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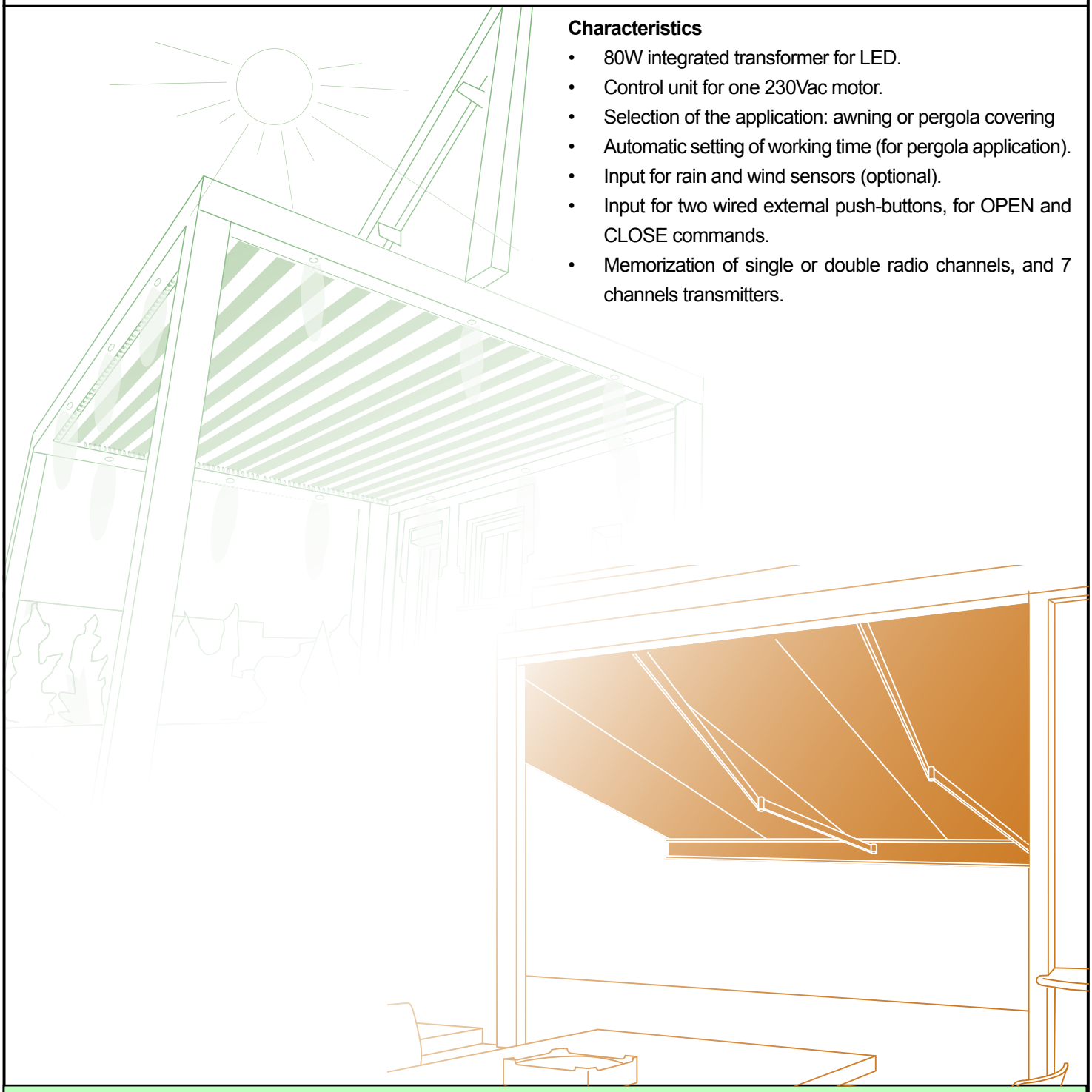
Radio receiver to control one 230Vac motor for awning or pergola covering. 80W integrated transformer to power 24Vdc LED.

