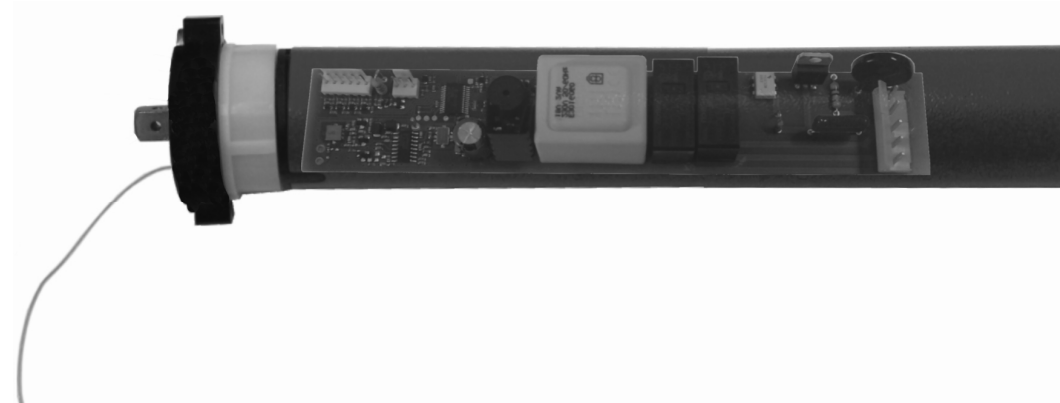


Tubular motor with encoder for awnings



series EUROPLUS



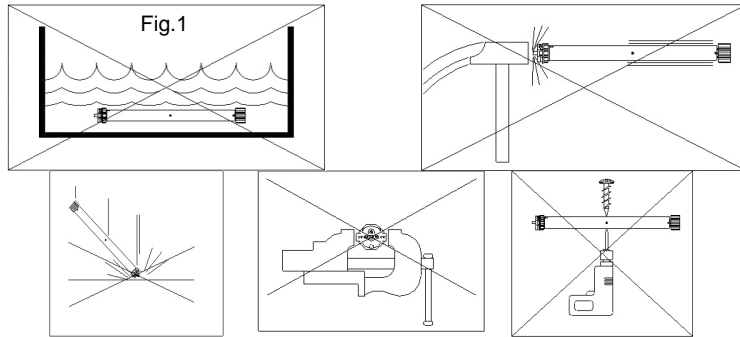
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CE



Warnings

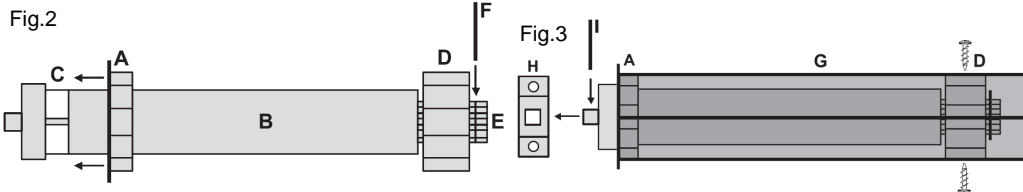
- The tubular motors EUROPLUS series have been realized for the automation of awnings, any other improper use is forbidden.
- Before the installation check that the tension and the frequency of the electrical net are identical to the ones indicated on the tubular motor's tag.
- The installation of the product must be carried out by technical qualified personnel.
- The installation realized must respect the CEI and UNI norms actually in vigour. The electrical net to whom to connect the tubular motor must respect the enforceable laws and norms and must be equipped with a good earth.
- During the installation of the tubular motor follow the security norms applicable to the type of carried out work.
- Do not submit the tubular motor to violent impacts, do not put it in contact with liquids, do not wet it, do not make a hole into, nor apply screws along the body of the motor.
- During the installation of the tubular motor keep people away.
- Do not leave the tubular motor beyond the range of the children.



Installation of the tubular motor

- The non respect of the instructions can cause serious damages to the health.
- After having cut the winding roller of the necessary length remove eventual bases and check that the internal of the tube is clean and free from metallic residual.
- Insert the limit switches crown (A) on the motor (B) until to lock it in the suitable grooves of the metal ring (C) (fig.2).
- Insert the pulley (D) in the motor shaft (E) locking it by the insertion of the spring stop (fig.2).
- Insert the tubular motor inside the winding roller (G), assuring to entirely insert the crown (A) (fig.3).
- Fix the pulley (D) of the tubular motor to the winding roller by two parker screws disposed at 180° one from the other, in order to avoid possible axial slipping of the motor (fig.3).
- Insert the head of the motor on the choose support (H) locking it by the cotter (I) (fig.3).

