

### GUIDE TO FOLLOW

This quick-start guide, intended for the installer, presents the key operations to be performed when installing the drive.

A complete manual is also available online at [www.somfy.info](http://www.somfy.info) for more information. This document provides information regarding the assembly operations performed by the manufacturer of the load-bearing product, and the steps necessary to replace a drive in an existing installation, for example.

Several adjustments are made using the **EMS2** and **Set&Go** tools, notably setting the type of EVB for optimum control with Somfy home automation systems.



[www.somfy.info](http://www.somfy.info)



### GLOSSARY

- Safety Warning!
- Caution!
- Information
- Local control point
- io - Somfy

These instructions apply to the J4 io Protect drives, which are available in the current catalogue.

### SPHERE OF APPLICATION

J4 drives are designed to drive all types of Exterior Venetian Blinds (EVB).

The installer, a home motorisation and automation professional, must ensure that once the driven product is installed, it respects the current standards in the country of installation, notably standard EN 13561 relative to exterior blinds.

### LIABILITY

Before installing and using the drive, please read these instructions carefully. In addition to the instructions provided in this guide, please also comply with the instructions set out in the enclosed **Safety instructions** document.

The drive must be installed by a home motorisation and automation professional, in accordance with Somfy's instructions and the applicable regulations in the country of installation.

Any operation of the drive outside the sphere of application described above is prohibited. Such operation shall exclude Somfy from all liability and invalidate the Somfy warranty, as will any failure to comply with the instructions given herein and in the enclosed **Safety instructions** document.

After installing the drive, the installer must inform his customers of the operating and maintenance conditions for the drive and must pass the operating and maintenance instructions on to them, as well as the enclosed **Safety instructions** document. Any After-Sales Service operation on the drive requires intervention by a home motorisation and automation professional.

Should any doubt arise during installation of the drive or for additional information, consult a Somfy contact or visit [www.somfy.com](http://www.somfy.com).

### GENERAL SAFETY INSTRUCTIONS

Fitting, testing, commissioning and repair of the installation must only be carried out by qualified personnel.

The installation must be protected from all unauthorised use.

Comply with the assembly and operating guides, in particular the safety instructions supplied by the manufacturer of the device to be used.

To remove the drive power cable, please use the J4 cable removal tool supplied, ref:9017811.

The drive, torque and operating time must be adjusted in relation to the whole installation.

The moving parts of the drives must be protected if operating below 2.50 m from ground level or another level.

Disconnect all connected cables from the power supply before working on the installation.

### SAFETY INSTRUCTIONS FOR WIRING

Cables routed through a metal wall must be protected and insulated by sleeving or sheathing.

Secure the cables to prevent any contact with moving parts.

If the drive is used outdoors and if the power supply cable is of the H05-VVF type, run the cable in a UV-resistant duct, e.g. trunking.

Leave the drive power supply cable accessible: it must be able to be easily replaceable.

Always make a loop in the power cable to prevent water from entering the drive!

### SPECIFIC INSTRUCTIONS

Correct operation of the installation is only guaranteed if the installation and assembly have been carried out according to best practices, if the power supply is adequate and if maintenance is carried out.

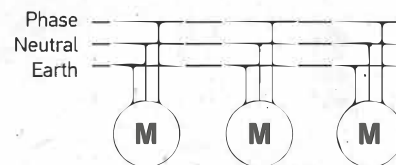
Do not use the installation if work (cleaning windows, for example) is being carried out nearby.

If the mushroom is used to stop the EVB in the upper end limit position, the installer must ensure that the mushroom is present when

the complete installation is used for the first time.

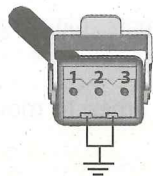
To avoid damaging the product: never immerse it, avoid impacts, avoid dropping it and never drill into it!

The phases and neutrals of each drive must be connected together respectively, as shown below:

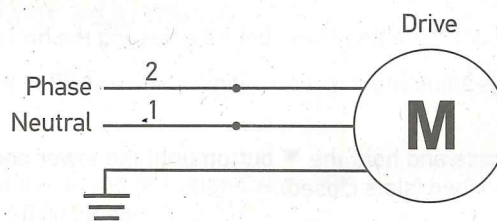


**CE** As the manufacturer, SOMFY ACTIVITES SA, F-74300 CLUSES hereby declares that the drive covered by these instructions, marked for input voltage 230 V~50 Hz and used as set out in these instructions, is in compliance with the essential requirements of the applicable European Directives and in particular of the Machinery Directive 2006/42/EC and Radio Equipment Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at [www.somfy.com/ce](http://www.somfy.com/ce). Antoine Cr ez, Approval manager, acting on behalf of the Business Director, Cluses, 12/2017.