Product codes:

TVPLT868C80T0	wired input (868.3MHz)
TVPLT916C80T0	wired input (916MHz)
TVPLT868C80TS	wired input, wind & rain sensors (868.3MHz)
TVPLT916C80TS	wired input, wind & rain sensors (916MHz)



Characteristics

- 80W integrated transformer for LED.
- Control unit for one 230Vac motor.
- Selection of the application: awning or pergola covering
- Automatic setting of working time (for pergola application).
- Input for rain and wind sensors (optional).
- Input for two wired external push-buttons, for OPEN and CLOSE commands.
- Memorization of single or double radio channels, and 7 channels transmitters.

Warning: The product must be installed only by qualified technician in accordance with the rules concerning the automatic covers. The system is powered by 230Vac.

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Warnings

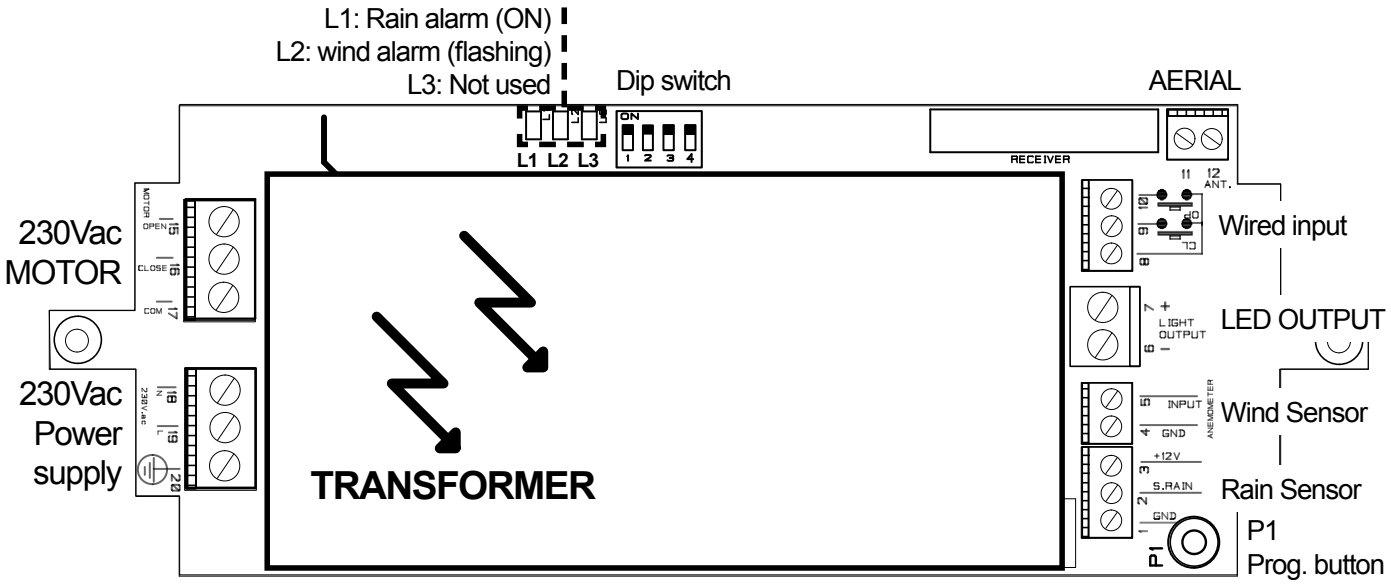
The above mentioned product must be installed only by qualified technical personnel in compliance with the standards of automatic openings. All connections must be rated for a single-phase power supply of 230V. For the disconnection from the power line, use an all-pole switch with contact with an opening of at least 3.5 mm.

Only suitable materials for the connections must be used to guarantee insulation that complies with current standards on the subject of electrical safety. The product executes just movement controls; all the necessary safety devices are to be seen separately.
Incorrect wiring will cause incorrect functioning impairing the safety purpose for which the product has been designed so that people injuries could occur; failure to follow instructions can cause personal injury and/or property damage.