Note : when the gearmotor is inserted in the choose support pay attention not to damage the wire of the antenna.



NOTES

NOTES

1. Introduction



This motor has been designed for controlling awnings. There is a radio receiver inside for the remote – controlled operation (transmitter type B.RO and CLARUS). It is compatible with the WIN DUO RADIO sensor. It is possible to connect to the control unit 2 buttons for the opening and closing functions and the wired WIN DUO sensor. Moreover, an input for the exclusion of the light sensor is present.

The functioning logic of the control unit is with encoder, this means that, to the receipt of a control by user, the control unit carries out an opening or a closing for a distance defined during the learning phase (if not interrupted by the user).

2. Learning of the transmitters



2.1 Learning of the first transmitter with the selflearning function

2.1.1. Learning of transmitter series B.RO

- 1 Cut off power supply to the control unit  Wait 5 sec.
- 2 Give again power supply to the control unit
- 3 Within 30 seconds, press and release the hidden key of the transmitter to memorize.
- 4 Press and release the first key of the transmitter to memorize  The control unit emits **a long beep**.
- 5 The learning has had a successful end. The control unit is ready to work regularly.

Warning: during this operation the range of the transmitters is remarkably reduced. So, get closer to the head of the motor as much as possible (some decimetre).

2.1.2. Learning of the transmitter series CLARUS

- 1 Cut off power supply to the control unit  Aspettare 5 sec.
- 2 Give again power supply to the control unit
- 3 Within 30 seconds, transmit the menu “M” of the transmitter to memorize (*).
- 4 After having gone out from the menu, transmit a control of the channel to memorize (*).  The control unit emits **a long beep**.
- 5 The learning has had a successful end. The control unit is ready to work regularly.

Warning: during this operation the range of the transmitters is remarkably reduced. So, get closer to the head of the motor as much as possible (some decimetre).

(*) For the menu functions of the CLARUS transmitter, make reference to the relative instructions.

2.2 multiple learning of transmitters by transmitter already memorized

This procedure allows to learn a series of transmitters and can be carried out only by a transmitter already memorized.

Transmitters series B.RO

Transmitters series CLARUS

- 1 Press and release the hidden key of a **memorized** transmitter. The control unit emits **one long beep**.
 - 2 Press and release the UP key of a **memorized** transmitter. The control unit emits a **short beep**.
 - 3 Press and keep pressed the DOWN key of a **memorized** transmitter. When the control unit emits **one long beep**, release the key.
 - 4 **Opening of the memory carried out with success.** Transmit a control of all the transmitters/channels to memorize. For each learned transmitter/channel, the control unit signals it with a **long beep**.
 - 5 Once learned all the transmitters, **close the memory** pressing the hidden key of a memorized transmitter. The control unit emits **two beep**.
- 1 Transmit the menu voice "M" of a **memorized (*)** transmitter. The control unit emits **one long beep**.
 - 2 After going out from the menu, give a control UP of a **memorized channel (*)**. The control unit emits **one short beep**.
 - 3 Press and keep pressed the DOWN key of a **memorized** transmitter. When the control unit emits a **long beep**, release the key.
 - 4 **Opening of the memory carried out with success.** Transmit a control of all the transmitters/channels to memorize. For each learned transmitter/channel, the control unit signals it with a **long beep**.
 - 5 Once learned all the channels, **close the memory** transmitting the menu voice "M" of a memorized channel. The control unit emits **two beep**.

(*) For the menu functions of the transmitter series CLARUS, make reference to the provided instructions. Once opened the memory, both with a transmitter of the series B.RO and CLARUS, it is possible to learn both transmitters; if no signal is transmitted, the control unit automatically exits after 10 sec.

2.3 Multiple learning of transmitters with wired keys.

This procedure allows to learn a series of transmitters and can be carried out with wired cables "ASCENT" and "DESCENT". If no signal is transmitted, the control unit goes automatically out after 10 seconds.

