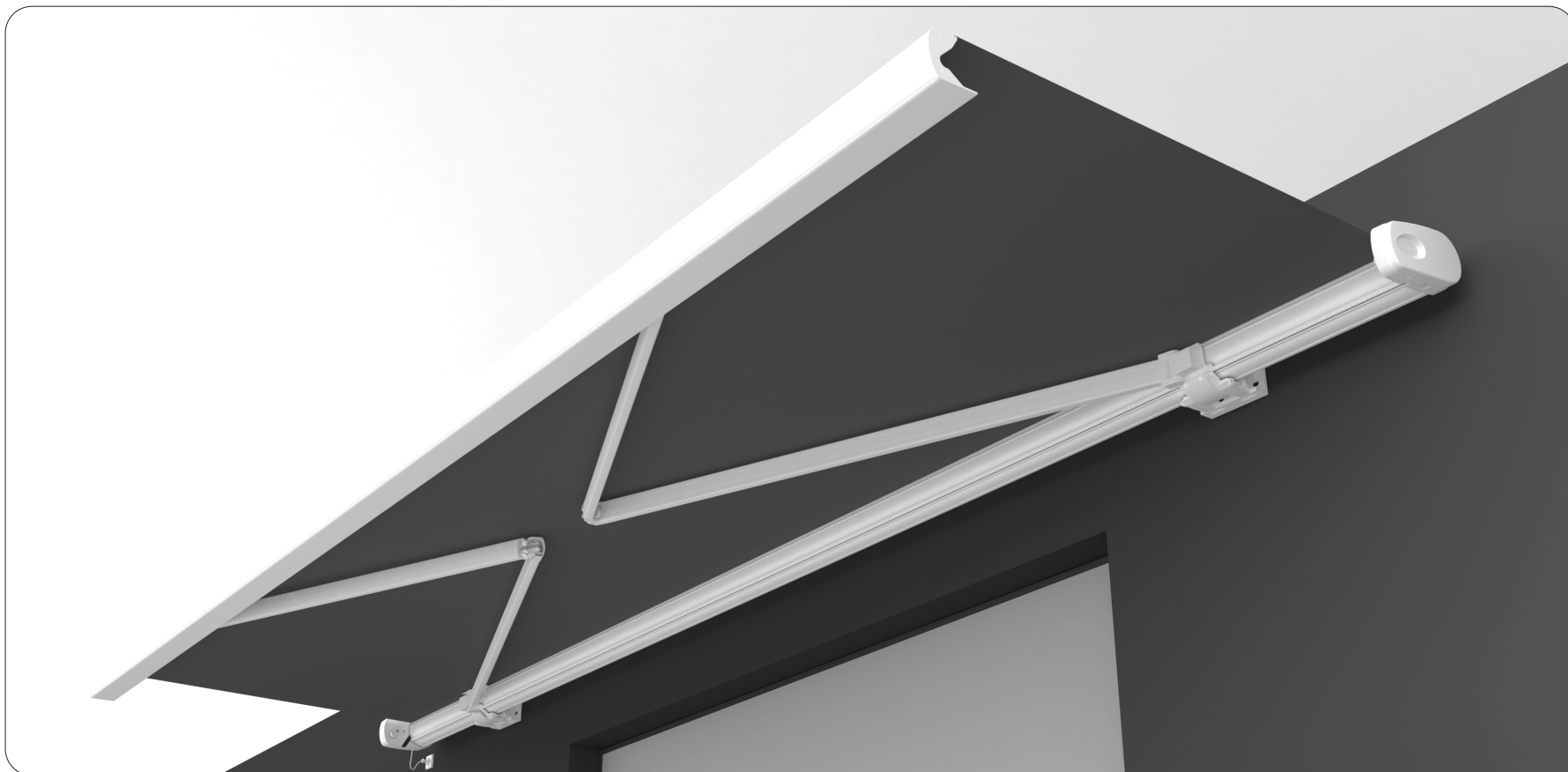


COFRE 260

INSTALLER AND USER'S MANUAL

motorline[®]
P R O F E S S I O N A L



00. CONTENT

▷ INDEX

00. CONTENT

- ▷ index | p. 01.A

01. SAFETY INSTRUCTIONS

- ▷ standards to follow | p. 01.B

02. AWNING

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

03. INSTALLATION

- ▷ pre-installation info | p. 03.A
- ▷ wall installation | p. 03.B
- ▷ ceiling installation | p. 05.A
- ▷ arm inclination adjustment | p. 05.B
- ▷ articulation adjustment | p. 06.A
- ▷ manual release | p. 06.B
- ▷ limit switch adjustment | p. 06.B
- ▷ fabric regulation | p. 07.A
- ▷ connection scheme | p. 07.A

04. CONTROL BOARD

- ▷ technical specifications | p. 07.B
- ▷ control board connections | p. 08.A
- ▷ group or general centralization | p. 08.A
- ▷ functions | p. 08.B
- ▷ programming | p. 10.A

05. TROUBLESHOOTING

- ▷ instructions for consumers and specialized technical | p. 11.B

06. CONNECTIONS TO CONTROL BOARD

- ▷ connections scheme (control board MC6) | p. 12.A

01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW ◀

ATTENTION:

▷ To ensure the people's safety, 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 S.A.** is not responsible for the improper use of the product, or other use than that for which it was designed.

▷ **ELECTROCELOS S.A.** 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 S.A.** 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.

