



QCWS

*WIND SENSOR FOR
XQ50 AC SERIES MOTORS*

QCWSX

*RADIO WIND SENSOR FOR
XQ50 AC SERIES MOTORS*

QCWSSX

*RADIO SUN/WIND SENSOR FOR
XQ50 AC SERIES MOTORS*



Made in Italy



QCWS

TECHNICAL DETAILS

DESCRIPTION

INSTALLATION

CONNECTIONS

WIND SENSOR SETTING

TECHNICAL DETAILS



| | |
|------------------------|-----------------------------|
| Power supply | 230Vac 50 Hz |
| Frequency | 868,30 MHz |
| Wind sensor (5 levels) | 10 / 20 / 30 / 40 / 50 Km/h |
| Protection rate | IP54 |
| Working temperature | -5°C /+40°C |
| Dimensions | 270 x 120 x 90 mm |

DESCRIPTION

The QCWS wind sensor is designed for residential use. Connected to XQ50 tubular motors, wind speed is continuously monitored, triggering the control to retract the awning automatically as needed.

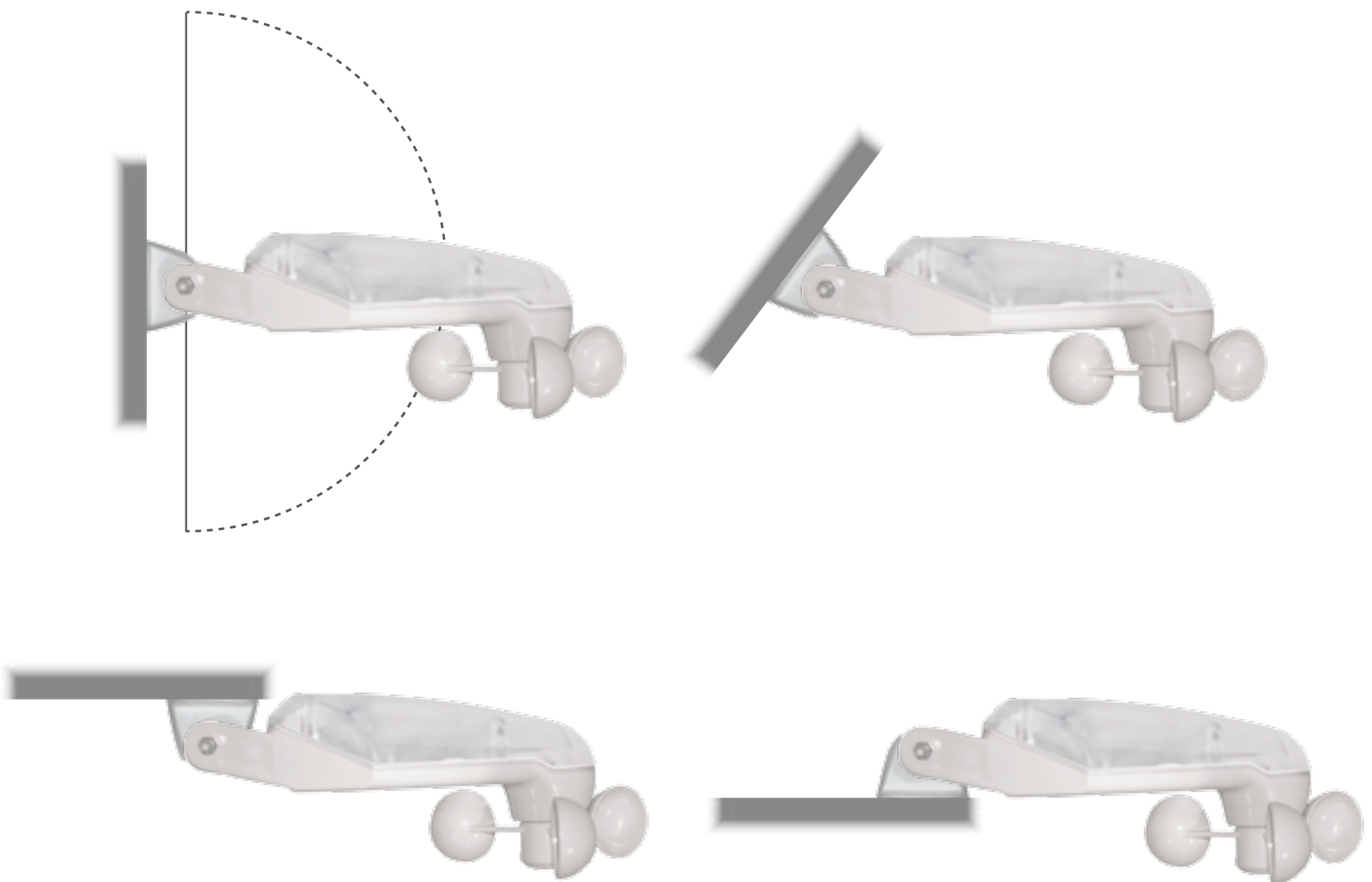
INSTALLATION



The QCWS wind sensor is supplied in 2 parts: 1) the main body and 2) the 3 cups fan, to be inserted, by hand pressure only, in its shaft on the main body.

The QCWS wind sensor must be installed with the fan downwards and it should be placed close to the awning to make sure the wind speed is measured at the product.

Guard against installing the wind sensor too close to an obstruction which could block the wind and cause erroneous sensor readings. The sensor should not be more than 3 metres from the motor.