- 1 Cut off power supply to the control unit → Wait 5 sec.
- 2 Give again power supply to the control unit
- 3 **Within 30 seconds**, press **contemporarily** the wired cables "ASCENT" and "DESCENT". → The control unit emits a **long beep**. Release the keys.
- 4 Press and release the wired button "ASCENT". → The control unit emits a **beep**.
- 5 Press and keep pressed the wired cable "DESCENT". → The control unit emits a **a beep**. Release the key.
- 6 **Opening of the memory carried out with success.** Transmit a control with all the transmitters/channels to memorize → For each transmitter/channel learned, the control unit emits a **long beep**.
- 7 Press **contemporarily** the wired buttons "ASCENT" and "DESCENT" to close the memory → The control unit emits **two beep**. Release the keys.

8. Connection wired sensors

It is possible to connect the wired WINDUO with a wind sensor and a light sensor with the same modalities of functioning described in the precedent chapters to the control unit present in the motor.

The luminous intensity detected by the sensor is translated into an analog signal current (4-20 Ma) proportional to the value read (4mA = dark, 20 mA = intense light). The device is provided with a 4 poles cable: 2 for the light sensor and 2 for the wind sensor.

Carry out the following connection:

- WIND SENSOR:
Connect the WHITE cable of the sensor to the WHITE CABLE of the motor
Connect the GREEN cable of the sensor to the GREEN cable of the motor.

- LIGHT SENSOR:
Connect the BLUE cable of the sensor to the WHITE cable of the motor
Connect the YELLOW cable of the sensor to the YELLOW cable of the motor



WARNING: both the sensors must necessarily be wired
Eventually disable the light sensor if it is not necessary (9)

9 Light sensor exclusion

This function allows to inhibit the functioning of the light sensor. With the close contact, the control unit does not consider the signals sent from the light sensor any more. The only sensor functioning in these conditions is the wind sensor which can not be excluded.

To exclude the light sensor, carry out the following operation:

Connect a switch between the WHITE cable and the PINK cable of the motor.

With the close contact the sensor is disabled.

With the open contact, the sensor is enabled.

10 Wired buttons connection

It is possible to connect two buttons, one for the opening and one for the closing to the control unit present in the motor.

To connect the buttons, proceed as follows:

- UP BUTTON

Connect the button between the WHITE cable and the GREY cable of the motor

- DOWN BUTTON

Connect the button between the WHITE cable and the BROWN cable of the motor

GUARANTEE - In compliance with legislation, the manufacturer's guarantee is valid from the date stamped on the product and is restricted to the repair or free replacement of the parts accepted by the manufacturer as being defective due to poor quality materials or manufacturing defects. The guarantee does not cover damage or defects caused by external agents, faulty maintenance, overloading, natural wear and tear, choice of incorrect product, assembly errors, or any other cause not imputable to the manufacturer. Products that have been misused will not be guaranteed or repaired. Printed specifications are only indicative. The manufacturer does not accept any responsibility for range reductions or malfunctions caused by environmental interference. The manufacturer's responsibility for damage caused to persons resulting from accidents of any nature caused by our defective products, are only those responsibilities that come under Italian law.

