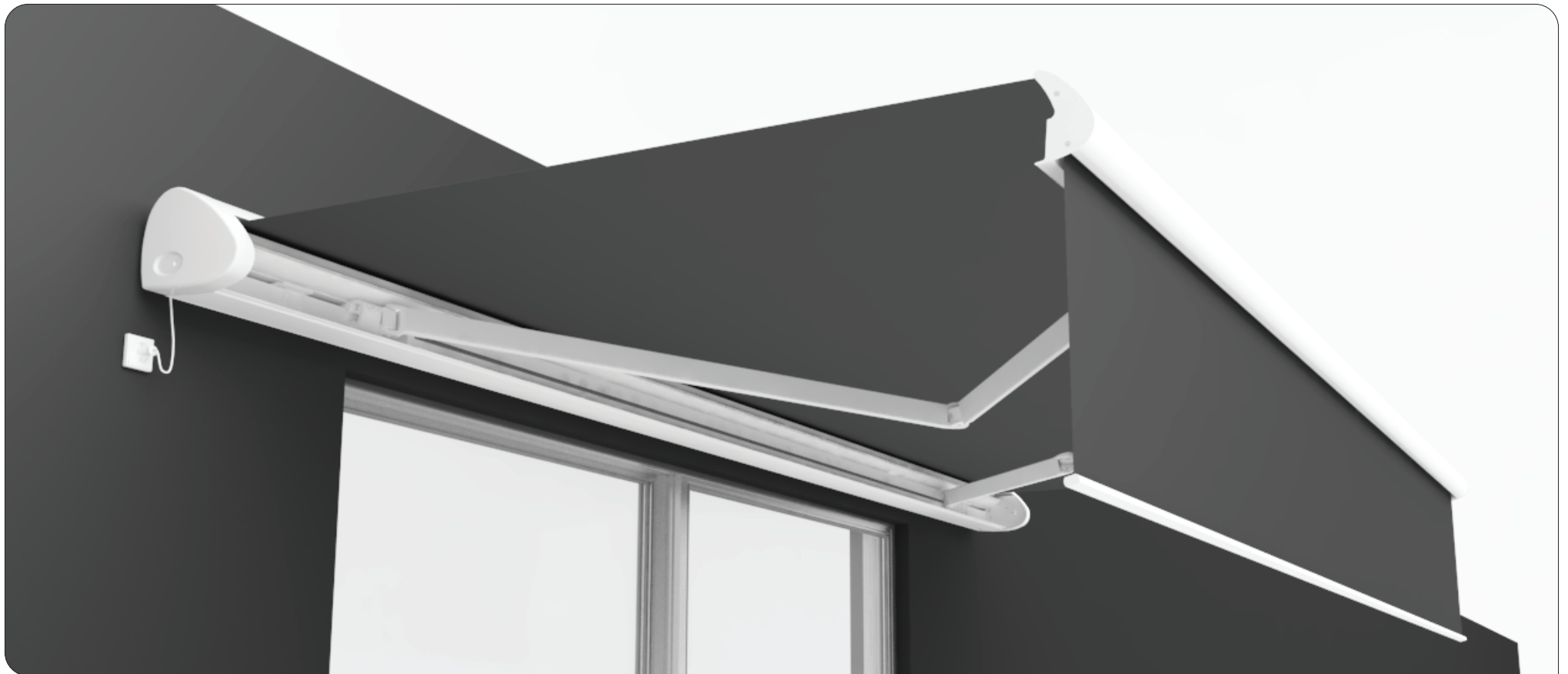


COFRE 600 VOLANTE

INSTALLER AND USER'S MANUAL

motorline[®]
PROFESSIONAL



00. CONTENT

▷ INDEX

00. CONTENT

- ▷ índice | page 01.A

01. SAFETY INSTRUCTIONS

- ▷ standards to follow | page 01.B

02. AWNING

- ▷ technical characteristics | page 02.A
- ▷ exploded view | page 02.B

03. INSTALLATION

- ▷ pre-installation info | page 03.A
- ▷ wall installation | page 03.B
- ▷ ceiling installation | page 05.B
- ▷ articulation adjustment | page 06.A
- ▷ arm inclination adjustment | page 06.B
- ▷ top regulation | page 07.A
- ▷ manual release | page 07.A
- ▷ limit switch tuning | page 07.B
- ▷ limit switch tuning on motor volante | page 08.A
- ▷ fabric regulation | page 08.B
- ▷ scheme direct connection of the motor to power | page 08.B

04. CONTROL BOARD MC6

- ▷ technical specifications | page 09.A
- ▷ connections of plate | page 09.B
- ▷ centralization of group or general | page 09.B
- ▷ functions | page 10.A
- ▷ programming | page 11.B

05. CONTROL BOARD MC7

- ▷ technical specifications | page 13.A
- ▷ connections of plate | page 13.A
- ▷ functions | page 13.B
- ▷ programming | page 14.A

06. TROUBLESHOOTING

- ▷ instructions for consumers and specialized technical | page 16.A

07. CONNECTIONS TO CONTROL BOARD

- ▷ scheme of connections (control board MC6 and MC7) | page 16.B

01. SAFETY INSTRUCTIONS

▷ STANDARDS TO FOLLOW

ATTENTION:

▷ To ensure the safety of people, it is important that you read all the following instructions. Incorrect installation or incorrect use of the product can cause physical injury and material damage.

- ▷ Keep these instructions in a safe place for future reference.

▷ This product was designed and produced strictly for the use indicated in this manual. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger.

▷ **ELECTROCELOS SA** is not responsible for the improper use of the product, or other use than that for which it was designed.

▷ **ELECTROCELOS SA** is not responsible if safety standards were not taken into account when installing the equipment, or for any deformation that may occur to it.

▷ **ELECTROCELOS SA** is not responsible for the safety and proper operation when using components not sold by them.

▷ Do not make any modifications to the operator components and / or their accessories.

- ▷ Before installation unplug the automatism from the source of power.

▷ Not perform the installation before adverse climatic conditions (wind, rain, snow).

▷ The installer must inform the client how to handle the product in case of emergency and provide this manual to user.

▷ Keep remote controls away from children, to prevent the automated system from being activated involuntarily.

▷ The customer shall not, under any circumstances, attempt to repair or tune the operator. Must call qualified technician only.

- ▷ Connect the awning to a 230V plug with ground wire.

