MICRO CAP SENS

CONTROL UNIT FOR ONE 230 Vac MOTOR

CE

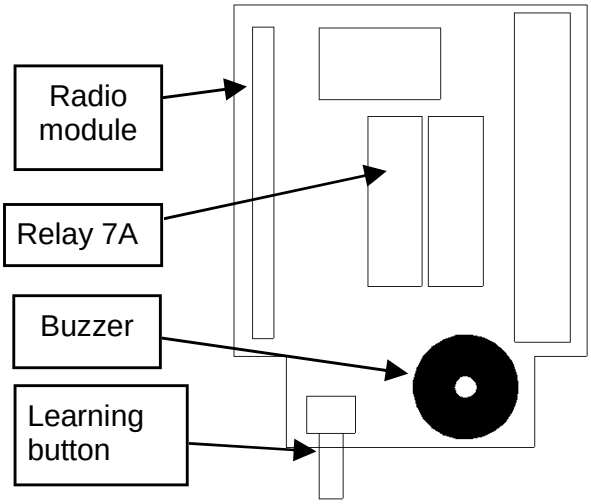
ALLMATIC

WARNING: DO NOT INSTALL THE CONTROL UNIT BEFORE READING THE INSTRUCTIONS

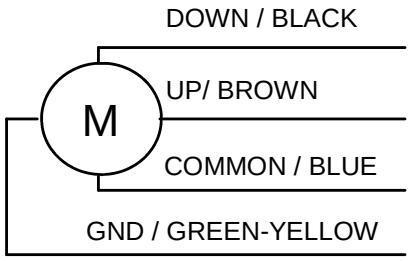
1. Introduction

The control unit “MICRO CAP SENS” has been studied to be utilized with shutters and awnings. This control unit contains a radio receiver for the remote control by transmitters (transmitters type CLARUS and B.RO) and to the radio sensor (WINDUO RADIO type). The control unit has been realized with small dimensions to be installed inside the shutters’ boxes or outside (respecting the orientation of the control unit).
To simplify the installation, the 230V power supply is supplied with three cables and it is possible to connect a motor with 500W maximum power to the cables getting out from the control unit.

2. Configuration



3. Electrical connections

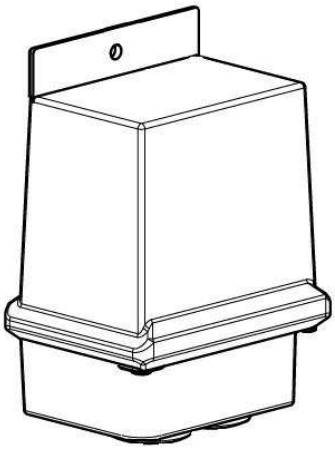


Warning: the functions up/down depend on the orientation of the motor. If at one up control (up) corresponds a descent (down), it will be necessary to invert the brown cable (up) and the black cable (down).

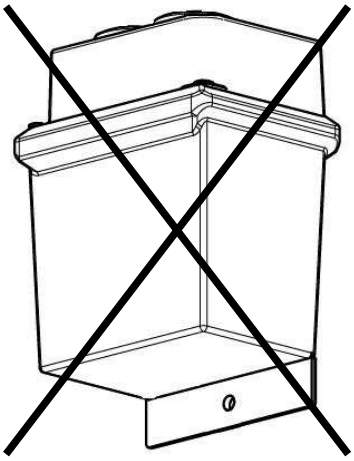
4. Installation

For an external installation, is indispensable to respect the orientation of the control unit. The correct installation is with the power supply cables and the motor’s cables getting out from the down as reported on the box.

Correct installation



UNCORRECT installation



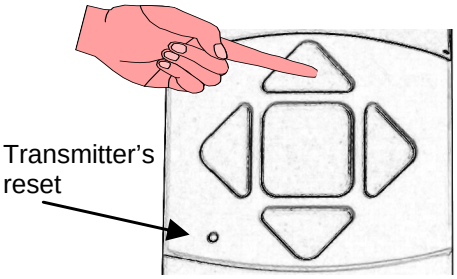
5. Modality of relay’s activation

The relays are activated with a control “UP” or “DOWN” and are deactivated pressing the “STOP” key, or giving a control in the opposite sense, UP when the automation goes down or vice versa.

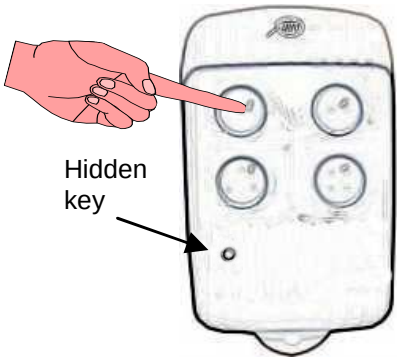
6. Transmitter's learning

6.1 Learning with the learning button of the control unit

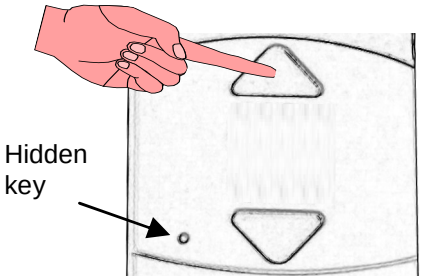
1	Press the learning key	⇨	The control unit emits **three beep.**
2	Press a key of the transmitter's channel to memorize	⇨	The control unit emits **a long beep**.
3	Release the key of the transmitter	⇨	The control unit emits **four beep.**
4	The learning has had a successful ending. The control unit is ready to regularly work.		



