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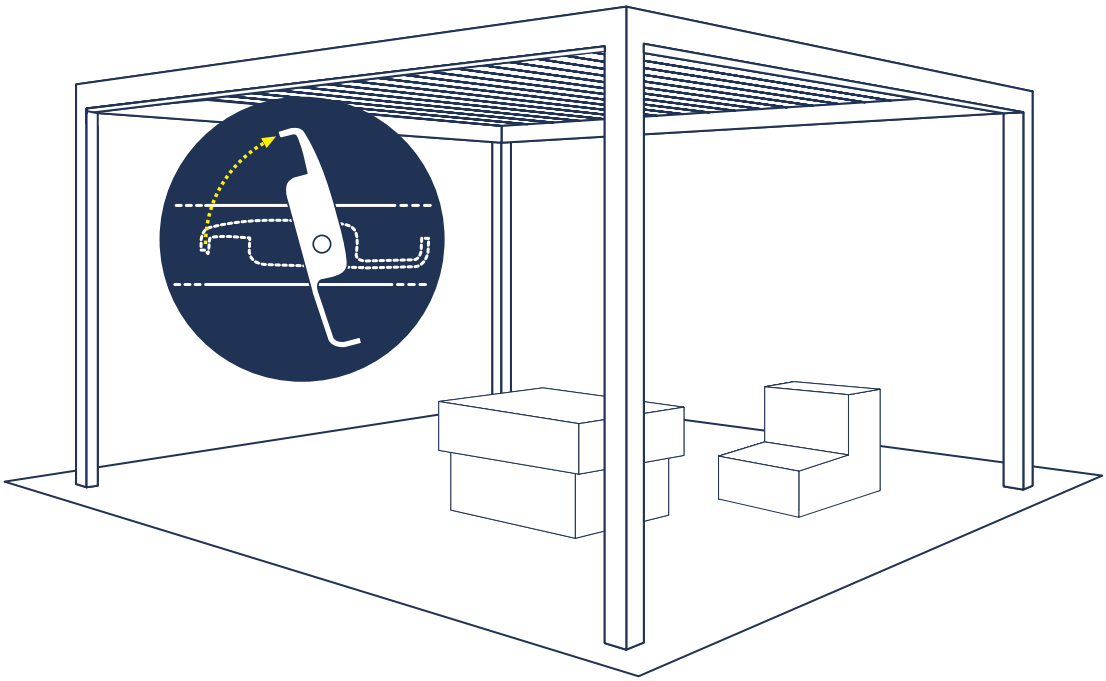
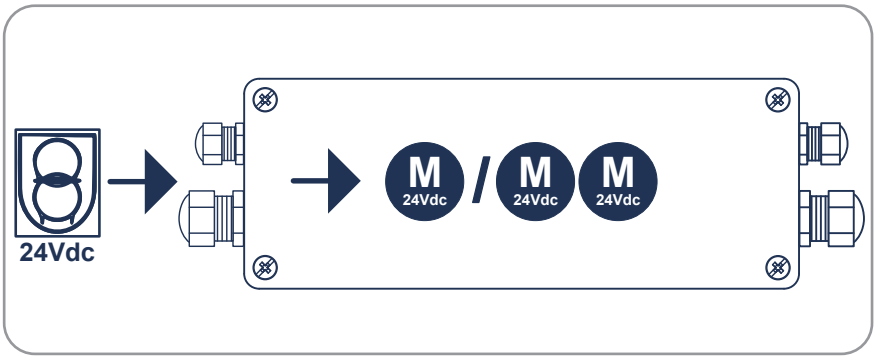
CE

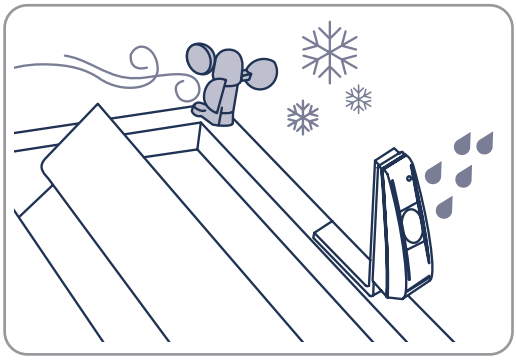
EN **24VDC CONTROL UNIT WITH RADIO RECEIVER TO CONTROL ONE OR TWO 24V MOTORS FOR ADJUSTABLE SLATS**

Product code **TVPLA868CC2S2AL** *(h = 74mm)*



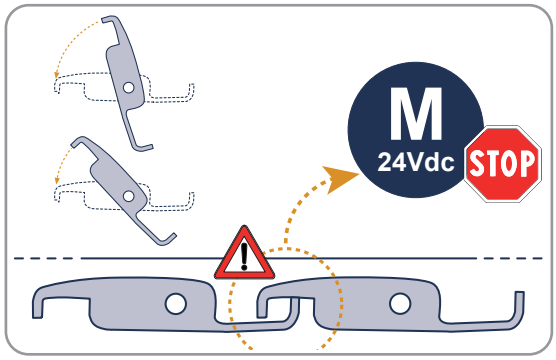


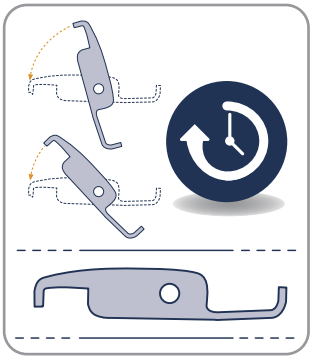
Independent or **synchronized** control of motor outputs.

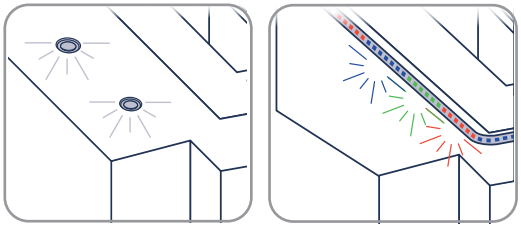


Inputs for **rain**, **wind** and **temperature** (for ice) sensors. Combination of rain and temperature sensors to detect **snow**.

Self-learning procedure for **limit switches** and **working times**.







LED CARD (optional) to control the **1-colour**, **RGB** or **RGBW** 24Vdc LED lights.