Drive connector



Phase	2	Black
Neutral	1	Blue
Earth		Green-Yellow



**PREPROGRAMMING A CONTROL POINT**

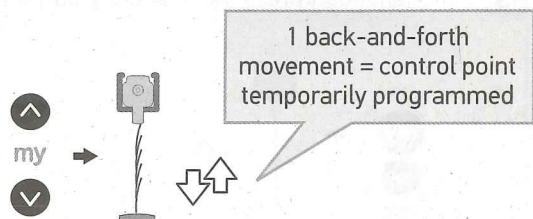
Press and hold the ▲ and ▼ buttons simultaneously until the EVB moves up and down briefly.



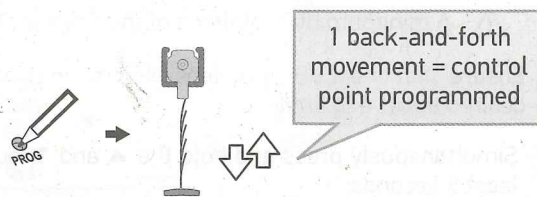
**PROGRAMMING A CONTROL POINT**

**i** If a multi-channel remote control is used: first select the channel that will control the drive.

**1** Press and hold the ▲ and ▼ buttons simultaneously until the EVB moves up and down briefly.



**2** Press the PROG button briefly.



**DIRECTION OF ROTATION** (In case of drive replacement)

Press the ▼ button:

- If the EVB lowers, the rotation direction is **correct**.
- If the EVB rises, the rotation direction is **incorrect**.

Press the **my** button until the EVB moves to reverse the direction of rotation.

**KINEMATICS**

The kinematics can be modified according to the full installation guide. By default, it is set for a 90°/0° slat angle.

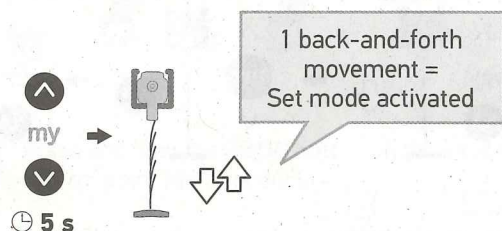
**⚠** The kinematics must be adjusted before recording definitively the control point.

**⚠** This adjustment is important for the precision of the desired slat orientation.

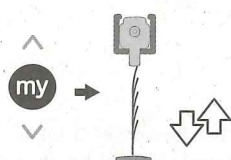
**i** By default, the tilting travel corresponds to a 105° rotation of the drive shaft.

**1** Press and hold the ▼ button until the lower end limit is reached (slats closed).

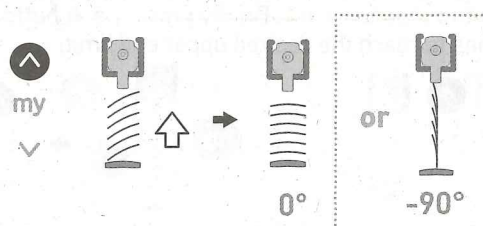
**2** Simultaneously press and hold ▲ and ▼ at least 5 seconds:



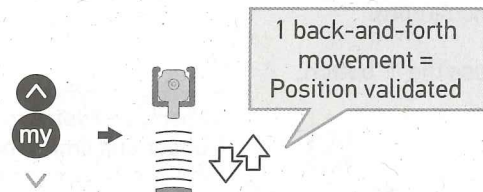
**3** Press the **my** button:



**4** Briefly press the ▲ button several times to move the slats from the closed position to the maximum open position:



**5** Simultaneously press the ▲ and **my** buttons:

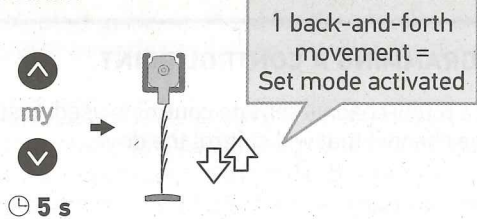


⚠ Adjust the tilting travel before adjusting the horizontal slats.

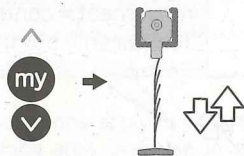
ⓘ This adjustment is required only with an EVB with a +90°/-90° operating mechanism paired with a compatible sunlight sensor.

