Control board MC7 for the automation, with function to MX14 sensor.

▷ Power supply	AC 230V 50/60Hz 600W máx.
▷ Motor output	230V~ 500W máx.
▷ Working temperature	-20÷55ºC
▷ Radio receiver	433,92 MHz
▷ Compatible radio commanders	12-18 Bit - Rolling Code
▷ Number of radio commands for memorize	14 máx.

▷ BOARD CONNECTIONS

CN1

01 ▷ Input connection Earth
02 ▷ Input connection Earth
03 ▷ Input line 230V ~ (FASE)
04 ▷ Input line 230V ~ (NEUTRAL)
05 ▷ Output motor Rise / Closing
06 ▷ Output motor Common
07 ▷ Output motor Descent / Opening

▷ Initial operating conditions

The control board MC7 can work connected with one sensor Sun / Rain / Wind wireless.

▷ Centralization via radio through remote control

The centralization of two or more control boards via radio allows simultaneous movement of ascending or descending of more awnings.
The centralization is carried out by entering the same codes (keys) from a remote control to all boards or to a group at a maximum distance of 20 meters from the point of command, in order to get the general or partial motion of more automations.
For a satisfactory radio centralization, you must choose carefully the location of installation. The scope is not only connected with the technical characteristics of the device, but may vary depending on the radioelectric conditions of the location.

▷ Programming buttons and indicator LEDs

SEL key: selects the type of function to be memorized, the choice is indicated by the flashing of the LED. Pressing the button more times, it is possible to position yourself in the desired function. The flashing LED indicates that the selection is active, but the duration is 15 seconds. At the end of this period, the control board returns to its normal status.

SET button: efectua a programação da função escolhida com a tecla SEL.
LED signaling
LED ON: opção memorizada.
LED OFF: opção não memorizada.
Intermittent LED: option selected.

▷ Main menu

| Ref. LED	LED OFF	LED ON
CODE	No code	Programmed code
T.MOT	Working Time - 3 min	Motor time programmed

CODE (Programming the remote control to operate the awning and the wireless Wind Sensor)
T.MOT (Programming the Working Time/ motor)

▷ Programming the remote control 1 or 2 keys and Wireless Sensor

The programming of the transmission codes of the remote control is performed as following: press the SEL button and CODE LED will blink, after that send the first code (closing) selected with the desired remote control. The LED CODE will flash rapidly, send the second code (opening) to be memorized, the LED CODE will remain ON and programmation is finished. If the second code is not sent within 10 seconds, the board exits the programming phase, and choose functing, only one button on the remote control to work step by step (open/stop/close).

▷ Programming sensor wireless (sun/wind/rain)
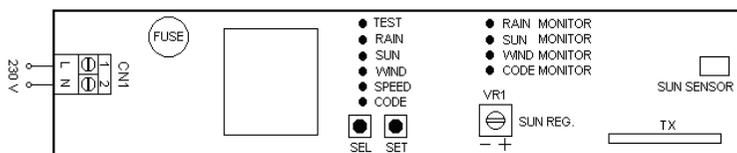
If you want to memorize a wireless sensor, follow these steps:

1º Power the sensor;

2º Open the memory of the control board **MC7**. For this step we have two options. (**option 1**) - Open the control board as follows: position with the **SEL** button flashing LED CODE. (**option 2**) – with memorized remote control continually press the opening channel for more than 10 seconds;

3º After opening the memory of control board, has 10 seconds to send the order of sensor to control board. Position to LED CODE with the **SEL** button of sensor and will flashing, immediately press the **SET** button of sensor so that it emits a rapid flashing of the LED CODE.

4º With the SEL button sensor must now select the functions you want to leave assets in sensor the sun / wind / rain. Press SEL repeatedly until the desired function LED flashes. With the LED flashing, press the SET button for more than 1 second until it is fixed (LED lit - active function).
To disable any function, repeat point 4 but press the SET button at least 1 second and the LED goes out, leaving the function disabled.
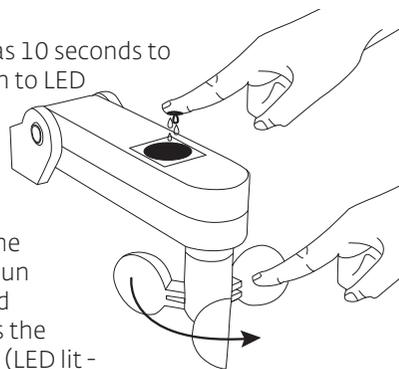
5º To test the sensor should follow the next instructions.
With the SEL button position the LED TEST will begin to flash this. Press the SET button for more than 1 second and the LED stays on.
TEST RAIN SENSOR Pass a wet finger over the sensor until the awning begins to close (the awning will close during 5 seconds).
TEST WIND SENSOR Turn the propeller. The awning will close for 5 seconds.
TEST SUN SENSOR Turn VR1 clockwise (+) and the awning will open for 5 seconds. Turn the VR1 anticlockwise (-) and the awning will close for 5 seconds.