O2. AWNING

► TECHNICAL CHARACTERISTICS

The awning **COFRE 600 VOLANTE** is an awning with motorized skirt to protect the front sunlight. This is a more robust awning which protects larger spaces. The skirt goes down to 1.20m. Awning articulated arms with double cable for higher voltage the fabric. It is equipped with an integrated electronic system for easy mounting. Allows a maximum incline of 20°

Measure production	Main motor	Secondary motor
4,2 x 3,5	TUB 70MT	TUB20R
4,2 x 4,0	TUB 70MT	TUB20R
4,7 x 3,5	TUB 70MT	TUB20R
4,7 x 4,0	TUB 70MT	TUB20R
5,0 x 3,5	TUB 70MT	TUB20R
5,0 x 4,0	TUB 70MT	TUB20R
5,5 x 3,5	TUB 70MT	TUB20R
5,5 x 4,0	TUB 70MT	TUB20R
6,0 x 3,5	TUB 70MT	TUB20R
6,0 x 4,0	TUB 70MT	TUB20R
6,5 x 3,5	TUB 70MT	TUB20R
6,5 x 4,0	TUB 70MT	TUB20R
7,0 x 3,5	TUB 70MT	TUB20R
7,0 x 4,0	TUB 70MT	TUB20R

Technical specifications of main motor

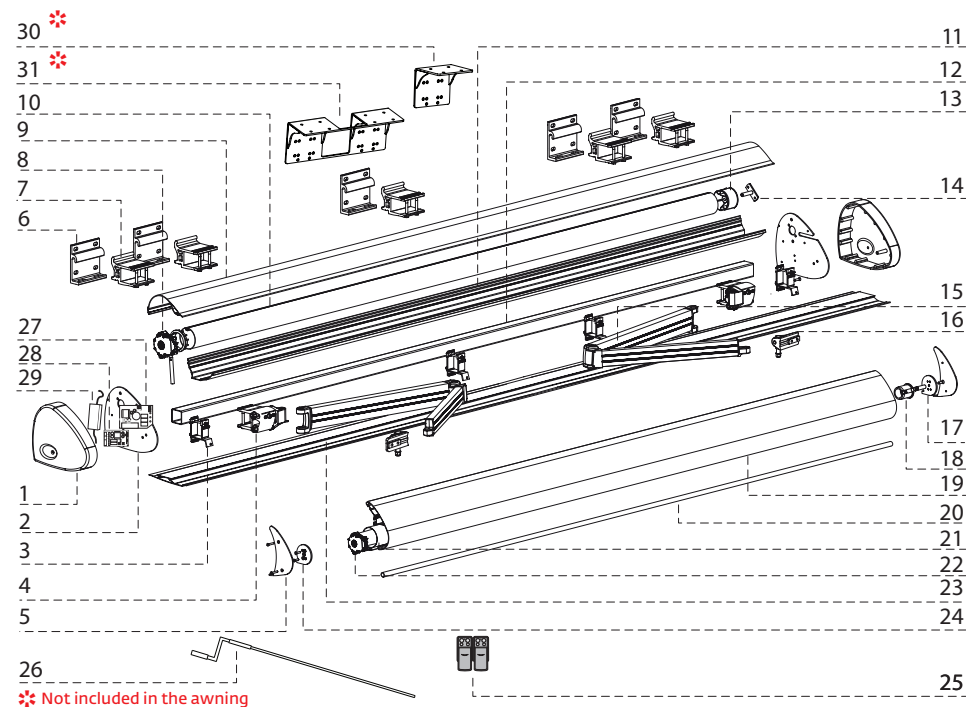
Voltage	230V AC
Frequency	50Hz
Force	40Nm
Speed	12RPM
Lift up	<70Kgs
Noise	<43dB
Working time	4min.
Diameter	45mm
Weight set	2,60Kgs
Consumption	0,95A

Technical specifications of secondary motor

Voltage	230V AC
Frequency	50Hz
Force	10Nm
Speed	17RPM
Lift up	<20Kgs
Noise	<43dB
Working time	4min.
Diameter	35mm
Weight set	1,32Kgs
Consumption	0,56A

O2. AWNING

EXPLODED VIEW ◀

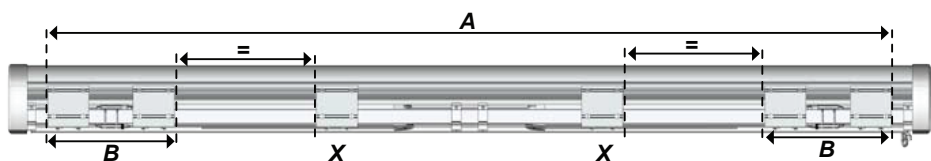


* Not included in the awning

1	Awning cover	17	Motor support
2	Lateral sheet	18	Pin ø48mm
3	Support square tube	19	Top
4	Set support arm	20	Skirt tube
5	Top cover	21	Rolling tube ø48mm
6	Wall support	22	Motor TUB20R
7	Cofre support	23	Inferior protection profile
8	Motor TUB70 MT	24	Motor support
9	Superior profile of the casing	25	Remote controls MXS4SP
10	Rolling tube ø78mm	26	Crank
11	Inferior profile of the casing	27	Control board MC6
12	Square tube 50x50	28	Control board MC7
13	Bushing for tube	29	Transformer
14	Pin of support	30	Console
15	Articulated arm	31	Double console
16	Terminal		

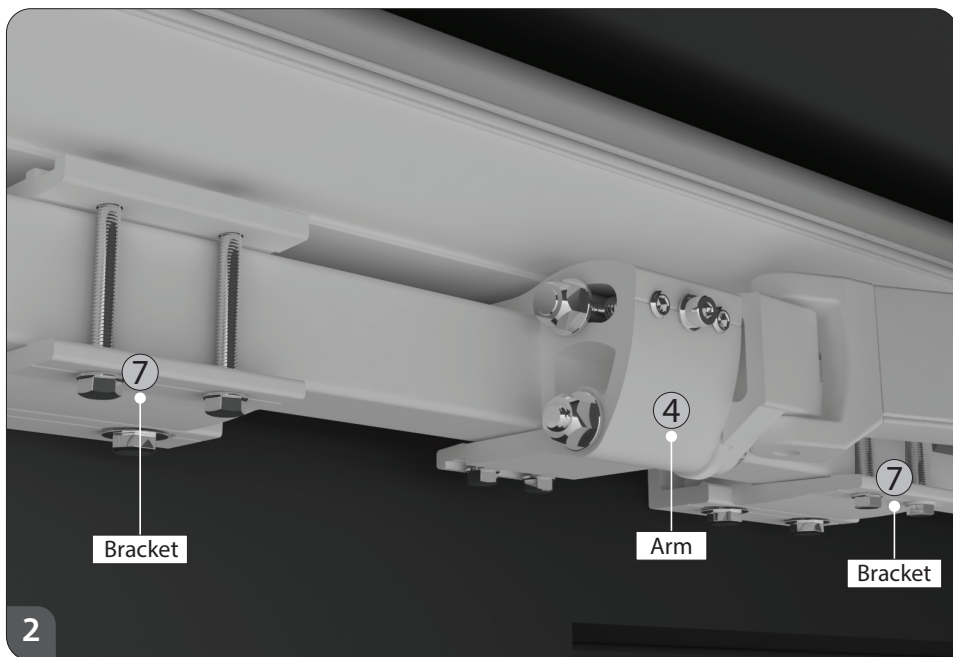
03. INSTALLATION

▷ PRE-INSTALLATION INFO



1

For correct operation of the awning, is obligatory placing the brackets (n°7) identicas zones in the illustration (B). Always put one support on each side of the arm (image 2) and divide the rest in a balanced way. Never change the placement of the arm brackets (n°4)!