CONNECTIONS

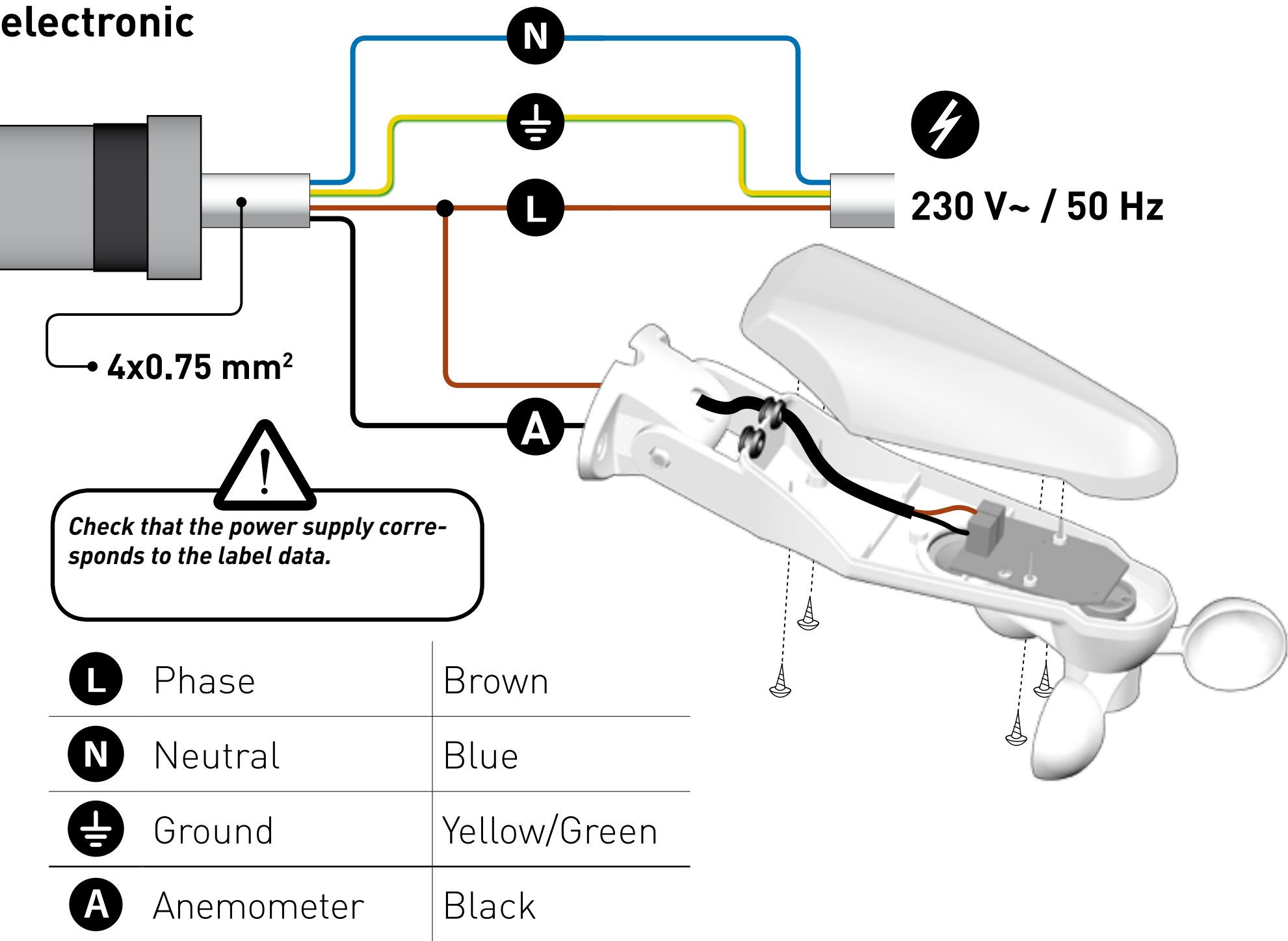


Only with motors with integrated receiver with a 4-wire power cable*. When connecting to a control unit follow the instructions on the same

Remove the top cover of the sensor (4 screws) and connect the two-wire cables from the sensor terminals to the motor wires (no polarity is required).

WARNING: pass the wire through the rubber because the sensor is still watertight.

Motor radio electronic



*If the cable is a 3-wire cable it is necessary to replace it with AXSPI.25 cable.

WIND SENSOR SETTING



(in case of installations combined with a QCX09 unit or a XQ50-motor with electronic-radio limit switch).

According to the GAPOSA transmitter used, select the channel / group on which you want to change the sensitivity level of the wind sensor, then:

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>1</div> <div></div> <div>Press simoultaneously UP STOP DOWN buttons till the motor makes a number of jogs corresponding to the number of wind threshold.</div> | <div>2</div> <div></div> <div>In this status press UP to increase the wind threshold or DOWN to reduce the wind threshold. Anytime you press the motor makes a number of jogs corresponding to the new wind threshold</div> | <div>3</div> <div></div> <div>To confirm the sensitivity level, within 8 sec press the STOP button. The motor will move the same number of times as the new inserted level.</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



WIND SENSOR SETTING



It is possible to chose among 5 levels of sensitivity (for the correspondence between the level chosen and the wind speed, follow the table below);

| WIND - LEVEL OF SENSITIVITY | |
|-----------------------------|----------------------------------|
| Livel 1 | 10 Km/h - Low wind speed |
| Livel 2 | 20 Km/h - Low/medium wind speed |
| Livel 3 | 30 Km/h - Medium wind speed |
