

# Zeus

## 08880870N

CONTROL UNIT

FOR MOTORS 230 VAC AWNINGS, SHUTTERS, VASISTAS, LIGHTS



## INSTRUCTION MANUAL AND USE



ENGLISH

Version 2 10.05.2018

## 1.0 INSTRUCTIONS FOR THE SAFETY

**WARNING: READ CAREFULLY THE FOLLOWING SAFETY INDICATIONS BEFORE TO START THE INSTALLATION OF THIS DEVICE; THEY ARE USEFUL TO PREVENT ANY ELECTRICAL CONTACT, INJURY AND OTHER PROBLEMS. KEEP THIS MANUAL FOR OTHER CONSULTATIONS.**

- The control units for the Vasistas are intended exclusively to the control of the weather for the automatic movement of the windows. The use for applications which are different from the ones indicated must be authorized by the manufacturer, after the technical test of the application.
- After having removed the packaging, check that the device is intact. Plastic bags, styrofoam, small metallic components as nails, clips, etc. have to be kept out of reach of children, because they might be dangerous.
- Before to connect the device, verify that the electrical supply that you use, has the same features indicated in the label with the technical infos, applied on the device.
- The installation of the device has to be made according to the instructions of the manufacturer. Non-compliance with these rules can compromise the safety.
- The implementation of the electrical installation of voltage supply has to be made according to the current rules.
- To avoid any danger of injuries or death caused by the voltage supply, before implementing any operation of wiring or regulation, turn off the voltage from the supply line.
- To assure an effective separation from the net we suggest to install a momentary bipolar switch (button) approved. At the beginning of the command line a general omnipolar switch of supply with input of the contact of at least 3,5 mm, must be installed.
- It is necessary to use material of connection fit to guarantee an isolation according to the actual normative on the electric safety.
- Don't clean or wash the device with solvent or jets of water. Do not immerse into water.
- **Warning:** in case of damage or malfunction, turn off the device from the general switch and call a qualified technician.
- Every repair have to be implemented only by qualified staff in an help centre authorized by the manufacturer.
- Before implementing any operation of cleaning or maintenance, be sure to disconnect the device from the net. For further safety we suggest to remove the electrical connection.
- Request always and exclusively the use of original replacements. The non-compliance with this rule could compromise the safety and undo the benefits of the warranty applied on the device.
- In case of problems or doubts during the intallation of the functioning, address to your retailer of trust or directly to the manufacturer.

## 2.0 WASTE DISPOSAL

**This product is integral part of the automation, and therefore you/he/she must be digests together with it.**

As for the operations of installation, also at the end of the life of this product, the operations of dismantlement must be perform from personal qualified.

This product is constituted by various types of materials: some can be recycled, others must be digest. Inform you on the systems of recycling or disposal anticipated from the in force rules on your territory, for this category of product.



**Attention!** Some parts of the product can contain polluting or dangerous substances that, if dispersed in the environment, you/they could provoke harmful effects on the same environment and on the human



As pointed out by the side symbol, it is forbidden to throw this product in the domestic refusals. To perform therefore her "separate harvest" for the disposal, according to the anticipated methods from the in force rules on your territory, or to redeliver the product to the seller in the moment of the purchase of a new equivalent product.



**Attention!** The in force rules to local level can foresee heavy sanctions in case of unauthorized disposal of this product.

## 2.0 TECHNICAL DATAS

PARAMETERS	870N
VOLTAGE SUPPLY	230 VAC/50Hz
MAX POWER OUTGOING	500 W
TEMPERATURE OF EXERCISE	-20 / +70°C
PROTECTION FUSE	PTC
WORKING TIME*	*
WIND THERSHOLD	12—25—35 Km/h
MAX TX MEMORIZABLES	15
RX RADIO FREQUENCY	433,92 Mhz
PROTECTION DEGREE	IP 55
SIZE	115 x 35 x 23 mm

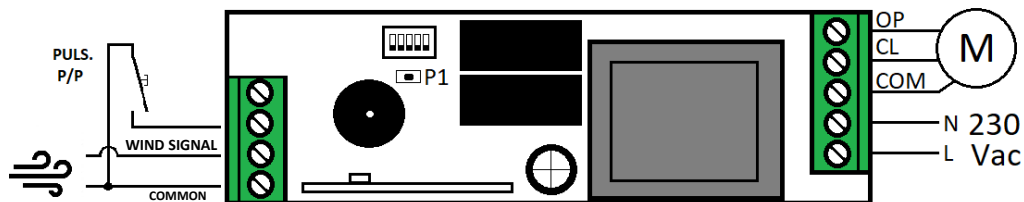
**08880870N:** control unit for the managing of shutters, screen, awnings, vasistas, sun blades and light.