Keep the 230V wires from the low voltage safety wires separately.
The earth-wires must be fixed by means of an additional fastening nearby the terminals; this fastening has to be done by qualified technical personnel during the installation phase.
The appliance has been tested with a power supply wire type H05VV-F; the power supply wires for outdoor use must have better characteristics than the ordinary wires type H05RN-F. The safety devices have to be in conformity with EN12978. The product is in conformity with the RAEE and RoHS directive.

Hereby Teleco automation s.r.l. declares that the product complies with the essential requirements and other relevant provisions, established by the Directive 1999/5/EC. The declaration of conformity can be consulted on the web site: *www.telecoautomation.com/ce*. In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.

1. Wiring and adjustments



	SIGNAL
1	RAIN SENSOR (YELLOW, GND)
2	RAIN SENSOR (BLUE, signal)
3	RAIN SENSOR (WHITE,12V)
4	WIND SENSOR (BLUE)
5	WIND SENSOR (BROWN)
6	LED OUTPUT (-)
7	LED OUTPUT (+24Vdc - max. 70W)
8	GND WIRED INPUT
9	CLOSE INPUT
10	OPEN INPUT
11	GND AERIAL
12	RF AERIAL

	SIGNAL
15	MOTOR OPEN
16	MOTOR CLOSE
17	MOTOR COMMON
18	NEUTRAL 230Vac
19	LINE 230Vac
20	EARTH CONNECTION

DIP1	DIP2	WIND SPEED (Km/h)
OFF	OFF	40
OFF	ON	50
ON	OFF	60
ON	ON	70

Only for “S” version

FUNCTIONING MODES: PERGOLA OR AWNING

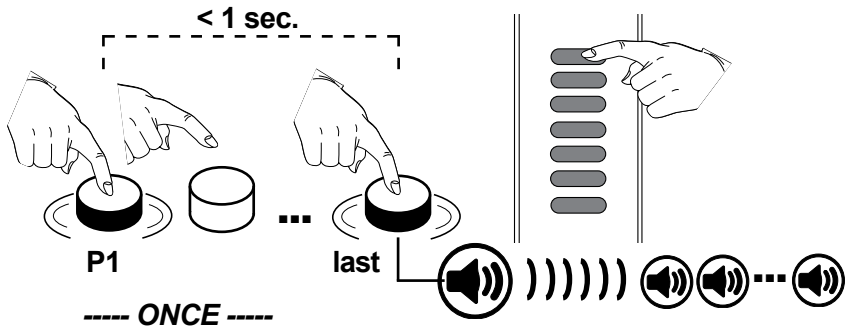
The control unit can be used for both pergola (louvre) and sun awning applications.
Choose the desired functioning mode by means of **DIP4**:

OFF	Application = Pergola
ON	Application = Awning

In case of pergola application it’s necessary to configure the working time with procedure 6 (pag.7)

2.1 Memorization of a single channel with OPEN-STOP-CLOSE function (MOTOR)

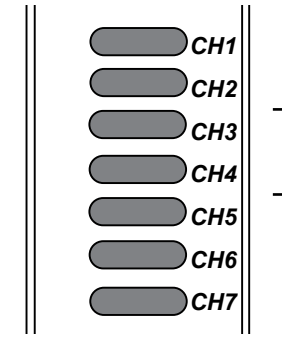
This configuration permits the control of the motor with a single channel of any transmitter.



- Press **once P1** keeping it pressed.
- The buzzer emits a continuous sound. Press any button of transmitter.
- Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

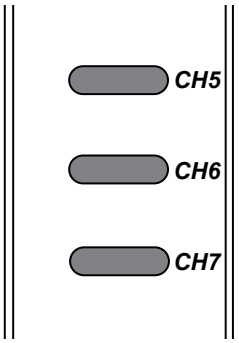
2.2 Memorization of a double channel (pair) with automatic command function (MOTOR)

This configuration permits the control of the motor with a transmitter of **at least** 2 channels.
Pressing a button the system stops if the motor is moving in the opposite direction.



