

VELLUM

INSTALLER AND USER'S MANUAL

motorline[®]
PROFESSIONAL



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00. CONTENT

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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 CHARACTERISTICAS

The **VELLUM** is an awning with aluminum structure for terraces or esplanades. It has a safe for fabric protection.

It is equipped with an integrated electronic system for easy assembly.

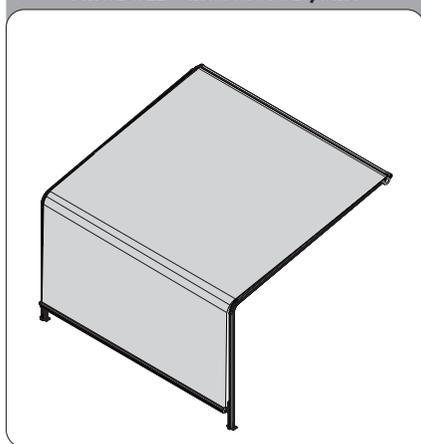
Provides protection of the front windscreen and sunlight.

Contains an integrated spring system for automated opening.

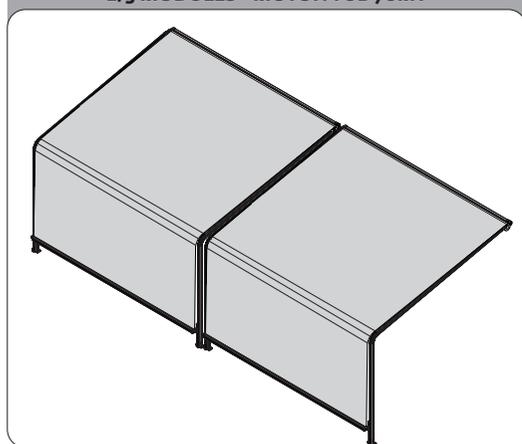
Inclination of 10° to 25°.

Is provided 1 lighting kit separate for application in space protected by the awning.

1 MODULE - MOTOR TUB 70MT



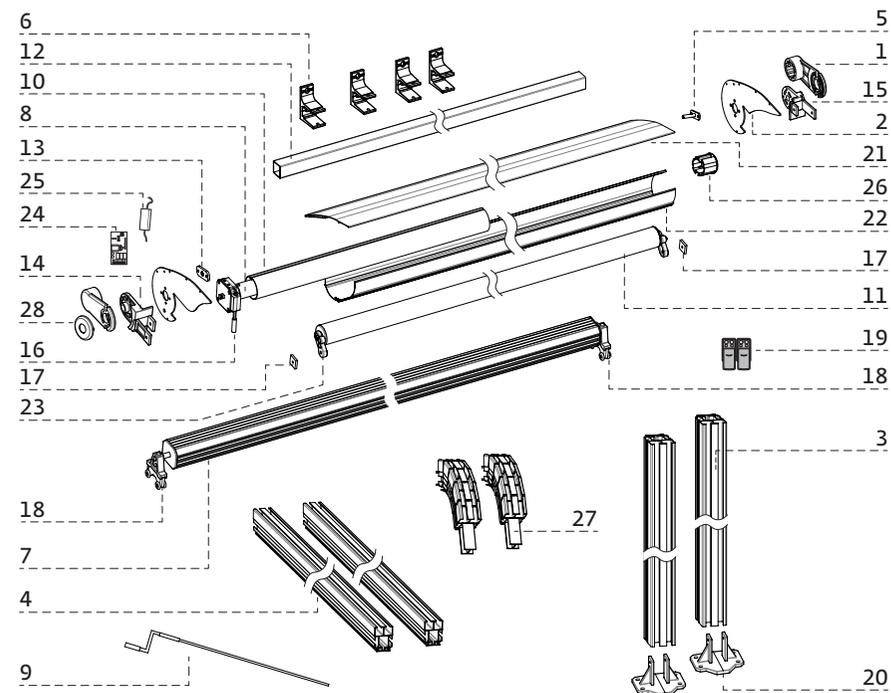
2/3 MODULES - MOTOR TUB 70MT



Technical specifications of motor	TUB 70MT	TUB 90MT
Voltage	230VAC	230VAC
Frequency	50Hz	50Hz
Force	40Nm	50Nm
Speed	12RPM	12RPM
Lift up	<70KGs	<90KGs
Noise	<43dB	<43dB
Working time	4min	4min
Diameter	45mm	45mm
Weight set	2,6KGs	2,8KGs
Consumption	0,95A	1,22A

O2. AWNING

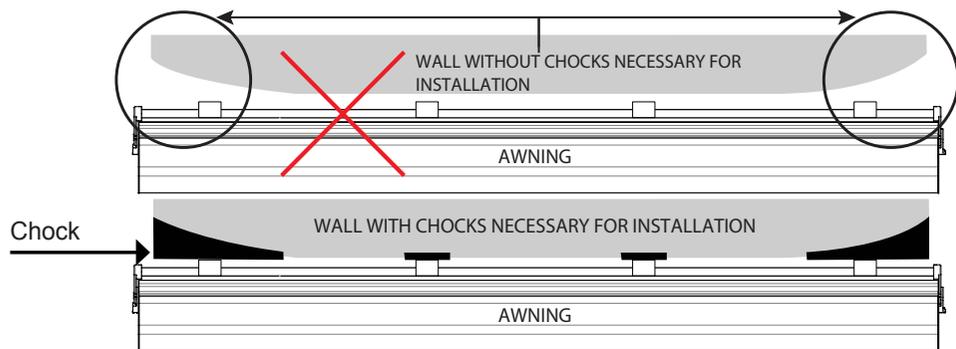
EXPLODED VIEW ◀



1	Top cover	15	Support profile (right)
2	Support casing	16	Safety crank
3	Profile vertical	17	Plate the tube fixation (11)
4	Profile horizontal	18	Trolley fabric guide
5	Pin of support	19	Remote controls
6	Wall bracket	20	Fixation plate to ground
7	Support casing	21	Safe (superior part)
8	Motor TUB	22	Safe (inferior part)
9	Crank	23	Fixation tuve to structure
10	Rolling tube ø78mm	24	Control board MC8
11	Structure tuve	25	Transformer
12	Square tube	26	Bushing for tube
13	Plate the motor fixation	27	Profile curve
14	Support profile (left)	28	Top cover