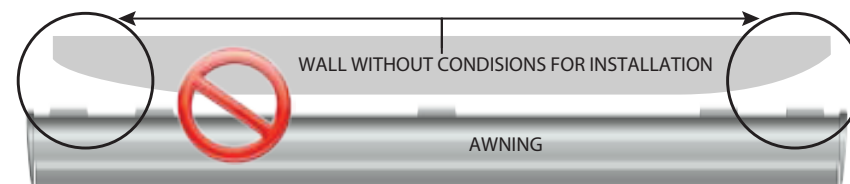
Awning until 6m

4 Brackets n°7

Awning with 6m/7m

5 Brackets n°7

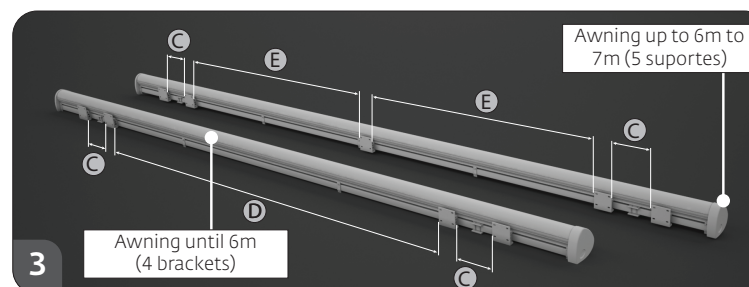
03. INSTALLATION



Before starting the installation, check the alignment of the wall. Should this not be flat to create new support fixing, so that the clamping points of the awning to the wall are perfectly aligned and level (above figures). You should also make sure that the metal bushings / bolts are tightened on a solid, resistant surface so there is no risk of loosening and the sheets fall. Never open the safe without the installation is completed it may endanger their physical integrity.

These points are very important for the security and stability awning reside mainly in its fixation!

WALL INSTALLATION ◀



Awning 6m to 7m: Dimension A divided by C and E.

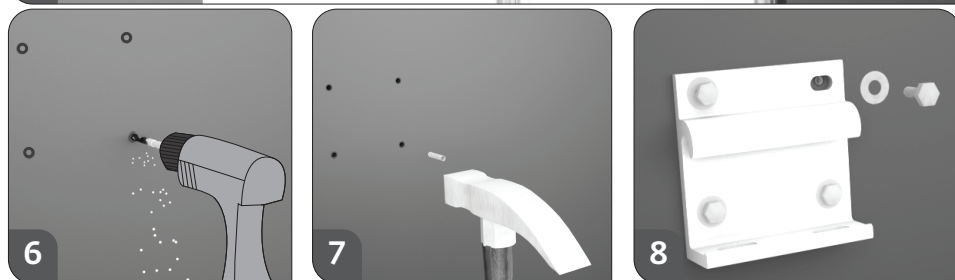
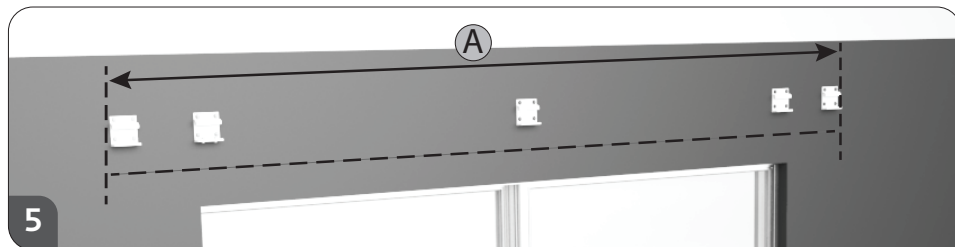
Awning until 6m: Dimension A divided by C and D.

01 - Place the wall brackets (n°6) in holders of casing (n°7). These must be properly centered. Make the measurement with supports for the application on the wall is correct.

03. INSTALLATION



02 -- Take the measurement the location where the awning will be applied always on the attention the leveling of wall brackets (n°6) for fixing the awning.



03 - With the help of a pencil or marker, identify the drilling points for the placing of the wall brackets (n°6). Make holes with 100mm deep and Ø20mm.

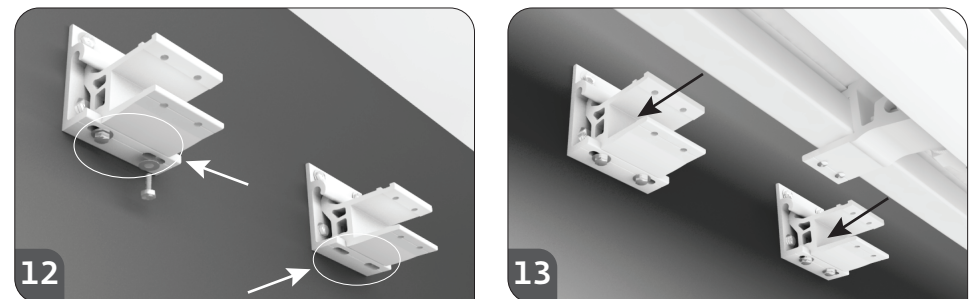
04 - Put metal bushings M12 in the created holes Ø20mm. Position the wall bracket (n°6) in the holes and apply the screws M12x90 with their respective washers (screws, washers and bushings not included in the kit).

04.A

03. INSTALLATION



05 - Make the application of safe holders (n°7) in the wall bracket (n°6).



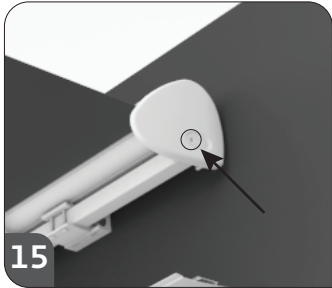
06 - Place the screws ISO 7380 (M10 x 30) with washers to fix the brackets n°6 to n°7.



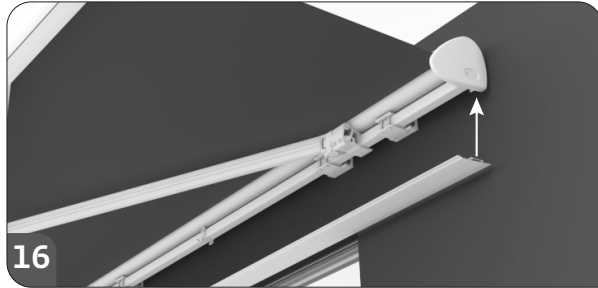
07 - Fit the awning / square tube the safe (n° 12) on the bracket (n°7). Apply screws DIN933 M8x75 with washers and tighten until it is completely safe.

04.B

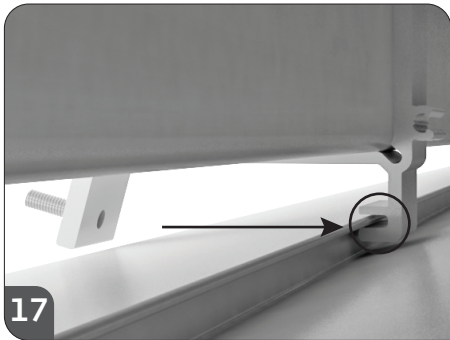
03. INSTALLATION



15
08 - Remove the screw and the cover (n°1) on one side.



16
09 - Open the awning with the crank (n°26) in 500mm and apply the inferior protection profile.



17
10 - Insert the profile into the slot.