Opening (STOP)
Closing (STOP)
Opening (STOP)
Closing (STOP)
Opening
STOP
Closing

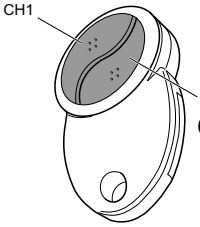
7 channels transmitter



Opening
STOP
Closing

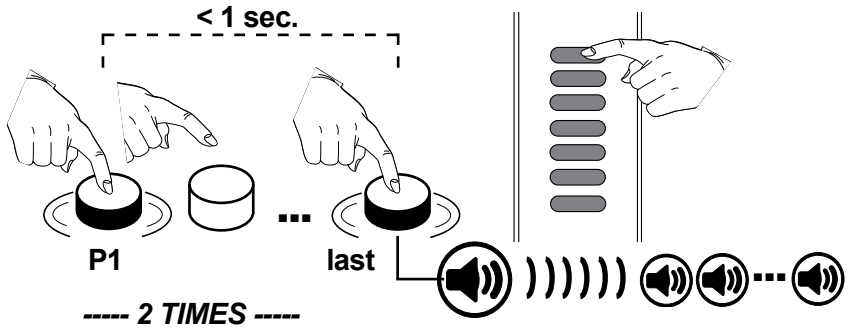
3 channels transmitter

Opening (STOP)



Closing (STOP)

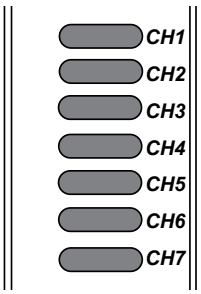
2 channels transmitter



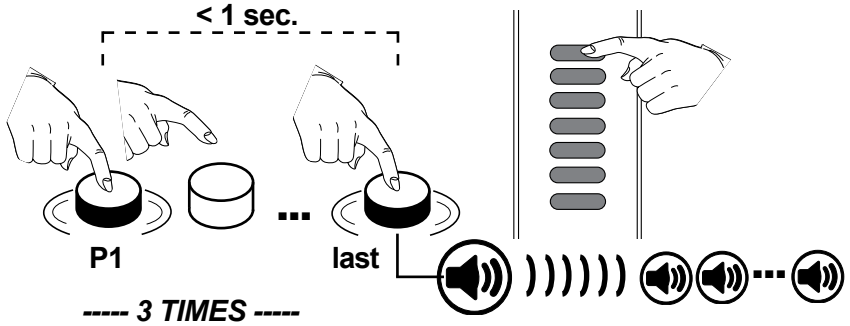
- Press **twice P1** keeping pressed the **second** time.
- The buzzer emits a continuous sound. Press any button of the pair to memorize.
- Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

2.3 Memorization of a 7 channels transmitter (MOTOR: only for pergola application)

This memorization permits the control of the motor with a 7 channel transmitter, in which every channel is connected to a single operation. **Attention:** in order to move the slats of the pergola to the angle associated to the buttons CH1..CH4 of transmitter, it's necessary configure the working time first, as explained in the procedure 6 at page 7.



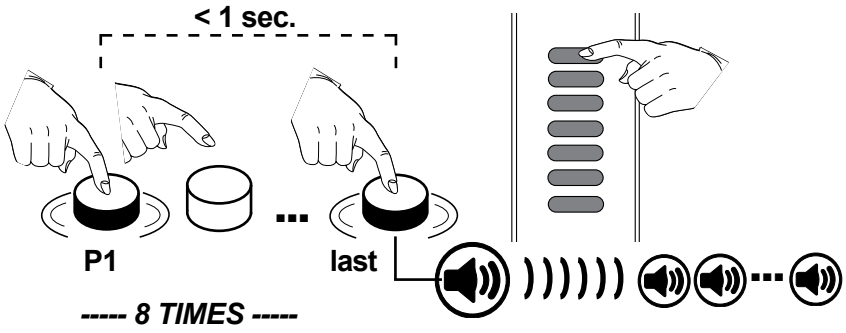
0 % (CLOSED)
50 %
70 %
100% (OPEN)
Hold-to-run opening
STOP
Hold-to-run closing