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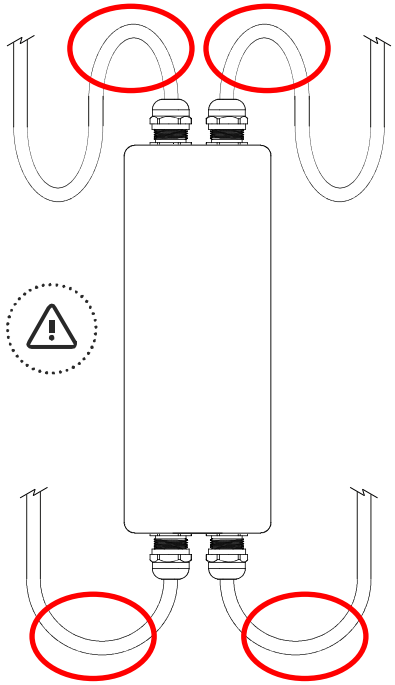
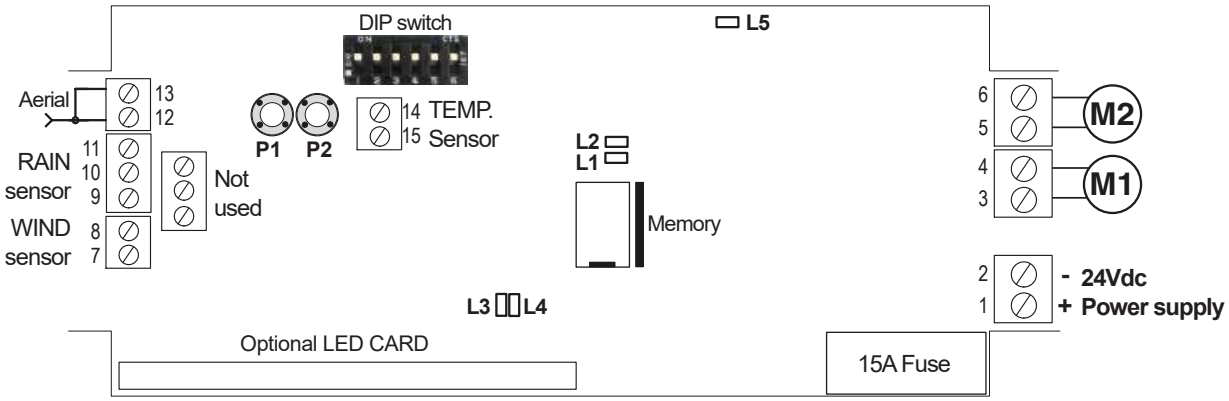
WARNINGS

The product at issue must be installed, commissioned and maintained only by licensed and authorised people, respecting the laws concerning the automatic covers. The system is powered by 24Vdc. Before the connection to the power supply make sure that the sensors and motors are correctly connected. A faulty connection of the motors (polarity inversion) could damage them together with the connected mechanical elements. The power supply must supply the required voltage and current according to the characteristics of the system. The power supply must be compliant with IEC60950-1 and must be protected against the short-circuit and over-voltage. Use a 2x1.5mm cable to connect the motors and the control unit for length up to 6m, or 2x2.5mm cable for longer segments. PRODUCT DISPOSAL: at the end of this product's useful life, it must not be disposed of as domestic waste, but must be taken to a collection centre for waste electrical and electronic equipment. To prevent infiltration of water, wire the product as follows:



The manufacturer, Teleco Automation s.r.l, declares that the type of radio equipment is compliant with Directive 2014/53 / EU. The full text of the EU compliance declaration is available at the following Internet address: www.telecoautomation.com/ceIn the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.

1 CONNECTIONS, ADJUSTMENTS AND CONTROL UNIT WARNINGS



ATTENTION! The electronic board is protected by a **15A** fuse.
The maximum allowed power, including the plug-in LED controller board, is **240W**.

LED	COLOUR	STATUS	MEANING
L1	RED	**ON** until next manoeuvre	MOTOR 1: Limit switch or alarm
L2	RED	**ON** until next manoeuvre	MOTOR 2: Limit switch or alarm
L3	BLUE	**ON**	Synchronized mode activated
		One *flash every second*	Synchronized mode activated (*during configuration*)
		One *flash every 2 s*	Independent mode activated (*during configuration*)
L4	RED	***One*** *flash every 10 s*	Survival alarm (par. **4.1**)
		Two *flash every 10 s*	Wind alarm (par. **4.2**)
		Three *flash every 10 s*	Snow alarm (par. **4.3**)
		Four *flash every 10 s*	Rain alarm (par. **4.4**)
		Five *flash every 10 s*	After Rain (par. **4.5**)
		Six *flash every 10 s*	Temperature alarm (par. **4.6**)
		Five *flashes*	Unexpected absorption of one motor in synchronized mode
		Six *flashes*	Built-in motor limit switch activated
		Seven *flashes*	Motor stopped by current absorption over the threshold
		Eight *flashes*	Safety limit switch
		Ten *flashes*	One motor is short-circuited
		One *flash every second*	Survival deactivate
		One *flash every 2 s*	Rain sensor deactivate
		One *flash every 3 s*	Temperature sensor deactivate
L5	RED	**ON**	Power ON

☐ = *Weather sensor alarms (from higher to lower priority)* ▩ = *MOTOR alarms*

1	+24Vdc POWER SUPPLY
2	POWER SUPPLY GND
3	MOTOR 1 (OPEN)
4	MOTOR 1 (CLOSE)
5	MOTOR 2 (OPEN)
6	MOTOR 2 (CLOSE)
7	WIND SENSOR (BROWN)
8	WIND SENSOR (BLUE)
9	RAIN SENSOR (WHITE, +12Vdc)
10	RAIN SENSOR (BLUE, SIGNAL)
11	RAIN SENSOR (YELLOW, GND)
12	AERIAL RF
13	AERIAL GND
14	TEMPERATURE SENSOR (BLACK)
15	TEMPERATURE SENSOR (WHITE)

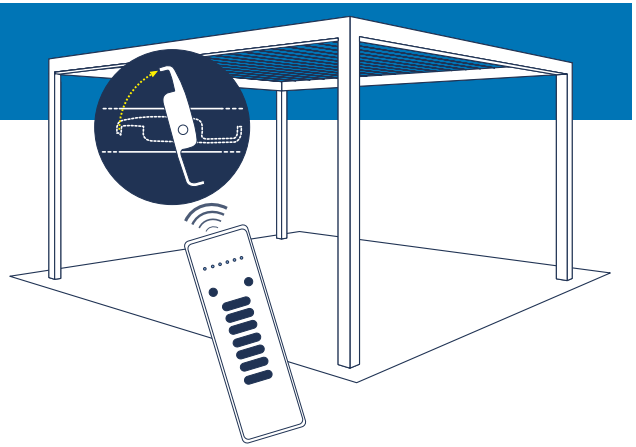
DIP	MEANING
1 - 2 - 3	Setting of wind sensor threshold (see par. **4.2**)
4 - 5	Motor control mode (see par. **2.1, 2.2, 2.3)**
6	Maximum motor current threshold set during configuration (see par. **2.4**)

▩ = *It takes effect* ***DURING*** *configuration*

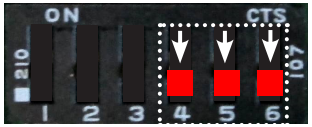
FIRST POWER ON: at first power-on, the system is waiting to be programmed with the memorization of at least one transmitter (par. **3**) and the configuration of the motors and relative working time (see below).

MOTOR CONFIGURATION: Identify the correct product application from the 3 given below and follow the relative configuration procedure.
Attention: if the wrong application is selected, the configuration procedure must be repeated for the correct application.