1 Press and hold the ▼ button until the lower end limit is reached (slats closed).

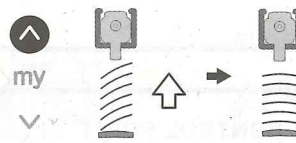
2 Simultaneously press and hold the ▲ and ▼ buttons for 5 seconds:



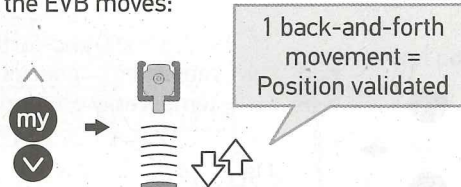
3 Simultaneously press the ▼ and **my** buttons:



4 Briefly press the ▲ button several times to move the slats to the horizontal position:



5 Press and hold the ▼ and **my** buttons simultaneously until the EVB moves:

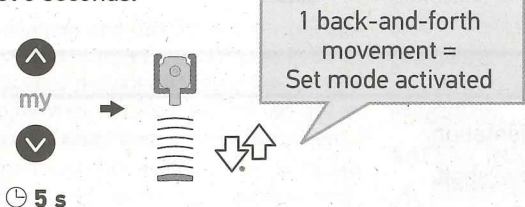


### SETTING THE UPPER END LIMIT

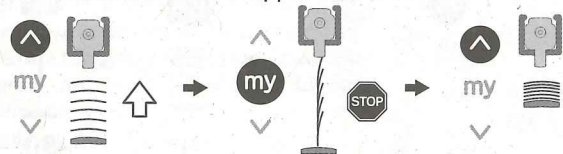
⚠ A minimum of 3 rotations of the drive shaft is required between the lower end limit and the upper end limit.

ⓘ Ensure that the EVB is at least 15 cm below the new desired upper end limit.

1 Simultaneously press and hold the ▲ and ▼ buttons at least 5 seconds:

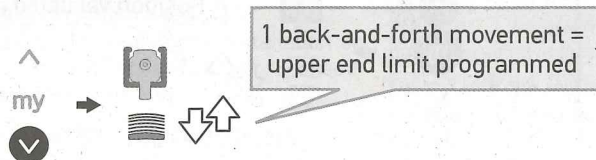


2 Press and hold the ▲ button (1 brief movement), and then press the **my** button upon the approach of the end limit to stop the drive. Briefly press the ▲ button several times to reach the desired upper end limit:



ⓘ If the EVB presses on the mushroom, it makes a back-and-forth movement and the upper end limit is programmed approximately 6 mm below the mushroom.

3 Press the ▼ button:

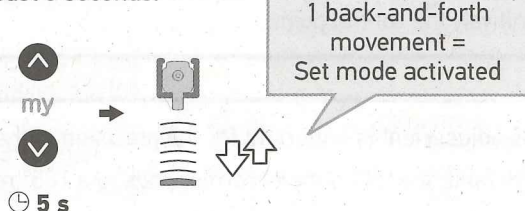


ⓘ If, during a cycle, the upper end limit is modified automatically, then the automatic adjustment function is activated.

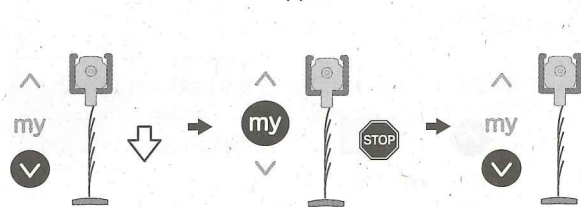
### SETTING THE LOWER END LIMIT

ⓘ Ensure that the EVB is at least 15 cm above the new desired lower end limit.

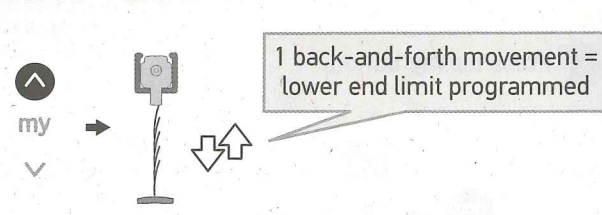
1 Simultaneously press and hold the ▲ and ▼ buttons at least 5 seconds:



2 Press and hold the ▼ button (1 brief movement), and then press the **my** button upon the approach of the end limit to stop the drive. Briefly press ▼ button several times to reach the desired upper end limit:



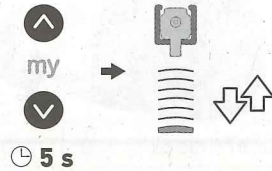
3 Press the ▲ button:



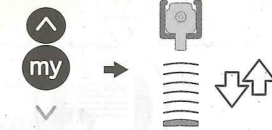
ⓘ If the EVB does not react, the lower end limit has been locked by the manufacturer and can not be re-set.