7. Lock-Unlock Mode (LUM) function only for awnings

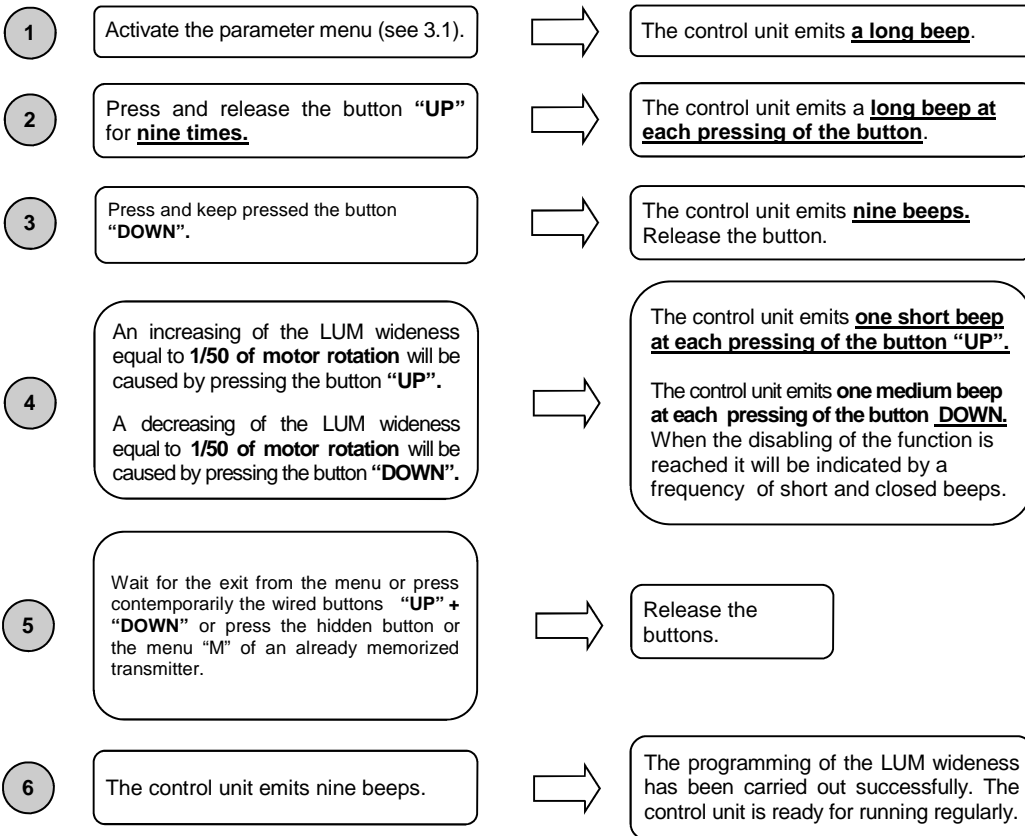
The function is for awnings when using a system of cloth tensioning.

The Lock-Unlock system of awnings works as follows:

Opening: the awning needs to reach the total opened position and afterwards carries out a short inversion with a reduced torque adjuster and a rotation control which allows the system to link and to tension the cloth.

Closing – the awning needs to open, starting from the hook position, up to the unhooked position which is situated over the totally opened position and then needs to invert and close completely by passing by the totally opened position.

This allows to set the LUM wideness of the LUM unlocking movement than the totally opened position and therefore the distance to cover for reaching the unhooked position before carrying out the closing.



Note: The enabling of the LUM functions disables the ORM function.

Attention: For assuring a correct working, learn the easy stroke by paying attention that the opening position exceeds for a few centimetres the mechanical hook position and precede for a few centimetres the mechanical unhooked position (necessary for linking).

3. Settings

3.1 Activation of the parameters menu

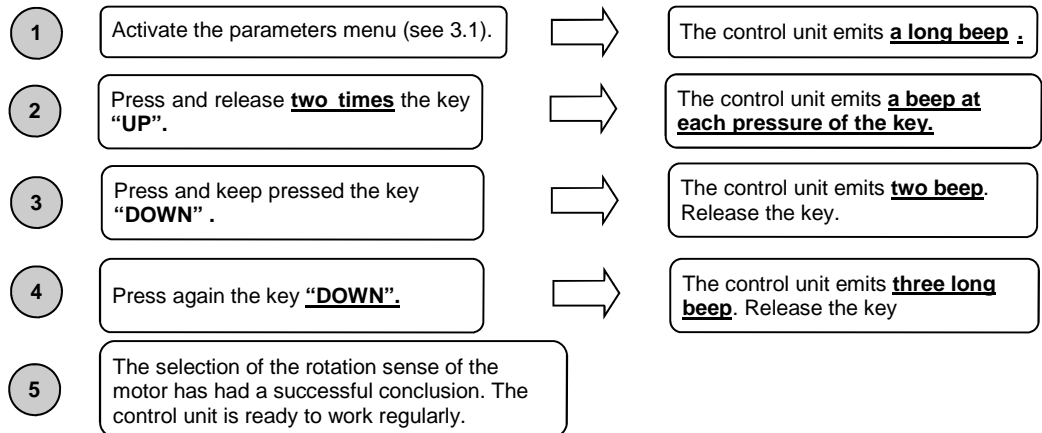
It is possible to activate the parameters menu briefly pressing , in any instant, the hidden key of the series B.RO and UP-DOWN radio - transmitter, or transmitting the "M" menu of the series CLARUS transmitters. So it is very important to know what **kind of transmitter you have in possession** before proceeding.