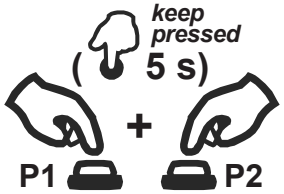
2.1 PERGOLA WITH 1 MOTOR



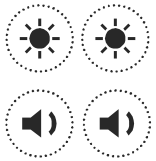
1. MOTOR CONFIGURATION



DIP4=**OFF**
DIP5=**OFF**
DIP6=**OFF**



Press **P1** and **P2** simultaneously and hold for **5 s**

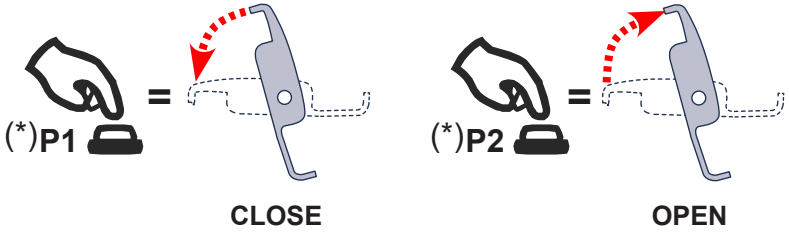


··· *L3 flashes*

··· *Continuous sound*

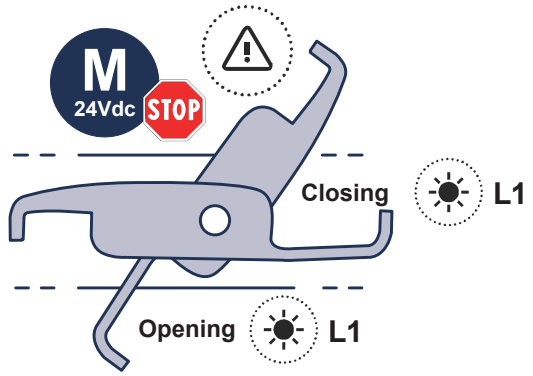
DIRECTION

(*) Maximun time with the key pressed 90s.



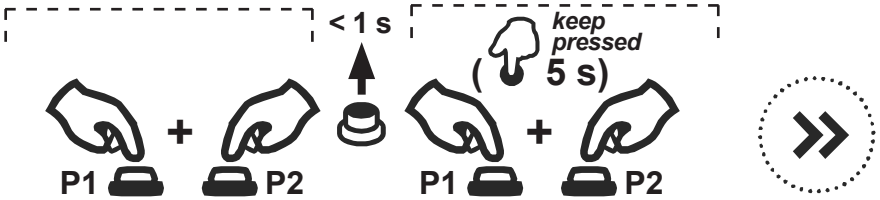
If the direction is wrong, invert the motor wires.
Note: Time out after 30s or pressing the push button.

LIMIT SWITCHES

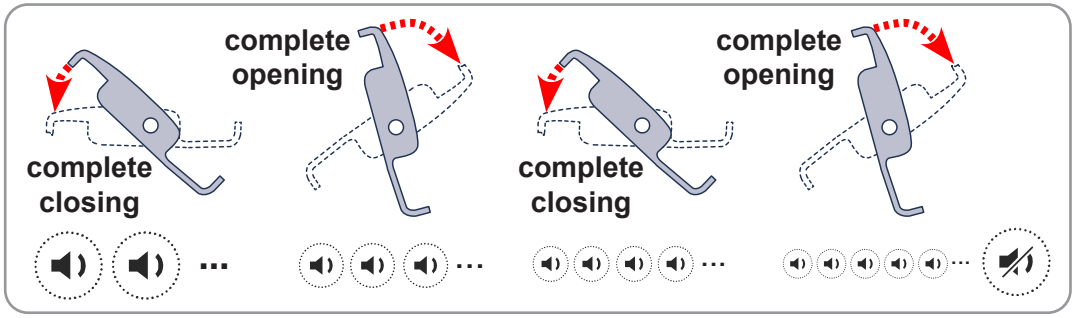


Check that movement stops when the limit switch is reached **(L1 ON)**
If it doesn't, change the threshold as per ***PAR 2.4*** and repeat.

2. SELF-LEARNING OF LIMIT SWITCHES: before starting the procedure, position the structure in the maximum desired position.



Press **P1** and **P2** simultaneously **twice** in quick succession and hold them the second time for **5 s**

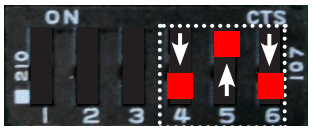


ATTENTION:

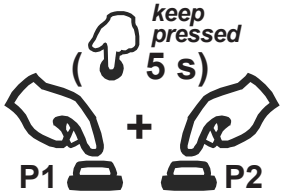
***DO NOT** change the DIP configuration. This change would be signalled by a new intermittent sound and the flashing of L3, and would require a new configuration procedure.*

2.2 PERGOLA WITH 2 SYNCHRONIZED MOTORS

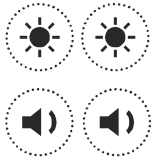
1. MOTOR CONFIGURATION



DIP4=**OFF**
DIP5=**ON**
DIP6=**OFF**



Press **P1** and **P2** simultaneously and hold for **5 s**

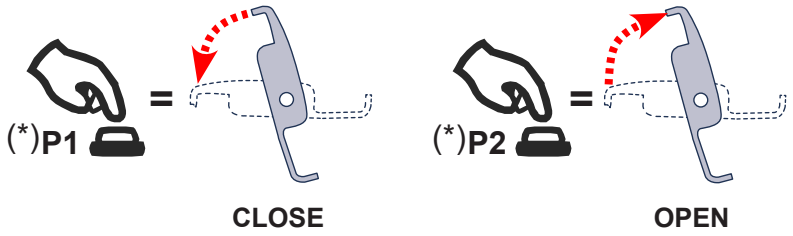


··· *L3 flashes*

··· *Continuous sound*

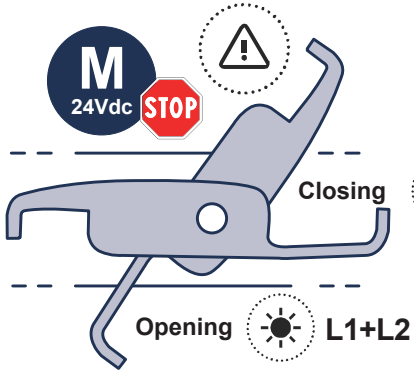
DIRECTION

(*) Maximun time with the key pressed 90s.



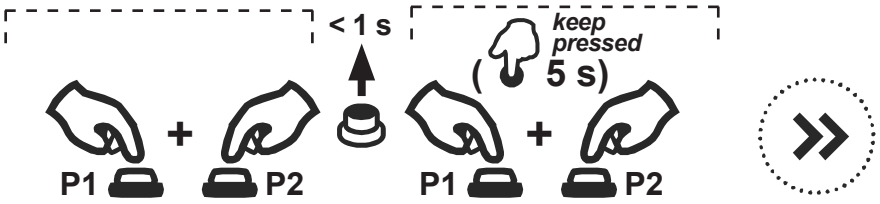
If the direction is wrong, invert the motor wires.
Note: Time out after 30s or pressing the push button.

LIMIT SWITCHES



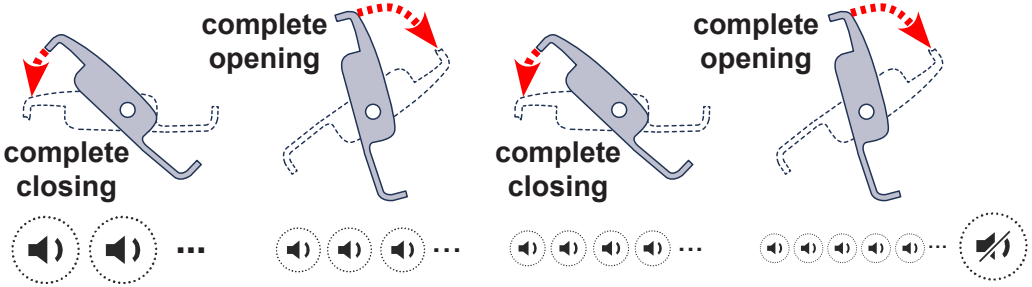
Check that movement stops when the limit switches are reached **(L1 and L2 ON)**
If it doesn't, change the threshold as per ***PAR 2.4*** and repeat.