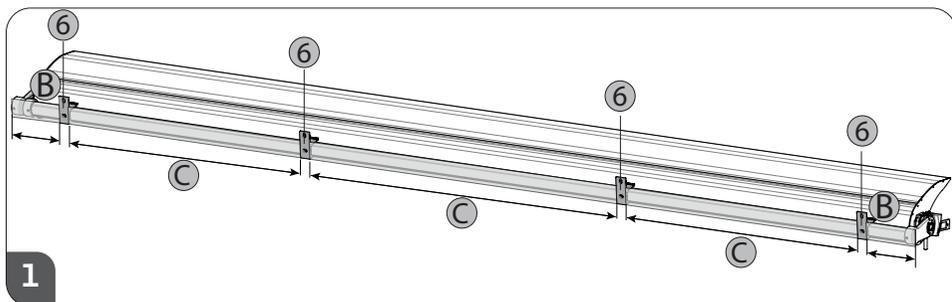
03. INSTALLATION

▷ INFORMATION PRE-INSTALLATION



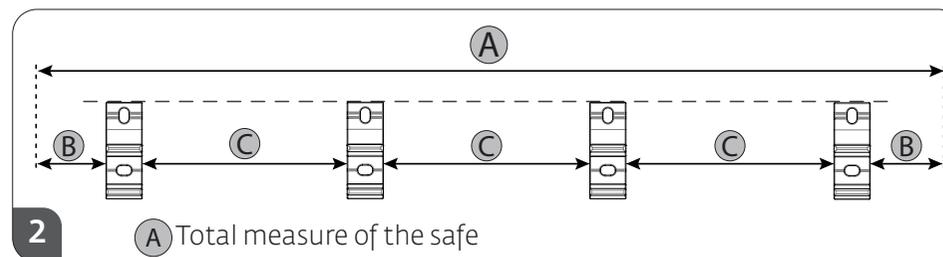
Before starting the installation, check the alignment of the wall. Should this not be flat to create new support fixing, so that the clamping points of the awning to the wall are perfectly aligned and level (above figures). You should also make sure that the metal bushings / bolts are tightened on a 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

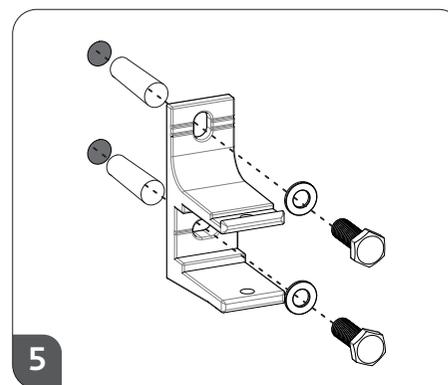
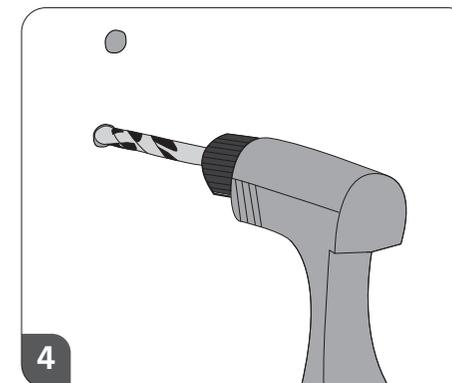
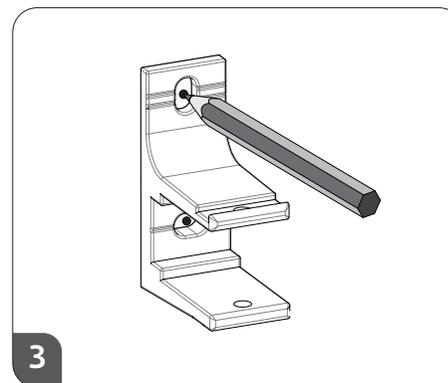


01 - Place the wall brackets (6) in the square tube (12). Must put up a support diverted between 100mm to 150mm each point (distance B). Divide the remaining supports with awning, at existing space, with equal distances (distance C).

03. INSTALLATION



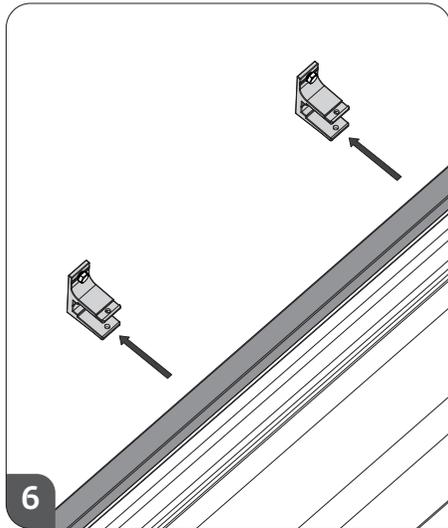
02 - Transportation measures to the location where the awning will be applied always with attention the leveling of wall brackets (6) for fixing the awning.