In case that no learned radio transmitters are available, it is possible to enter on the menu pressing contemporarily the wired buttons UP and DOWN by 30 seconds from the switching on of the control unit (no actions different than the action of switched on must be set up, otherwise the activation phase is cancelled).

When the menu is activated the control unit emits a long beep.

3.2 Selection of the motor rotation sense.

The setting of the motor rotation sense must be carried out considering that **the shutter must roll up itself when the key "UP" is pressed**. In contrary case proceed as follows. This procedure can be carried out both by transmitter and wired cables.



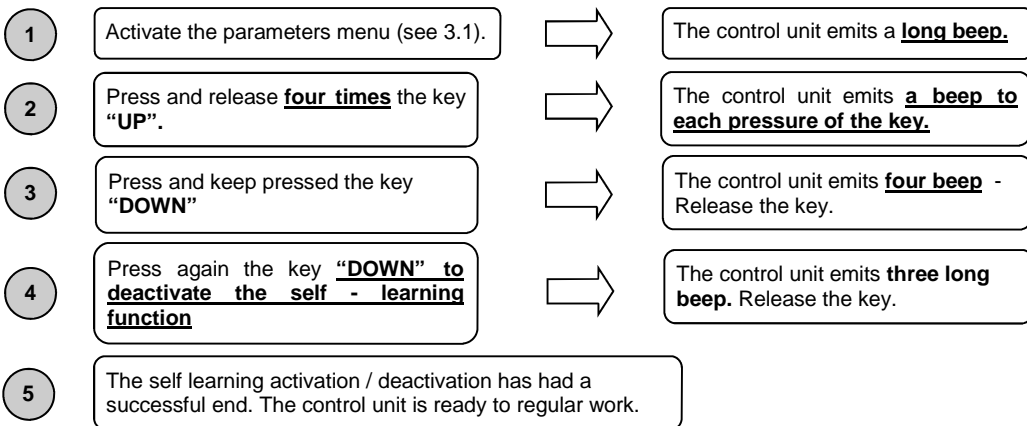
To go back to the factory settings, repeat the above mentioned operations pressing the **key "UP" instead of the key "DOWN" on the point 4** of the procedure. The control unit will signal the new setting with **two long beeps**.



WARNING: REMEMBER THAT THE AUTOMATION MUST ROLL UP WHEN THE KEY "UP" IS PRESSED.

3.3 Self learning activation/deactivation

This menu allows to activate/deactivate the self – learning function described on point 2.1. This procedure can be carried out both by transmitter and by wired buttons. The factory self – learning function is activated. **To deactivate it**, proceed as follows:

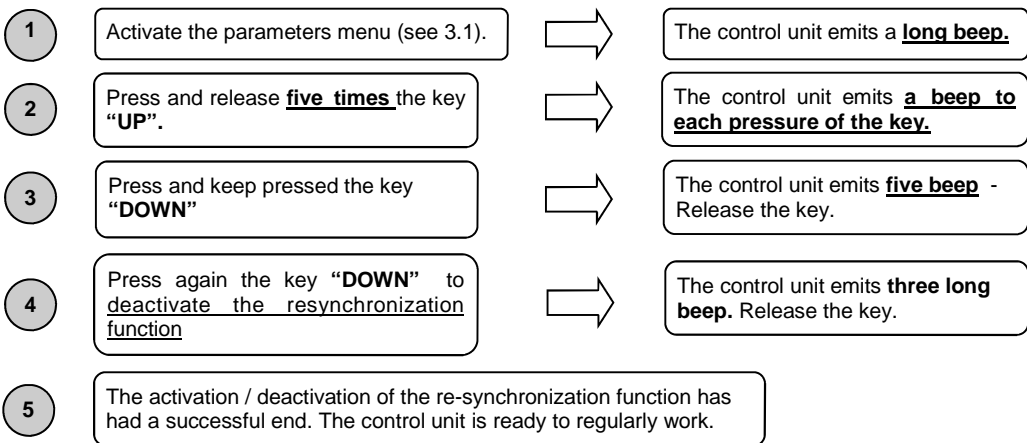


To go back to the factory settings (to activate the function), repeat the above mentioned operations pressing **the key “UP” instead of the key “DOWN” at point 4** of the procedure. The control unit will signal the new setting with **two long beep**.

