.

1.3.SAFETY INSTRUCTIONS

Keep out of the reach of children

Do not disassemble, open or shred the components or the batteries.

Do not expose the components or batteries to heat or fire. Avoid storing in direct sunlight.

Do not short-circuit a component or battery.

Do not subject the batteries to mechanical shocks.

In the event of a leak from a component, ensure that no liquid comes into contact with the skin or eyes. If this should happen, wash the area affected with plenty of water and seek medical advice.

Do not use any charger other than the one specifically intended for use with the appliance.

Respect the plus (+) and minus (–) polarities on the component, battery and appliance and ensure correct use.

Do not use components or batteries which are not designed to be used with the appliance.

Always purchase the battery recommended by the equipment manufacturer.

Keep all components and batteries clean and dry.

The components and batteries must be charged before use. Always use the appropriate charger and refer to the manufacturer's instructions or the appliance manual with regard to the correct charging instructions.

Do not leave a battery to charge for a long period when not in use.

After prolonged storage, it may be necessary to charge and discharge the components or batteries several times in order to obtain maximum performance.

Keep all the original documentation relating to the product for subsequent reference.

Only use the component or battery in the application for which it is intended.

Dispose of in an appropriate manner.

2. INSTALLATION

Warning

- *These instructions are **mandatory** for the motorisation and home automation professional installing the motorisation.*
- *Comply with current standards and legislation in the country of installation.*

ⓘ *Before installation or commissioning, ensure the battery is fully charged using the Somfy-compatible external battery charger (Oximo WireFree™ charger, not supplied).*

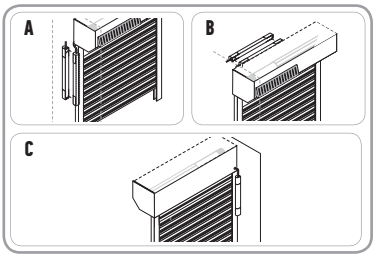
Copyright © 2018 SOMFY ACTIVITES SA, Société Anonyme. All rights reserved.

2.1. INSTALLING THE BATTERY

Attention

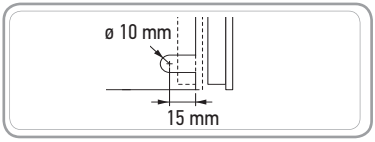
- *The three components – solar panel, battery and motor – must be installed on the same side of the roller shutter.*
- *The battery must be protected from the rain (IPX4).*

The shape of the battery has been specially designed for installation in a corner for greater discretion. The battery can be installed behind a runner **(A)**, at the rear **(B)** or under the housing of the roller shutter, under the window frame or in the corner of an interior wall **(C)**: choose according to the configuration and type of roller shutter.



Make an opening on the rear of the housing in order to feed the battery cable inside:

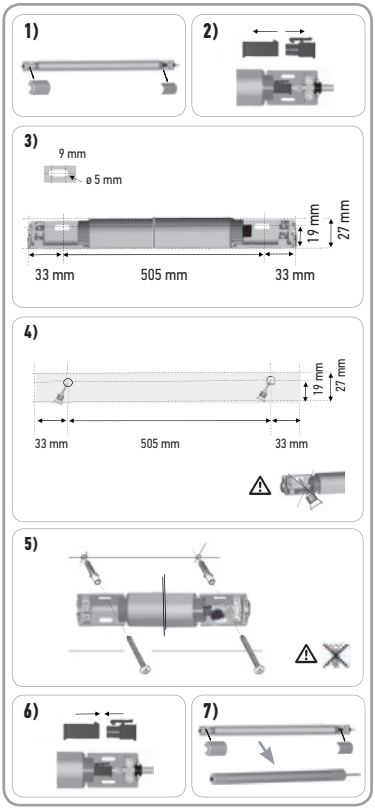
- Cut a half-oblong 10 mm in diameter and 15 mm long from the edge of the housing, as per the diagram.



2.1.1. Screw mounting

ⓘ *Somfy recommends screw-mounting the battery to ensure a secure hold over time and to facilitate after-sales operations.*

1) Remove the plastic covers from each end of the battery:
2) Disconnect the cable from the battery connector to avoid damaging the cable during installation.
3) Select the direction in which the battery is positioned according to the configuration of your installation and identify the position of the holes as per the corresponding diagram.



4) Drill the battery fastening holes in the locations indicated.

ⓘ *Do not drill through the battery supports.*

5) Secure the battery using the steel pop rivets or screws with Ø 5 mm in the holes drilled.

ⓘ *Do not use countersunk screws.*

6) Reconnect the cable to the battery connector.
7) Reposition the covers at each end of the battery and press until they clip into place.
   - Check that the cable grommet and the sealing pellet are correctly positioned under the covers.

Go to section ***2.2. Wiring***.