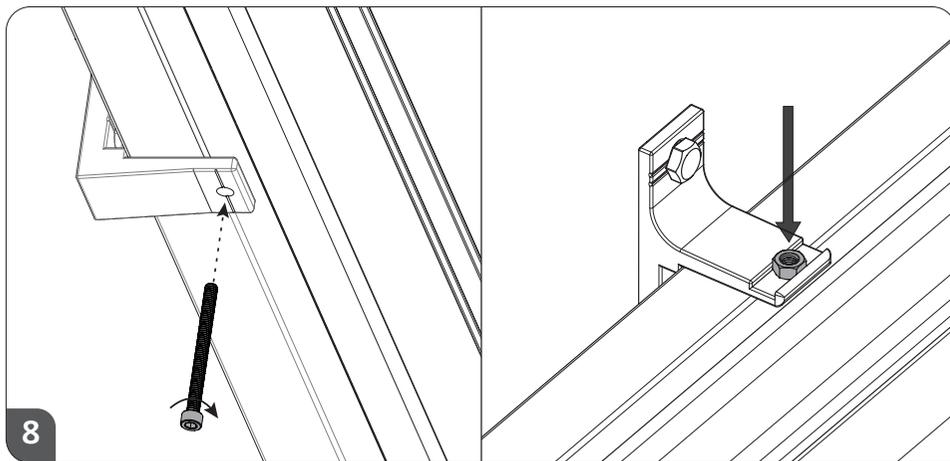
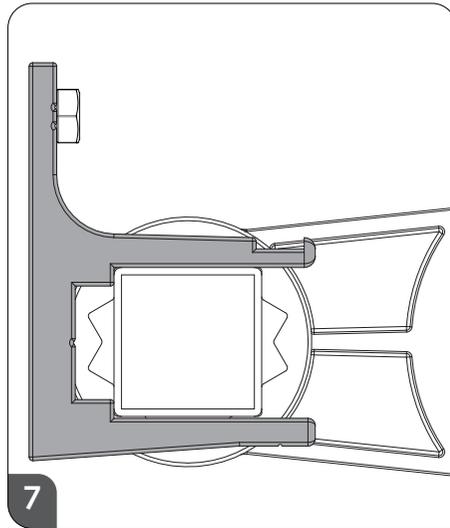
03 - With the help of a pencil or marker, identify the drilling points for fixing the wall brackets (6). Drill holes with 100mm deep and $\varnothing 18$ mm.

04 - Place **metal bushings M10** in the created holes. Position the wall brackets (6) in the holes and fix them with **M10x90** screws and respective washers (screws, washers and bushings not included in the kit).

03. INSTALLATION



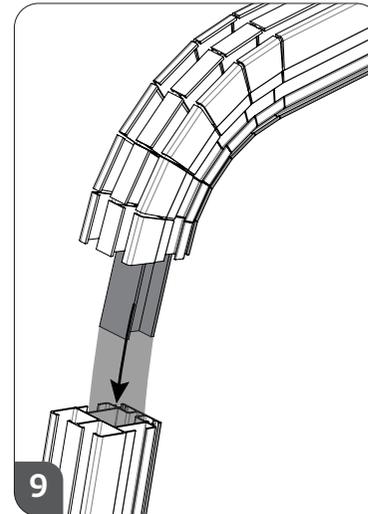
05 - Fit the square tube (12) in fixed supports to the wall (6).



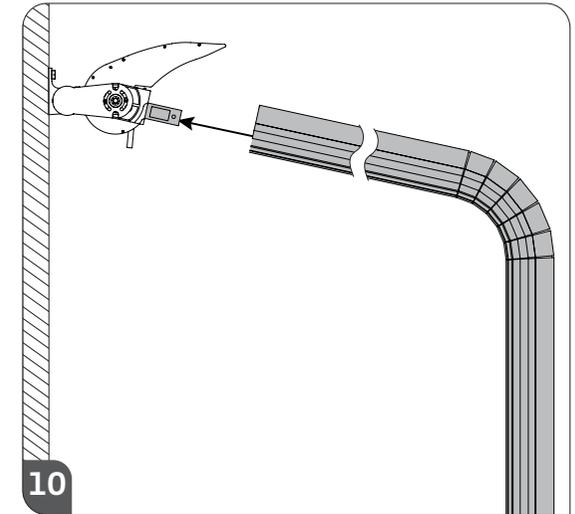
06 - Apply screws DIN 912 M8x60 on all supports (6) and tighten the female placed into the slot on top of the brackets until the safe is fully secure.

03. INSTALLATION

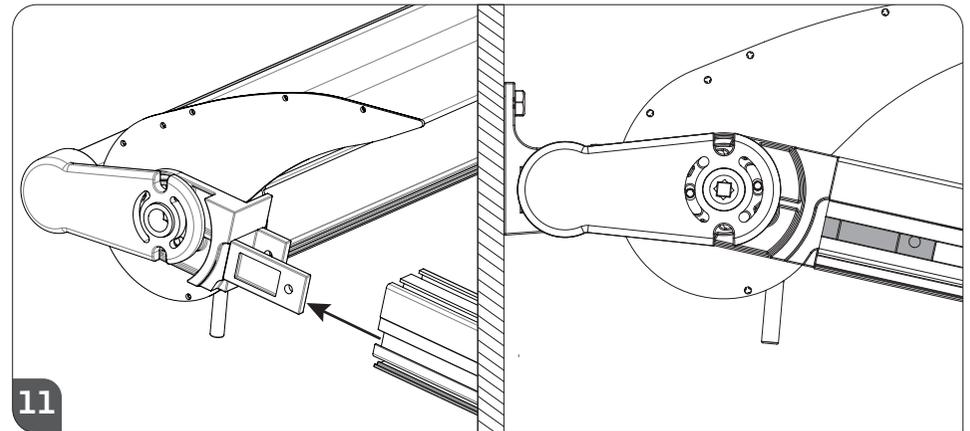
FIXATION THE SUPPORT PROFILES <



01 - Fit the profile (3) in the profile (4).