▷ Do 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 transmitters 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

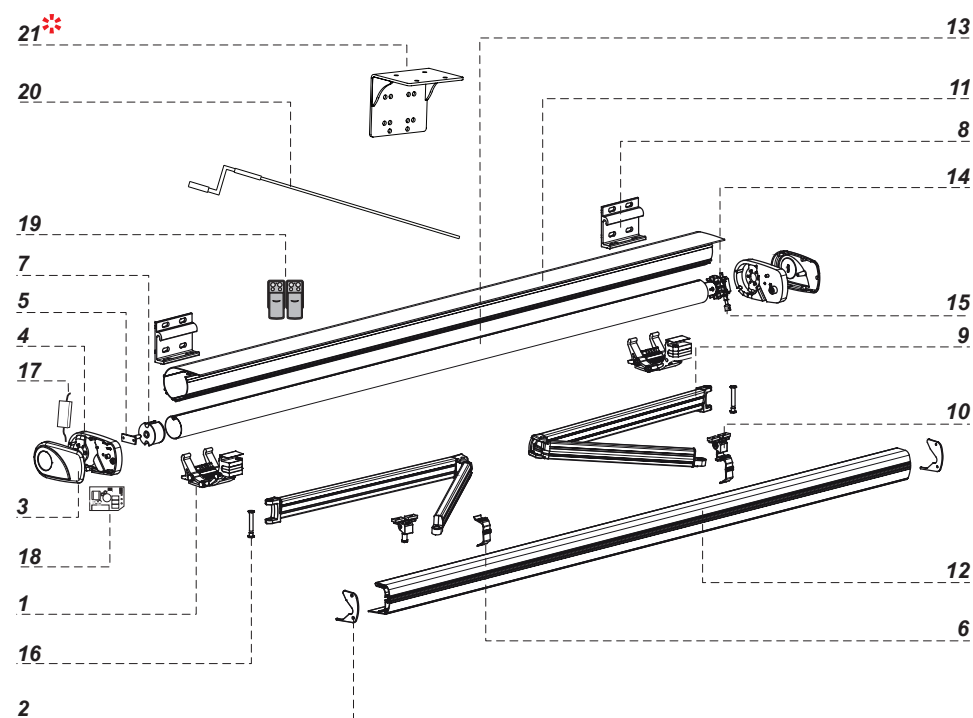
► TECHNICAL CHARACTERISTICS

Cassette awning **COFRE 260** is an automated awning, produced with a case for fabric protection. Have it has articulated arms with double cable for increased strength and safety. It is equipped with an integrated electronic system to facilitate his mounting. Allows a maximum inclination of 20°.

Motor's technical specifications	TUB90M8 MT
Voltage	230v AC
Frequency	50Hz
Force	50Nm
Speed	12RPM
Lift up	<35Kgs
Noise	<43dB
Working time	8min.
Diameter	45mm
Weight set	2,40Kgs
Consumption	0.68A

O2. AWNING

EXPLODED VIEW ◀

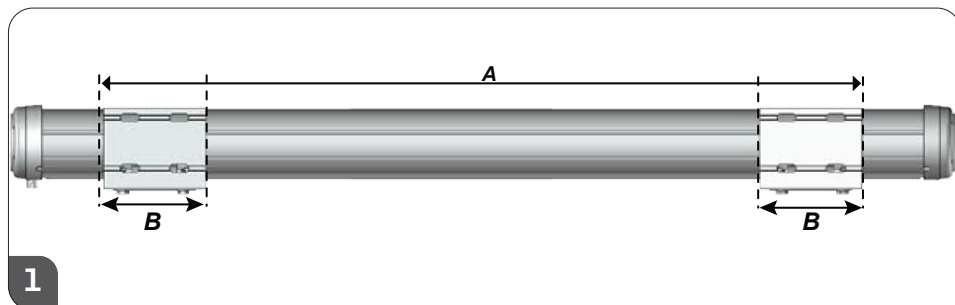


✱Not included in the awning.

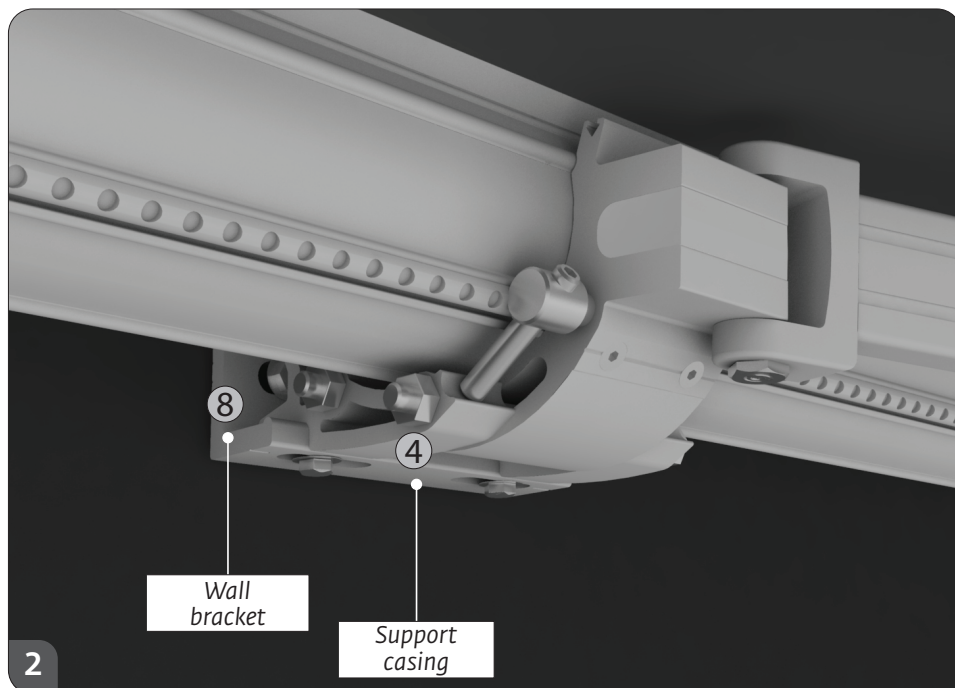
- | | | | |
|----|----------------------------|----|---------------------|
| 1 | Mains support | 12 | Frontal profile |
| 2 | Frontal cover | 13 | ø78 mm tube |
| 3 | Exterior side cover | 14 | Tubular Motor |
| 4 | Interior side cover | 15 | Manual safety crank |
| 5 | Pin for ø78 mm tube | 16 | Arm shaft |
| 6 | Reinforcing protection bar | 17 | Transformer |
| 7 | Bushing for tube | 18 | Control board MC65 |
| 8 | Wall bracket | 19 | Transmitters FALK |
| 9 | Arm | 20 | Crank |
| 10 | Arm's terminal | 21 | Console |
| 11 | Safe's profile | | |