Copyright © 2018 SOMFY ACTIVITES SA, Société Anonyme. All rights reserved.

2.1.2. Adhesive-mounting

ⓘ *Somfy does not recommend adhesive-mounting the battery, especially on non-smooth and porous surfaces such as plastering, concrete or wood.*

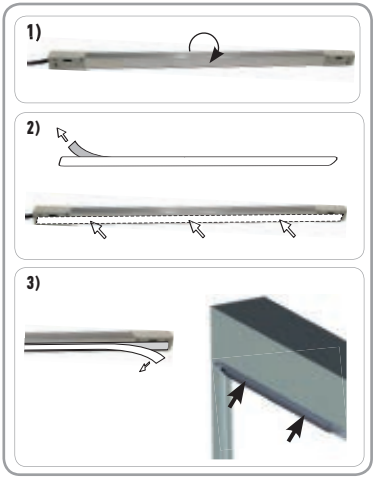
ⓘ *The ambient temperature when applying the adhesive must be between 20°C and 38°C.*

ⓘ *Thoroughly clean the chosen mounting locations with an isopropyl alcohol and water mixture (50/50) based solvent or with a heptane based solvent.*

1) Select one of the two flat surfaces on which to stick the adhesive in accordance with the configuration of your installation.

2) Remove the protective paper from the adhesive and stick it to the flat surface of the battery selected.

3) Remove the other protective paper from the adhesive and press the battery onto the cleaned surface using even force.



Go to section ***2.2. Wiring***.

2.2. WIRING

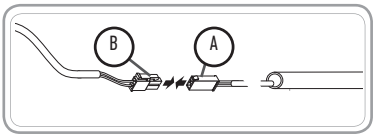
Warning

Never cause a short circuit across the battery terminals. Risk of burns and explosion.

Attention

- *Do not cut or modify the cable.*
- *The connections with the motor must be inside the roller shutter housing.*
- *A cable crossing a metallic wall must be protected and insulated by means of the cable grommet supplied on the cable.*
- *Attach cables to prevent any contact with moving parts.*
- *Somfy recommends placing the connectors between the end piece and flange and fixing the cables inside the roller shutter housing.*

Wire the 2-pin battery connector (A) to the 2-pin Y-shaped cable connector (B).



Copyright © 2018 SOMFY ACTIVITES SA, Société Anonyme. All rights reserved.

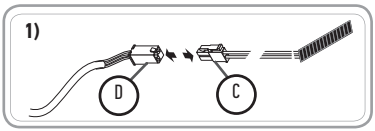
2.3. COMMISSIONING

FIRST CHARGE

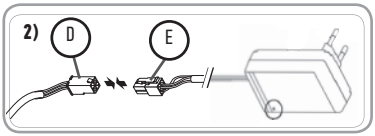
Attention

- *Before commissioning the battery, have it fully charged by a professional using the Somfy-compatible external battery charger (Oximo WireFree™ charger, not supplied).*
- *Any use of another battery charger is prohibited.*
- *Do not exceed the maximum charging time of 3.5 hours.*

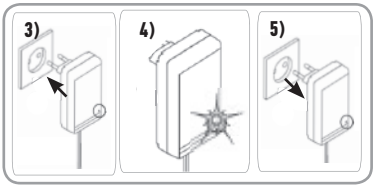
1) Disconnect the 2-pin solar panel connector (C) and the 4-pin Y-shaped cable connector (D).



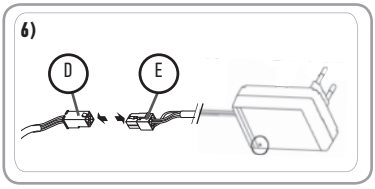
2) Wire the 4-pin external battery charger connector (E) to the 4-pin Y-shaped cable connector (F).



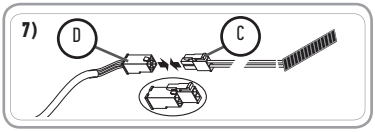
3) Connect the external battery charger power cable to a mains socket.
4) Wait until the LED turns green: the battery is recharged.
5) Disconnect the charger from the mains socket.



6) Disconnect the external battery charger connector (E) from the Y-shaped cable connector (D).



7) Reconnect the solar panel connector (C) to the Y-shaped cable connector (D).



Copyright © 2018 SOMFY ACTIVITES SA, Société Anonyme. All rights reserved.

3. USE AND MAINTENANCE

3.1. CHARGING THE BATTERY

After installing and commissioning the Oximo 40 DC RTS kit (Oximo 40 WF RTS motor, Somfy battery, Somfy solar panel), the battery charges with electrical energy via the solar panel.

The electrical energy transmitted by the solar panel is stored by the battery to supply the Oximo 40 WF RTS motor.