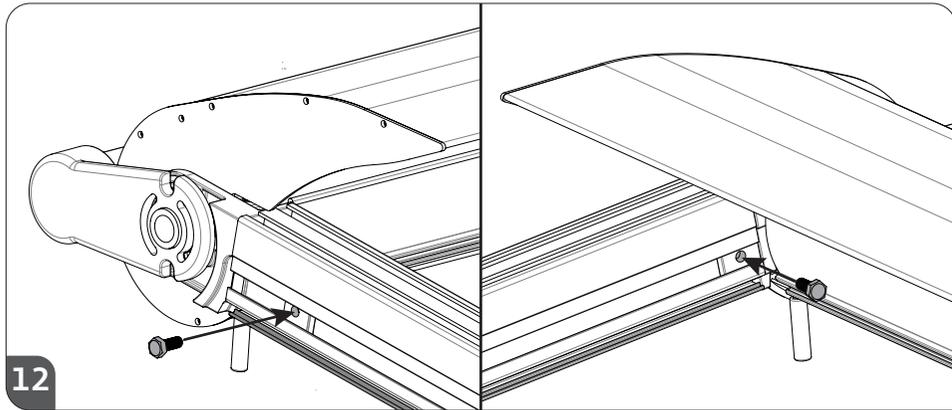


02 - Make the application of the profile united earlier in the support (14) the safe (images 10 and 11).



03 - Fit the profile in the piece (14) to fully lean as visible in the image 11.

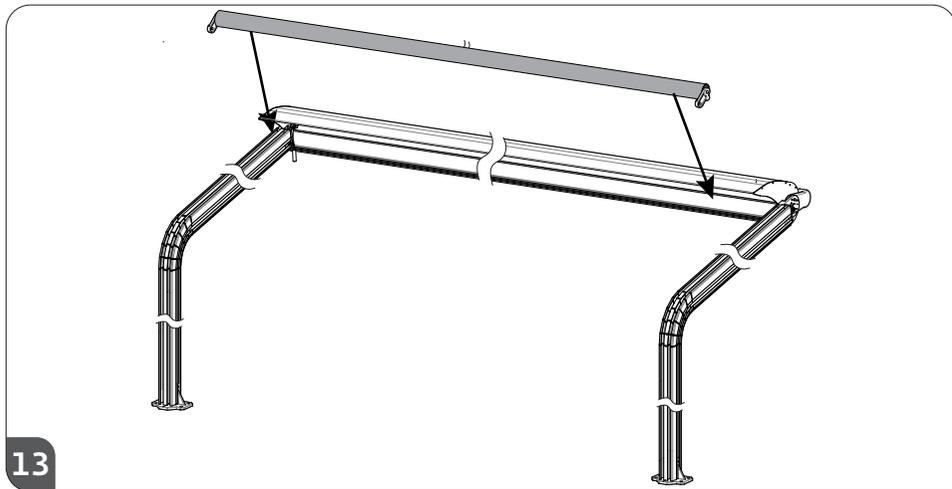
03. INSTALLATION



12
04 - To finish the fixing, apply a screw interior and another inferior, at the marked points on the images. The screws should be tightened in order to fix the profile (4) in the piece (14).

05 - Repeat the process for all the sections (3 and 4) necessary for the opposite side.

► FIXATION OF TUBES

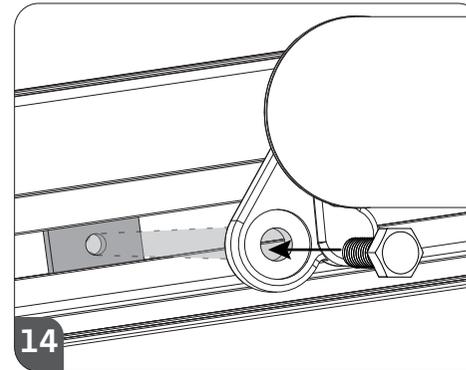


13

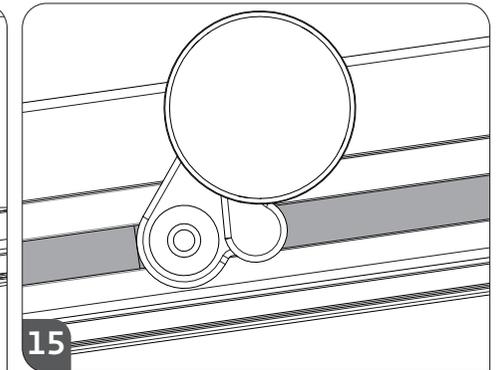
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05.A

03. INSTALLATION

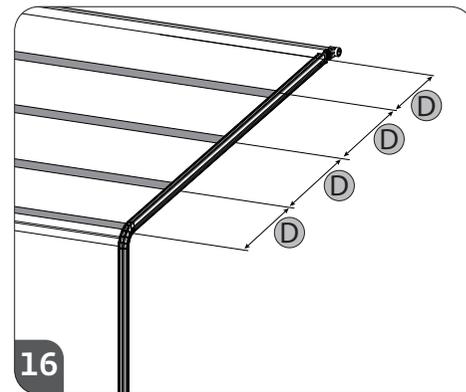


14



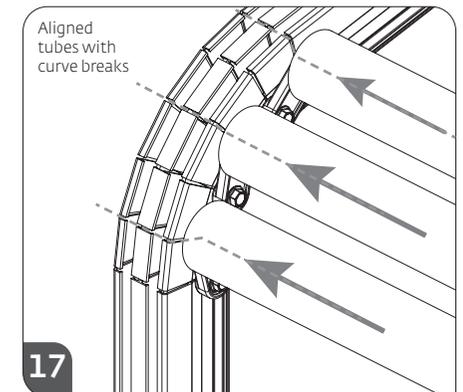
15

01 - Apply the round tubes (11) with parts (22) mounted, on the parts (16) already tight in the profile of the horizontal awning structure. Direct drilling of the piece (22) with the plate (16) existing in the horizontal profile slot (4) and tighten screw until they are fixed. Pay attention to **image 14** as this indicates the correct orientation for tube placement. It is obligatory for the existing ridge on the part (22) is placed in the profile slot (4) as shown in **image 15**.



16

02 - According to the dimensions of the awning, divide the tubes provided by existing space, leaving between them the same distance (D).