03. INSTALLATION

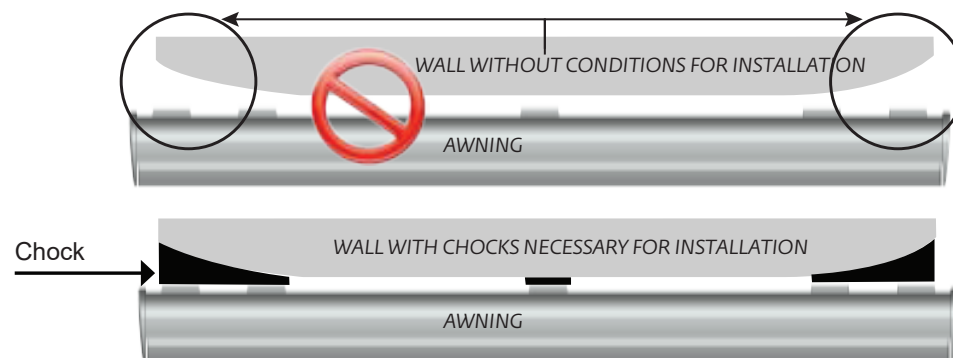
► PRE-INSTALLATION INFO



For a correct operation of the awning, the measure **A** can not be changed. The wall bracket (n° 8) must be placed in zone **B** where the casing support (n° 4) is.



03. INSTALLATION



Before starting the installation, check the wall leveling. If the wall is not flat, create chocks in order to level perfectly the awning clamping points. Also make sure that the metal bushings/bolts are tightened on a solid surface and resistant so there is no risk of loosening and fall of the awning. Never open the casing before the installation is completed as it may endanger your physical integrity.

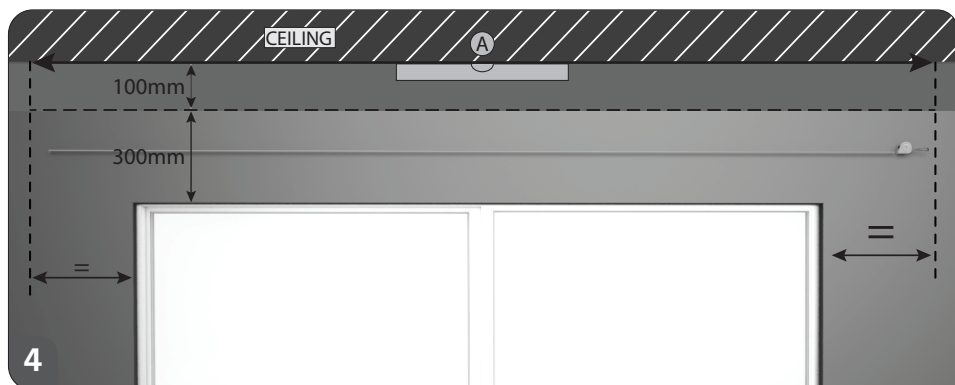
These informations are very important because the security and stability awning reside mainly in its fixation!

WALL INSTALLATION ◀

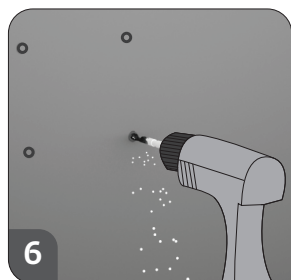
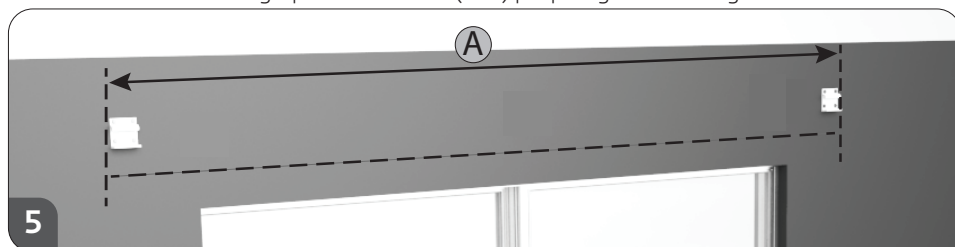


01 - Place the wall brackets (n°8) in casing holders (n°4). These must be properly centered. Make the measurement with supports for a correct application on the wall.