## OBSTACLE DETECTION

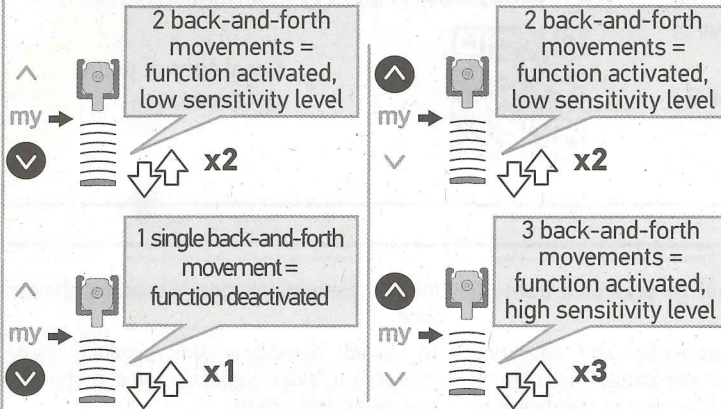
- 1 Simultaneously press and hold the ▲ and ▼ buttons at least 5 seconds:



- 2 Simultaneously press the ▲ and **my** buttons:

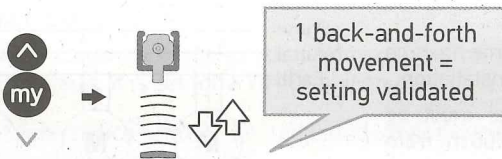


- 3 To select the sensitivity level of the obstacle detection function, press the ▲ button to increase the level and the ▼ button to reduce the level until deactivation:



*i* By default, the obstacle detection function is set to high sensitivity level.

- 4 Simultaneously press the ▲ and **my** buttons:

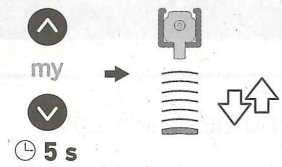


*i* Obstacle detection functions only when the EVB is rising.

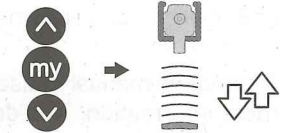
## AUTOMATIC ADJUSTMENT

*!* Breakage risk: ensure that the mushroom is configured to stop the EVB's slats when raised.

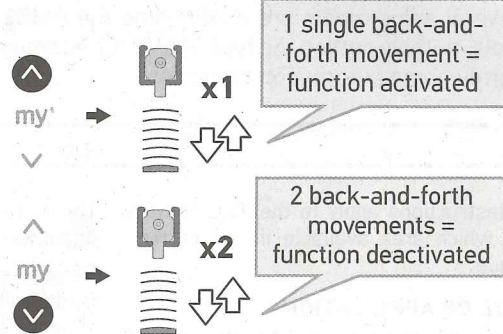
- 1 Simultaneously press and hold the ▲ and ▼ buttons at least 5 seconds:



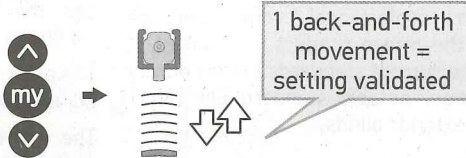
- 2 Simultaneously press the ▲, **my** and ▼ buttons:



- 3 To **activate** the automatic adjustment function, press the ▲ button. To **deactivate** it, press the ▼ button:



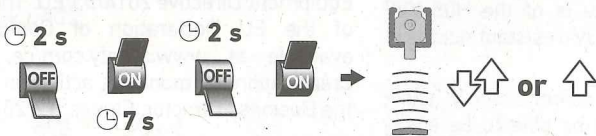
- 4 Simultaneously press the ▲, **my** and ▼ buttons:



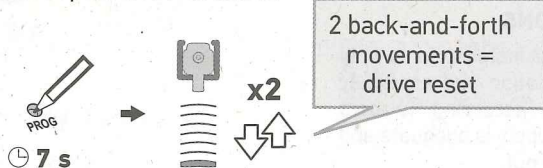
*i* This setting can also be made using the **EMS2** and **Set&Go** tools.

*!* Ensure that the EVB is at least 30 cm below the mushroom.

- 1 Leave the drive's power on for at least 15 seconds, then perform a double cutout, as shown below:



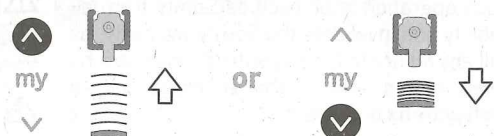
- 2 Press and hold the **PROG** button on the local io Somfy control point for 7 seconds:



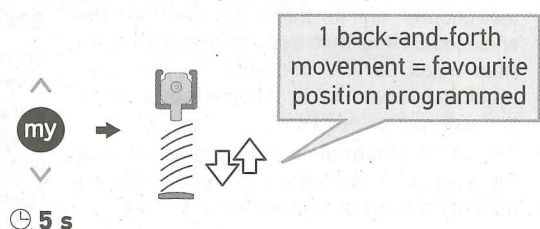
*i* The current position is stored as the lower end limit, unless the lower end limit has been locked by the manufacturer.

*!* Refer to the online manual for the EVBs with working position.

- 1 Move the EVB to the new desired favourite position:



- 2 Press and hold the **my** button for 5 seconds:



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