



### GUIDE TO FOLLOW

This short installation guide allows you to follow step by step the drive installation key stages.

Further information about the installation of this drive is also available online :

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



### LEXICON

⚠ Safety warning !

✋ Caution !

ℹ Information

⬆ ⬇ Control point, type non-locking double pushbutton

▲ «Up» button / ▼ «Down» button



WT setting tool

Ref. Europe : 9015971

Ref. Switzerland : 9016772



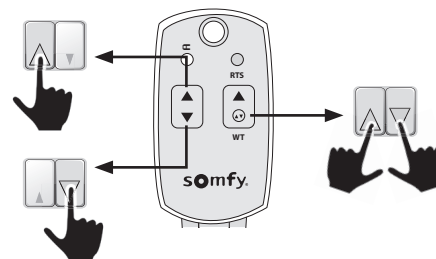
WT button of the WT setting tool



Mushroom

### THE WT SETTING TOOL

You can choose to use the WT setting tool or a control point, type non-locking double pushbutton. Their actions are equivalent, as below :



ℹ The type «non-locking double pushbutton» is only useful for installation steps.

These instructions apply to all J4 WT Protect drive, the different versions of which are available in the current catalogue.

### FIELD OF APPLICATION

J4 drive are designed to drive all types of tiltable venetian blinds.

The installer, who must be a motorisation and home automation professional, must ensure that the motorised product is installed in accordance with the standards in force in the country in which it is installed such as EN 13561 relating to outdoor screens and awnings.

### LIABILITY

Please read these instructions carefully before installing and using the drive. In addition to following the instructions given in this guide, the instructions detailed in the attached **Safety instructions** document must also be observed.

The drive must be installed by a motorisation and home automation professional, according to instructions from Somfy and the regulations applicable in the country in which it is commissioned.

It is prohibited to use the drive outside the field of application described above. Such use, and any failure to comply with the instructions given in this guide and in the attached **Safety instructions** document, absolves Somfy of any liability and invalidates the warranty.

The installer must inform its customers of the operating and maintenance conditions for the drive and must provide them with the instructions for use and maintenance, and the attached **Safety instructions** document, after installing the drive. Any After-Sales Service operation on the drive must be performed by a motorisation and home automation professional.

If in doubt when installing the drive, or to obtain additional information, contact a Somfy adviser or go to the website [www.somfy.com](http://www.somfy.com).

### GENERAL SAFETY INSTRUCTIONS

The installation must be protected from all unauthorised use.

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

To remove the drive supply cable : Please use the J4 cable removal tool supplied, ref. 9017811.

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

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

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

### SAFETY INSTRUCTIONS FOR WIRING

⚠ Cables which pass through a metal wall must be protected and isolated using a sheath or sleeve.

⚠ Attach cables to prevent any contact with moving parts.

⚠ If the drive is used outdoors, and if the power supply cable is a type H05-VVF cable, the cable should be installed in a UV-resistant duct, e.g. under a gland.

⚠ Leave the drive power supply cable accessible: it must be possible to replace it easily.

✋ Always make a loop in the power supply cable to prevent water entering the drive.

### SPECIFIC INSTRUCTIONS

Do not connect the drive to an isolating transformer.

Do not use mains disconnection devices in conjunction with a drive.

Use only mechanical switches or electro-mechanical switches (ex : relays) to control drives. The contacts of the relays must not be bypassed by capacitors.

In user mode, do not use electric switches allowing simultaneous ▲ and ▼ contact.

The drive must not be driven by a solid-state relay or triac relay.

Always refer to the control system instructions to do the proper wiring.

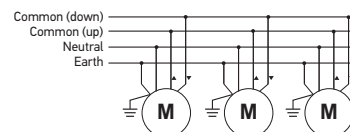
For control systems using an «automatic running time recognition procedure», please consider the recommendations given by the producer of the controller : the N wire of the controller has to be connected to the N wire of each drive.

Continuous orders of at least 200 ms must be sent to the drive to ensure proper execution.

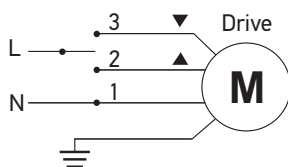
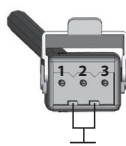
Intervals between "Down" and "Up" orders must be at least 500 ms.

The drive can be wired in parallel. In this case take in consideration the maximal load of the switch/controller used (starting current peak of the drive : 9 A in the first 3 ms).