03. INSTALLATION



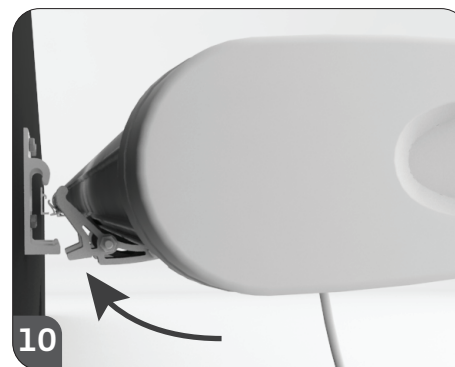
02 - Take the measurement at the location where the awning will be applied. Pay attention to the leveling of wall brackets (n°8) for fixing the awning.



03 - With the help of a pencil or marker, identify the drilling points for the placing of the wall brackets (n°8). Make holes with 100mm deep and Ø20mm.

04 - Insert metal bushings M12 in the created holes. Position the wall bracket (n°8) in the holes and apply the screws M12x90 with their respective washers (screws, washers and bushings not included in the kit).

03. INSTALLATION

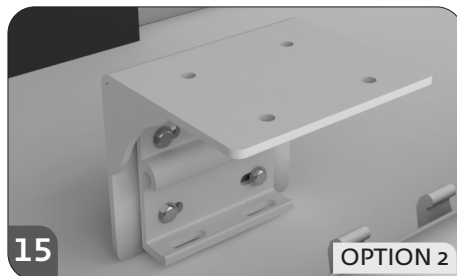
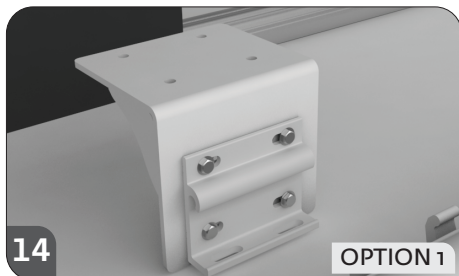


05 - Make the application of the awning, fitting casing holders (n°4) in the wall bracket (n°8). Please check the images 9, 10, 11 and 12.

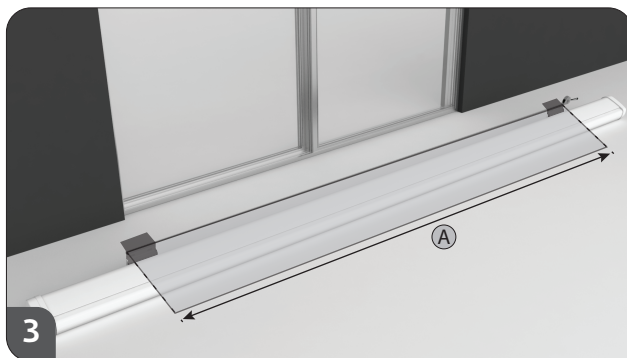
06 - Apply the screws DIN 933 (M10 x 30) with the washers and tighten until the awning is fully secure.

03. INSTALLATION

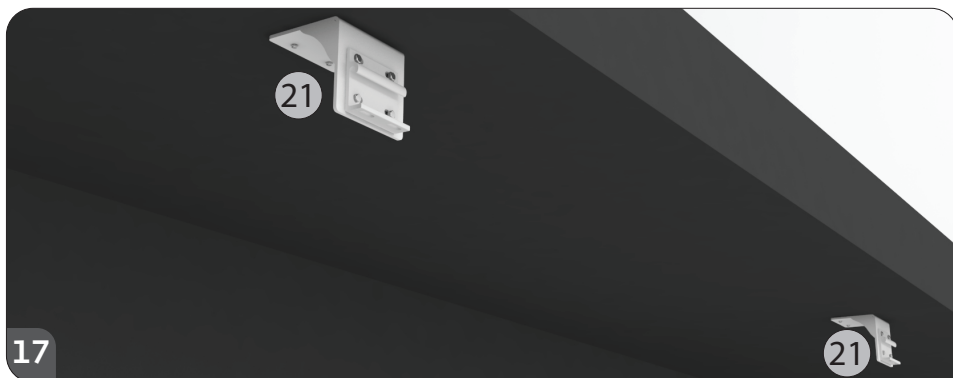
▷ CEILING INSTALLATION



Make the fixation on the consoles (n°21) using one of the two options identified in the images 14 and 15 (use M12 screws with washers).



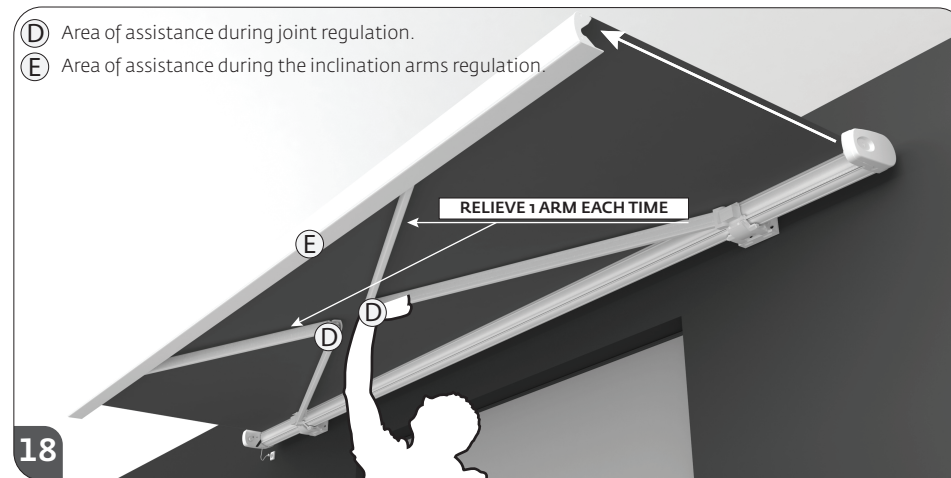
Insert the wall brackets (n°8) in casing holders (n°4) and measure it (A) with the supports. Transport this measure (A) to the ceiling where it will be fixed. From here, follow all the steps used in the wall installation (page 03.B) using, in this case, the brackets (n°21) for the safe fixation in the area B of the image 1.