17

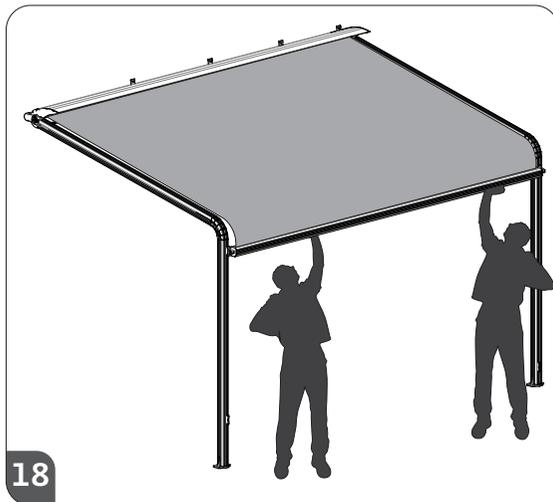
03 - Take the application of 3 tubes (11) as shown in the picture, while maintaining the alignment of the tubes with the curve breaks. Regardless of the dimensions of the awning, these 3 tubes are always used.

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05.B

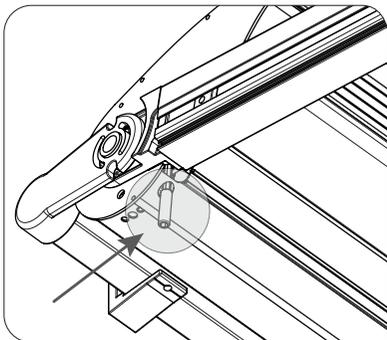
03. INSTALLATION

▷ FIXING THE PROFILE ON THE TROLLEYS

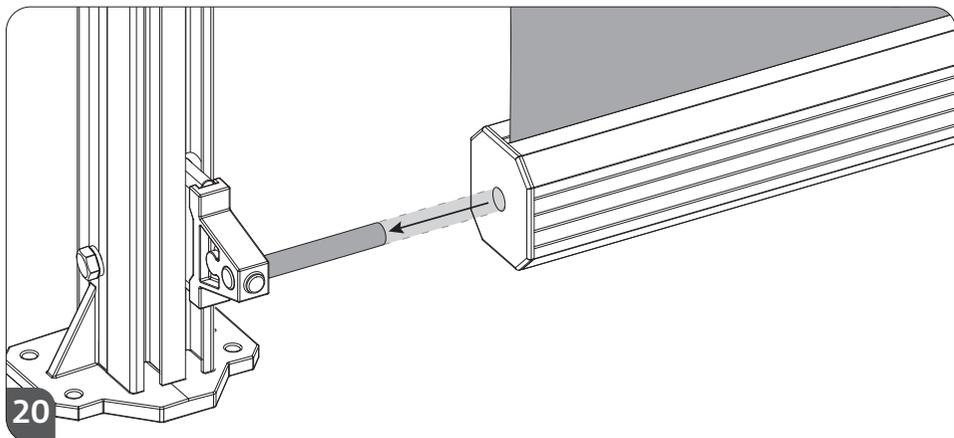


18

01 - Make the opening of the awning using the crank (9) and go down the horizontal profile (7) tied to the fabric until completely open the awning.



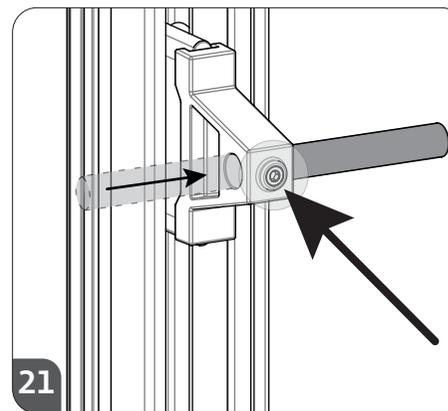
For this task are necessary three people to pass the tube (7) above the tubes (11) already fixed to the structure. Two people guide the fabric while the third opens the awning using the crank.



20

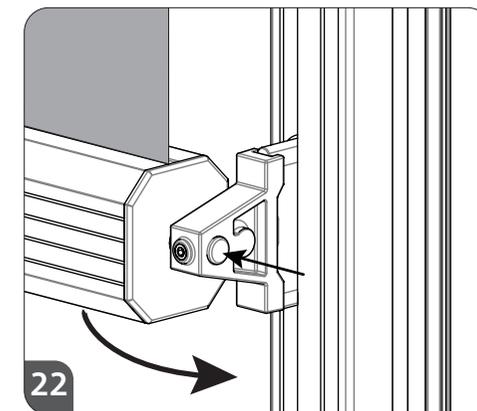
02 - When the awning is fully open, fit a profile of the tops (7) in the trolley of the same side (17), as visible in the image above.

03. INSTALLATION



21

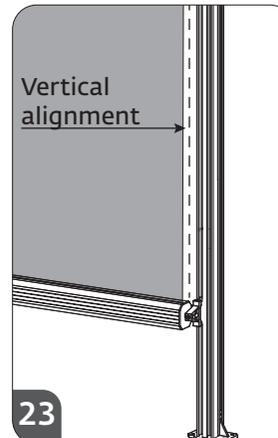
03 - In the trolley contrary, loosen the screw shown in the image so you can move the pin behind.



22

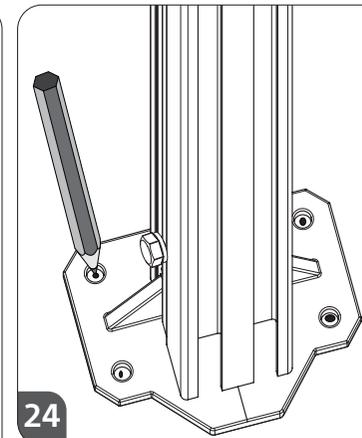
04 - Insert the pin inside the top and retighten the screw so that it is fixed.

FIXATION TO THE GROUND ◀



23

02 - Mark the location of the holes to fix the structure to the ground. Must do the marking in the center of the holes the fixing plate to the ground (19).