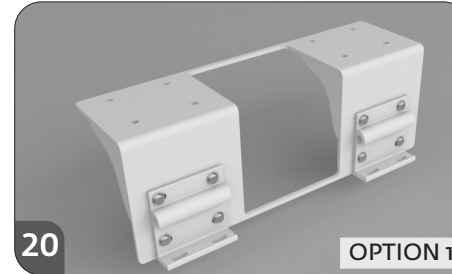
18
11 - Raise the profile until it is possible to tighten the screw as shown in **image 19**.



19
12 - Finally, replace the cover in safe the tops of together with the respective screws (**image 15**).

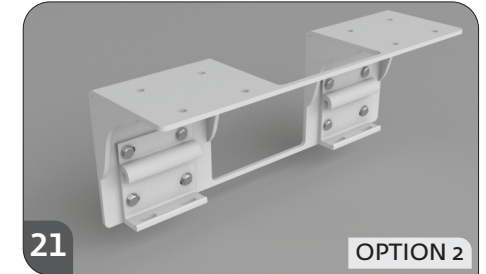
03. INSTALLATION

CEILING INSTALLATION ◀



20

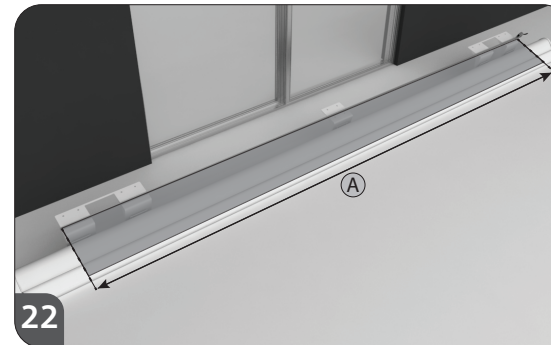
OPTION 1



21

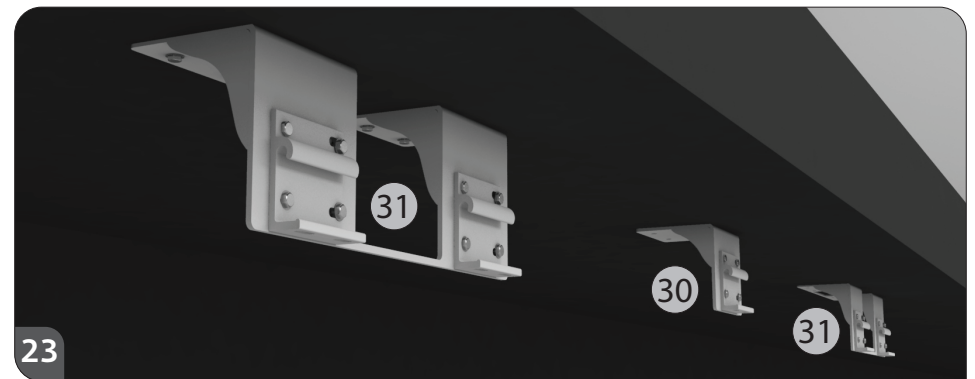
OPTION 2

Make fixation on consoles (n°31) using one of the two options identified in the images 20 and 21 (use M12 screws with washers).



22

Put the wall brackets (n°6) in holders of the casing (n°7) and measure (A) with supports. Transport this measure (A) to the ceiling where will fix. From here, follow all the steps used in the wall installation (**page 03.B**) using in this case the brackets (n°31) for the safe fixation in the area B of the **image 1**.



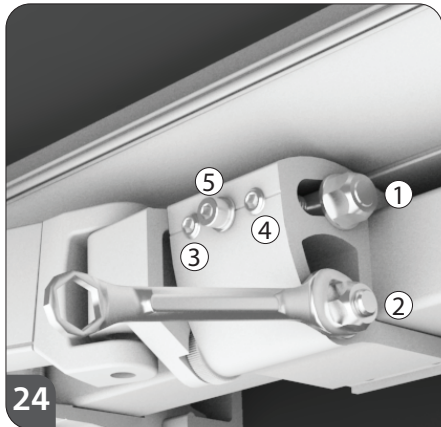
23

Double Console (n°31) to be used in zone B of image 1 (**page 03.A**)

Console (n°30) to be applied in zone X of image 1 (**page 03.A**)

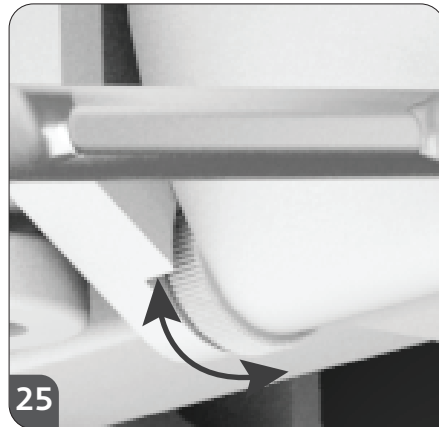
03. INSTALLATION

▷ ARTICULATION ADJUSTMENT

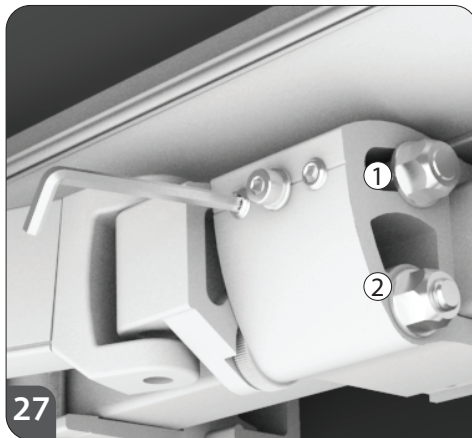


01 - Slightly loosen the screws ① and ② shown on image 24 (must assist the arm as shown in the image 28 of o6.B page until finished tuning).

02 - To move up and down the joint, turn the wheel one way or another (image 25).



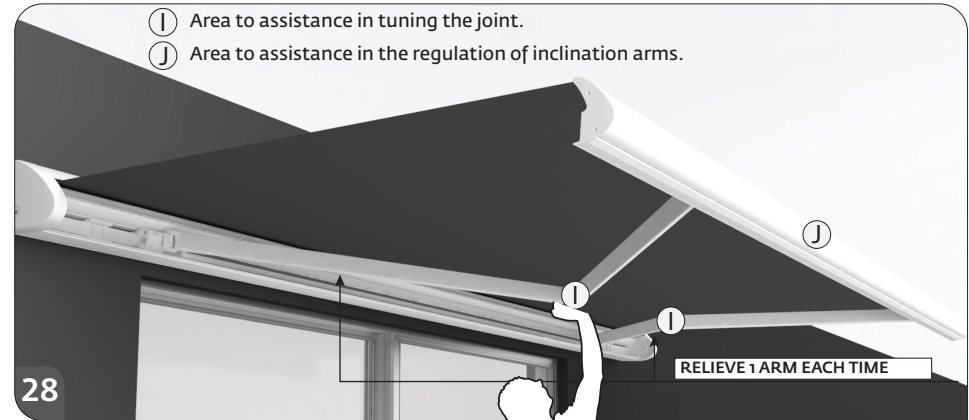
While performing the operations on the image 25, the articulation will start the ascent or descent changes.