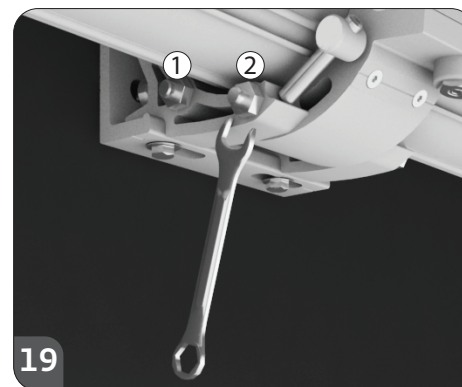
Console (n°21) to be applied in zone B of image 1 (page 03.A).

03. INSTALLATION

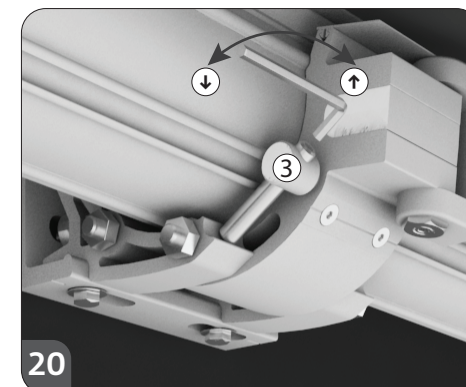
INCLINATION ARMS REGULATION ◀



01 - To start the inclination arms regulation, fully open the awning. Assist the awning indicated area during the whole regulation process (E).



02 - Loosen slightly the ① and ② screws as shown in the image 19.

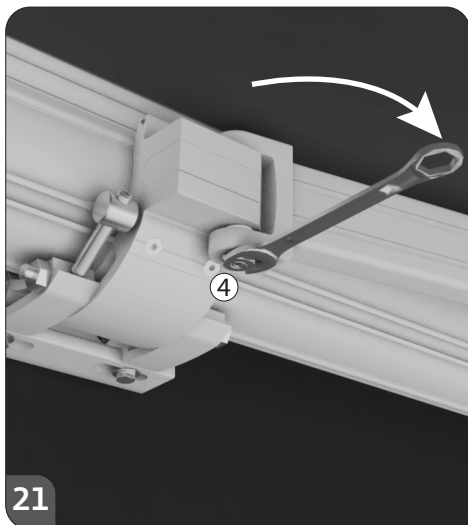


03 - Adjust the (image 20) screw ③ until it reaches the desired inclination. Rotating clockwise the awning up ↑, rotating to the left down ↓. Make this operation in one arm and only then in the other. Don't loosen the two arms at the same time.

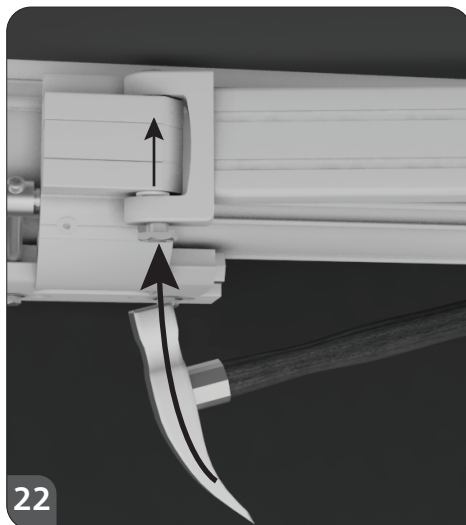
04 - Tighten the screws ① and ② (image 19).

O3. INSTALLATION

▷ ARTICULATION ADJUSTMENT



01 - With the awning open for about 500 mm, loosen the nut (4) approximately 7mm so that the upper part of screw is loosened out of the arm.



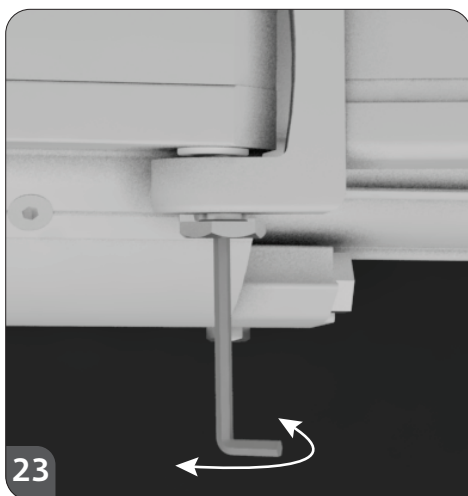
02 - Using a hammer, apply a gentle tap until the screw rises enough to be tuned.

Use a hex key to turn the screw to the right or to the left until you find the desired position.

Assist the arm as shown in the **picture 18** of **page 05.B** until the regulation is finished.

Turn the screw until the desired position and finish so as that it can be re-fitted at the top part.