- Press **3** times **P1** keeping pressed the **third** time.
- The buzzer emits a continuous sound. Press any button of transmitter to memorize.
- Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

3.1 Memorization of a single channel with ON/OFF - DIM function (LED)

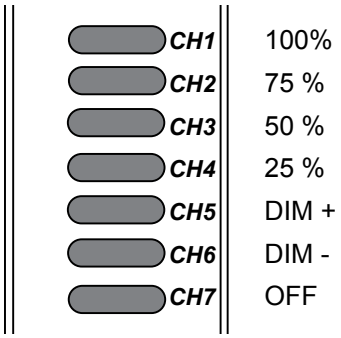
This configuration permits the control of the LED with a single channel of any transmitter. With short pulses (<800 ms.) turn the LED on and off; keeping the button pressed: increase or decrease the intensity.

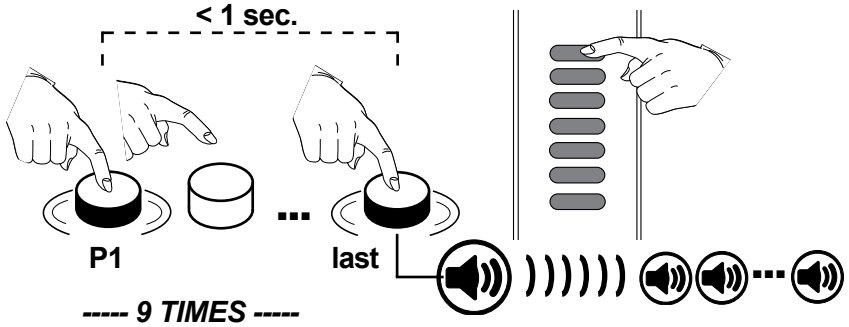


- Press **8** times **P1** keeping pressed the **eighth** time.
- The buzzer emits a continuous sound. Press any button of transmitter to memorize.
- Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

3.2 Memorization of a 7 channels transmitter (LED)

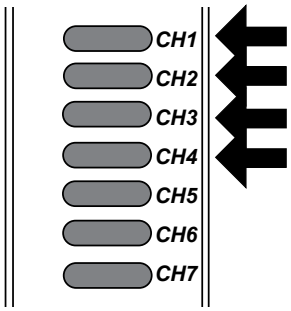
This configuration permits the control of the LED with a 7 channel transmitter, in which every channel is connected to a single operation:





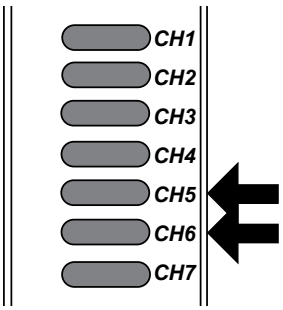
- Press **9** times **P1** keeping pressed the **ninth** time.
- The buzzer emits a continuous sound. Press any button of transmitter to memorize.
- Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