2. SELF-LEARNING OF LIMIT SWITCHES: before starting the procedure, position the structure in the maximum desired position.



Press **P1** and **P2** simultaneously **twice** in quick succession and hold them the second time for **5 s**

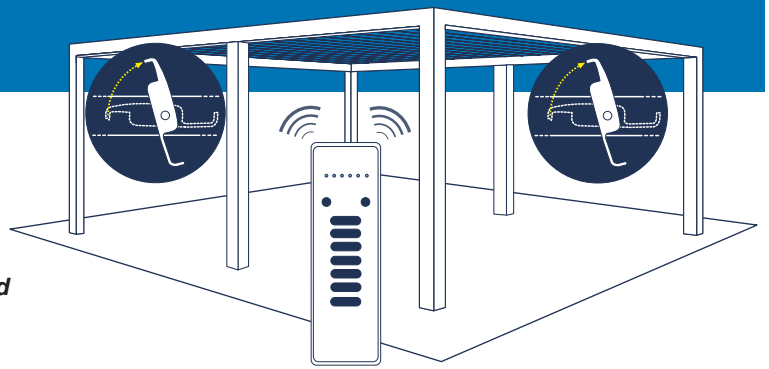
*Together **MOTOR 1** and **MOTOR 2***



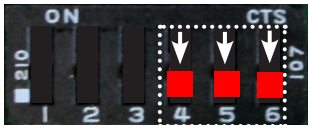
ATTENTION:

***DO NOT** change the DIP configuration. This change would be signalled by a new intermittent sound and the flashing of L3, and would require a new configuration procedure.*

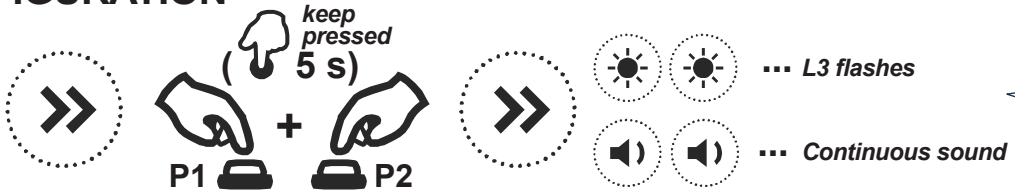
2.3 PERGOLA WITH 2 INDEPENDENT MOTORS



1. MOTOR 1 CONFIGURATION



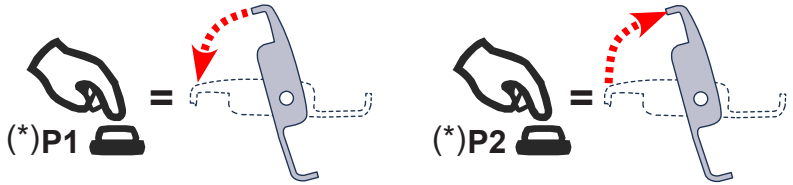
DIP4=**OFF**
DIP5=**OFF**
DIP6=**OFF**



Press **P1** and **P2** simultaneously
and hold for **5 s**

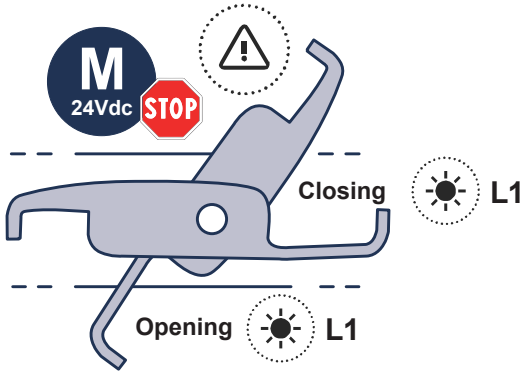
DIRECTION

(*) Maximun time with the key pressed 90s.



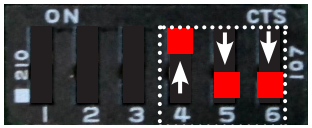
If the direction is wrong, invert the motor wires.
Note: Time out after 30s or pressing the push button.

LIMIT SWITCHES



Check that movement stops when the limit switch is reached **(L1 ON)**
If it doesn't, change the threshold as per ***PAR 2.4*** and repeat.

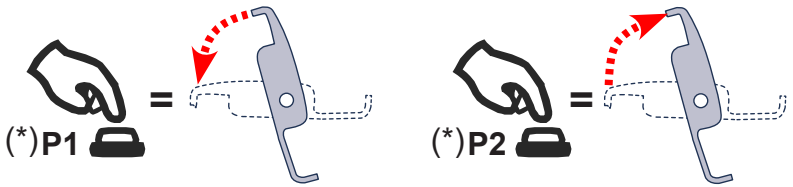
2. MOTOR 2 CONFIGURATION



DIP4=**ON**
DIP5=**OFF**
DIP6=**OFF**

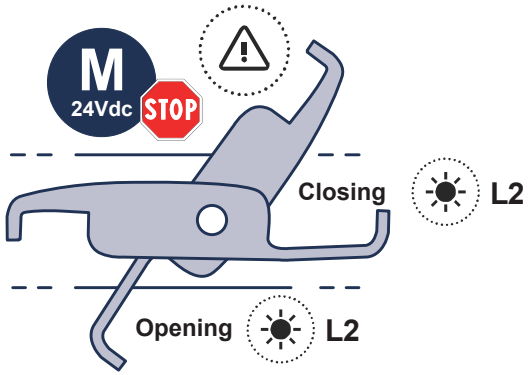
DIRECTION

(*) Maximun time with the key pressed 90s.



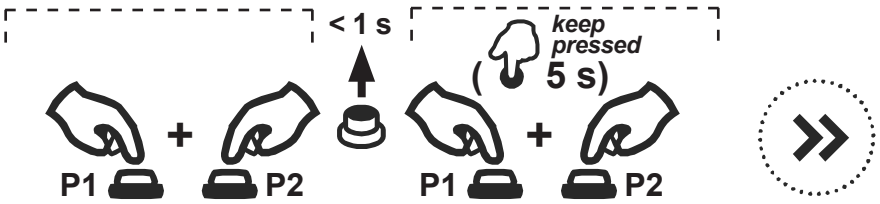
If the direction is wrong, invert the motor wires.
Note: Time out after 30s or pressing the push button.