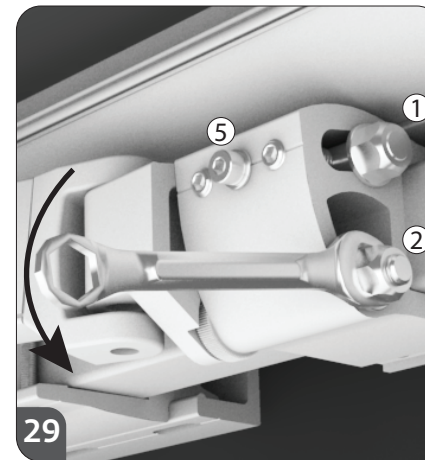
03 - Finally, tighten the screws ① and ②.

03. INSTALLATION

ARM INCLINATION ADJUSTMENT ◀



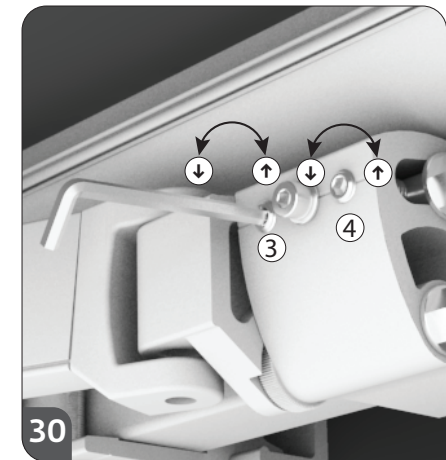
01 - To start the regulation of the inclination arms, place the awning in full open. Is to help the arms by hand in the whole process (J).



02 - Slightly loosen the screws ① and ② shown in the image 29. The screw ⑤ must be loosened enough so that does not cause effort.

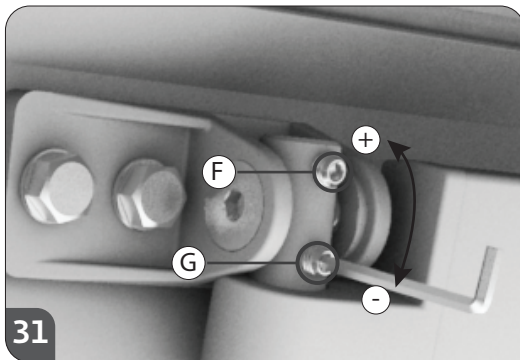
03 - Adjust screw ③ and ④ until the desired inclination. Rotating clockwise the awning up (↑), rotating to the left down (↓). Make this operation on one arm and only then in the other. Should not loosen the 2 arms at the same time.

04 - At the end, tighten the screws ①, ② and ⑤.



03. INSTALLATION

▷ TOP REGULATION

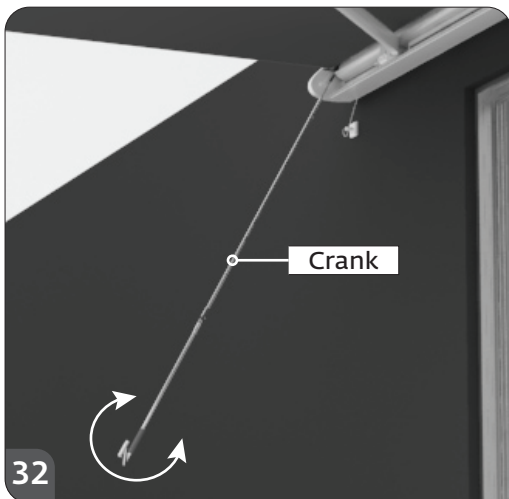


To optimize the awning closure is necessary to adjust the inclination of top (n°19), as a function of arm inclination (n°15). Put the open awning in about 500mm: tighten or loosen the screws (F, G), shown in the **image 31**, until the desired tuning is found.

This regulation is only necessary when the arm inclination is changed.

! Never loosen the screws in its totality! Adjustment of the top badly executed, can cause damage during awning closing! One too low or too high positioning of the articulation can cause deterioration of the canvas or the top, where the awning is closed!

▷ MANUAL RELEASE



The awning is prepared for, in case of power failure or other situation that prevents the electrical operation of the equipment, be possible to make the opening or closing awning manually by using the crank (n°26).

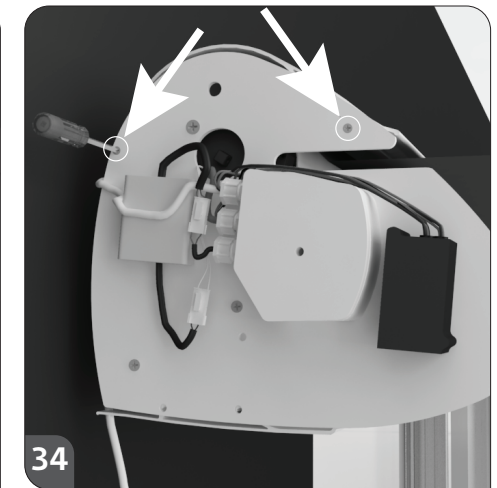
Place the handle as shown in the **image 32** and turn it to open / close the awning.

03. INSTALLATION

LIMIT SWITCH TUNING ◀



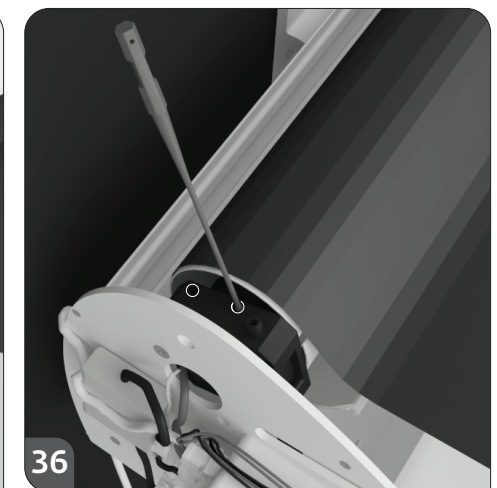
01 - Loosen the screws and remove the covers (n°1) on the left and right side.



02 - Loosen completely the 2 screws identified in the **image 34**, the left and right side.

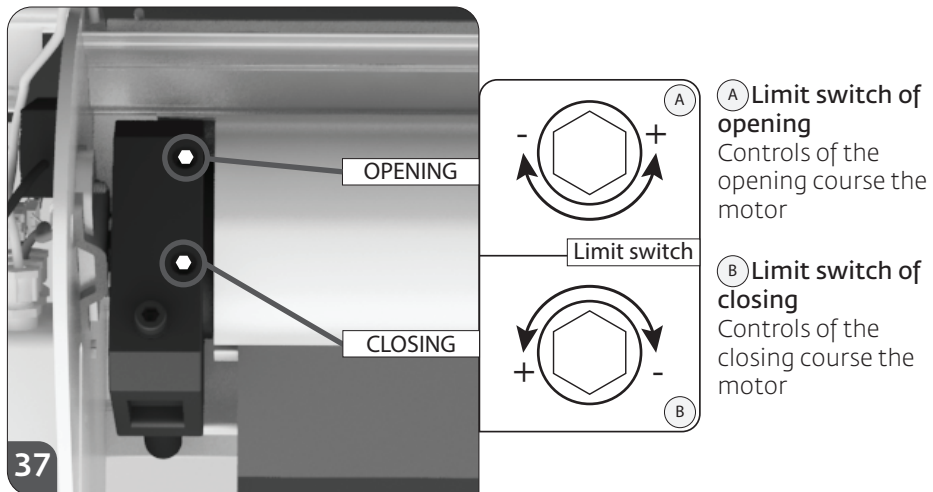


03 - Remove the superior profile of the safe (n°9).