3.2. PROTECTING THE BATTERY AGAINST EXCESSIVE DISCHARGE

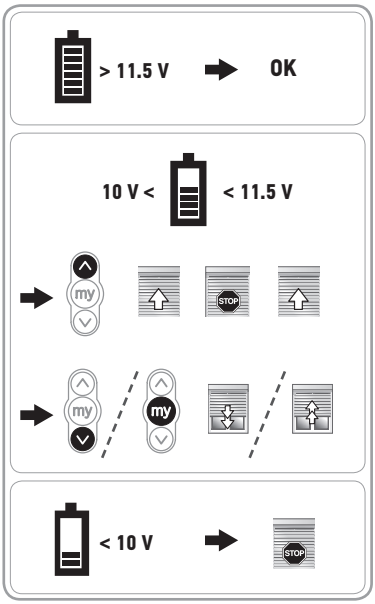
Each time the motor receives an up or down command, it checks the battery voltage to ensure it is not discharged below 10 V.

If the battery voltage is above 11.5 V, the motor is operating normally:

If the voltage is below 11.5 V and above 10 V:

- When the **Up** button is pressed, the roller shutter stops briefly when rising.
- When the **Down** or **my**, button is pressed, the roller shutter does not perform the requested operation but performs two brief movements in the same direction.
- These actions indicate a low battery level.

If the voltage is below 10 V, the roller shutter does not move.



Thanks to the solar panel, the battery voltage will increase again to 12 V and the motor will resume normal operation.

There is nevertheless an alternative solution for recharging the battery thanks to the Somfy-compatible external battery charger (Oximo WireFree™ charger, not supplied).

3.3. MAINTENANCE

Attention

- *Any use of another battery charger is prohibited.*
- *Never leave the battery discharged.*

The service life of the Oximo WireFree™ Battery Stick is approximately 8 years (estimation for an average operating temperature of 20°C).

If the roller shutter behaves abnormally as described in the previous section and the motor does not return to normal operation after a sunny period, there has probably been a major discharge from the Oximo WireFree™ Battery Stick. In this instance, the Oximo WireFree™ Battery Stick needs to be charged by a motorisation and home automation professional using the Somfy-compatible external battery charger.

If this occurs on a regular basis, the battery must be replaced or the orientation of the solar panel must be changed by a motorisation and home automation professional.

3.4. TIPS AND ADVICE FOR USE

3.4.1. Recharging and replacing the battery

To recharge or replace the Oximo WireFree™ Battery Stick, contact a motorisation and home automation professional.

Please separate storage cells and batteries from other types of waste and recycle them via your local collection facility.

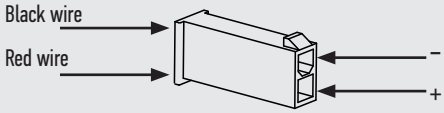
Copyright © 2018 SOMFY ACTIVITES SA, Société Anonyme. All rights reserved.

3.4.2. Questions about the Oximo WireFree™ Battery Stick?

Observations	Possible causes	Solutions
The motorised product does not work.	The wiring is incorrect.	Check the wiring and modify it if necessary.
		Check that the connection between the motor and the battery has been carried out correctly.
	The battery is low	Wait while the solar panel recharges the battery, or have the battery recharged.
	One of the components (motor, solar panel, control point, etc.) is not working.	See the corresponding guides.
The roller shutter stops briefly before rising, when the Up button is pressed.	The battery is low.	Wait while the solar panel recharges the battery, or have the battery recharged.
The roller shutter performs two brief movements in the same direction, when the Down button or STOP/my button is pressed.	The battery is low	
The battery is recharged several times a year using the external battery charger.	The solar panel is incorrectly positioned.	Check the location of the solar panel; see the Somfy solar panel guide.
	The solar panel is defective or damaged.	Replace the solar panel; see the Somfy solar panel guide.
	The battery has reached the end of its service life.	Replace the battery.

4. TECHNICAL DATA

Power supply	12 V DC
Capacity	2.2 Ah
Operating temperature	- 20°C to + 70°C
Degree of protection	IPX4
Max. charging time	3.5 hours
Charging frequency	Max. 2 per year
Max. storage time (before first charge)	6 months at 20°C. After storage for this period, there is a risk that the battery may be completely discharged
Maximum charge current	200 mA



For more information about the technical data relating to this battery, please contact a Somfy representative.

Copyright © 2018 SOMFY ACTIVITES SA, Société Anonyme. All rights reserved.

Copyright © 2018 SOMFY ACTIVITES SA, Société Anonyme. All rights reserved.

Images not contractually binding

SOMFY ACTIVITÉS SA, Société Anonyme, capital 35.000.000 Euros, RCS Annecy, 303.970.230 - 12/2018

SOMFY ACTIVITÉS SA
50 avenue du Nouveau Monde
F-74300 Cluses

www.somfy.com

somfy®

5143941A