

CHERUBINI

tocco italiano dal 1947



ORA ZRX



MOTORE DOPPIA RADIO CON FINECORSO ELETTRONICO
PER TENDE DA SOLE E PERGOLE

IT

DUAL RADIO MOTOR WITH ELECTRONIC LIMIT SWITCH
FOR AWNINGS AND PERGOLAS

EN

DUAL-FUNKMOTOR MIT ELEKTRONISCHEN ENDLAGEN
MARKISEN UND PERGOLAS

DE

MOTEUR À DOUBLE COMMANDE RADIO AVEC CONTACT
DE FINS DE COURSE ÉLECTRONIQUES POUR STORES À BRAS

FR

MOTOR RADIO DUAL CON FIN DE CARRERA ELECTRÓNICO
PARA TOLDOS Y PÉRGOLAS

ES



ISTRUZIONI - INSTRUCTIONS - EINSTELLANLEITUNGEN
INSTRUCTIONS - INSTRUCCIONES

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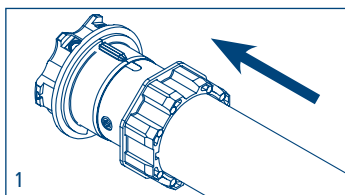
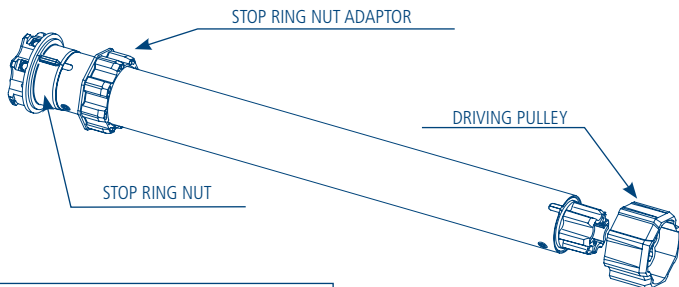
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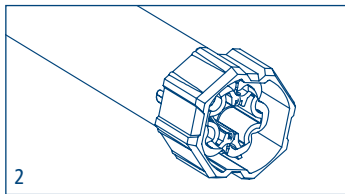
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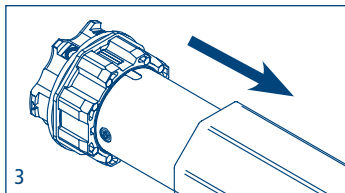
HOW TO PREPARE THE MOTOR



1. Insert the adaptor in the stop ring nut mating the groove with the reference notch and push till they touch.



2. Fix the driving pulley on the motor pin until the stop pin clicks.

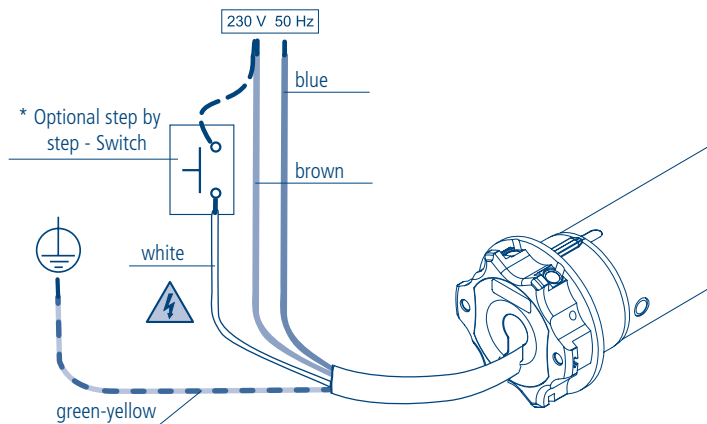


3. Insert the motor fully in the rolling tube.

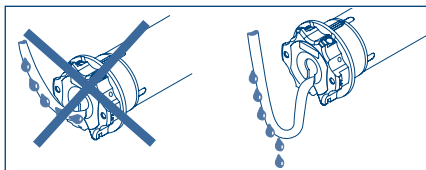
NB: If you use tubes with a round form, the driving pulley must be fixed to the tube, and the installation is to be paid by the person who installs the system. For other tube sections the fitting is optional, but strongly recommended.

ELECTRICAL CONNECTIONS

- In order to prevent dangerous situations or malfunctioning, the electrical command elements wired to the motor must be sized according to the motor's electrical features.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the national installation standards.
- For outdoor use, provide the appliance with a supply cable with designation H05RN-F containing at least 2% of carbon.
- If not used, the white wire must be insulated. It is dangerous to touch the white wire when the motor is powered.

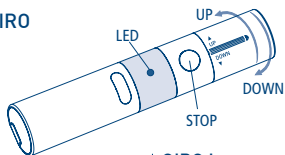


* Installing this button is optional. The connection can be done differently using the brown wire or the blue wire. The button affords the possibility to command the motor in stepping mode (up, stop, down, stop, up, stop, down, stop..)