| Livel 4 (default) | 40 Km/h - Medium/high wind speed |
| Livel 5 | 50 Km/h - High wind speed |

QCWSX / QCWSSX

TECHNICAL DETAILS

DESCRIPTION

FUNCTIONS

INSTALLATION

CONNECTIONS

CONNECTION SENSOR/MOTOR

WIND SENSOR SETTING

SUN SENSOR SETTING (only QCWSSX)

| | |
|------------------------|-----------------------------------------|
| Power supply | 230Vac 50 Hz |
| Frequency | 868,30 MHz |
| Radiated power | <10 mW |
| Coverage (int/ext) | 20 m / 200 m |
| Wind sensor (5 levels) | 10 / 20 / 30 / 40 / 50 Km/h |
| Sun sensor (4 levels) | 5 / 20 / 40 / 60 Klux (QCWSSX) |
| Protection rate | IP54 |
| Working temperature | -5°C /+40°C |
| Dimensions | 270 x 120 x 90 mm |

DESCRIPTION

Wireless climatic sensor 868.30MHz which controls radio motor/s for awnings, vertical blinds and outdoor venetian blinds, according to weather conditions under stated thresholds.

IMPORTANT: this sensor does not protect the awnings/blinds against strong gusts of wind. When weather conditions presents this sort of risk, ensure that the awning/blind remains closed.



Wind protection function

Retracts and prevents the awning to open for 20 minutes if the wind threshold is exceeded.

Sun protection function [QCWSSX]

This function allows the awning to open after 2 minutes if the sun threshold value is exceeded.

Note: The awning opens completely up to the down limit unless an intermediate position is previously set (Just for motors with electronic encoded tubular motors with built-in radio receiver). In this circumstance the awning always opens up to the intermediate position.

Testing mode (short timing)

Most of the signals coming from the sensor are often delayed for the optimal movements of the motor/s. For testing purposes the sun-wind sensor can be turned in a “testing status” where timings and feedbacks are shortened (seconds instead of minutes).