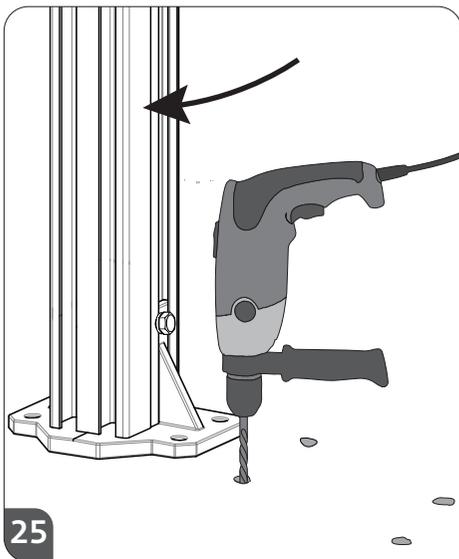


24

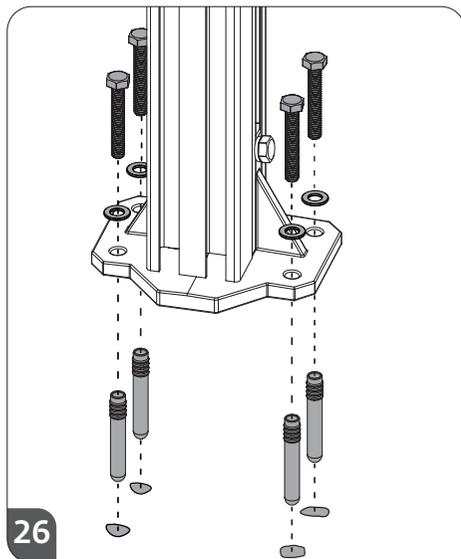
01 - Before starting fixing the profiles on the ground, it is necessary to check the vertical post of the same. Make the opening and closing awning using the crank, making sure that the fabric is aligned vertically with the profile as visible in the image 22.

O3. INSTALLATION

▷ FIXATION TO THE GROUND

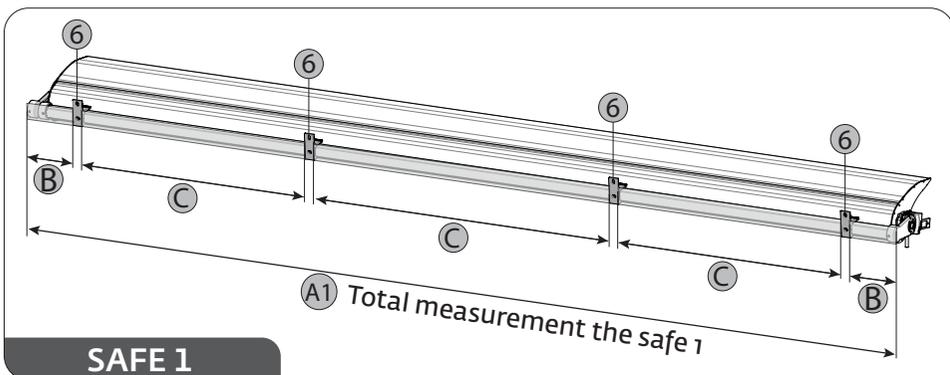


03 - With the collected awning, shift your profile enough for making the holes. Make it slightly so that the structure tubes do not disengage.



04 - Replace the profile in the correct position and proceed to the fixing of profiles.

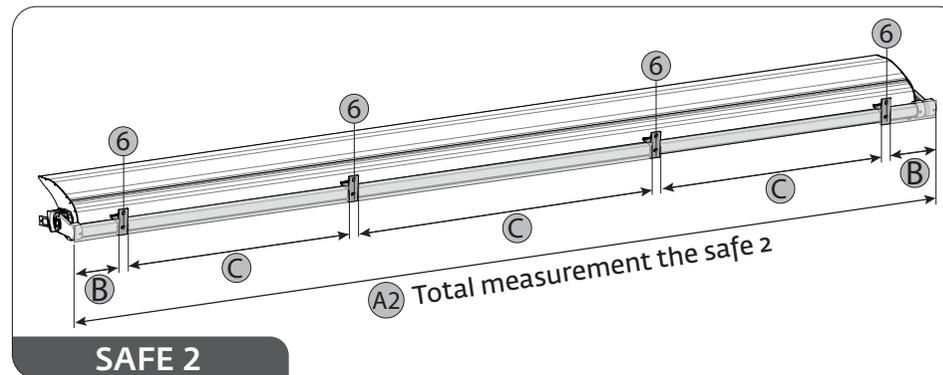
▷ INSTALLATION THE AWNING WITH 2 MODULES



SAFE 1

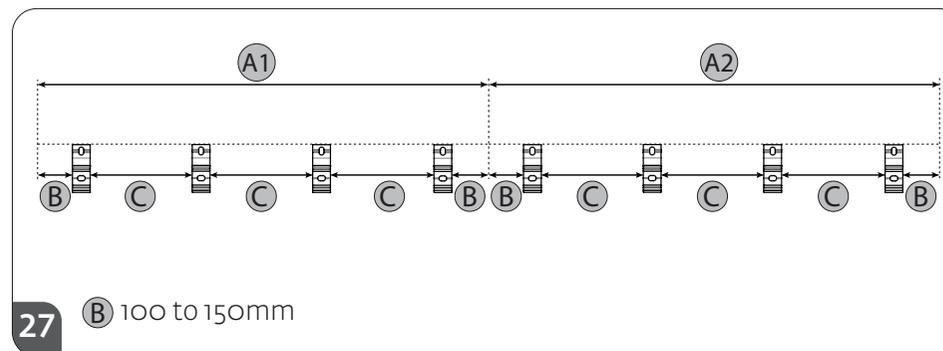
07.A

O3. INSTALLATION



SAFE 2

01 - Place wall brackets (6) in the square tube (12) both safes. Should put a support diverted between 100mm and 150mm each point (B). Divide the remaining holders with the same distance between them (C). Take the measurement of distances between supports for the application to the wall is correct.