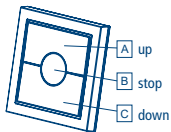


COMPATIBLE REMOTE CONTROLS

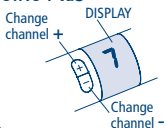
GIRO



GIRO Wall

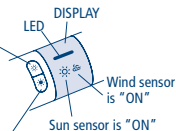


GIRO Plus



GIRO Lux

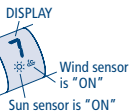
Activating the Sun sensor



Deactivating the Sun sensor

GIRO P-Lux

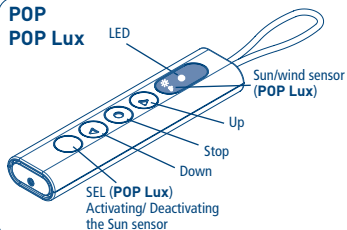
Change channel



Activating/ Deactivating the Sun sensor

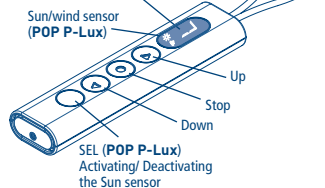
POP

POP Lux

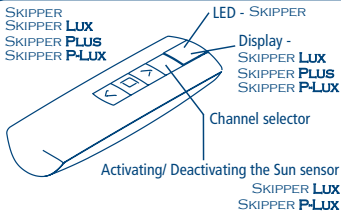


POP Plus

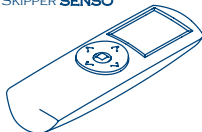
POP P-Lux



SKIPPER
SKIPPER Lux
SKIPPER PLUS
SKIPPER P-LUX



SKIPPER LCD
SKIPPER SENSO

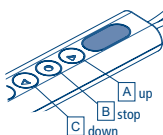
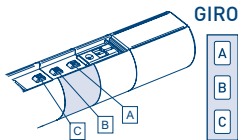


Check the specific instruction book

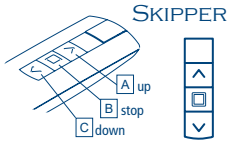
A530058 Remote Control with 4 independent channels



KEY TO SYMBOLS



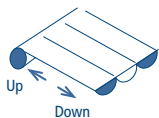
POP



SKIPPER



KEY TO SYMBOLS




A	A	▲	▲	▲
B	B	○	○	○
C	C	▼	▼	▼


Press button A

A + B	A	▲	▲	▲
B	B	○	○	○
C	C	▼	▼	▼


Press buttons A and B at the same time



short motor rotation in one direction



long motor rotation in other direction



double short rotation

COMMAND SEQUENCES EXAMPLE

Most of the command sequences have three distinct steps, at the end of which the motor indicates if the step has been concluded positively or not, by turning in different ways. This section is provided to demonstrate the motor indications. The buttons must be pressed as shown in the sequence, without taking more than 4 seconds between one step and the next. If more than 4 seconds are taken, the command is not accepted and the sequence must be repeated. Command sequence example:

A + B	A	B	C	▲
-------	---	---	---	---

Step 1

B	A	B	C	▲
---	---	---	---	---

Step 2

B	A	B	C	▲
---	---	---	---	---


Step 3

As we can see from the example, when the sequence ends positively, the motor returns to its starting position in one long rotation. In fact, two short rotations in the same direction correspond to one long rotation in the opposite direction. The motor returns to the starting position even when the sequence is not completed; in this case by performing one or two short rotations. Example of a wrong sequence:

A + B	A	B	C	▲
-------	---	---	---	---

Step 1

> 4 sec



repeat the sequence


A + B	A	B	C	▲
-------	---	---	---	---

Step 1

B	A	B	C	▲
---	---	---	---	---

Step 2

> 4 sec



repeat the sequence

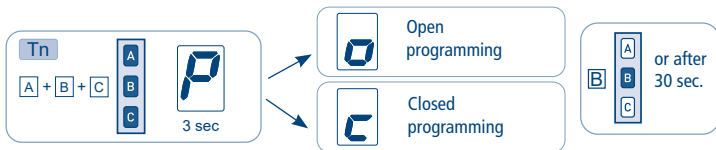
FUNCTION OPEN/CLOSE PROGRAMMING

REMOTE CONTROL SKIPPER PLUS - SKIPPER LUX - SKIPPER P-LUX

REMOTE CONTROL POP PLUS - POP LUX - POP P-LUX

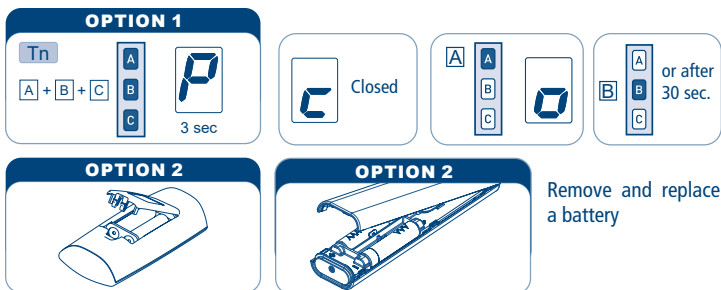
To prevent accidental changes to the programming of the motor during the daily use of the remote control, the possibility of programming is disabled automatically 8 hours after sending the last sequence (A+B or B+C).

CHECKING THE STATUS OF THE FUNCTION



To change the status of the function, see the sequences "ENABLE/DISABLE PROGRAMMING".

ENABLE PROGRAMMING



Proceed with programming as the instructions booklet.