1. To start the test press shortly the button W for 5 times. The motor makes a brief joke.
2. To end the test press again shortly the button W for 5 times. The motor makes a long joke.

IMPORTANT NOTE: the testing mode if not closed by pressing again W button for 5 times, expires automatically after 10 minutes.





Awning feedback

- Wind alarm - Manual extension is stopped after 2 seconds and the awning retracts
- Sensor loss (**Motor safety mode***) - Manual extension works in “press and hold” way only. In this status of safety mode the awning anyway retracts automatically every 30 minutes.
- Power failure - In case of power failures, when it comes back the awning automatically closes for safety aspects.

***Motor safety mode:**

If the motor doesn't receive the wind signal for at least once every 30min. it will close the awnings for safety reason and turns in safety mode status. This may happen if the radio anemometer is broken or if it has no power.

During the safety mode status awning can be opened in “dead man” way only.

When the sun-wind sensor restarts sending the wind signal the motor will end the safety mode status, otherwise, it will continue to close the awning every 30min.

INSTALLATION



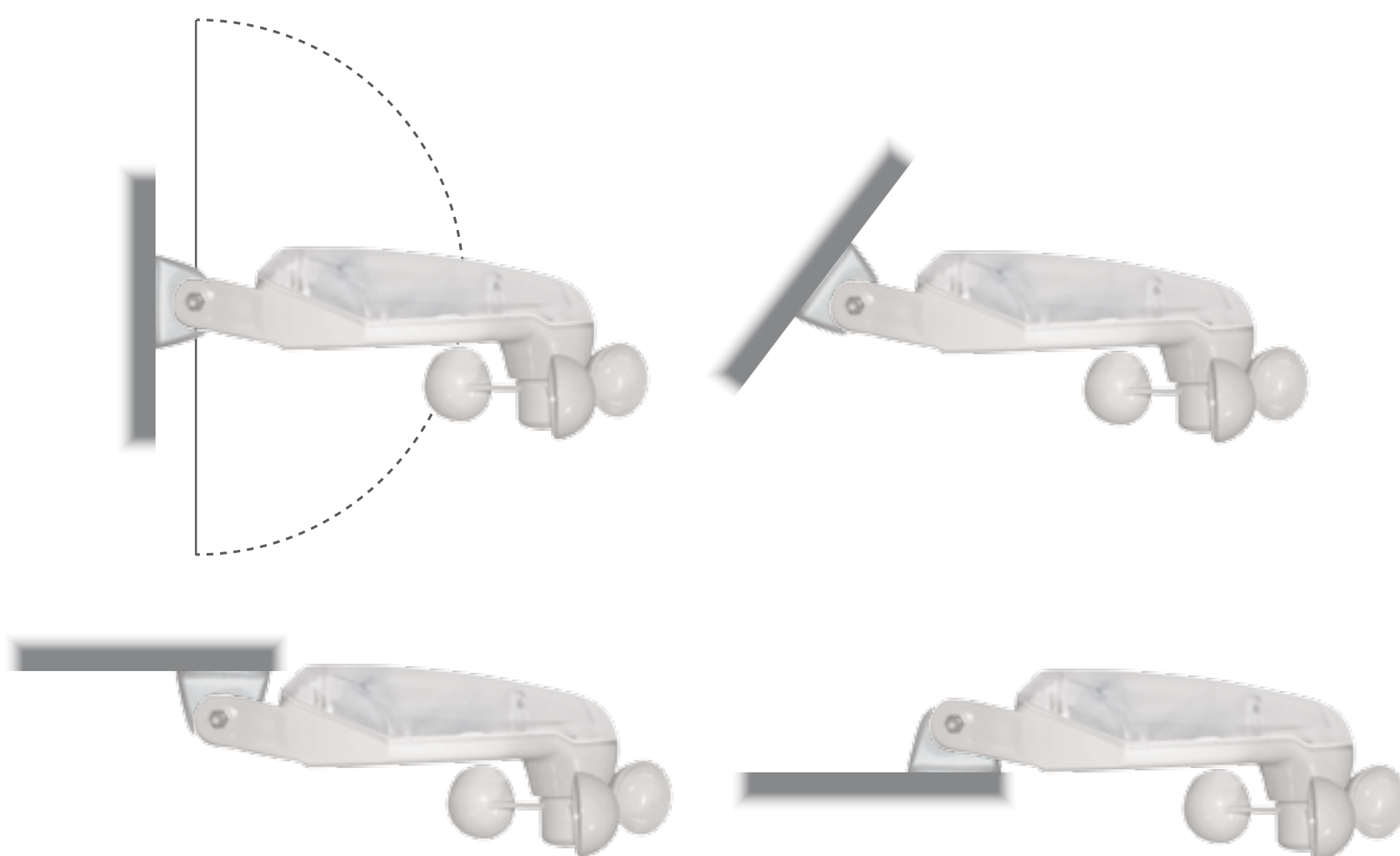
Before installing and using the radio sensor please read the instructions carefully. This device has to be installed by a professional installer. Before the installation check the compatibility of the device with the associated motors and controls. The installer must comply with the standards and legislation in the country in which the device is being installed.