3.4 Activation/deactivation resynchronization function

To grant a correct functioning of the awning it is advisable not to deactivate this function

This menu allows to activate/deactivate the function of searching of the totally closed position at pair reduced (re – synchronization). This procedure can be carried out both by transmitter and wired buttons. The factory resynchronization function is activated. If you desire to deactivate it in any case, proceed as follow:

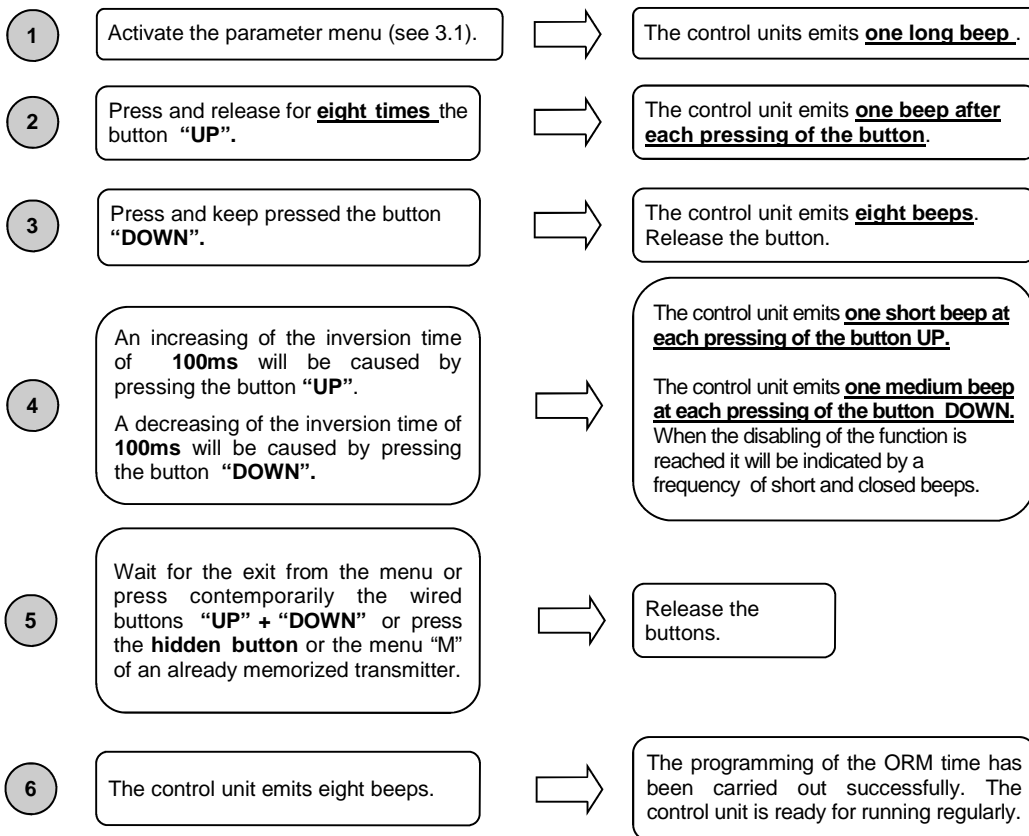


To go back to the factory setting, repeat the above described procedures pressing the key “UP”, instead of the “DOWN” key at point 4 of the procedure. The control unit will signal the new setting with 2 long beep.

6. Open Release Mode (ORM) function only for awnings

The function ORM has been studied for awnings interested in a relax during the permanence in the opening position. For avoiding this condition it's necessary to carry out a short inversion in the closing position for tensioning the cloth.

The movement ORM takes place each time the total opened position has been reached with a programmable inversion time.