DISABLE PROGRAMMING

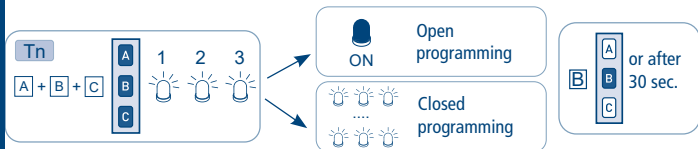


FUNCTION OPEN/CLOSE PROGRAMMING

REMOTE CONTROL SKIPPER - SERIES GIRO - REMOTE CONTROL POP

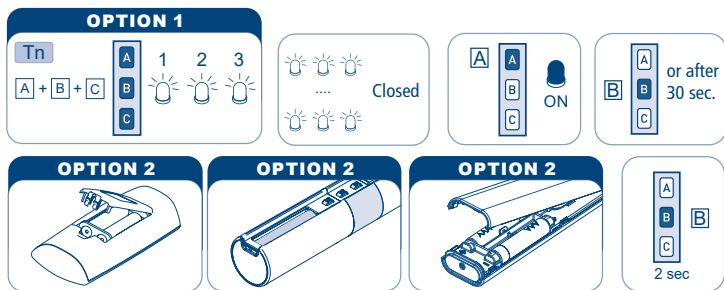
To prevent accidental changes to the programming of the motor during the daily use of the remote control, the possibility of programming is disabled automatically 8 hours after sending the last sequence (A+B or B+C).

CHECKING THE STATUS OF THE FUNCTION



To change the status of the function, see the sequences "ENABLE/DISABLE PROGRAMMING".

ENABLE PROGRAMMING



Remove one battery and wait minimum 5 seconds or press any button.

Proceed with programming as the instructions booklet.

DISABLE PROGRAMMING

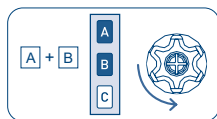


SETTING THE FIRST REMOTE CONTROL

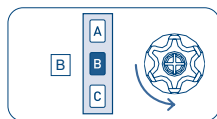
This operation can only be performed when the motor is new, or after a total delete of the memory.

During this step, power up only one motor at time!

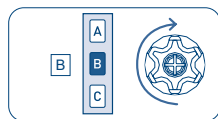
T1: First remote control to be set



T1



T1



T1 (2 sec)

AUTOMATIC DISABLING OF THE FIRST REMOTE CONTROL SETTING FUNCTION

Every time you connect the power supply to the motor, you have 3 hours to store the first remote control. After this time, the ability to store the remote control is disabled. To reset the timer of the function you have to disconnect and reconnect the power supply to the motor.

SETTING OF THE LIMIT SWITCHES

Tubular motors have an electronic limit switch system with an encoder. This system ensures great reliability and precision in keeping the positions. Limit switch regulation is performed simply with the remote control. During setting, the motor moves only as long as the up or down button is pressed, stopping when the button is released. At the end of setting, press either the up or down button briefly to move the motor.

SETTING THE CLOSING LIMIT SWITCH

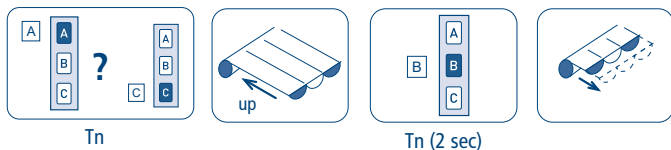
After setting the remote control, it's necessary to set first the closing position!

For cassette-awnings, hold the button pressed until the motor stops automatically on the closing position. For open awnings, hold the button pressed and drive until the necessary closing position.

Notes: - If the awning is completely closed, you have firstly to open it by around 20 cm.
- Because the correct rotation direction will be identified only after the closing position is set, to close the awning, during setting the closing position, it's sometimes necessary to use the "down" button.

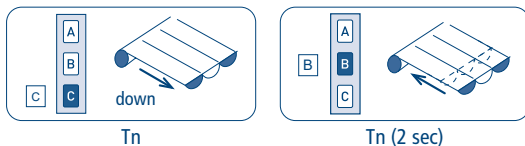
To set the closing position, hold pressed the "stop" button (around 2 sec) until the motor performs a short "down" movement.

Tn: Already programmed remote control



SETTING THE OPENING LIMIT SWITCH

After setting the closing position, open the awning until the necessary opening position by pressing the "down" button. You can use the "up"/"down" buttons to precisely set the opening position (in applications pergolas that allow this, you must press and hold the button until the motor stops automatically to the maximum opening). To set the opening position, hold pressed the "stop" button (around 2 sec) until the motor performs a short "up" movement.

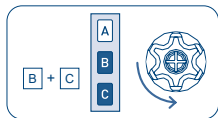


DELETING THE LIMIT SWITCH POSITIONS

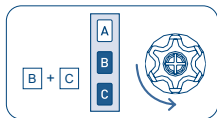
DELETING THE CLOSING LIMIT SWITCH

To delete only the closing limit switch perform the following steps and proceed with "SETTING THE CLOSING LIMIT SWITCH".

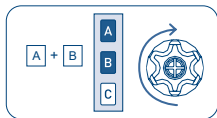
Tn: Already programmed remote control



Tn



Tn

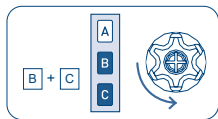


Tn (2 sec)

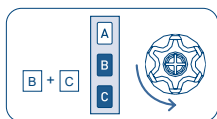
DELETING THE OPENING LIMIT SWITCH

To delete only the opening limit switch perform the following steps and proceed with "SETTING THE OPENING LIMIT SWITCH".