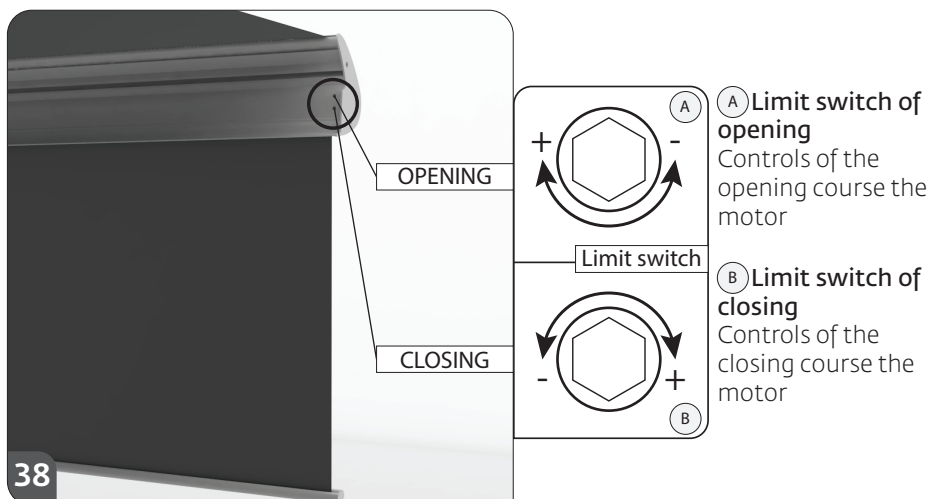


04 - The tuning can be carried out.

03. INSTALLATION

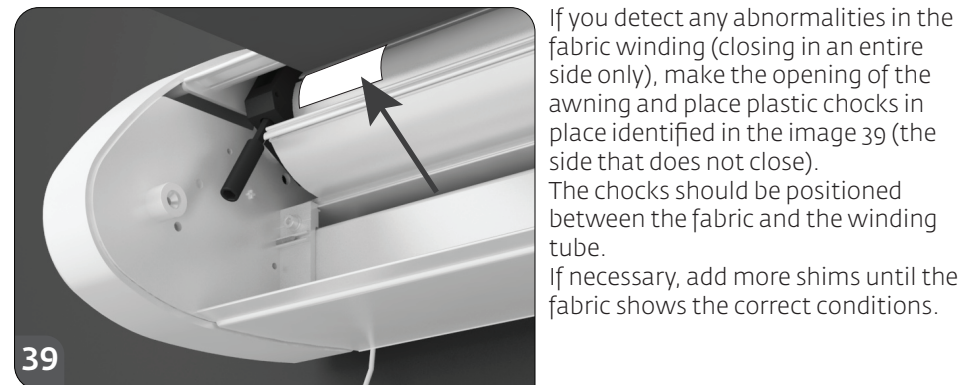


▷ LIMIT SWITCH TUNING ON VOLANTE MOTOR

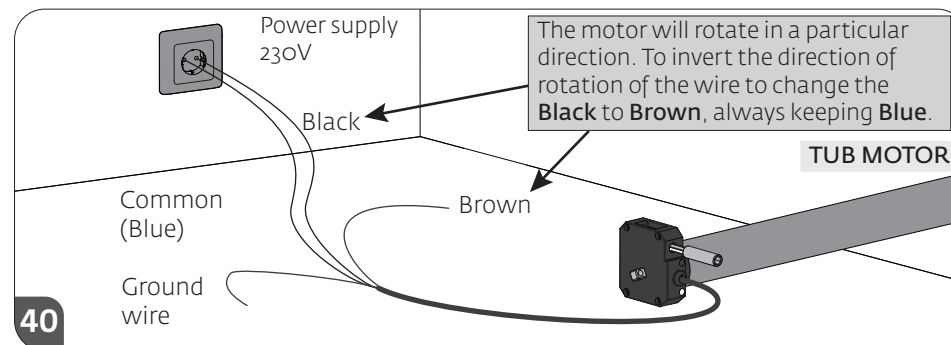


03. INSTALLATION

FABRIC REGULATION ◀



SCHEME DIRECT CONNECTION OF THE MOTOR TO POWER ◀



To detect possible problems in the motor, it will be necessary to conduct tests with direct connection to a power supply to 230V.

In the scheme shown how it should be done this connection and how to connect different wires.

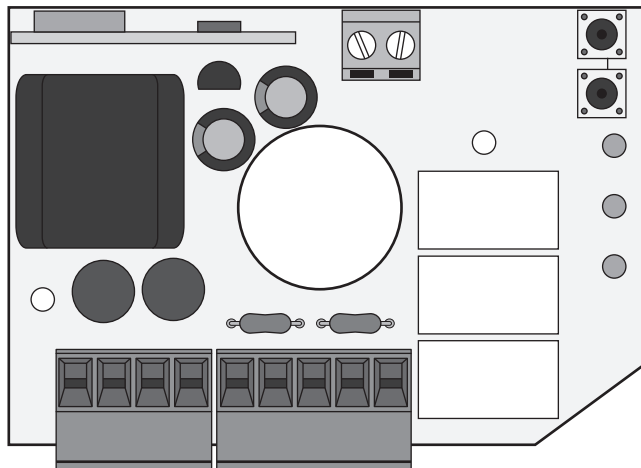
▷ To make the tests do not need to remove the location of the automatism where it is installed, because this way you can see if the automatism connected directly to the current can function properly.

▷ The common must always be connected to the power supply.

▷ To invert the operating direction of the automatism just need replace the wire by of **Black to Brown** wire the automatism in direct connection to the power supply.

04. CONTROL BOARD MC6

► TECHNICAL SPECIFICATIONS (MC6)



Control board MC6, for automation of awnings, with the possibility of connecting the timer light presence, with operation via remote control and Sensor Wireless (sun / wind / rain).

► Power supply	AC 230V 50/60Hz 1000W máx.
► Motor output	230V~ 500W máx.
► Output courtyard light	230V~ 500W máx.
► Working temperature	-20÷55°C
► Radio receiver	433,92 MHz
► Compatible radio commanders	12-18 Bit - Rolling Code
► Number of radio commands for memorize	5 máx.
► Number of sensors Wireless for memorize	1 máx.

09.A

04. CONTROL BOARD MC6

CONNECTIONS OF PLATE ◀

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
- 08 ► Output present light 230V~ (FASE)
- 09 ► Output present light 230V~ (NEUTRAL)

CN2

- Input massa antenna.
- Input pole control board antenna.

CENTRALIZATION GROUP OR GENERAL ◀

► Centralization via radio through remote control

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

► Operation Present Light with remote control

It is also possible to program a channel of remote control to turn on or off a lamp 230Vac at a distance, connected to connectors of the board (8-9) CN1.