**\*Working time:**

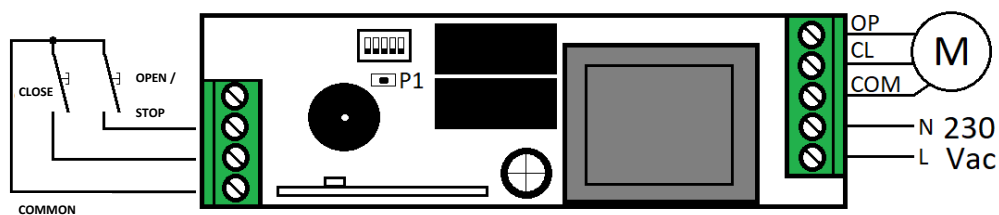
- **Vasistas:** 40 Sec.
- **Shutter & screen:** 60 / 120 Sec.
- **Awning:** 60 / 120 Sec.
- **Sun blades:** 120 Sec.

## 2.1 COMPOSITION OF THE PRODUCT AND DIAGRAM OF CONNECTION

### CONTROL UNIT 870N

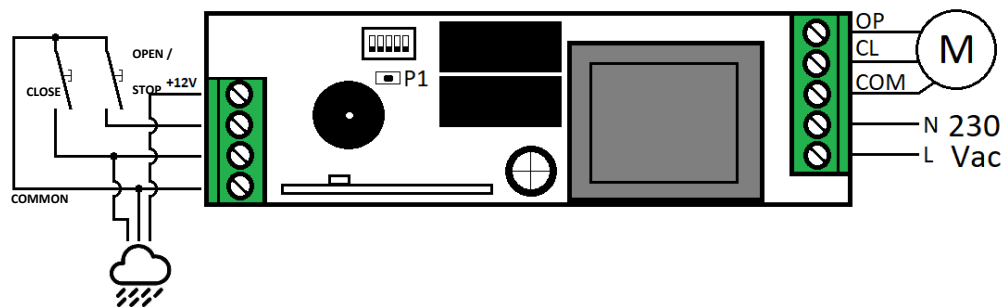


Setting: **AWNING**



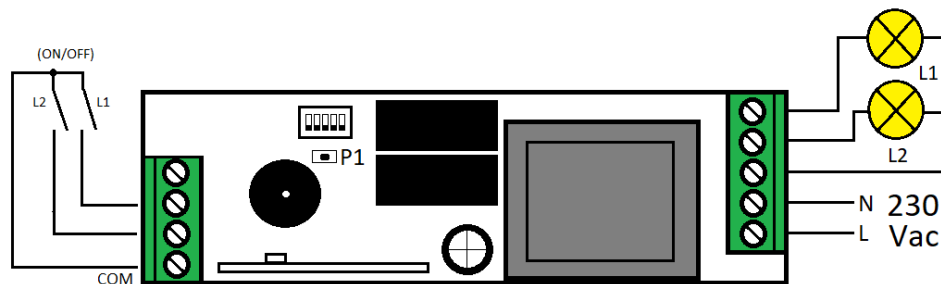
Setting: **SHUTTER or SCREEN**

## 2.1 COMPOSITION OF THE PRODUCT AND DIAGRAM OF CONNECTION 870N



Setting: **VASISTAS**

Setting: **LIGHTS**



## 2.2 FUNZIONI DIP SWITCH 870N

DIP 1	DIP 2	DIP 3	FUNCTION
OFF	OFF	OFF	SETTING <b>AWNING</b> : INPUT ANEMOMETER and INPUT STEP BY STEP. Working time <b>120</b> seconds. <b>REGULATION WIND THERSHOLD BY TX</b>
ON	OFF	OFF	SETTING <b>VASISTAS</b> : INPUT RAIN SENSOR and INPUT OPEN/CLOSE and CLOSE/STOP. Working time <b>40</b> seconds.
OFF	ON	OFF	SETTING <b>SHUTTER</b> or <b>SCREEN</b> : INPUT. OPEN/STOP and CLOSE/STOP. Working time <b>120</b> seconds.
OFF	OFF	ON	SETTING <b>AWNING</b> : INPUT ANEMOMETER and INPUT STEP BY STEP. Working time <b>60</b> seconds. <b>REGULATION WIND THERSHOLD BY TX</b>
ON	OFF	ON	SETTING <b>SUN BLADES</b> : INPUT OPEN/CLOSE and CLOSE/STOP. Press button > <b>3 sec</b> = <b>dead man switch</b> . Press button < <b>3 sec</b> = <b>automatic functioning</b> . Working time <b>120</b> seconds.
OFF	ON	ON	SETTING <b>SHUTTER</b> or <b>SCREEN</b> : INPUT. OPEN/STOP and CLOSE/STOP. Working time <b>60</b> seconds.
ON	ON	OFF	<b>LIGHTS SETTING: INPUT ON/OFF LIGHT 1 and ON/OFF LIGHT 2.*</b>
ON	ON	ON	<b>LIGHTS SETTING: INPUT ON/OFF LIGHT 1 and LIGHT 2: 120 SEC WORK TIME.*</b>