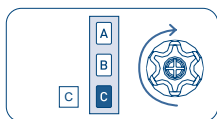
Tn: Already programmed remote control



Tn



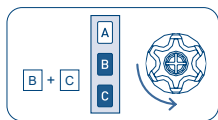
Tn



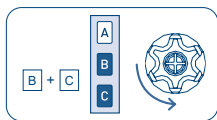
Tn (2 sec)

TOTAL DELETING OF THE LIMIT SWITCHES

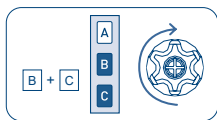
Tn: Already programmed remote control



Tn



Tn



Tn (4 sec)

NB: by deleting the limit switches, the setting of the closing force is maintained (see p. 49).

SETTING A MIDDLE POSITION

This function allows to drive the awning to a favourite middle position. When this middle position is memorized, just press the STOP button for 2 seconds and automatically the motor will move the awning to this position.

To memorize the middle position, move the awning to the desired position and then hold the STOP button down (for about 4 seconds) until the motor gives confirmation.

Tn: Already programmed remote control



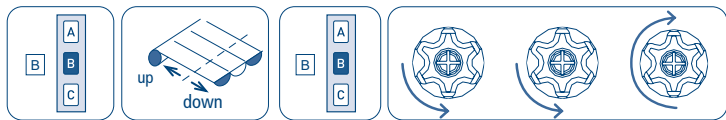
Tn (4 sec)

DELETING THE MIDDLE POSITION

If you want to delete the middle position, it can be done as described below. To change this position, it's also necessary to delete first the memorized middle position.

Before deleting the middle position, the awning must go to the middle position by pressing the STOP button for 2 second, then press the STOP button again (for about 4 seconds) until the motor performs the confirmation movement.

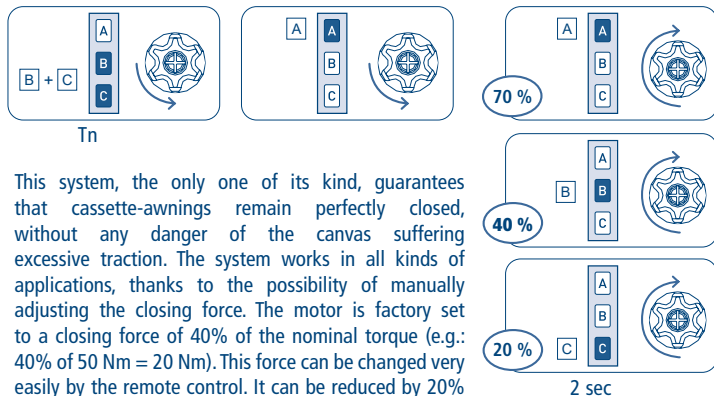
Tn: Already programmed remote control



Tn (2 sec)

Tn (4 sec)

CLOSING FORCE ADJUSTMENT



This system, the only one of its kind, guarantees that cassette-awnings remain perfectly closed, without any danger of the canvas suffering excessive traction. The system works in all kinds of applications, thanks to the possibility of manually adjusting the closing force. The motor is factory set to a closing force of 40% of the nominal torque (e.g.: 40% of 50 Nm = 20 Nm). This force can be changed very easily by the remote control. It can be reduced by 20% or increased up to 70%, depending on the desired result.

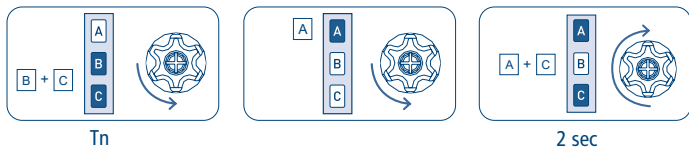
MAXIMUM CLOSING FORCE ADJUSTMENT (100%) - only for motors from 32 Nm -

This function is factory-set for model variant 77.

A close attention on activating this function is recommended, excessive closing force may damage the awning.

By activating this function the motor will apply its maximum nominal torque, (e.g. 100% of 50 Nm = 50 Nm).

Tn: Already programmed remote control

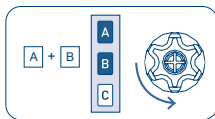


SETTING OF ADDITIONAL REMOTE CONTROLS

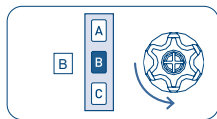
Up to 15 remote controls can be set, including the light/wind sensor.

Tn: Already programmed remote control

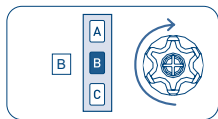
Tx: Additional remote control



Tn



Tn

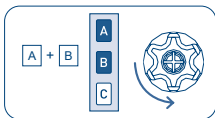


Tx (2 sec)

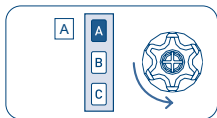
REMOTE CONTROL MEMORY CLEARING

It is possible to delete singly all the memorized remote controls. When the last one is deleted the motor initial condition is restored. The same applies to the single channels of a multichannel remote control: just select the channel to cancel.

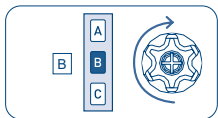
Tn: Remote control to be cleared



Tn



Tn



Tn (2 sec)

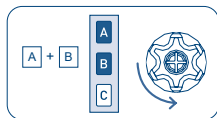
FULL MEMORY CLEARING

This full memory clearing does not delete the setting of the limit switch.