Changing the preset light scenes of the 7 channels transmitters



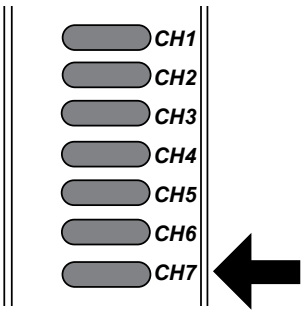
press the scene to modify

1- Press the button related to the scene to modify



adjust new value

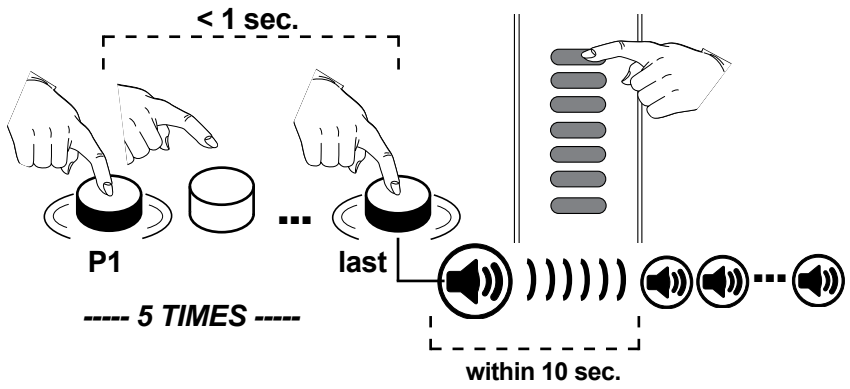
2- Adjust the new value with the buttons CH5 and CH6



press and hold more than 5s

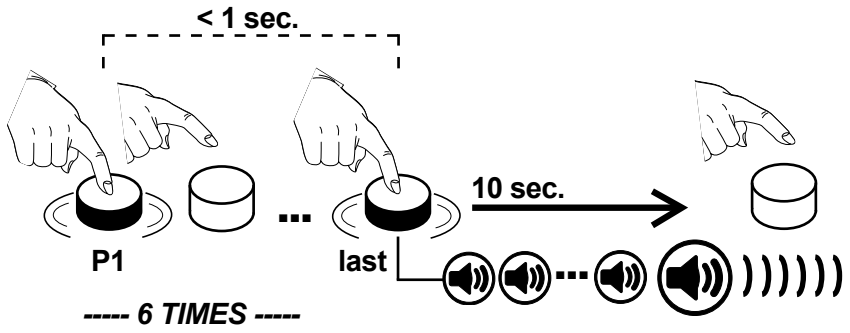
3- Press the button CH7 and hold it down for 5 sec. LED turn off. After 5 sec. buzzer makes a beep and the LED turn on at the new value.

4.1 Deleting a transmitter



- Press **5** times **P1** keeping pressed the **fifth** time.
- The buzzer emits a continuous sound. Press the button to delete within 10 seconds.
- Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

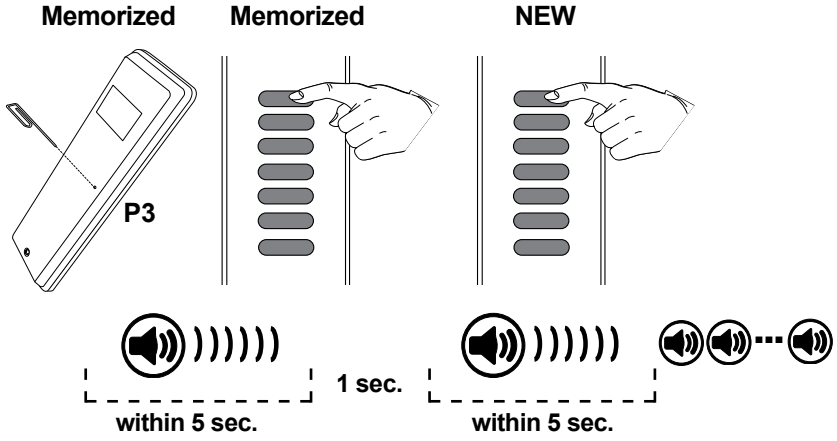
4.2 Deleting all the transmitters



- Press **6** times **P1** keeping pressed the **sixth** time.
- The buzzer emits a fast intermittent sound for about 10 sec.
- Release when the sound becomes continuous.