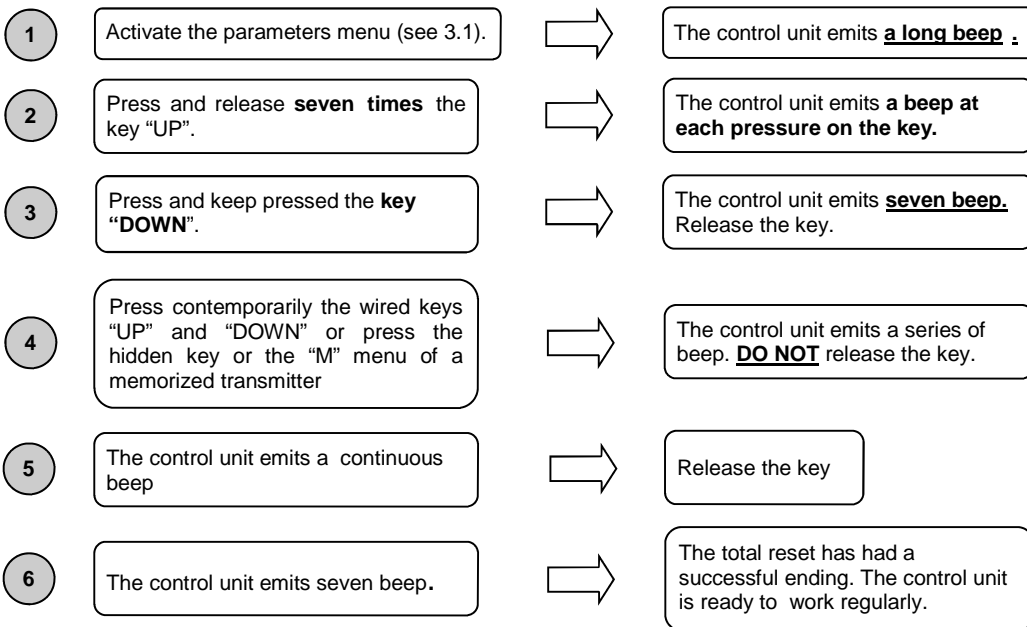


Note: The enabling of the ORM function disables the LUM function.

5. Total reset of the control unit

This menu allows to cancel all the memorized transmitters and radio sensors and to reset the control unit at the factory conditions. This procedure can be carried out both by transmitter and by wired buttons.

To reset the control unit, proceed as follows:



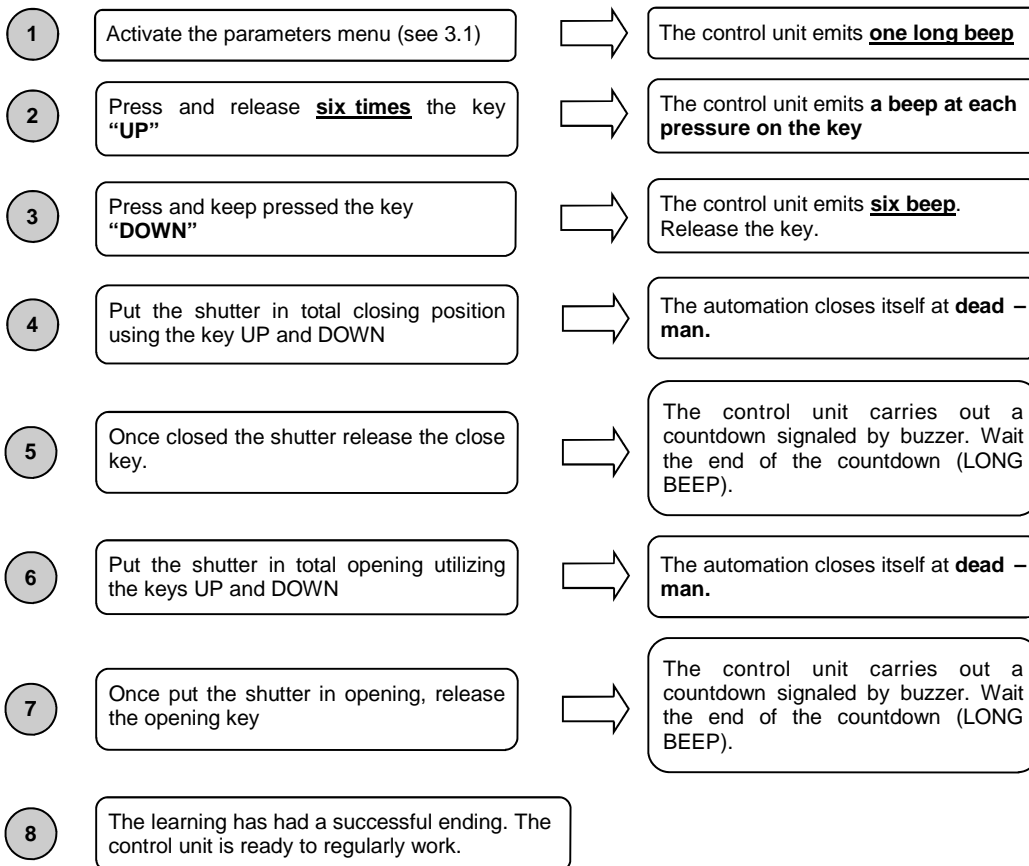
Summarizing table of factory settings

Parameter	State
Transmitters	None
Re – synchro	Active
Self – learning	Active
Learned course	None