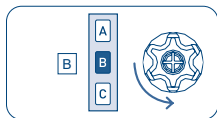
The full memory clearing can be performed in two ways:

1) WITH THE REMOTE CONTROL

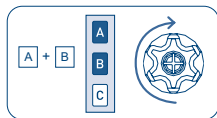
Tn: Already programmed remote control



Tn



Tn



Tn (4 sec)

2) WITH THE WHITE WIRE

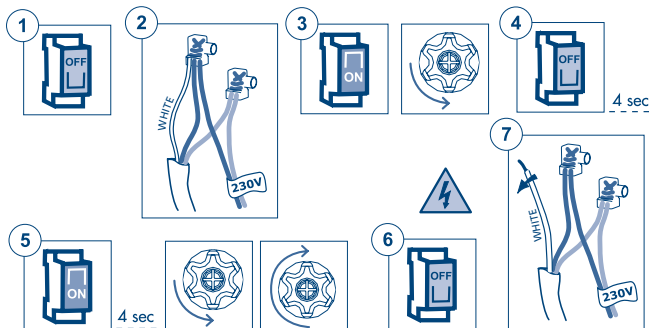
Do this operation only in case of emergency, if all remote controls are no longer operating.

To delete the memory we have to access the white wire of the motor.

The sequence of this operation is the following:

- 1) Disconnect the power supply from the motor, via the main switch for example.
- 2) Connect the white motor wire to the brown wire (phase) or to the blue wire (neutral).
- 3) Connect the power supply to the motor, which rotates briefly in one direction.
- 4) Disconnect the power supply from the motor for at least 4 seconds.
- 5) Connect the power supply to the motor which performs one brief rotation in one direction after around 4 seconds and then a longer one in the opposite direction.
- 6) Disconnect the power supply from the motor.
- 7) Separate the white wire from the brow/blue wire. Insulate the white wire, in an appropriate way, before reconnecting the power supply.

At this point it is possible to proceed with the setting of the first remote control.



SPECIAL FUNCTIONS

ADDITIONAL MIDDLE POSITION

The additional middle position is useful to open the awning automatically through the WindTec Lux sensor and to bring it to a middle position when the light of the environment exceeds the threshold set. This additional middle position can be used only in combination with the light automatism of the WindTec Lux sensor.

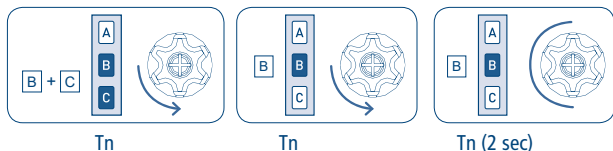
The awning cannot be brought to this position with the remote control.

However, there is the possibility to program the current middle position using the B button (2 sec) command. If the additional middle position is not memorized, the light automatism of the WindTec Lux sensor (when enabled) opens the awning completely. When the WindTec Lux (Set button) sensor is tested, the movements of the motor do not take the additional middle position into consideration: the awning always stops in the half-way position and opens completely if the light exceeds the threshold value.

SETTING THE ADDITIONAL MIDDLE POSITION

After saving the limit switches, carry out the following command sequence:

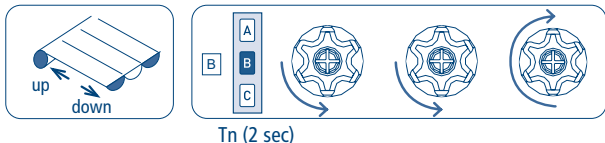
Tn: Already programmed remote control



Starting from this moment, the motor moves in the "DEAD MAN" mode. This makes it possible to regulate the additional middle position in a precise way.

Carry out the following operations:

- Bring the awning to the desired open position.
- Press the B button of the remote control for about 2 seconds, until the motor gives a confirmation signal.



Starting from this moment, when the WindTec Lux commands the opening of the awning through the light automatism (if this is enabled), the awning will be brought to the additional middle position.

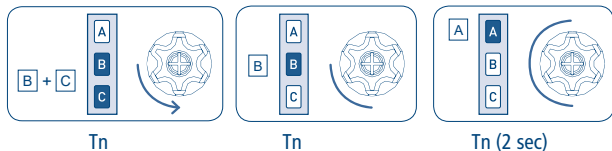
CHANGING THE ADDITIONAL MIDDLE POSITION

To change the additional middle position repeat the procedure described in the previous section.

DELETING THE ADDITIONAL MIDDLE POSITION

Carry out the following command sequence in order to cancel the additional middle position:

Tn: Already programmed remote control



SHORT-TERM SETTING OF A REMOTE CONTROL

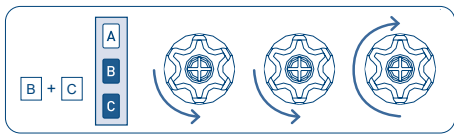
This function makes it possible to store a remote control temporarily, for example, with the purpose of setting the limit switches during assembly in the factory. A later final saving of the remote control will be possible using the appropriate command sequence (see: "SETTING THE FIRST REMOTE CONTROL"). The operations described below can be carried out only when the motor has just come out of the factory or after a full memory clearing (see: "FULL MEMORY CLEARING"). The motor makes the following operations possible only within the time limits described in order to make sure that the short-term setting is used only in the installation or factory setting phase and not during daily use.

Power up the motor, make sure that no other motors having an empty memory are powered up in the same operating range.

Within 30 seconds after start, press the B and C buttons simultaneously until the motor gives a confirmation signal.

The remote control will remain stored for 5 minutes, while the motor is powered up. After 5 minutes or when the motor has its power cut off, the remote control will be cancelled.