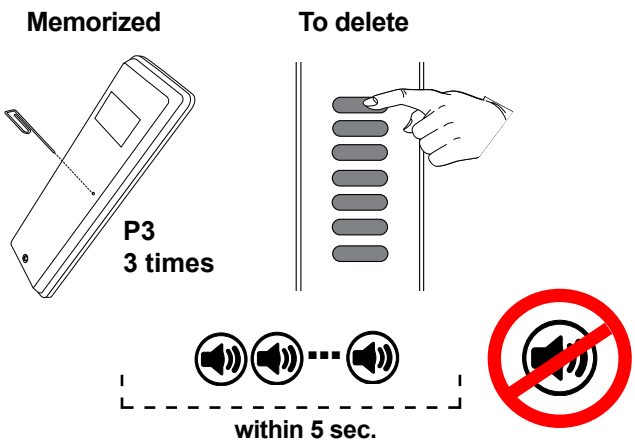
5.1 Remote memorization of further radio codes

The new transmitter must have the same (or higher) number of buttons as the memorized one.
At the end of procedure it will have the same functioning of the memorized transmitter.



- Press **P3** of the transmitter already memorized. The buzzer emits a continuous sound.
- Press the button to copy. The buzzer stops for 1 second and emits the sound again.
- Press the button to memorize of the new transmitter.
- Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.

5.2 Remote deletion of a radio code

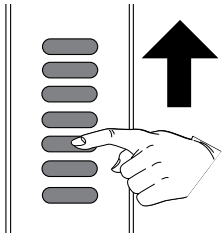


- Press **P3** of the transmitter already memorized. The buzzer emits a continuous sound.
- Press the button to delete within 10 seconds.
- Once the deletion is successfully completed, the buzzer stops sounding.

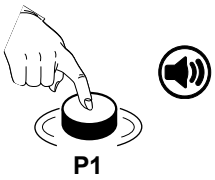
6. Configuration of working time (only for pergola application)

The configuration of the working time is necessary only for the application PERGOLA. **The procedure below will be applied just in case the DIP4 is set to OFF.**

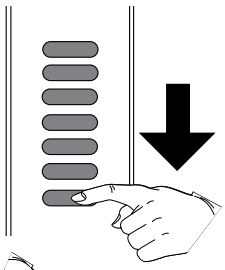
Move DIP3 to ON. The buzzer makes a beep.
The functioning mode automatically switches to “HOLD-TO-RUN”.



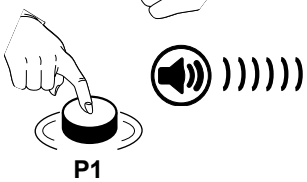
Move the awning to the upper limit (application closed).



Press **P1** to memorize the limit. Buzzer will make a beep.



Move the awning to the lower limit (application open).



Press **P1** to memorize the limit. Buzzer will make a long beep and exits the procedure.
The functioning mode switch back to “AUTOMATIC”.

Move DIP3 to OFF.

7.1 Wind sensor (only for “S” version)

The wind sensor (ANEM4, 4 pulses/rotation) detects if the wind speed exceed the threshold, set with DIP1-2 (pag.3). It has the highest priority among the sensors. If the alarm is active:

DIP4	APPLICATION	WIND SPEED (Km/h)
ON	Awning	The control unit completely closes the awning (MOTOR UP command)
OFF	Pergola	The control unit moves the slats to complete opening, then at **50%** and it stops.

L1 flashes and the control unit does not execute any command.
The system resumes its normal operation 30 seconds after the alarm is OFF (speed lower than the threshold).

7.2 Rain sensor (only for “S” version)

When the sensor detects the rain and the alarm is activated, the device positions the slats of the pergola or moves the motor of the awning to completely **closed** position. During the status of alarm L2 is ON and the control unit does not execute any command. The alarm is off when the sensor doesn’t detect the presence of the rain for 20 seconds.