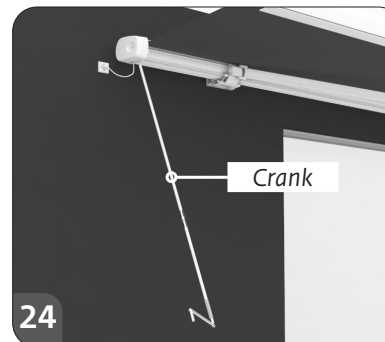
Tighten the nut (4) and the screw will go down and get fixed. Keep the center secured with an internal key so that the adjustment does not change.



23

O3. INSTALLATION

MANUAL RELEASE ◀

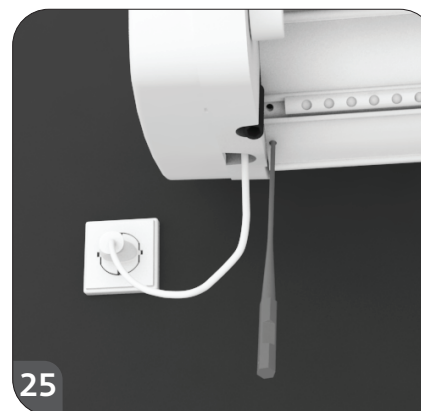


24

The awning is prepared for, in case of power failure or other situation that prevents the electrical operation of the equipment, it is possible to make the opening or closing manually by using the handle (n°20).

Place the handle as shown in the **picture 24** and turn it to open / close the awning.

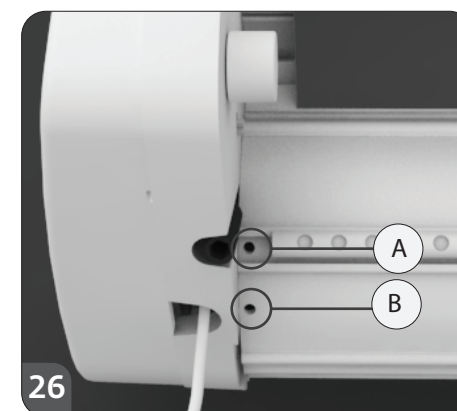
LIMIT SWITCH ADJUSTMENT ◀



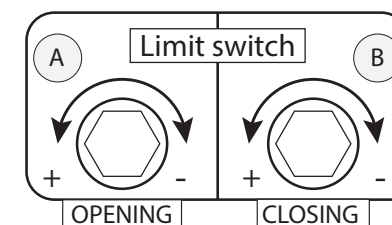
25

(A) Opening limit switch
Controls the motor's opening course

(B) Closing limit switch
Controls the motor's closing course

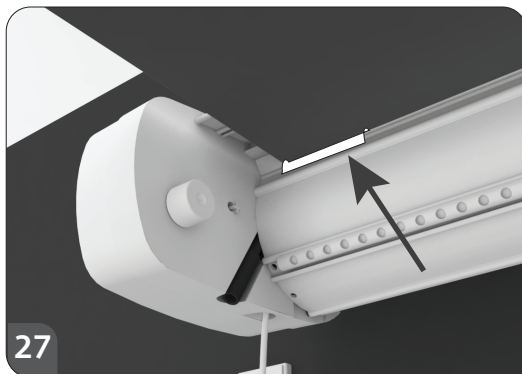


26



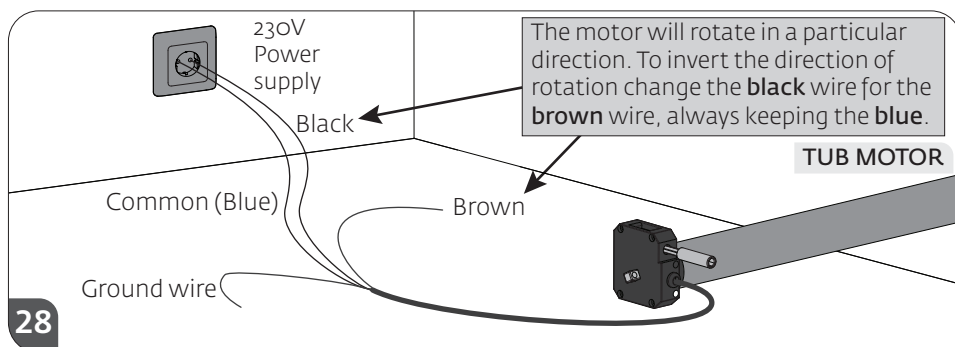
03. INSTALLATION

► FABRIC REGULATION



If you detect any anomalies in the fabric winding (total closure of a side only), make the opening of the awning and place plastic shims in the place identified in the **image 27** (the side that does not close). The shims should be positioned between the fabric and the winding tube. If necessary, add more shims until the fabric shows the correct conditions.

► CONNECTION SCHEME



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

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

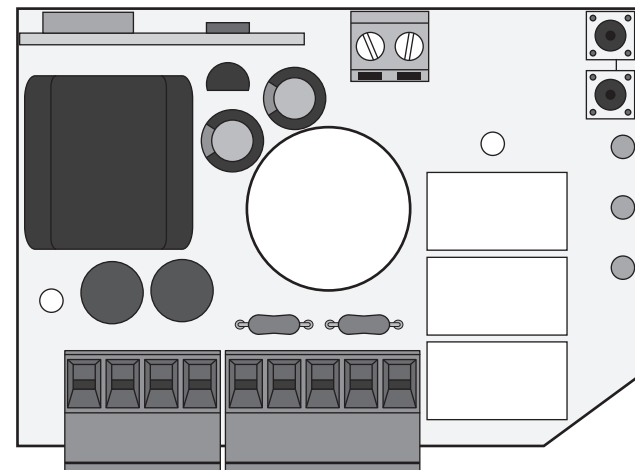
► To make the tests it is not needed to remove the automatism from where it is installed, because this way you can see if the automatism, connected directly to the current can function properly.