If the awning perform the indicated operations successfully, the sensor is programmed and the test finished.
Return to deactivate the LED TEST that in case of emergency, close the awning in its entirety. If the LED TEST stay on, the awning only will close during 5 seconds.
When the awning close by order of sensor, we can see what the order is to be sent, checking that the LED of the sensor is on within the monitor.
For more information on how to adjust the wind speed, sensitivity and illuminance sensor, read the manual of sensor Wiweather.

To reset the sensor, simultaneously press the SEL and SET buttons of sensor for 2 seconds. LEDs light on and all the sensor back to the factory programming.

▷ Maximum number of memorable Wireless Sensors

The control board allows memorize only 1 Sensor Wireless. Programming a new Wireless Sensor annuls definitely the previously memorized code.

▷ Poor communication Sensor

In case of poor of communication between the Wireless Sensor and control board MC7, after 30 minutes activates automatically ascent / closing the awning. If poor of communication continues, other remote controls makes that the control board to keep in a state of security not allowing the opening of the awning (when receive opening order opens a little bit and returns to the point of closed).

T. MOT. (Programming time motor - 4 minutes max.)
The control board is supplied with LED T.MOT. OFF means that the motor time is 3 minutes.
With LED T.MOT. OFF and the radio control programmed can move the awning in the direction of opening / closing to make tuning of limit switch (follow directions in the drawing). After the limit switch be fully tuned, set the working / motor time.

The programming the time of the motor must be performed during the closing of the awning.

Motor time programming with limit switch 2-way opening/closing carried out as follows:
With open awning and the two limit switches regulated opening/closing, the SEL button, position the LED T.MOT flashing and hold down the **SET** button until the awning close and the motor stops by limit switch. Wait another 2 seconds and release the **SET** button and the LED T.MOT will light, the motor time will be programmed.

▷ Menu 2

The control unit is supplied by the manufacturer with PGM function active/On. For disable press the **SET** button continuously for 5 seconds and then there is the alternating flashing of the LED T. MOT, now has 30 seconds to activate or deactivate the PGM. With the **SEL** button position the flashing of the LED CODE and the **SET** button to enable or disable the PGM function. After 30 seconds, the control board returns to the main menu.
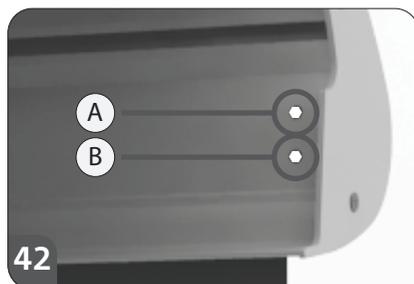

In this example, the motor is installed on the left. If the motor is installed on the right, position reverses. (opening goes to B and closure goes to A)

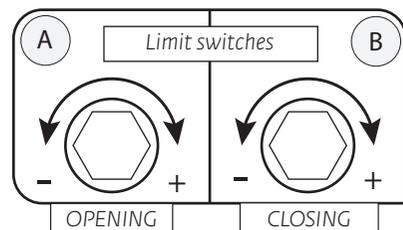| MENU 2		
Ref. LED	LED OFF	LED ON
CODE	PGM distance = ON	PGM distance = OFF
T.MOT	Intermittent ON/OFF	

CODE PGM
Programming a new remote control or Wireless Sensor
The control board allows programming of another remote control, without intervening directly in the SEL of the control board, performing an operation at a distance.
The programming code of a remote control on distance, is carried out as follows: press continuously, for a longer time than 10 seconds, the opening channel of a previously stored remote control. At the same time the control board enters into programming mode. Press for 3 seconds closing channel the new remote control and then press for another 3 seconds the opening channel. At this time the remote control

is programmed.
If you want the same button to open and close do the operation by depressing both times the same button.

Programming the wireless sensor without access to control board is carried out as follows:
Press continuously, for a longer time than 10 seconds, the opening channel of a previously stored remote control. At the same time the control board enters into programming mode (indicated by the flashing of the awning lighting lamp). With the sensor SEL, position the LED CODE will begin to flash this, and immediately press for more than 3 seconds the sensor SET button to this issue a quick flashing of the LED CODE. At this point you are informed of the success of programming signaled by flashing the awning lighting the lamp.