Note: ensure that sensors are not installed close to metal surfaces, panes of metalised glass or generally magnetic fields can reduce the radio signals range.

Radio devices working on the same frequency could interfere with signals reception.

Select the right place for the installation of the sensor. Be careful that trees, roofs or parts of the building do not affect the light intensity and wind measurement.

The adjustable base of the sensor allows the right installation (horizontal position) on any surface.



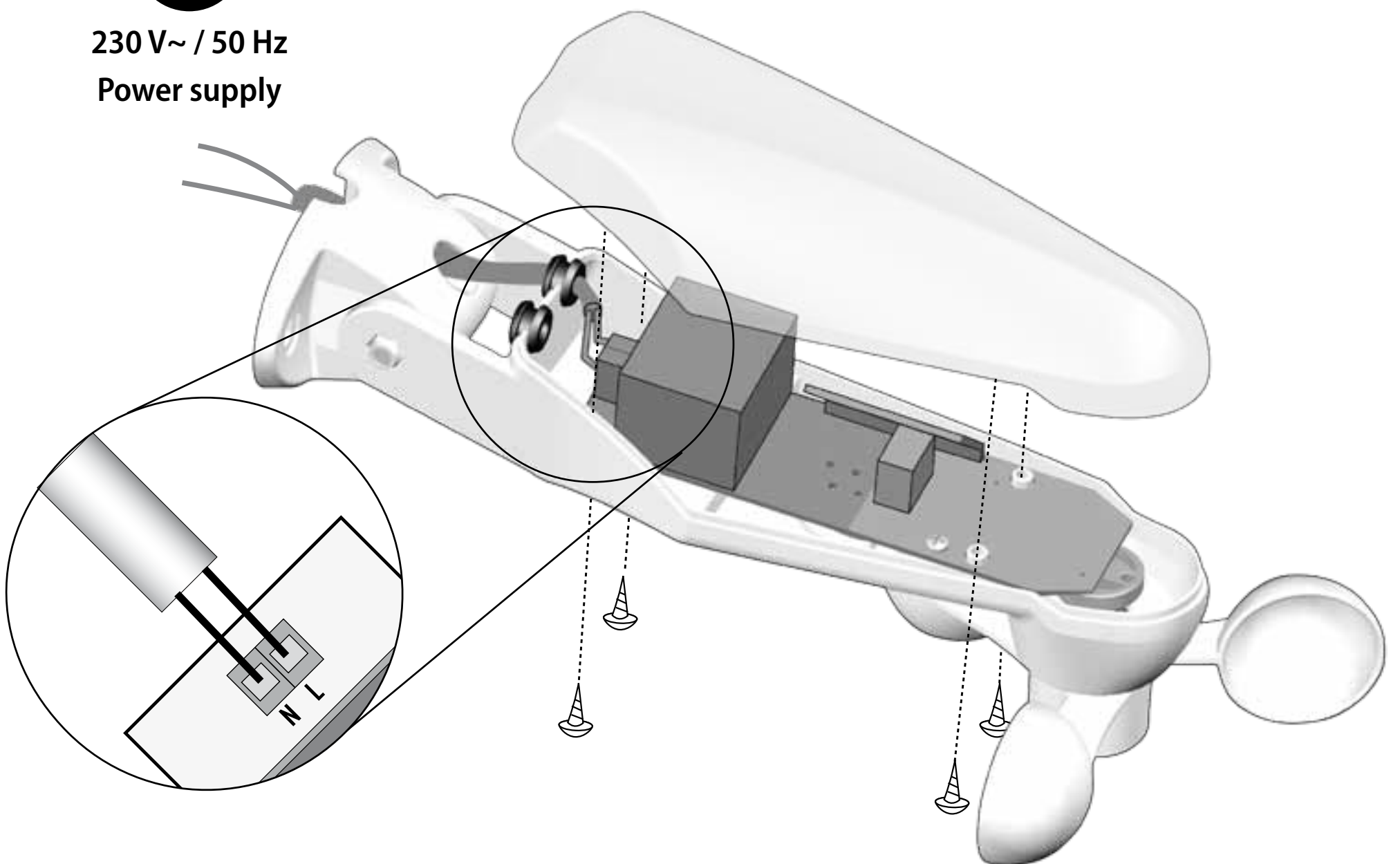
CONNECTION



1. Open the top cover by the 4 screws on the bottom.
2. Connect the power line as described below.
Check that the power supply corresponds to the label data.
3. Close the top cover and tight the screw to seal it.



230 V~ / 50 Hz
Power supply



Additional Accessories required:

2-wire cable that meets the standards of the country in which it is installed

CONNECTION SENSOR/MOTOR



IMPORTANT: First program a transmitter with the motor then set the limits of the motor and finally set the transmitter with the sensor.

Programming procedure of sensor is like adding a new transmitter to the motor so:

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>1</div> <div></div> <div>Press and hold PROG-TX button on the back of transmitter till the motor starts moving, then releasePROG-TX button (the motor stops).</div> | <div>2</div> <div></div> <div>Press and hold for at least 3 seconds S button on the wind sensor until LED 9 on the wind sensor blinks. Wind sensor is now programmed.</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

CHECKING CONNECTION

1. Press and hold **W** button for at least 3 seconds. If properly linked the motor goes UP.
2. Press and hold **S** button for at least 3 seconds. If properly linked the motor goes DOWN.

SETTING WIND THRESHOLD



(5 levels to be selected ONLY through the transmitter)

Important: The wind threshold setting is individual for each engine/channel. Before starting the procedure, select the motor/channel on which you want to set it.

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>1</div> <div></div> <div><p>Per mezzo del trasmettitore già memorizzato, premere simultaneamente i tasti SALITA-STOP-DISCESA finché il motore non farà un numero di scatti corrispondenti al numero della soglia del vento impostata.</p></div> | <div>2</div> <div></div> <div><p>In questo stato, premere il tasto SALITA per aumentare la soglia del vento o DISCESA per ridurre la soglia del vento. Ogni volta che si preme il tasto, il motore farà un numero di scatti corrispondenti alla nuova soglia del vento scelta.</p></div> | <div>3</div> <div></div> <div><p>In questo stato, premere il tasto SALITA per aumentare la soglia del vento o DISCESA per ridurre la soglia del vento. Ogni volta che si preme il tasto, il motore farà un numero di scatti corrispondenti alla nuova soglia del vento scelta.</p></div> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