**WARNING: USE THE LIGHT SETTING IF THE LIGHTS ARE PRESENTS, RISK OF DAMAGING THE CONTROL UNIT IF THE MOTOR GETS CONNECTED**

## 2.3 FUNCTIONS DIP SWITCH 870N

DIP 4	FUNCTION
OFF	Settings of the working times <b>STANDARD</b> .
ON	Settings of the <b>TEST</b> timings of work (the working times are reduced to <b>10—12</b> seconds).

DIP 5	FUNCTION
OFF	Functioning of the command switches <b>IMPULSIVE</b> .
ON	Functioning command switches to <b>DEAD MAN</b> .

## 3.0 GENERAL RULES OF FUNCTIONING

- During the wiring **strictly respect the diagram of connection**, a wrong connection **could damage the installation**. Follow the diagram more appropriate to the installation. (**paragraph 2.1**)
- **Do not use**, for the command, **stable position switches**.
- **Do not exceed 50 mt** of cable between the control unit and the anemometer.
- After supplying the control unit (in case of installation on an awning) position **the awning on half of the run**, rotate the sensor and check that **after the alarm happened** (flashing red led), the awning goes up (closing). In case that it goes backwards, invert the wires on the MOTOR OPENS clamp, to the MOTOR CLOSES clamp.
- Position the sensor in an optimal position for receiving the wind, as close to the awning as possible.
- If during the installation, with the **continuous opening and closing** of the awning, shutter or vasistas, **the motor gets stuck**, this is **not because of a damage** of the board, but because of the **thermic protector** contained in the motor. **Wait until the motor has cooled down and try again**.

## 4.0 PROGRAMMING FIRST TX MASTER BY REMOTE (IF THERE IS NO TX STORED)



1) Supply the control unit



2) The motor will do two short opposite movements which indicate that **there are no TX** stored in the control

NEW



3) **Within a few seconds** press the **STOP** switch of the TX to memorize.



4) The motor will do two short movements which indicate that the TX has been memorized. **Release the hidden switch of the**



5) Programming accomplished.

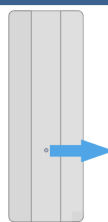
## 4.1 PROGRAMMING OF OTHER TX BY MASTER TRANSMITTER



1) When the control unit has been supplied, press and hold the hidden switch of the **TX master** already stored.



2) The motor will do two short movements which indicate **the storing has begun**.



3) Release the hidden switch of the TX.

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4) **Within a few seconds** press the **STOP** switch of the TX to memorize.

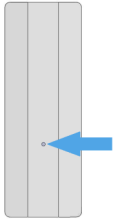

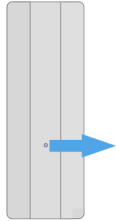





5) The motor will do two short movements which indicate that the TX has been memorized.

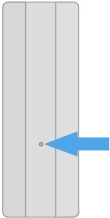


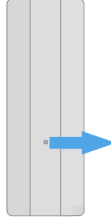







6) Programming accomplished.

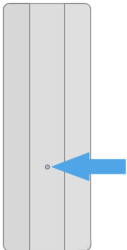



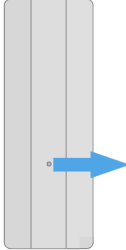

## 4.2 DELETING A TX BY TRANSMITTER

					
1) Press and hold the PROGRAMMING switch of a TX already stored.	2) After some seconds the motor will do TWO short opposite movements.	3) Release the PROGRAMMING switch of the TX already stored.	4) Press IMMEDIATELY the STOP switch of the TX to store.	5) The motor will do TWO short opposite movements.	6) <b>RESET accomplished.</b>