T1: First remote control to be set



T1

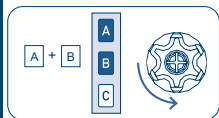
SETTING THE A530058 POCKET REMOTE CONTROL

NB: The new pocket remote control can be set only after programming of a previous remote control as the traditional Cherubini remote controls (Skipper, Giro or POP - 3 buttons Up-Down-Stop remote control).

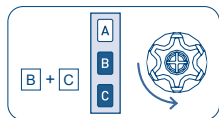
HOW TO PROCEED TO SET THE BUTTON ON THE POCKET REMOTE CONTROL

Tn: Already programmed remote control

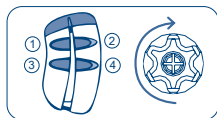
Tx: Pocket remote control to be set



Tn



Tn



Tx (2 sec)

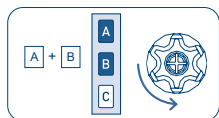
After to have pressed for minimal 2 seconds one of the 4 buttons on the pocket remote control, this one will be memorized on the step-by-step mode (UP-STOP-DOWN-STOP). The following buttons will be not memorized and have to be done with previous described sequence, and could be used to move additional motors.

DELETING ONE BUTTON ON THE POCKET REMOTE CONTROL

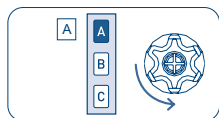
The buttons saved may be deleted individually according to the following sequence:

Tn: Already programmed remote control

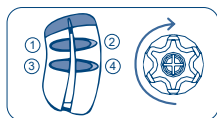
Tx: Pocket remote control with button to be deleted



Tn



Tn



Tx (2 sec)

To confirm the operation the motor will do a short shunt and the button, which has to be pressed for minimal 2 second, will be deleted.

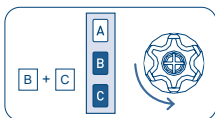
FABRIC TIGHTENING FUNCTION

By programming this function, the motor after reaching the outer limit, automatically performs a short backwards turn to tighten the fabric. Specially designed for pergolas and horizontal awnings.

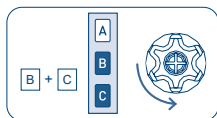
N.B: The programming of this option can be made only after setting the limit switches.

STARTING THE SETTING PROCEDURE:

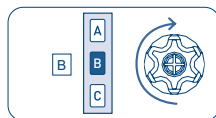
Tn: Already programmed remote control



Tn



Tn

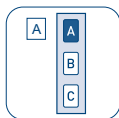


Tn (2 sec)

This first process brings the awning to the open position and sets the motor into "DEAD MAN" operating mode. Thereafter, the fabric tensioning position can be adjusted accurately.

ADJUSTMENT AND CONFIRMATION OF THE TENSIONING POSITION

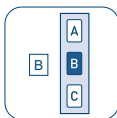
Tn: Already programmed remote control



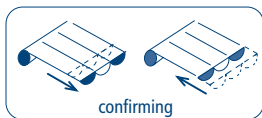
Tn



adjusting



Tn (2 sec)

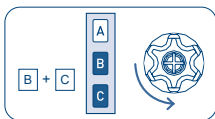


confirming

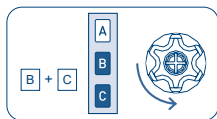
After adjusting and confirming the tensioning position, the motor drives to the open position and returns to the new tensioning position which has just been confirmed. From this moment, each time the motor reaches the open position, automatically it will turn back to the "tensioning position".

DELETING THE TENSIONING POSITION

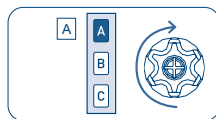
Tn: Already programmed remote control



Tn



Tn



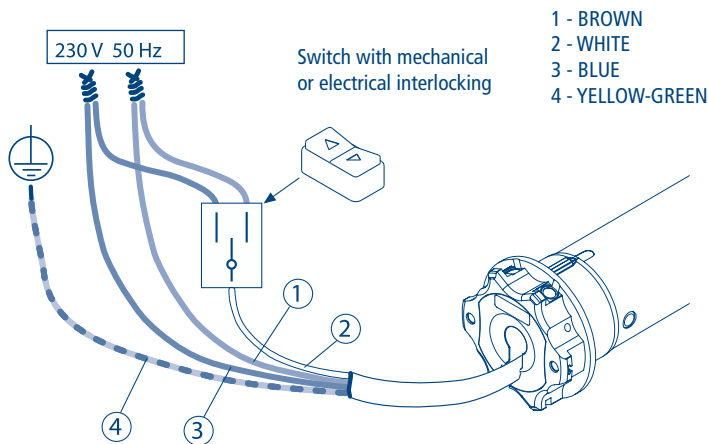
Tn (2 sec)

ELECTRIC WIRING TO MOTOR COMMAND FOR UP-DOWN MODE (2 independent UP-DOWN buttons)

To connect the switch, use only kind of switches with mechanical or electrical interlock, to prevent to press both buttons at same time.

The motor automatically recognizes the switch-type (with 1 or 2 buttons) and sets the proper operational mode.

ENGLISH



WIRE PROGRAMMING

Using the switch as described on this page it's possible to set the motor trough the white wire (wire programming). To find out this procedure, require the instruction pamphlet from your dealer.

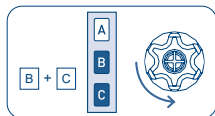
COMMAND MANAGEMENT FROM WHITE WIRE

UP-STOP-DOWN-STOP / UP-DOWN / UP-DOWN "DEAD MAN"

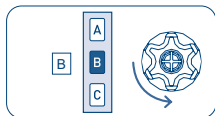
NB: The default function provided in the motors leaving the factory is UP-STOP-DOWN-STOP for singular UP/DOWN button switch. (Not for the switch with two independent UP-DOWN buttons!)