LIMIT SWITCHES

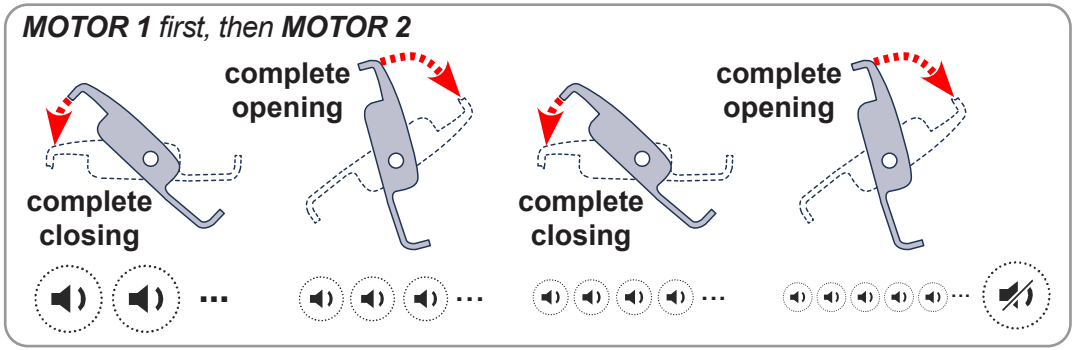


Check that movement stops when the limit switch is reached **(L2 ON)**
If it doesn't, change the threshold as per ***PAR 2.4*** and repeat.

3. SELF-LEARNING OF LIMIT SWITCHES: before starting the procedure, position the structure in the maximum desired position.



Press **P1** and **P2** simultaneously **twice** in quick succession and hold them the second time for **5 s**

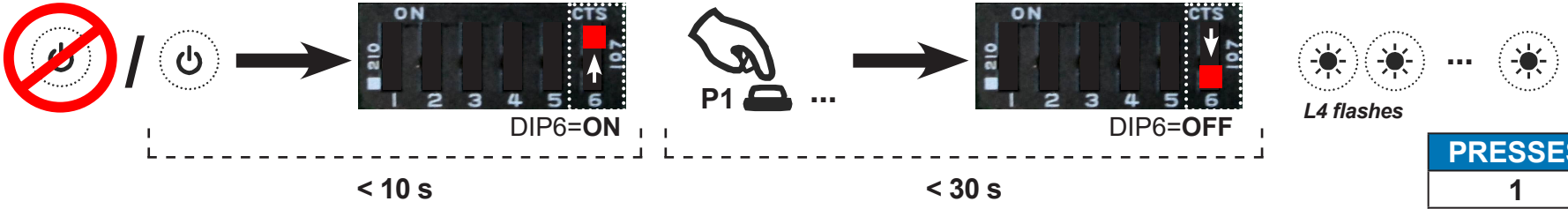


ATTENTION:

***DO NOT** change the DIP configuration. This change would be signalled by a new intermittent sound and the flashing of L3, and would require a new configuration procedure.*

2.4 SETTING OF THE CURRENT THRESHOLD DURING CONFIGURATION

The control unit uses a current threshold for motor stop. The thresholds may therefore be changed during configuration according to the selected mode (**DIP4-5**):



1. Turn the control unit OFF then ON again.
2. Within **10 seconds** from power ON, set **DIP6** to **ON**.

WITHIN 30 SECONDS:

3. Press **P1** as many times as the desired level, from **1** (minimum = 0.5 A) to **12** (maximum = 6.0 A).
4. Set **DIP6** to **OFF** to store the new value.

L4 will then flash as many times as the stored level. If **P1** is not pressed within 30 seconds,the procedure is automatically ended and the threshold remains unchanged.

***ATTENTION:** at the end of the procedure, DIP6 must be set to OFF and remain in that position during standard operation of the control unit.*

(*) Configuration for 2 independent motors, first change the threshold to M1 and then M2 by setting the Dip as shown in the table.

DIP4	DIP5	MOT.
OFF	OFF	M1
ON	OFF	M2

PRESSES	Threshold (A)
1	0.5
2	1.0
3	1.5
4	2.0
5	2.5
6	3.0
7	3.5
8	4.0
9	4.5
10	5.0
11	5.5
12	6.0

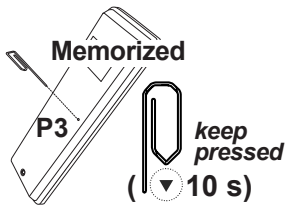
= default value, unless otherwise indicated on the technical label of the product.

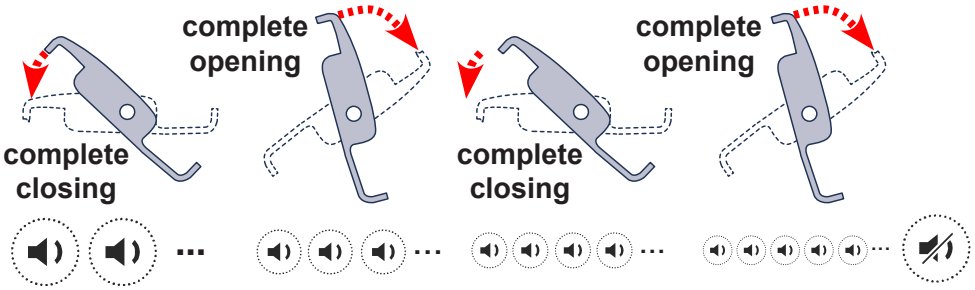
2.5 QUICK LEARNING OF LIMIT SWITCH

If the following have been already programmed
- motor control mode
- the correct motor direction
- at least one transmitter for each of the independent motor output
- current threshold to be applied

it is possible to carry out the self-learning of limit switches **without accessing the control unit**.

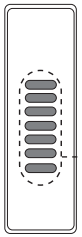
Test the movement and the direction of the motors by means of the memorized transmitter, after this keep the button **P3** of the transmitter pressed for **10 s**.





- Pergola with 2 synchronized motors: *Together **MOTOR 1** and **MOTOR 2***
- Pergola with 2 independent motors: ***MOTOR 1** first, then **MOTOR 2***

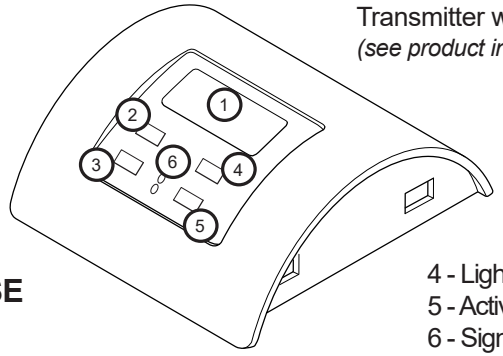
A



7/42 CHANNEL TRANSMITTER

- CH1 — 0 % (Closed)
- CH2 — 33 %
- CH3 — 66 %
- CH4 — 100 % (Open)
- CH5 — Open (hold-to-run)
- CH6 — STOP
- CH7 — Close (hold-to-run)

D



GREEN MOUSE SCREEN

Transmitter with **built-in light sensor**
(see product instructions for details)

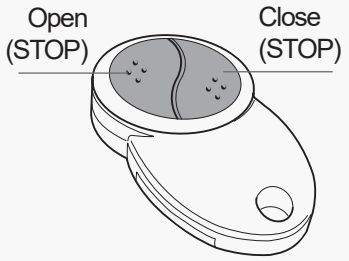
1 - Light sensor
2 - OPEN button
3 - CLOSE button
4 - Light level memorization button
5 - Activation/deactivation light control button
6 - Signal and programming LED

B

AUTOMATIC COMMANDS (2 or 3 BUTTONS)

- CH1 — Open (STOP)
- CH2 — Close (STOP)
- CH3 — Open (STOP)
- CH4 — Close (STOP)
- CH5 — Open
- CH6 — STOP
- CH7 — Close