## 4.3 REGULATION OF THE WIND BY TX (IF SET BY DIP SWITCH)

					
1) Press and hold the PROGRAMMING switch of a TX already stored.	2) After some seconds the motor will do TWO short opposite movements.	3) After some seconds the motor will do TWO further short opposite movements.	4) Release the PROGRAMMING switch of the TX already stored.	5) If the CLIMB switch is pressed, 15 km/h will be set. <b>Choose just one switch.</b>	6) If the STOP switch is pressed, 25 km/h will be set. Choose just one switch.
	7) If you press the DESCENT switch, 35 km/h will be set. <b>Choose just one switch.</b>		8) Once you pressed the wanted switch, the motor will do TWO short opposite movements of confirmation.		9) <b>REGULATION OF THE WIND SPEED ACCOMPLISHED.</b>

## 4.4 INVERSION OF THE MOTOR MOVEMENT BY TX

					
1) Press and hold the PROGRAMMING switch of the TX already stored.	2) After a few seconds the motor will do TWO short opposite movements. 1 BEEP	3) After a few seconds the motor will do TWO further short opposite movements. 2 BEEP	4) After a few seconds the motor will do TWO further short opposite movements. 3 BEEP	5) Release the PROGRAMMING switch of the TX already stored.	6) <b>INVERSION OF THE MOTION ACCOMPLISHED.</b>

## 4.5 MEMORIZATION OF A TX BY CONTROL UNIT CENTRALE 870N



**BEEEEEEP**



1) When the control unit has been supplied, press and hold the P1 switch for **3 seconds and release.**

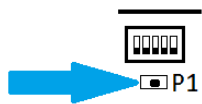
2) The control unit will make a long sound.

4) Press **IMMEDIATELY** the STOP switch of the TX to memorize.

5) The motor will do **TWO** short opposite movements.

6) **PROGRAMMING accomplished**

## 4.6 DELETING A TX BY CONTROL UNIT 870N



**BEEEEEEP**



1) When the control unit has been supplied, press and hold the P1 switch for **3 seconds and release.**

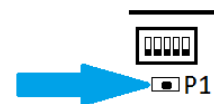
2) The control unit will make a long sound.

4) Press **IMMEDIATELY** the STOP switch of the TX to delete.

5) The motor will do **TWO** short opposite movements.

6) **RESET accomplished**

## 4.7 RESET OF ALL THE TX BY CONTROL UNIT 870N



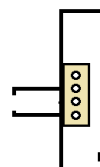
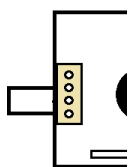
1) When the control unit has been supplied, press and hold the P1 switch .

2) After many seconds, The motor will do **TWO** short opposite movements.

3) Release the programming P1 switch.

6) **RESET accomplished**

## 4.8 RESET TOTALE



1) Close the contact between the **COM** input and the **PP** input of the control unit 870N

2) Supply the control unit.

3) After many seconds, The motor will do **FOUR short opposite consecutive movements.**

4) **OPEN** the contact between the **COM** input and the **PP** input of the control unit 870N

5) After many seconds, The motor will do **ONE** further short opposite movement.

6) After some seconds the motor will do **TWO** further short opposite movements.

#### 4.9 NEW TX MASTER INSERTING FROM REMOTE



**WARNING! IN CASE OF LOSS OR FAILURE OF THE TX MASTER: power the control unit a few seconds press the hidden new tx button keeping it pressed unit the short maneuvers of the motor. Press the STOP button to confirm. Short motor maneuvers confirm the new TX memorized.**

#### 5.0 WARNINGS ABOUT THE FUNCTIONING

- In case that you are using a sun/wind radio sensor (940), for a correct use of the SUN function the awning has to do a complete cycle, without any interruption from the final user (ex. Half opening or vice-versa).
- Always connect just one control unit at the time, to avoid any accidental storing on other control units.

#### 6.0 COMPLIANCE CERTIFICATE ON THE EU DIRECTIVES

##### COMPLIANCE DECLARATION

**(directive 89/392 CEE, annex II, parte B)**

S. G. Elettronica srl declares that the following control unit:

**08880870N**

Are in compliance with the rules set out in the directives 89/336/EEC, 92/31/EEC, 93/68/EEC about the electromagnetic compatibility. The following harmonised standards have been applied:

EN 60335-1, EN 60204-1, EN 55014, EN 6100-3-2, EN 6100-3-3, EN 6100-4-2, EN 6100-4-4, ENV 50140, EN 50081-1, EN 50082-1

Declares at the same time that it is forbidden to put into service the abovementioned products before that the machine to which they are incorporated or are part of, has not been identified and has not been declared in accordance with the conditions requested by the directive 89/392 CEE and to the national legislation of application, that is until the material in question of this declaration will not be kept together with the final machine.

Scorzè, **10/05/2018**

Sign of the Legal Representative

**Sandro Zottino**