Whenever made full an opening / closing of the awning, the control board turns off the light of permanence.

09.B

04. CONTROL BOARD MC6

► FUNCTIONS

► The end of automatic course to phase opening / closing

Is present in the control board an automatic system limit switch to the use of the awning. Whenever during operation of ascent / closing, is identified an excessive current absorption (by a one parte of motor) due to the possible presence of an obstacle or full movement opening / closing, the control board to immediately stop this movement and relieves.

► Buttons of programming and indicator LEDs

SE 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 resumes its normal status.

SET button: makes the programming chosen with the SEL button.
LED signaling

LED ON: memorized option.

LED OFF: no memorized option.

Intermittent LED: option selected.

► Main menu

Ref. LED	LED OFF	LED ON
CODE	No code	Programmed code
CODE LAMP.	No code	Code of permanent light programmed
T.MOT	Time engine 3 min.	Time of motor programmed

CODE (Programming the remote control for operation of awning Wind Sensor and Wireless)

CODE LAMP (Programming the remote control to operate the lamp of awning)

T.MOT (Programming of time the work / motor)

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

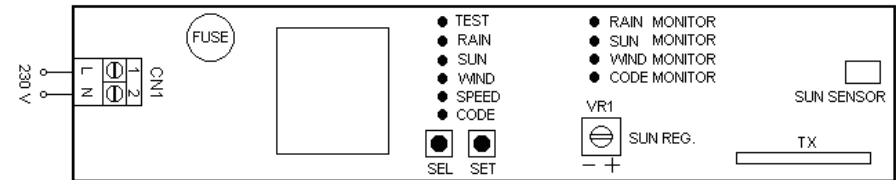
The programming codes for transmission of remote control is performed as follows: press the SEL button and CODE LED will blink. At the same time, send the first code (closing) selected with the desired remote control. The LED CODE will flash rapidly. Send the second code (opening) to be memorized, the LED CODE will remain on and programming finish. If the second code is not sent within 10 seconds, the unit exits the

04. CONTROL BOARD MC6

FUNCTIONS ◀

programming phase, selecting operation, leaving only a 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 MC6. 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 open awning and lighting off, continually press the channel's opening remote controls memorized for more than 10 seconds until that the light the awning flashes one time;

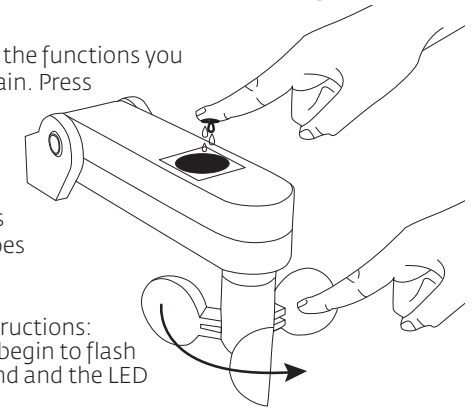
After opening the memory control board, has 10 seconds to send the order of sensor the control board.

3º (Sensor) Position with the **SEL** button flashing LED CODE, immediately press the **SET** button sensor so that it emits a rapid flashing of the LED CODE until that the light the awning flashes one time;

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.



04. CONTROL BOARD MC6

► FUNCTIONS

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.

► Deactivation of functions (sun / rain) via remote control

If you want to disable the Sun / Rain functions, begin by opening order and without allowing the awning to finish the opening by the end of the course, press the remote control, the awning will stop immediately and turn off the Sun / Rain functions. However, whenever the awning does not open fully, having been stopped opening with the remote control, the Sun / Rain functions are disabled and the Wind function remains active.

For the functions being re-activated, leave the awning open the whole its course.

► 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 MC6, 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). If the sensor is active with 3 functions (sun, rain and wind), where there sun, 10 minutes after sends the awning open. When the sun finished 10 minutes later sends the awning collapse. During the time that the awning is open, in case of rain or wind the awning collects.

04. CONTROL BOARD MC6

PROGRAMMING ◀

CODE LAMP (Programming the remote control for operating the light inside of the awning)

The programming the channels of the remote control is performed as follows: position with the **SEL** button flashing LED CODE LAMP. Then send the desired channel of remote control. LED CODE LAMP remains lit and programming is completed.

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 T.MOT LED. OFF and the remote control programmed we can move the awning in the sense of opening / closing until make tuning of limit switches. Follow the signs.

Always should be set working time / motor.

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

Programming the working time with limit switches only in opening and closing by effort is performed as follows:

Disadjust completely the closing limit switch for the awning to close the full course and stop by effort.

Programming time of motor is performed as follows:

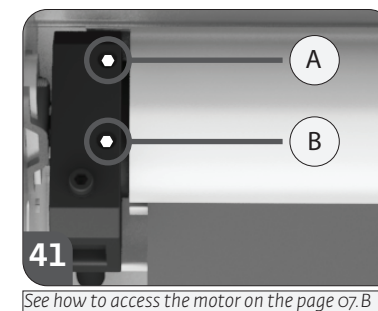
With the awning opened and already with the opening limit switch adjusted, position the SEL button to LED T. MOT, press and keep pressing the SET button and the awning starts to close.

When the awning finishes the closing and the motor turns off, release the SET button, and the working time is now defined and the LED T.MOT stays on.

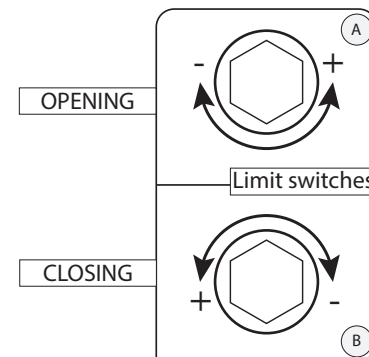
When it is intended that the awning stops on opening and closing by limit switch, with the open awning and the two limit switches fully regulated, with the SEL button, make the LED T.MOT flash and press without releasing SET button until the awning closes and the motor stops by limit switch. Wait more 2 seconds and release the SET button. LED T.MOT will illuminate and working time will be programmed.

► Menu Extensive 1

The control board is supplied by the manufacturer with the possibility of selecting only the main



See how to access the motor on the page 07.B



O4. CONTROL BOARD MC6

► PROGRAMMING

menu functions. To enable the functions described in menu 1, proceed as follows: press the SET button continuously for 5 seconds and then there is the alternating flashing of the LEDs CODE LAMP and LED T. MOT, in this mode, you have 30 seconds to select the 1 menu functions through the use of SEL and SET buttons, after 30 seconds, the control board returns to the main menu.

MENU Extensive 1		
Ref. LED	LED OFF	LED ON
CODE	PGM distance = ON	PGM distance = OFF
CODE LAMP.	Intermittent ON/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: with the open awning and the lighting of the awning is off press continuously, for longer than 10 seconds, the opening of a channel remote control previously memorized. After 10 seconds the control board goes into programming mode (indicated by the flashing of the awning lighting the lamp). Press the closing channel of the new remote control until the awning illumination light flashes one time, and then press the release channel until the awning illumination light flashes 1 time (successfully programming).