- CH5 — Open
- CH6 — STOP
- CH7 — Close

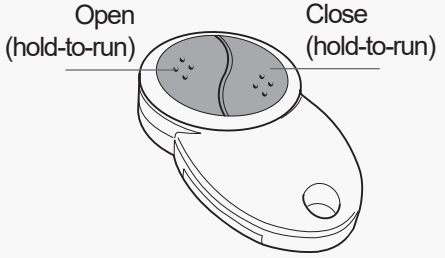


C

HOLD-TO-RUN COMMANDS (2 or 3 BUTTONS)

- CH1 — Open (hold-to-run)
- CH2 — Close (hold-to-run)
- CH3 — Open (hold-to-run)
- CH4 — Close (hold-to-run)
- CH5 — Open (hold-to-run)
- CH6 — STOP
- CH7 — Close (hold-to-run)

- CH5 — Open (hold-to-run)
- CH6 — STOP
- CH7 — Close (hold-to-run)



7/42 channel transmitter

3/18 channel transmitter

2 channel transmitter

3.1 RADIO CODES MEMORIZATION

If the system is configured as **pergola with 2 independent motors**, it associates memorization procedure using **P1** to *motor 1* and memorization procedure using **P2** to *motor 2*. **Note:** the same radio code can in any case be associated with both motors.
In the other configurations memorization is possible using either **P1** or **P2**.
The condition of a full memory is signaled with 3 slow beeps.

TYPE OF MEMORIZATION (see description page **9**)		**P1** or **P2**	*keep pressed*	*continuous sound*	
A	**7/42 CHANNEL TRANSMITTER**	* 2x		Press any button of the 7/42 channel transmitter	
B	**AUTOMATIC COMMANDS (2 or 3 BUTTONS)**	* 3x		Press the button of the transmitter relative to the code to be memorized.	*intermittent sound*
C	**HOLD-TO-RUN COMMANDS (2 or 3 BUTTONS)**	* 4x			
D	**GREEN MOUSE SCREEN**	* 11x		Press the button **2** or **3** of Green Mouse Screen.	

Press **P1** or **P2** as many times as required by the type of desired memorization and hold the last time. The buzzer emits a continuous sound.
Press the button of the transmitter relative to the code to be memorized. Successful memorization is indicated by the intermittent sound of the buzzer

** The buzzer will make a beep each time the button is pressed. No more than a second should pass between one press to another one.*

3.2 SENSORS RADIO CODE MEMORIZATION

The condition of a full memory is signaled with 3 slow beeps.

TYPE OF MEMORIZATION	P1 or P2	keep pressed	continuos sound
** WIND SENSOR (TVSW868A03 only wind)	* 14x	***	Activate the sensor. Refer to instruction's sensor.
** RAIN SENSOR (RAIN103)	* 15x	***	Activate the sensor. Refer to instruction's sensor. (Rain Channel)

intermittent sound

Press **P1** or **P2** as many times as required by the type of desired memorization and hold the last time. The buzzer emits a continuous sound.
Activate the sensor according to the associated instructions. Successful memorization is indicated by the fast intermittent sound of the buzzer

3.3 RADIO CODE DELETION

If the system is configured as **pergola with 2 independent motors**, use **P1** to delete associations with *motor 1* and **P2** for *motor 2*.
Carry out deletion with either **P1** and **P2** if the code is associated with both motors.
In the other configurations deletion is possible using either **P1** or **P2**.

TYPE OF DELETION	P1 or P2	keep pressed	intermittent sound	
SINGLE RADIO CODE	* 5x		Press the button of the transmitter relative to the code to be deleted.	continuous sound

Press **P1** or **P2 5 times** and hold. The buzzer emits an intermittent sound. Press the button of the transmitter relative to the code to be deleted within 10 seconds.
Successful deletion is indicated by a continuous sound of the buzzer.

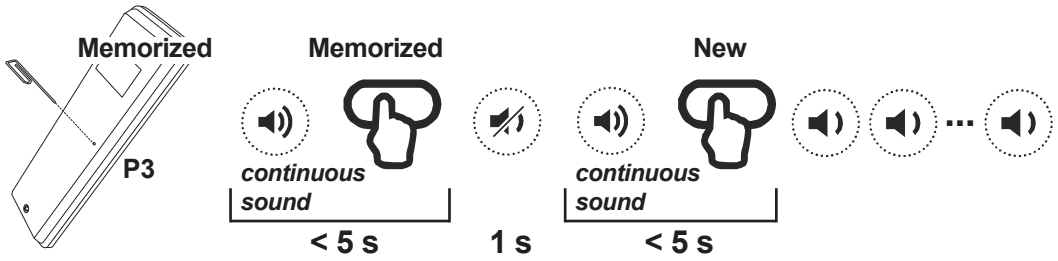
ALL THE RADIO CODES	* 6x	keep pressed (10 s)	intermittent sound	continuous sound

Press **P1** or **P2 6 times** and the sixth time **hold for 10 seconds**. The buzzer emits a fast intermittent sound. Release when the sound becomes continuous.

** The buzzer will make a beep each time the button is pressed. No more than a second should pass between one press to another one.*
*** The last sensor memorization deletes the previous one.*
**** See instructions of the sensor*

3.4 REMOTE MEMORIZATION OF OTHER RADIO CODES

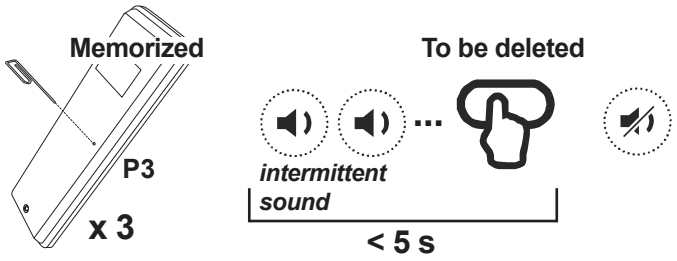
Note: *The button P3 is located inside the transmitter. The added radio code will have the same functions as the code used for memorization. This procedure is compatible with any type of transmitter.*



Press button **P3** of the **memorized** transmitter and hold. The buzzer emits a continuous sound. Press a button relative to an **already memorized** code. The buzzer stops for 1 second and then starts the continuous sound again. Press the button relative to the **new** code to be memorized. Successful memorization is indicated by the intermittent sound of the buzzer.

3.5 REMOTE DELETION OF A RADIO CODE

Note: *The button P3 is located inside the transmitter. If the radio code was associated with both motors, carry out the deletion twice.*



Press the button **P3** of the **memorized** transmitter **3 times** and hold. The buzzer emits a slow intermittent sound. Press a button relative to the code **to be deleted** within 5 seconds. Upon completion of deletion, the buzzer will stop.

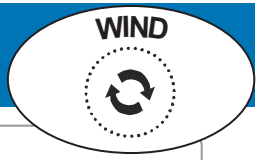
4 ALARMS PRIORITY

The following alarms are ordered in a sequence of precedence, from highest priority to lowest priority.

4.1 SURVIVAL ALARM

L4 

Factory setting
ACTIVATED



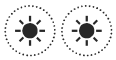
ALARM ACTIVATED when
it does not receive a signal from the sensor associated for a time of 60 minutes

What happens with ALARM ACTIVATED
The control unit directs the profiles to 50% of the entire opening.
The control unit executes **hold - to - run command**.