3.5 Learning of the stroke

This menu allows to learn the stroke of the awning. The factory stroke is null. This procedure can be carried out both by transmitter and by wired buttons. Proceed as follows to learn the working time :

WARNING: before of carrying out the learning of the course, it is very important to have previously selected the rotation sense of the motor (see 3.2)



WARNING : at the end of the learning phase, if at the pressure of a key the motor carries out a short movement followed by 2 beeps, it means that the course has not been correctly learned. So, check the correct setting of the rotation sense of the motor and repeat the learning procedure.

4. Climatic radio sensor SUN – WIND

The control unit allows to utilize a sun- wind sensor radio type. The control unit integrates the reception of the radio signal with a special protocol and identifies and handles the radio sensor.

Since the meteorological sensors order the opening or the closing of the shutter, it is fundamental to select the correct rotation sense of the motor (see point 3.2).

4.1 SUN radio sensor

The control unit is realized in way to carry out the **opening** of the shutter on the occasion of the transition “**night to day**”, while it realizes the **closing** of the shutter to the transition of luminosity “**day to night**”.

Moreover the reopening for light has been integrated at the end of eventual alarms (wind or disconnection).

4.2 WIND radio sensor

In case of **wind alarm** the control unit carries out a complete closing and remains on state of closing for a time of **4 minutes** after the reception of the last alarm.

During the state of alarm it is possible to carry out the radio learning and the test of the sensor, but it is not possible to carry out any type of operation until the control unit does not exit from the state of alarm. The control unit signals the state of alarm with **two beep** to the reception of an user's order.

4.3 Alarm disconnection radio sensor

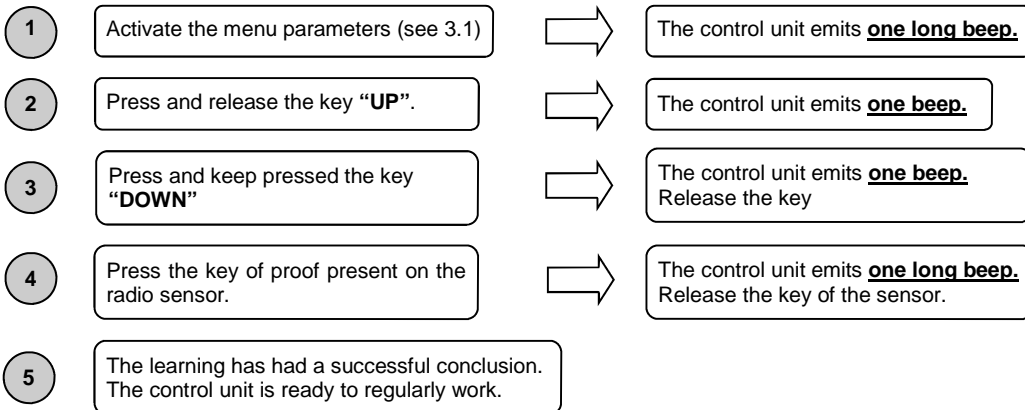
In case in which the radio communication between sensor and control unit runs out for more than 4 minutes, the control unit closes completely the shutter and remains on the state of alarm for disconnection until the re – connection of the sensor.

During the state of alarm it is possible to carry out the radio learning and the test of the sensor, but it is not possible to carry out any type of handling until the control unit does not exit from the state of alarm. The control unit signals the state of alarm with 2 beep to the reception of an user order.

It is possible to exit from the state of alarm executing a test transmission with the radio sensor.

4.4 Learning of the radio sensor

This procedure allows to learn a radio sensor. The control unit allows to learn **one single** radio sensor. The memorization of a second sensor automatically **cancel**s the first one memorized.



In order to cancel a memorized radio sensor, it is sufficient to repeat the operations above described with the same sensore. The control unit confirms the happened cancellation with **two long beep** followed by two short beep.

4.5 Radio sensor test

This procedure allows to check the correct functioning of the radio sensor. This operation must be carried out with the radio sensor on position of normal functioning and after having memorized the stroke.