PROCEDURE TO CHANGE THE CONTROL MODE:

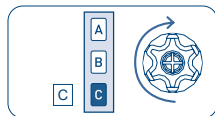
Tn: Already programmed remote control



Tn



Tn



Tn (2 sec)

The possible settings are 3 and are available in the following order:

- UP-STOP-DOWN-STOP (factory setting)
- UP-DOWN (for 2 independent buttons)
- UP-DOWN "DEAD MAN" (for 2 independent buttons)

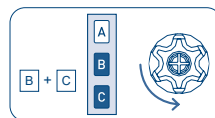
To switch from one setting to the following, perform the sequence as many times as necessary to reach the desired setting.

SUPER-SENSITIVITY OBSTACLE DETECTION MANAGEMENT

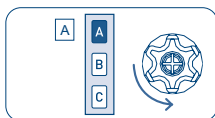
DURING DOWNWARDS MOVEMENT (only for motors up to 25 Nm)

Where required - for example for window screens or screen fabric with a tensioner weight attached - it is possible to activate/deactivate a high level of obstacle detection sensitivity during downwards movement.

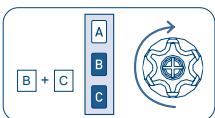
ACTIVATING THE SUPER-SENSITIVITY FUNCTION



Tn

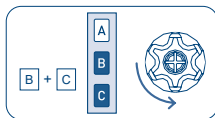


Tn

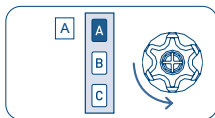


Tn (2 sec)

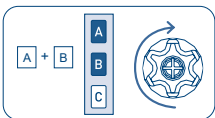
DEACTIVATING THE SUPER-SENSITIVITY FUNCTION



Tn



Tn



Tn (2 sec)

USING THE MOTOR INTO A Z-WAVE NETWORK

DEVICE DESCRIPTION

ORA ZRX and REBIS ZRX are motors for awnings with programmable limit switches, dual-radio control and wired control option.

The dual-radio control allows, on the one hand, the adjustment of the limit switches and the main functions to be carried out simply and interactively and, on the other hand, to be integrated into a Z-Wave network.

The wired control option provides for both programming and motor control, from a simple switch, as an addition or as an alternative to the radio remote control. This product operates in any Z-Wave network with other Z-Wave/Z-Wave Plus certified devices and controllers from any other manufacturer. As a constantly powered node, ORA ZRX will act as repeater regardless of the vendor in order to increase the reliability of the network.

Z-WAVE TECHNICAL SPECIFICATION

Power supply	230 VAC \pm 10% 50 Hz
Operating temperature	From -10° to 40° C
Power consumption in stand-by	< 1W
Radio frequency	868,4 MHz
Protection system	S2 Security
Maximum range	up to 100 m outdoor up to 40 m indoor
Compliance	CE, RoHs
Electrical IP Rating	IP44

DEVICE INSTALLATION

- 1) Carry out motor preparation and installation on the awning
- 2) Wire up the electrical connections
- 3) Program the limit switches, the adjustments and the sensor associations as described in the product installation manual.
- 4) Include the device in the Z-Wave network

It is advisable to carry out all the preparation, installation and adjustment operations before including the motor in the Z-Wave network. Although it is possible to include the motor in a Z-Wave network, most features will not be active until the limit switches are adjusted. In particular, the following are not active:

- Movements control and position reporting
- Notifications sending
- Movements requested by "COMMAND_CLASS_INDICATOR" class

These limitations are necessary to limit the possibility of damage to the fabric and awning structure, as well as to protect the safety of the installer.

INCLUSION/EXCLUSION THE DEVICE INTO/FROM A Z-WAVE NETWORK (classic)

ORA ZRX and REBIS ZRX are compatible with all Z-Wave/Z-Wave Plus certified controllers. The devices support both the **Network Wide Inclusion** (which offers the ability to be included in a network, even if the device is not directly connected to the controller) and **Standard Inclusion**.

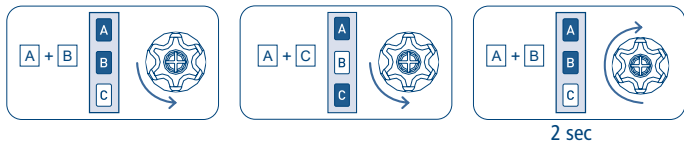
By default setting, the inclusion procedure starts in **Standard Inclusion** mode and after a short timeout the procedure continues in **Network Wide Inclusion** mode that lasts for about 20 Seconds.

STANDARD INCLUSION (INCLUSION/EXCLUSION)

Make sure that the motor is powered and possibly connected to an up/down button if you wish to use the wired programming sequence, or have a remote control already saved in the motor. Before starting the inclusion process, make sure that the motor is not already included in a Z-Wave network; if it is already included, perform the procedure described below: first time to exclude the motor, second time to include it into the proper Z-Wave network.