▷ Cancellation codes the control board MC7

The cancellation of all codes memorized for the functioning of awning (remote controls and Wireless Sensor), proceed as follows: press the SEL button, LED CODE will flash, and then press the **SET** button for less than 1 second, LED CODE turns off and the procedure ends.
If necessary restore the control board to the initial factory settings, press the **SEL** and **SET** buttons at the same time and the LED display will be lit temporarily, confirming the success of the operation.

If you have been reached the memory limit (14 codes), repeating the programming operation, all indicator LEDs will flash quickly, signaling that are not possible other memorizations.

SAFETY WARNINGS

IMPORTANT FOR THE INSTALLER

The control unit has been designed to allow the installer to automise fastening in order to submit to regulatory prescriptions in force. The effective compliance with the obligations and achievement of the minimal safety requirements are, however, the responsibility of the installer. Installation must be carried out in compliance with EN 60335- 2-97" Safety of household and similar electrical appliances "part 2" Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment".
- The control unit must be permanently connected to the power supply network and not have any type of sectioning de- vice of the 230Vac electric line, it will therefore be under the care of the installer, to provide the plant with a sectioning device. It is necessary to install a single-phase switch with over- voltage category III. It must be positioned so as to be pro- tected against accidental closures.
- For connections (power supply, motors output), use flexible cables under insulating sheath in harmonised polychloroprene (H05RN-F) with minimum section of the conductors equal to 0.75 mm2.
- For a correct functioning of the radio receiver, in case of us- ing one or more control units, the installation at a minimum distance of at least 3 meters one from the other is recom- mended.
In case of using two or more control boards, it is advisable to avoid radio interference, only use one type of Wireless Wind Sensor.

IMPORTANT FOR THE USER

- The device must never be used by children or persons with reduced physical-psychological abilities, unless supervised or trained on the functioning and the use modalities.
- Do not allow children to play with the device and keep the radio-controls away from their reach.
- ATTENTION: keep this instruction manual and respect the important safety prescriptions contained herein. The non compliance with the prescriptions may cause damages and serious accidents.
- Frequently examine the plant to detect any signs of damag- ing. Do not use the device if a repair intervention is necessary.

Attention

All operations which require the opening of the casing (cables connection, programming, etc.) must be carried out by expert personnel during installation. For any further operation which requires the casing to be re-opened (re-programming, repair or installation amendments) contact the after-sales assistance.

CONNECTIONS TO CONTROL BOARD
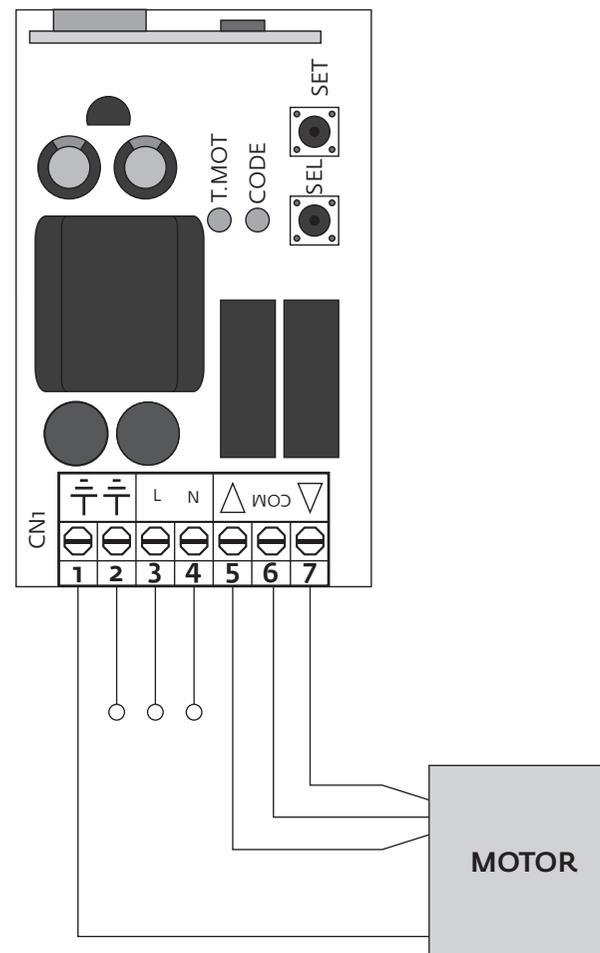
⚠ **MC7** it complies with the requirements of Directive R&TTE 99/5/EC, EMC 2004/108/EC, LVD 2006/95/EC