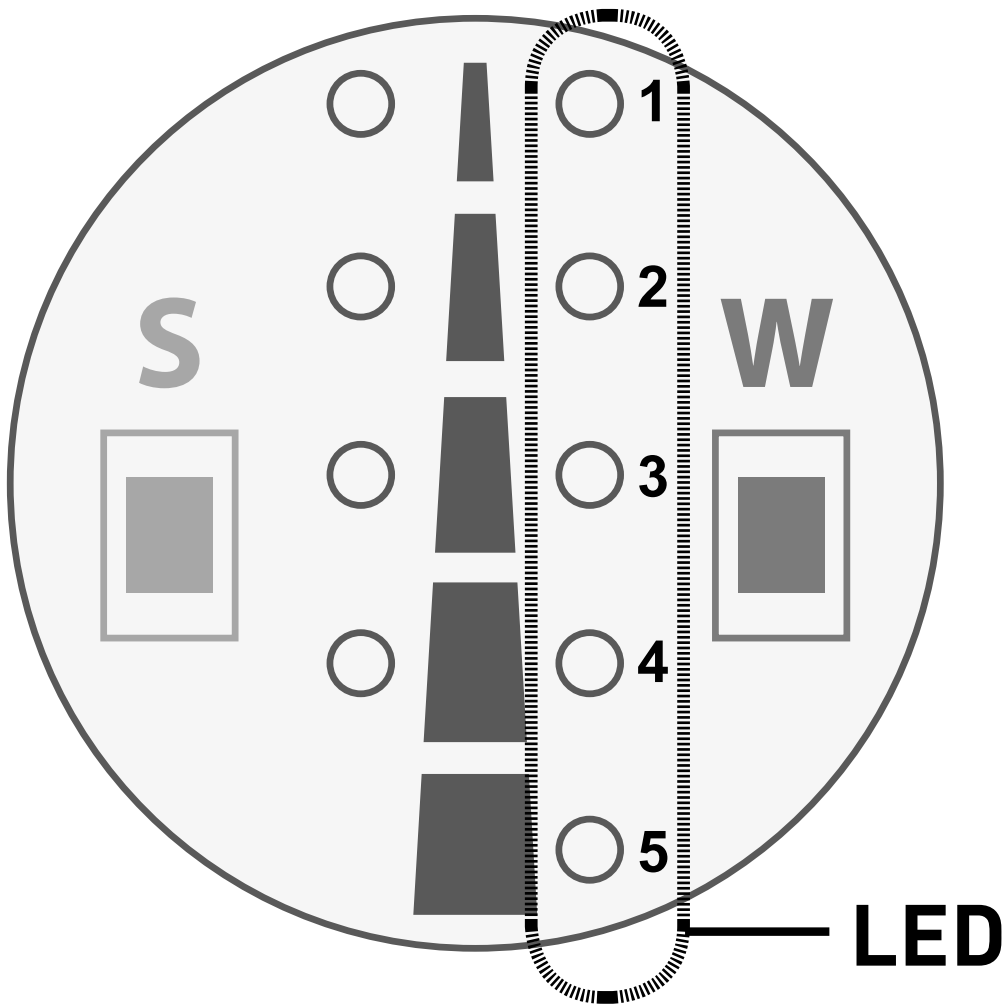


SETTING WIND THRESHOLD



The wind speed level that the sensor detects is displayed by the number (from 1 to 5) of LEDs ON:

| | WIND THRESHOLD (wind speed) | | | | |
|-------|-----------------------------|----------------|---------|-----------------|---------|
| | LOW | LOW/ MEDIUM | MEDIUM | MEDIUM/ HIGH | HIGH |
| | 10 Km/h | 20 Km/h | 30 Km/h | 40 Km/h | 50 Km/h |
| LED 1 | ● ON | ● ON | ● ON | ● ON | ● ON |
| LED 2 | ○ OFF | ● ON | ● ON | ● ON | ● ON |
| LED 3 | ○ OFF | ○ OFF | ● ON | ● ON | ● ON |
| LED 4 | ○ OFF | ○ OFF | ○ OFF | ● ON | ● ON |
| LED 5 | ○ OFF | ○ OFF | ○ OFF | ○ OFF | ● ON |



SETTING SUN THRESHOLD (Only QCWSSX)



4 levels to be selected **ONLY** on the sensor)

Press shortly and sequentially the **S** button to change level.
The level is displayed by 4 led on the S side.

| | SUN THRESHOLD (lightness) | | | | |
|-------|---------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | Sun sensor disabled | Liv 1 5 Klux | Liv 2 20 Klux | Liv 3 40 Klux | Liv 4 60 Klux |
| | | low lightness | | | high lightness |
| LED 6 | <input type="radio"/> OFF | <input checked="" type="radio"/> ON | <input checked="" type="radio"/> ON | <input checked="" type="radio"/> ON | <input checked="" type="radio"/> ON |
| LED 7 | <input type="radio"/> OFF | <input type="radio"/> OFF | <input checked="" type="radio"/> ON | <input checked="" type="radio"/> ON | <input checked="" type="radio"/> ON |
| LED 8 | <input type="radio"/> OFF | <input type="radio"/> OFF | <input type="radio"/> OFF | <input checked="" type="radio"/> ON | <input checked="" type="radio"/> ON |
| LED 9 | <input type="radio"/> OFF | <input type="radio"/> OFF | <input type="radio"/> OFF | <input type="radio"/> OFF | <input checked="" type="radio"/> ON |