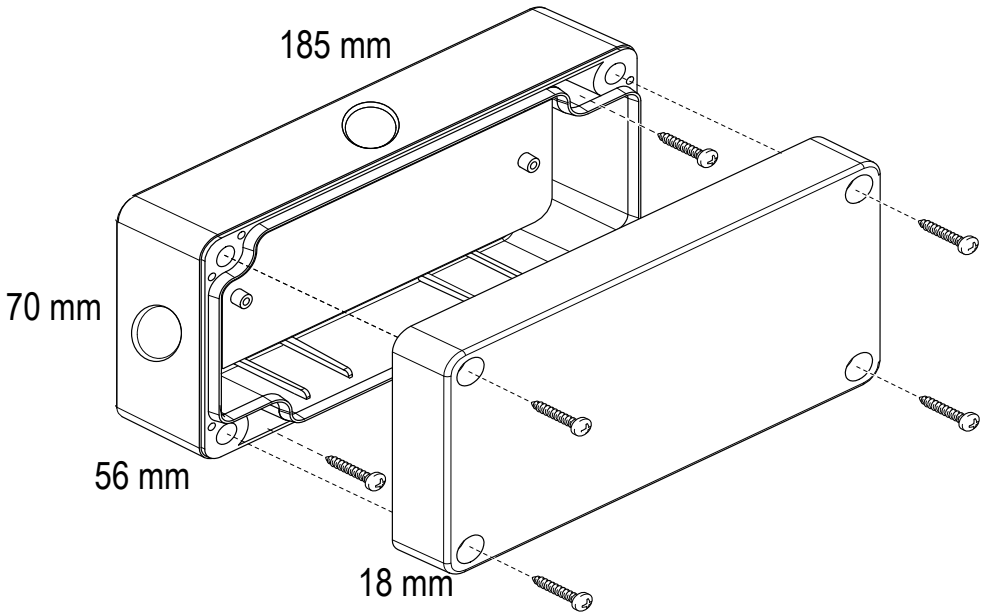
8.1 Technical specifications of the control unit

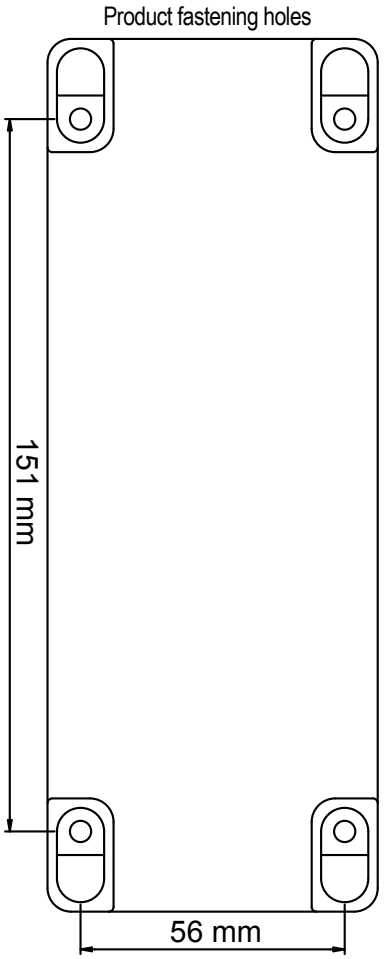
- Reception frequency	868,3 MHz	TVPLT868C80T0, TVPLT868C80TS
	916 MHz	TVPLT916C80T0, TVPLT916C80TS
- Power supply	230Vac	
- Max. power of the motor	350W	
- Default working time	90 sec.	
- Power of transformer	80W - 24Vdc	
- Maximum power of LED output	70W - 24Vdc	
- Operating temperature range	-20° - +45°C	
- Rain sensor power supply	12 Vdc max. 100mA	
- Max. number of transmitters	16	

8.2 Technical specifications of the box

- Protection	IP54
- Material of the box and its cover	Thermoplastic ABS
- Colour of the box and its cover	Grey RAL 7035
- Cable glands	M16 (POLIAMMIDE 6.6)
- Sealing ring of cable glands	NEOPRENE®
- Self-extinguishing class	V2 (UL-94)

Not suitable for direct UV exposure





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