► The common wire must always be connected to the power supply.

► To invert the operating direction of the automation, just swap the **Black** with the **Brown** wire on the power supply's direct connection.

04. CONTROL BOARD

TECHNICAL SPECIFICATIONS ◀



Control board MC6, for awning automation, with possibility to connect a presence light with timer, with operation via transmitter and Wireless Sensor (sun/wind/rain).

► Power supply	AC 230V 50/60Hz 1000W max.
► Motor output	230V~ 500W max.
► Output courtesy light	230V~ 500W max.
► Working temperature	-20÷55°C
► Radio receiver	433.92 MHz
► Compatible transmitters	12-18 Bit - Rolling Code
► Number of transmitters for memorize	5 max.
► Number of sensors Wireless for memorize	1 max.

O4. CONTROL BOARD

▷ CONTROL BOARD CONNECTIONS

CN1

- 01 ▷ Ground connection input.
- 02 ▷ Ground connection input.
- 03 ▷ 230V power supply Input ~ (PHASE)
- 04 ▷ 230V power supply Input ~ (NEUTRAL)
- 05 ▷ Rising/Closing motor output
- 06 ▷ Common motor output
- 07 ▷ Descent/Opening motor output
- 08 ▷ 230V presence light output ~ (PHASE)
- 09 ▷ 230V presence light output ~ (NEUTRAL)

CN2

- Antenna Mass Input (COM)
- Antenna control board pole input

▷ GROUP OR GENERAL CENTRALIZATION

▷ Centralization via radio through transmitter

The centralization of two or more control boards via radio allows simultaneous movement of ascending or descending of more awnings. The centralization is performed by entering the same codes (keys) from a transmitter to all control boards at maximum distance of 20 meters from the transmitter point in, 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 operating range is not only related with the technical characteristics of the device, it may vary depending on the radioelectric conditions of the location.

▷ Presence Light operation with remote control

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

▷ Automatic Limit-Switch when opening/closing

There is, in the control board, an limit-switch automatic system to use in the awning. Whenever it is identified an excessive current absorption (by one motor) during



Whenever it is made a full opening/closing of the awning, the control board turns off the presence light.

O4. CONTROL BOARD

FUNCTIONS ◀

opening/closing, due to the possible presence of an obstacle or the complete movement of opening/closing, the control board stops immediately the maneuver and relieves.

▷ 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: makes the choosen programming with the SEL button.

LED signaling

LED on: option saved.

LED off: option not saved.

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	Working Time - 3 min	Motor time programmed

CODE (Programming the remote control to operate the awning and the wireless Wind Sensor)

CODE LAMP (Programming the remote control to operate a lamp)

T.MOT (Programming the Working Time/ motor)

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

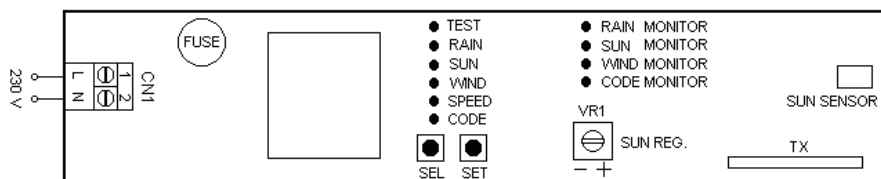
The programming of the transmission codes of the remote control is performed as following: press the **SEL** button and CODE LED will blink. At the same time, send the first code (closing) selected with the desired remote control. The LED CODE will flash rapidly.

Send the second code (opening) to be memorized, the LED CODE will remain ON and programmation is finished. If the second code is not sent within 10 seconds from the first one, the unit exits the programming phase, leaving only a button on the remote control to work step by step (open/stop/close).

O4. CONTROL BOARD

► FUNCTIONS

► Programming wireless sensor (sun/wind/rain)



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

1º Turn ON the power supply of 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: use the SEL button to go to the LED CODE. (option 2) - With the awning opened and lighting turned off, continually press the remote's opening channel memorized for more than 10 seconds until the light of the awning flashes once;
After opening the control board's memory, you have 10 seconds to send the sensor's order to the control board.

3º (Sensor) Use the SEL button to go to the LED CODE (led starts to blink), immediately press the SET button of the sensor so that it emits a rapid flashing of the LED CODE until the light of the awning flashes once;

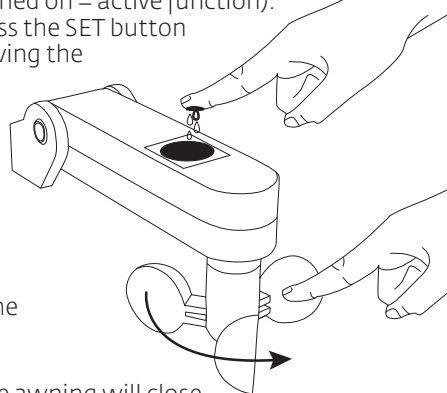
4º With the SEL button of the sensor, you must now select the functions you want to leave activated in the sensor the sun/wind/rain. Press SEL repeatedly until the LED of the desired function flashes. With the LED flashing, press the SET button for more than 1 second until it is fixed (LED turned on = active function).
To disable any function, repeat point 4 but press the SET button at least for 1 second and the LED goes out, leaving the function disabled.