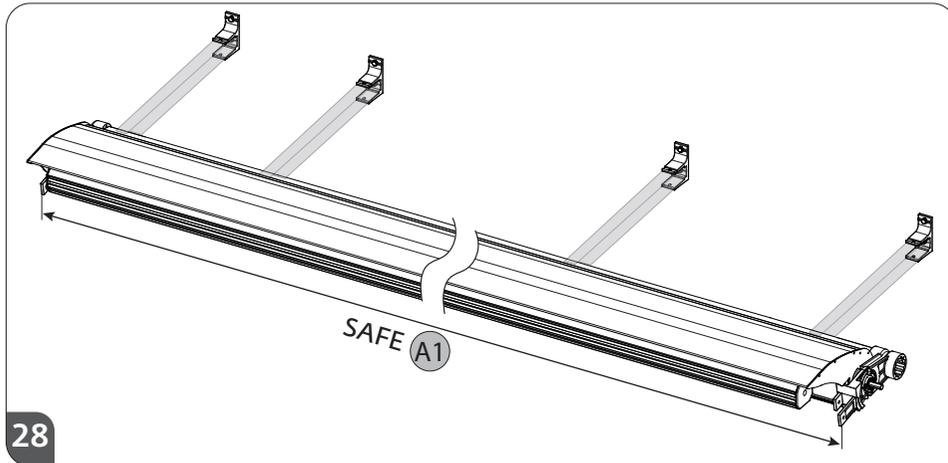
27 B 100 to 150mm

02 - Transport distances to the location where the awning will be applied always taking into attention to measures found in point 1 and the leveling of wall brackets (6) for fixing the awning.

To continue with the installation, follow all the points written for installation with 1 module from the page 03.B.

07.B

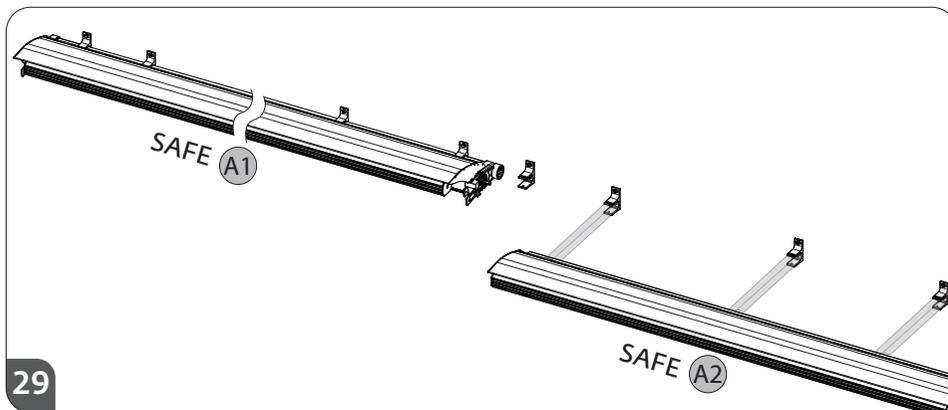
03. INSTALLATION



28

05 - Fit the square tube **safe 1** on the supports (6) (image 6 and 7, 03.B page).

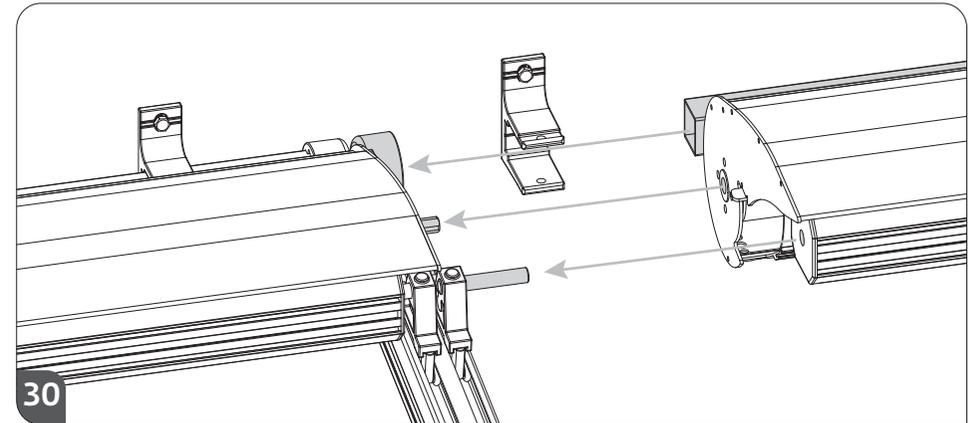
06 - Apply DIN 912 M8x60 screws on all supports (6) and tighten the females placed into the slot on top of the supports until the safe is fully secure (image 8, page 04.A).



29

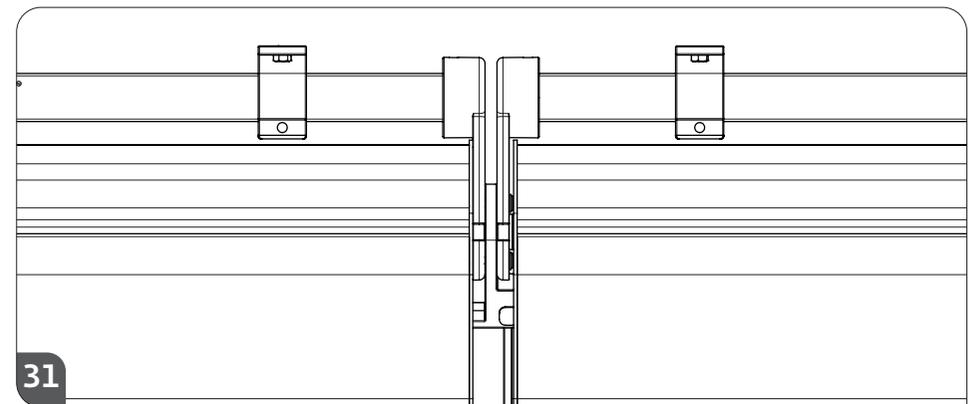
07 - Place the **safe 2** supported on the supports (6).