Programming the remote control, button of illumination the awning

With the illumination on, press continuously the lighting channel of a remote control previously memorized, for longer than 10 seconds until the awning illumination light flashes 1 time. Press the channel of new remote control to memorize until the awning illumination light flashes 1 time (successfully programming).

Programming the wireless sensor without access to control board

With open awning and the lighting of the awning off, press continuously the opening channel remote control that a previously memorized, for longer than 10 seconds until the awning illumination light flashes 1 time. Position with the SEL button flash to LED CODE sensor, and then press the sensor SET button to this issue a quick flashing of the LED CODE until the awning illumination light flashes 1 time (successfully programming).

► Cancellation Codes

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. The cancellation of all codes memorized for the operation of the permanence of light, is

O4. CONTROL BOARD MC6

PROGRAMMING ◀

carried out as follows, press the SEL button until the flashing of the LED CODE LAMP, and next, press the SET button in less than 1 second, LED CODE LAMP switches 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 (5 codes), repeating the programming operation, all indicator LEDs will flash quickly, signaling that are not possible other memorizations.

► Menu Extensive 2

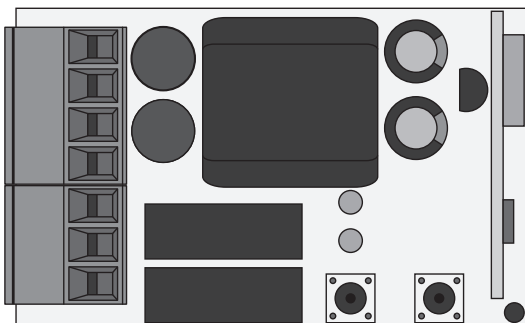
The control board is supplied by the manufacturer with the possibility of selecting only the main menu functions. To enable the functions described in menu 2, proceed as follows: press the SET button continuously for 5 seconds and then there is the alternating flashing of the LEDs CODE LAMP and LED T. MOT, in this mode, you have 30 seconds to select the 2 menu functions through the use of SEL and SET buttons, after 30 seconds, the control board returns to the main menu.

MENU Extensive 2		
Ref. LED	LED OFF	LED ON
CODE	Motor 12RPM	Motor 17RPM
CODE LAMP.	Intermittent ON/OFF	
T.MOT	Intermittent ON/OFF	

The control board is supplied by the manufacturer with programming for motor 12 RPM. This function the extensive menu 2 allows be changed. When it comes to awning, to close, if not use the limit switch of the motor to control board analyzes that the awning closed and entered into effort and automatic turn off the motor after turning off the motor reverses direction by thousandths of a second so you do not get to effort the fabric too much.. This inversion time is selected through the extensive menu 2, in accordance with the motor installed in the case of a motor 17 or 12 rotations to that the awning not reverse too much time.

05. CONTROL BOARD MC7

▷ TECHNICAL SPECIFICATIONS (MC7)



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÷55°C
▷ 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

05. CONTROL BOARD MC7

FUNCTIONS ◀

▷ 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)

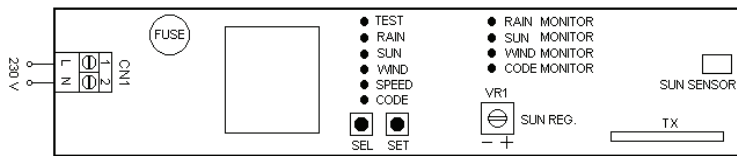
05. CONTROL BOARD MC7

► PROGRAMMING

► 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 programming is finished. If the second code is not sent within 10 seconds, the board exits the programming phase, and choose functioning, only one button on the remote control to work step by step (open/stop/close).

► Programming sensor wireless (sun/wind/rain)



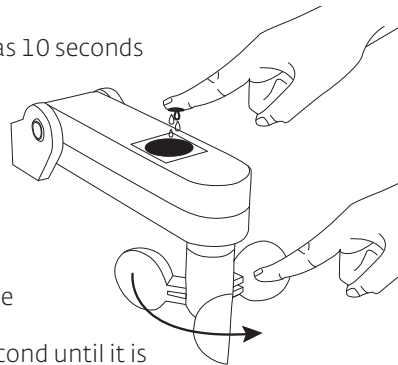
If you want to memorize a wireless sensor, follow these steps:

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



14.A

05. CONTROL BOARD MC7

PROGRAMMING ◀

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

14.B

05. CONTROL BOARD MC7

► PROGRAMMING

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.

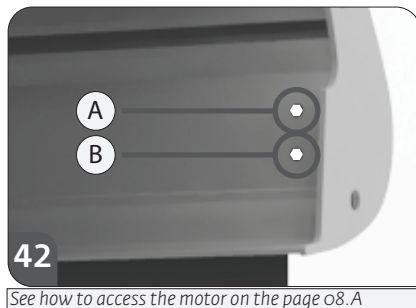
For disable press the **SET** button continuously for 5 seconds and then there is the alternating flashing of the LED T. MOT, now has 30 seconds to activate or deactivate the PGM. With the **SEL** button position the flashing of the LED CODE and the **SET** button to enable or disable the PGM function.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

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

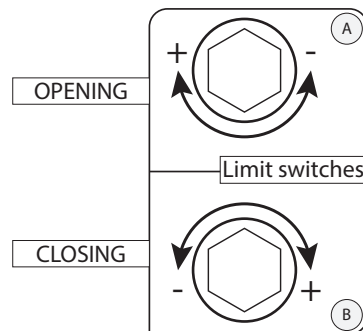
CODE PGM

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:



See how to access the motor on the page o8.A



05. CONTROL BOARD MC7

PROGRAMMING ◀

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.

06. TROUBLESHOOTING

▷ INSTRUCTIONS FOR CONSUMERS AND SPECIALIZED TECHNICAL

Problems	Causes	Solutions
The awning does not hold correctly on the wall.	The screws are not suitable for the wall structure.	▷ Check the installation dimensions which are on the pages 03.B and 04.A . ▷ Verify if the quantity of screws is sufficient and are indicated in this manual (page 04.A).
The awning not stay leveling after opening.	Changes in the awning after several maneuvers. Improper adjustment on top or the articulated arms.	▷ Check the level of wall brackets (n° 6). ▷ Check the level of the square tube (n°12). ▷ Correct the arms inclination considering the manual's instructions (06.B page).
The top does not close completely.	Detuning the top or limit switch.	▷ Adjust the arms (page 06.B). ▷ Adjust the top inclination (page 07A). ▷ Adjust the limit switches of the motor (page 07.B and 11.B).
The top does not close on one side.	Natural extension of the fabric.	▷ Put a plastic chock, on the side where the fabric suffers the changes between the tube and the fabric. If necessary add more chocks until the fabric to meet with the normal extension (image 39).
The awning does not work and the motor does not make noise.	The motor goes into thermal protection after 2 openings and 1 closure.	▷ Wait 20 minutes.
The awning does not work and the motor does not make noise.	Problem of protection.	▷ Check the motor connection. ▷ Check the operation of the motor, connecting directly into electric current (image 40).

07. CONNECTIONS TO CONTROL BOARD

SCHEME OF CONNECTIONS (CONTROL BOARD MC6 AND MC7) ◀