5º To test the sensor you should follow the next instructions:

Use the SEL button to go to the LED CODE (led starts to blink). Press the SET button for more than 1 second and the LED stays on.

TEST RAIN SENSOR Place a wet finger over the sensor until the awning begins to close (the awning will close during 5 seconds).

TEST WIND SENSOR Rotate the propeller. The awning will close



O4. CONTROL BOARD

FUNCTIONS ◀

for 5 seconds.

TEST SUN SENSOR Turn VR1 clockwise (+) and the awning will open for 5 seconds. Turn the VR1 counterclockwise (-) and the awning will close for 5 seconds. In case the awning performs the indicated operations successfully, the sensor is programmed and the test finished.

You must deactivate the LED TEST so that, in case of emergency, the awning closes entirely. If the LED TEST stays on, the awning will only close for 5 seconds.

When the awning closes by sensor's order, we can see what order is being sent, checking which LED of the sensor is ON, on the board's monitor.

For more information on how to adjust the wind speed, sensitivity and sensor's illuminance, read the manual of Wiweather sensor.

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

► Functions deactivation (sun/rain) via remote control

If you want to disable the Sun/Rain functions, please begin by opening the awning and before the awning finishes the opening by the limit switch, press the transmitter, the awning will stop immediately and turn off the Sun/Rain functions. However, whenever the awning does not fully open by being stopped with the remote control, the Sun/Rain functions are disabled and the Wind function remains active.

To reactivate the functions, let the awning fully open.

► Maximum number of memorable Wireless Sensors

The control board can only memorize 1 Wireless Sensor. Programming a new Wireless Sensor will delete the previously memorized code.

► Poor communication of the Sensor

In case of poor of communication between the Wireless Sensor and MC6 control board, the opening/closing will be automatically activated after 30 minutes. If poor communication continues, other remote controls will keep the control board in a state of security, not allowing the awning to open (when receives opening order, it 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.

CODE LAMP (Programming the remote control for operating the light output)

The programming of the channels of the remote control is performed as follows:
Use the SEL button to go to the CODE LAMP LED (led starts to blink). Then

O4. CONTROL BOARD

► PROGRAMMING

send the desired channel of remote control. LED CODE LAMP remains lit and programming is complete.

T. MOT. (Programming working time - 4 minutes max.)

The control board is supplied with **LED T.MOT. OFF**, meaning that the motor time is 3 minutes. With T.MOT LED. OFF and the remote control programmed, we can move the awning in the opening/closing direction, until you make the adjustment of the limit switches. Follow the instructions. The Working Time must always be set.

The programming of the working time must be performed with a fully open 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 motor's time is performed as follows:

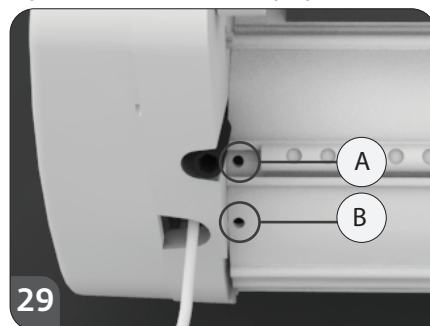
With the awning opened and already with the opening limit switch adjusted, position the SEL button to LED T. MOT, press and keep pressing the SET button and the awning starts to close.

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.

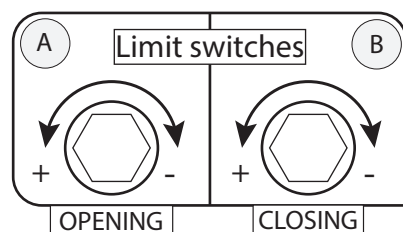
When it is intended that the awning stops on opening and closing by limit switch, with the open awning and the two limit switches fully regulated, with the SEL button, make the LED T.MOT flash and press without releasing SET button until the awning closes and the motor stops by limit switch. Wait more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

► Extended Menu 1

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 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.



See how to access the motor on the page 06.B



O4. CONTROL BOARD

PROGRAMMING ◀

Extended MENU 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 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

04. CONTROL BOARD

► PROGRAMMING

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.

► Extended Menu 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.

Extended MENU 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 12 RPM. This function can be changed in the extended menu 2. When it comes to a awning with safe, when it closes, if it doesn't use the motor's limit switch, the control board analyzes that the awning has closed and entered into effort and automatic turn off the motor. After that it reverses direction by thousand of a second so it does not effort the fabric too much. This inversion time is selected through the extended menu 2, in accordance with the motor installed in case of a motor 17 or 12 rotations to that the awning not reverse for too much time.

05. 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 e 04.A . ► Verify if the quantity of screws is sufficient and are indicated in this manual (page 04.A).
The awning does not stay leveled after opening.	Changes in the awning after several maneuvers. Improper adjustment on top or the articulated arms.	► Check the level of wall brackets (nº8). ► Correct the arms inclination considering the manual's instructions (página 05.B).
The top does not close completely.	Detuning the top or limit switch.	► Adjust the arms (página 05.B). ► Adjust the limit switches of the motor (página 06.B e 10.A).
The top does not close on one side.	Natural extension of the fabric.	► Put a plastic shim, on the side where the fabric suffers the changes between the tube and the fabric. If necessary add more shims until the fabric to meet with the normal extension (image 27).
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 28).

06. CONNECTIONS TO CONTROL BOARD

▷ CONNECTIONS SCHEME (CONTROL BOARD MC65)