SERIES CLARUS (the right and left keys are not present in **CLARUS I**)



SERIES B.RO



SERIES UP – DOWN

6.2 Learning with memorized transmitter

1	Transmit the menu voice "M" of a memorized channel of a CLARUS (*) transmitter or press and release the hidden key of a B.RO transmitter. *This operation is equivalent to press the learning key of the control unit.*	⇨	The control unit emits **three beep.**
2	Press a key of the transmitter's channel to memorize.	⇨	The control unit emits **a long beep**.
3	Release the transmitter's key	⇨	The control unit emits **four beep.**
4	The learning has had a successful end. The control unit is ready to regularly work.		

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

Warning: do not utilize this procedure in presence of more control units. The opening of the memory will occur in all the control units where the channel is memorized. So, it is advisable to disconnect the control units which are not interested on the learning of this new transmitter.

7. AWNING/SHUTTER selection

The control unit is supplied with awning factory configuration.
To select the typology of installation proceed as follows

1	Press and keep pressed the reset/learning key present on the card for almost 10 seconds.	⇨	The control unit emits **ONE beep**
2	Release the reset / learning key present on the card.	⇨	The control unit emits **a series of short beep**.
3	Select the desired typology by 10 seconds as follows: • Press **UP** (radio) to select the **AWNING** typology. • Press **DOWN** (radio) to select the **SHUTTER** typology.	⇨	The control unit emits **3 short beep to indicate the AWNING typology**. The control unit emits **2 short beep to indicate the SHUTTER typology**.

NOTE: the maximum time for the selection is of 10 seconds, more than the phases ends and the typology remains unchanged.

8. SUN – WIND radio climatic sensor

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

Since the meteorological sensors impose the opening or closing of the shutter, it is of fundamental importance to select the correct sense of motor's rotation.

8.1 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 **closure** of the shutter to the luminosity transition **day to night**. Moreover the re – opening for light has been integrated at the end of eventual alarms (wind or disconnection).

8.2 Deactivation light sensor

It is possible to deactivate the light sensor functionality in any moment and consequently do not make automatically go up and down the automation as function of the light variation. To deactivate the light sensor proceed as follows:

1	Press and keep pressed a transmitter's key (almost for 8 seconds).	⇨	The control unit emits **2 beep to indicate the deactivation of the sensor.** The control unit emits **3 beep to indicate the reactivation of the sensor**.
2	Release the key		

8.3 WIND radio sensor

In case of **wind alarm** the control unit carries out a **complete closure** and remains on close state for a time of 12 minutes after the receipt 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 handling until the control unit does not exit from the alarm state. The control unit signals the state of alarm with **two beep** at the receipt of a control from a user.

WARNING : IT IS NOT POSSIBLE TO DEACTIVATE THE FUNCTIONALITIES OF THE WIND SENSOR.

8.4 Alarm disconnection radio sensor

In case in which the radio communication between the sensor and the control unit is missing for more than 4 minutes, the control unit closes completely the awning/shutter and remains on state of alarm for disconnection until the reconnection 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 operation until the control unit does not exit from the state of alarm.
The control unit signals the state of alarm at the receipt of a control by user.
It is possible to exit from the state of alarm disconnection carrying out a test transmission with radio sensor.

8.5 Radio sensor learning

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 **erases** the first one memorized.

1	Press the learning key.	⇨	The control unit emits **three beep.**
2	Press the testing key present on the radio sensor.	⇨	The control unit emits **one long beep.**
3	Release the testing key present on the radio sensor.	⇨	The control unit emits **four beep**.
4	The learning has had a successful ending. The control unit is ready to regularly work.		

To erase a memorized radio sensor it is sufficient to repeat the above described operations. The control unit confirms the happened deletion with **two long beep** followed by **four short beep**.

8.6 Radio sensor test

This procedure allows to test the correct functioning of the radio sensor. This operation must be carried out with the radio sensor on position of normal functioning.

1 Press the test key of the sensor.

- The control unit emits **one beep until the release of the test key**. Correct functioning.
- The control unit does not react. Check the sensor (distance, power supply..) and check that the sensor has been correctly memorized (see 8.5)

2 Light up the light sensor.

- The automation opens itself. Correct functioning.
- The automation closes itself. Check the rotation sense of the motor and the electrical connections.

3 Make vigorously rotate the wind sensor

- The automation closes itself. Correct functioning.
- The automation opens itself. Check the rotation sense of the motor and the electrical connections.

4 Adjust the desired sun and wind thresholds with the two trimmers present in the sensor.

9. Total reset of the control unit's memory

1) Cut off power supply to the control unit.
2) Press and keep pressed the learning key while you give again tension to the control unit. After 7 seconds the control unit emits a continuous beep.
3) Release the learning key, all the transmitters have been erased and the settings have been reset at factory settings.

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