03. INSTALLATION



30

08 - Fit the **safe 2** on the **safe 1** until they are totally leaning as shown in the image 29 and 30. Must fit the square tube in the piece.



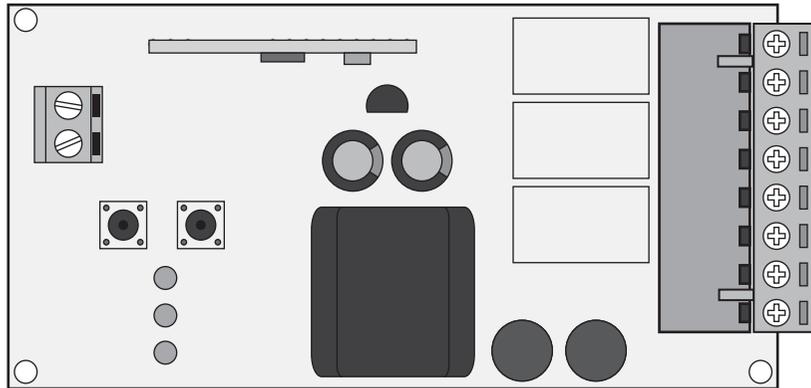
31

09 - Apply DIN 912 M8x60 screws on all supports (6) and tighten the females placed into the slot on top of the supports until the safe is fully secure (image 8, page 04.A).

10 - All the rest of the assembly process is the same as described when the awning has only 1 module (see page 04.B).

04. CONTROL BOARD MC8

► TECHNICAL SPECIFICATIONS



Control board MC8, 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	7 máx.
► Number of sensors Wireless for memorize	1 máx.

04. CONTROL BOARD MC8

CONNECTIONS OF PLATE ◀

CN1

- 01 ► Input connection Earth.
- 02 ► Input connection Earth.
- 03 ► Input line 230V~(NEUTRO)
- 04 ► Input line 230V~(FASE)
- 05 ► Output motor Rise / Closing
- 06 ► Output motor Common
- 07 ► Output motor Descent / Opening
- 08 ► Output present light 230V~ (NEUTRAL)
- 09 ► Output present light 230V~ (FASE)

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 (1 button) of remote control to turn ON or OFF a lamp 230Vac at a distance, connected to connectors of the board (7-8) CN1.



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

04. CONTROL BOARD MC8

► FUNCTIONS

► 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)

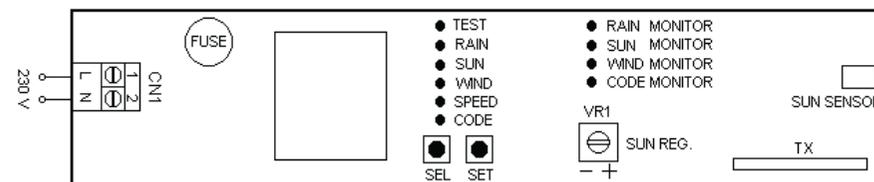
► Programming the remote control 1 or 2 keys and Wireless Sensor

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 board exits the programming phase, selecting operation, leaving only a one button on the remote control.

04. CONTROL BOARD MC8

FUNCTIONS ◀

► Programming sensor wireless (sun / wind / rain)



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

1º Turn ON the sensor;

2º Open the memory of the control board MC8. 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.

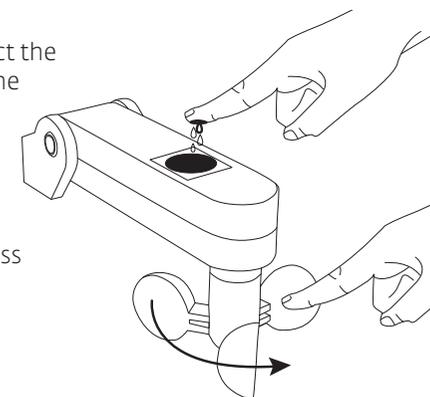
3º (Sensor) Position with the SEL button flashing LED CODE, immediately press the SET button sensor so that it emits a rapid flashing of the LED CODE until that the light the awning flashes one time;

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 MC8

► 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 MC8, 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).

04. CONTROL BOARD MC8

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. After the limit switches fully tuned, set working time/motor.

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

Programming time of motor with limit switch in the directions opening / closing is performed as follows:

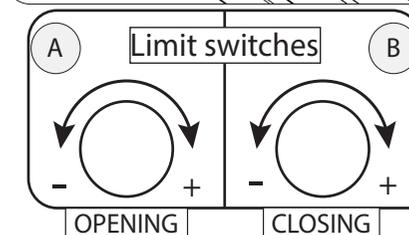
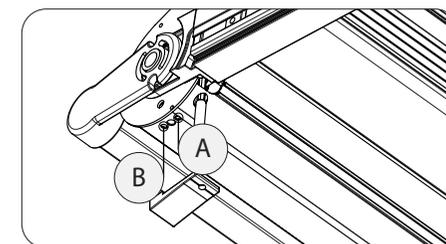
With open awning and the two limit switches regulated opening / closing, the **SEL** button, position the T.MOT LED flash and press and hold the **SET** button until the awning close and the motor stops by limit switch.

Wait another 2 seconds and release the **SET** button and the LED will light T.MOT and motor time will be programmed.

► 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.



In this example, the motor is installed on the left. If the motor is installed right, reverses the position (opening becomes B and closing A and - / + reverse).

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MENU 2		
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 without access to control board)

Programming a new remote control

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.

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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 (7 codes), repeating the programming operation, all indicator LEDs will flash quickly, signaling that are not possible other memorizations.

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.	▷ Verify if the quantity of screws is sufficient and are indicated in this manual (page 03.B).
The awning not stay leveling after opening.	Level the fabric.	▷ Verify the level of fabric .
The top does not close completely.	Detuning the top or limit switch.	▷ Adjust the limit switches of the motor (page 11.B)
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.
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 .

06. CONNECTIONS TO CONTROL BOARD

SCHEME OF CONNECTIONS (CONTROL BOARD MC8) ◀