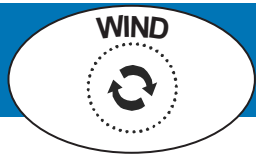
ALARM NOT ACTIVE when
When it receives the survival signal from the sensor or the sensor is deleted from the memory.

STOP button of a memorized trasmitter *		 *keep pressed* **(2 s)**		
ACTIVATION	** 5x		Press the "**STOP**" button of a memorized (7/42 or 3-channel) transmitter **5 times** and hold for **2 s.**	***  ***4s continuos sound***
DEACTIVATION	** 5x			***  ***L4 flashes every second***

4.2 WIND SENSOR

L4 

Condizioni di fabbrica
ATTIVATO



The control unit is compatible with the **ANEM4** wired sensor **(4 pulse anemometers)** and the **TVSW868A03** radio sensor.
For the **ANEM4** wired sensor, set the threshold by using the **DIP 1-2-3 (see table)**.
For the wireless wind sensor **(TVSW868A03)** refer to the manual.

ALARM ACTIVATED when
The detected speed is higher than the set threshold. (See on the side).

What happens with ALARM ACTIVATED
The control unit tilts the pergola slats at **33%** of full opening. The control unit executes **no command.**

ALARM NOT ACTIVE when
The sensor has detected a lower speed than the set threshold for 60 seconds.

DIP1	DIP2	DIP3	Km/h	Mph
OFF	OFF	OFF	40	25
OFF	OFF	ON	45	28
OFF	ON	OFF	50	31
OFF	ON	ON	55	34
ON	OFF	OFF	60	37
ON	OFF	ON	65	40
ON	ON	OFF	70	43
ON	ON	ON	75	46

** The motors must be stopped.*
*** The buzzer will make a beep each time the button is pressed. No more than a second should pass between one press to another one.*
**** The motors make short movements*

4.3 SNOW CONDITION

L4 ☀ ☀ ☀

Factory setting ACTIVATED

SNOW

To manage the alarm associated with snow, the temperature (par. 4.6) and the rain sensors (par. 4.4) must be both activated.

ALARM ACTIVATED when	What happens with ALARM ACTIVATED	ALARM NOT ACTIVE when
The measured temperature is below 2 °C and rain has been detected.	The control unit tilts the slats to **66%** of full opening. The control unit only executes **hold-to-run commands**.	The measured temperature is above 3 °C or rain is no longer detected.

4.4 RAIN SENSOR

L4 ☀ ☀ ☀ ☀

Factory setting ACTIVATED

RAIN

ALARM ACTIVATED when	What happens with ALARM ACTIVATED	ALARM NOT ACTIVE when
The sensitive surface of the sensor detects drops of water	The control unit completely **CLOSES** the pergola slats. The control unit executes **no command**.	The sensor doesn't detect any drop.

STOP button of a memorized trasmitter *		*keep pressed* **(10 s)**		
ACTIVATION	1x	STOP	Press the "**STOP**" button of a memorized (7/42 or 3-channel) transmitter **1 time** and hold for **10 s.**	*** *4 s continuos sound*
DEACTIVATION	1x	STOP		*** *L4 flashes every 2 s*
Receiver P2 button *		*keep pressed* **(5 s)**		
ACTIVATION (only if the sensor is connected)	** 7x		Press **7 times the button P2** and hold for **5 s.**	*** *4 s continuos sound*
DEACTIVATION	** 7x			*** *L4 flashes every 2 s*

** The motors must be stopped.*

*** The buzzer will make a beep each time the button is pressed. No more than a second should pass between one press to another one.*

**** The motors make short movements*

4.5 AFTER RAIN

L4 ☀ ☀ ☀ ☀ ☀

Factory setting ACTIVATED

RAIN

System operation AFTER rain alarm (draining of water): once the rain alarm has ended, for the following **6 hours** the control unit, upon receiving an automatic movement command from the transmitter, will tilt the pergola slats to **33%** to allow water to drain off. For **4 minutes** the control unit can only execute hold-to-run commands, thereby exiting from the alarm status.

4.6 TEMPERATURE SENSOR

L4 ☀ ☀ ☀ ☀ ☀ ☀

Factory setting ACTIVATED

TEMPERATURA t°

The temperature sensor (NTC 10K/3435K) activates whenever there is danger of ice forming.

ALARM ACTIVATED when	What happens with ALARM ACTIVATED	ALARM NOT ACTIVE when
The measured temperature is below 2 °C and the slats are **closed**.	The control unit tilts the pergola slats to **10%** of full opening.	The measured temperature is above 3 °C or any command is received.

STOP button of a memorized trasmitter *		*keep pressed* **(2 s)**		
ACTIVATION (only if the sensor is connected)	** 10x STOP STOP ..... STOP	STOP	Press the "**STOP**" button of a memorized (7/42 or 3-channel) transmitter **10 times** and hold for **10 s.**	*** *4 s continuos sound*
DEACTIVATION	** 10x STOP STOP ..... STOP	STOP		*** *L4 flashes every 3 s*
Receiver P1 button *		*keep pressed* **(5 s)**		
ACTIVATION (only if the sensor is connected)	** 7x		Press **7 times the button P1** and hold for **5 s.**	*** *4 s continuos sound*
DEACTIVATION	** 7x			*** *L4 flashes every 3 s*

** The motors must be stopped.*

*** The buzzer will make a beep each time the button is pressed. No more than a second should pass between one press to another one.*

**** The motors make short movements*

4.7 CHANGE OF THE AUTOMATIC ALARM ANGLES

Use the following procedures to change the default angles of the pergola slats associated with the alarms.
The system must have been configured and at least one transmitter memorized.

		P1 or **P2** *	*keep pressed* (5 s)	
WIND alarm angle	 **desired position** Put the slats to the desired angle, then:	** x8		*continuous sound* 1 s — **complete closing**
TEMP. alarm angle		** x9		*continuous sound* 2 s — **complete closing**
SNOW alarm angle		** x13		*continuous sound* 4 s — **complete closing**
Reset default angles		** x10		*continuous sound* 3 s

Press **P1** or **P2** (**) as many times as required by the type of desired memorization and hold the last time.
The buzzer emits a continuous sound.

** The motors must be stopped.*
*** The buzzer will make a beep each time the button is pressed. No more than a second should pass between one press to another one.*

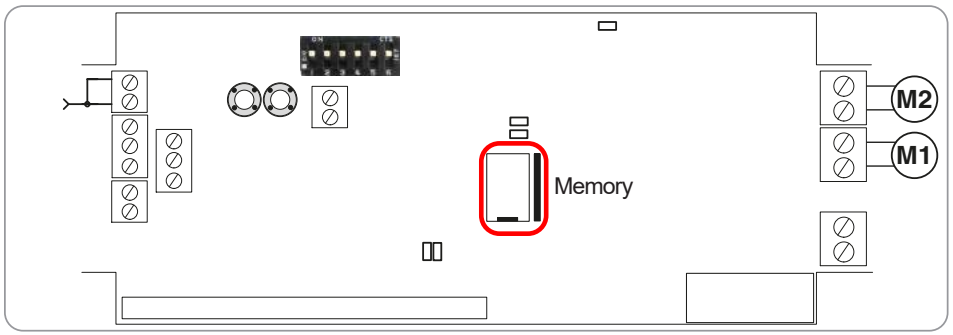
5.1 TROUBLESHOOTING (WHAT TO DO IF...)