Phases and neutrals of each drive must be connected together respectively as shown below :




Drive connector




Common (L)	3	Down	Brown
	2	Up	Black
Neutral (N)	1		Blue
Earth (⚡)			Green-Yellow

**Factory setting :** the drive is supplied in lower end limit position. The mushroom can therefore be used to set the upper end limit position.

### UPPER END LIMIT SETTING

- ① Ensure that the EVB is at least 15cm below the new desired upper end limit.
- 1** Press simultaneously the buttons and hold at least 5 seconds :
- ① You can exit this mode during the setting operation by briefly pressing the  button on the WT setting tool.

- 2** Press the  button (brief movement) and hold it until the required upper end limit is reached :

- ① If the EVB moves up until it rests against the mushroom, the upper end limit is stored at approximately 6 mm below the mushroom position.

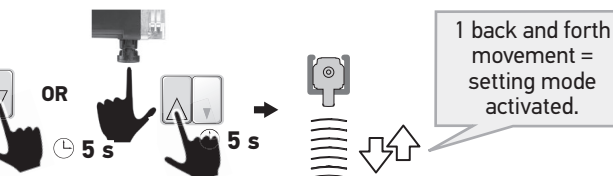
- 3** Press the  button :

Brief movement =  
upper end limit recorded.

- ① If during a cycle, the upper end limit has automatically changed, then the auto readjustment function is activated.

### LOWER END LIMIT SETTING

- ① Ensure that the EVB is at least 15cm up of the new desired down end limit.





- 2** Press the  button (brief movement) and hold it until the required lower end limit is reached :



- 3** Press the  button :

Brief movement =  
lower end limit recorded.

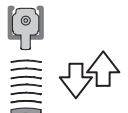


- ① If there is no reaction from the EVB, the lower end limit has been locked and can not be readjusted.


### THE OBSTACLE DETECTION

- 1** Briefly press the  button. Simultaneously press and hold the motor mushroom and the  button for 5 seconds:

- 2** 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:

- ① Obstacle detection is set to a low sensitivity level as standard.

0,5 s	Sensitivity level		0,5 s
	Function activated, high sensitivity level	x 3	
	Function activated, low sensitivity level	x 2	
	Function deactivated	x 1	


- 3** Press the  button and hold 5 s :

- if priority is given to the wind sensor order -> deactivate the obstacle detection function.
  - if priority is given to the obstacle detection function -> set the low/high sensitivity level according to the type of outdoor venetian blinds.
- ① When first using the product or if resetting, a full cycle must be completed (return movement of the product) to optimise the function.

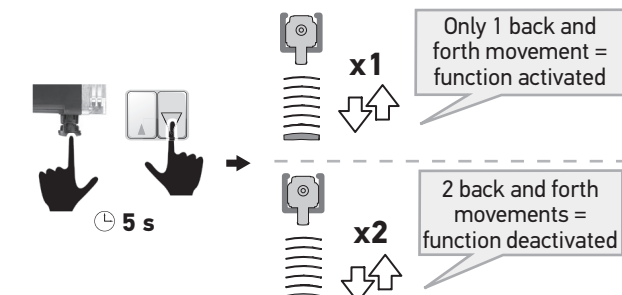
### THE AUTO READJUSTMENT

- ⚠ Never activate this function if the head rail is out of alignment or the mushroom is missing!

- 1** Briefly press the  button.

- 2** Simultaneously press and hold the motor mushroom and the  button for 5 seconds:

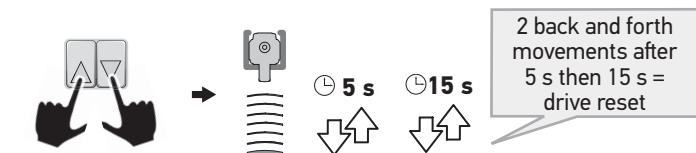
The EVB moves downwards for a few seconds.



- ① If there is no reaction from the EVB, the drive does not have the auto readjustment function.

- ① The obstacle detection only works during an EVB upper movement.

- ⚠ Ensure that the EVB is at least 30 cm below the stop on the mushroom position. Press simultaneously the buttons and hold at least 15 seconds :



- ① The current position of the EVB is stored as the lower position, unless the lower end limit has been locked by the manufacturer.

**CE** SOMFY ACTIVITES SA, F-74300 CLUSES as manufacturer hereby declares that the drive covered by these instructions when marked for input voltage 230V~50Hz and used as intended according to 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 EMC Directive 2014/30/EU. The full text of the EU declaration of conformity is available at [www.somfy.com/ce](http://www.somfy.com/ce). Antoine Cr  z  , Approval manager, acting on behalf of Activity director, Cluses, 07/2019.

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