Problem	Solution
At power-on, the control unit does not move the motors and emits no warning.	The system needs to be programmed (par. **2)**.
L3 flashes and an intermittent sound starts after configuration.	Repeat the procedure. At the end of it **DO NOT** change the **DIP4-5** setting.
The configuration procedure does not start upon pressing **P1** and **P2** twice.	**P1** and **P2** must be pressed simultaneously. There must be no more than 1 second between pressing the first and the second time.
During the manual movement test in the configuration procedure, the motors do not stop automatically at the limit stop.	Change the current threshold (pag. **2.4**) before continuing with configuration.
There's no continuous beep during transmitter memorization.	There must be no more than 1 second between pressing the buttons.
It is impossible to memorize a transmitter.	The radio code is already memorized or the memory is full.

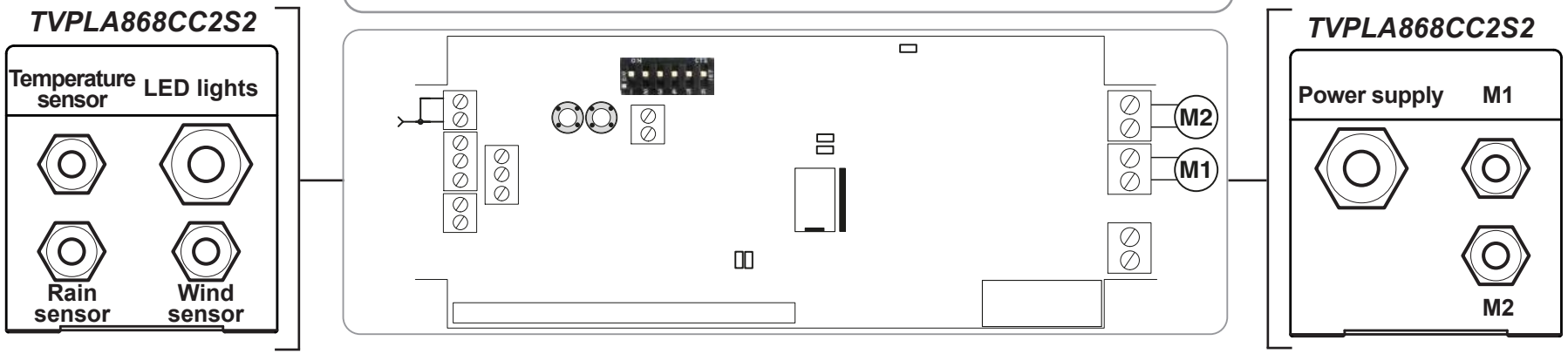
5.2 REPLACING THE CONTROL UNIT

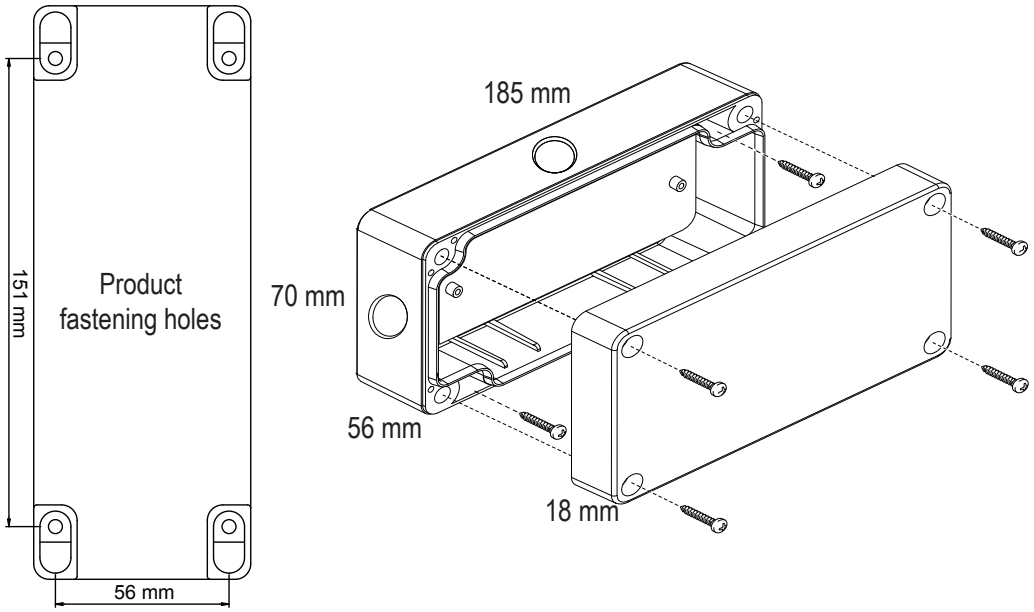
In the event of a defective control unit, if the provided memory (see below) is still working, it may be replaced without losing the configuration parameters.

To do this, the control unit must not be powered:
- insert the memory card of the defective control unit into the new one;
- set the DIP switches of the new control unit as they were in the old one;
- switch the system on.



ATTENTION! The electronic board is protected by a **15A** fuse. The maximum allowed power, including the plug-in LED controller board, is **240W**.

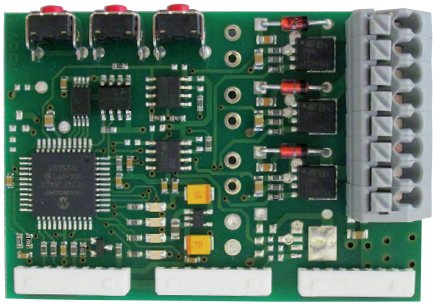




Power supply	**24Vdc**
Max. power for each output	**6.0A**
Maximum power applicable to the board	**240W**
Fuse (blade)	**15A**
Operating temperature range	**-20° / +45°C**
Reception frequency	**868.3 MHz**
Radio memory capability (transmitters)	**16**
Rain sensor power supply	**12Vdc (max.100mA)**
Anemometer	**4 pulses/rotation (ANEM4)**
Temperature probe	**NTC (R=10Kohm; B=3435K)**
Protection rating	**IP54**
Material of the box and its cover (Not suitable for direct UV exposure)	**Thermoplastic ABS**

ACCESSORIES

LED CARD to control the **1-colour**, **RGB** or **RGBW** 24Vdc LED lights.



TVSTRD00PSI24 - LED 1-colour
Independent or simultaneous control of 3 outputs.
24Vdc power supply from the PLA control unit (60W per output).

TVRGB00PSI24 - LED RGB (red, green, blue)
24Vdc power supply from the PLA control unit (60W per output).

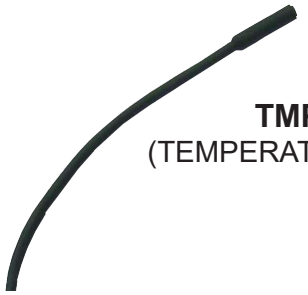
TVRGBW00PSI24 - LED RGB+W (red, green, blue + white)
Independent control of RGB and WHITE outputs, by means of separate memorization of transmitter channels.
24Vdc power supply from the PLA control unit (60W per output).

SENSORISTICS

TVSWxxxA03
(WIND sensor wireless)

ANEM4
(wired WIND sensor)

RAIN102/103
(RAIN sensor)



TMP150
(TEMPERATURE sensor)

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