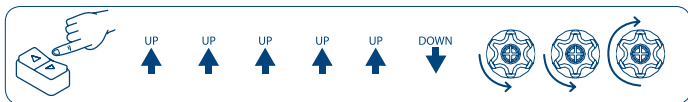
The sequence of operations for inclusion/exclusion procedure is as follows:

- 1) Prepare the Z-Wave controller for inclusion (or exclusion) of a device (see your controller's instructions).
- 2) On the motor, run the programming sequence for inclusion/exclusion:
 - a. By the remote control: AB - AC - AB (2 seconds), wait for confirmation movements.

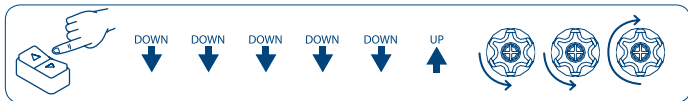


- b. By the button (if the end stops are not adjusted, you can use either sequence indifferently):

- i. With the motor on the high limit switch: UP-UP-UP-UP-UP-DOWN



- ii. With the motor on the low limit switch: DOWN-DOWN-DOWN-DOWN-DOWN-UP



- 3) The motor performs a few short movements to signal that the inclusion (or exclusion) procedure is in progress.
- 4) Check the controller to verify that the procedure was successful.

SMARTSTART INCLUSION

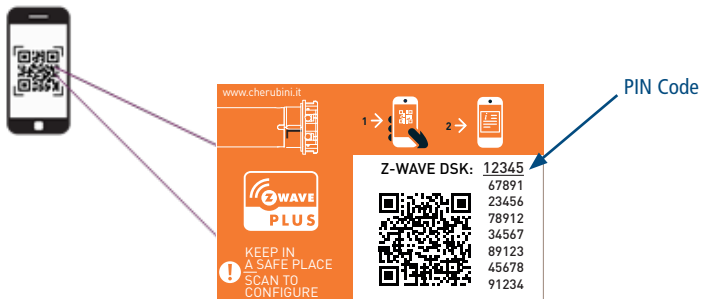
Z-Wave SmartStart aims to shift the tasks related to inclusion of an end device into a Z-Wave network away from the end device itself, and towards the more user-friendly interface of the gateway.

Z-Wave SmartStart removes the need for initiating the end device to start inclusion. Inclusion is initiated automatically on power-ON, and repeated at dynamic intervals for as long as the device is not included into a Z-Wave network. As the new device announces itself on power-ON, the protocol provides notifications, and the gateway can initiate the inclusion process in the background, without the need for user interaction or any interruption of normal operation. The SmartStart inclusion process only includes authenticated devices.

ORA ZRX and REBIS ZRX can be added into a Z-Wave network by scanning the Z-Wave QR Code attached to the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product is added automatically within 10 minutes after being switched on inside the network range.

The QR code and the DSK are shown in numerical format on the label attached to the motor cable. The PIN is the first group of 5 digits printed underlined. To facilitate consultation of these codes, the label has a detachable, self-adhesive part, which can be kept in the instruction manual, or applied in an easily accessible place on the roller shutter (box or final slat).

S2 SECURE INCLUSION



The PIN code of the Z-Wave Device Specific Key (DSK) is required when adding the ORA ZRX or the REBIS ZRX to a Z-Wave network with a controller supporting Security 2 Authenticated (S2). The unique DSK code is printed on the product label. The first five digits of the key are highlighted and underlined to help the user identify the PIN code portion of the DSK text.

DEVICE CONTROL

CONTROLLING THE MOTOR BY REMOTE AND EXTERNAL SWITCHES

ORA ZRX and REBIS ZRX can also be controlled by radio remote control and by wired button.

The radio remote control is extremely useful when installing the motor on the awning, to set the limit switches and perform all programming and association functions with the climate sensors. After the first installation, the remote control can still be used as a local control point. All information regarding compatible devices and programming methods are described in the product installation manual.

From the remote control, you can execute the basic commands:

- Closing the awning: press and release the UP button
- Opening the awning: press and release the DOWN button
- Stop the awning: press and release the STOP button.

ORA ZRX and REBIS ZRX can also be controlled by a wired button, both single and a double-action (up/down).

With the single action button, the operation is as follows:

- Each time the button is pressed/released, the motor will perform the following operations in sequence: Closing, Stopping, Opening, Stopping and so on.

With the double-action button:

- Closing the awning: press and release the UP button
- Opening the awning: press and release the DOWN button
- Stop the awning: press and release the UP or DOWN button while the motor is moving.

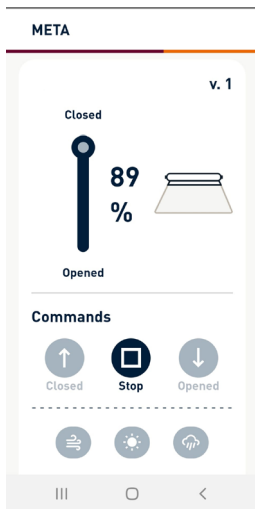
Factory default setting:

- No remote control is associated with the motor. The motor can be controlled via a wired button, but until the limit switches are set, it moves in 'dead man' mode: when the button is released, the motor stops.
- As long as the limit switches are not set, the direction of movement of the motor may be reversed, compared to the remote control and the wired double-action button. The direction is correctly identified automatically by the motor itself when the limit switches are set and cannot be changed.

Further information about the operation of the remote control and the wired button can be found in the product installation manual.

CONTROLLING THE MOTOR WITH A Z-WAVE CONTROLLER

ORA ZRX and REBIS ZRX can be controlled by any Z-Wave / Z-Wave Plus certified controller available in the market. In the figure below it's shown how the device will appear once included into the WiDom Multi Sensor Room Controller.

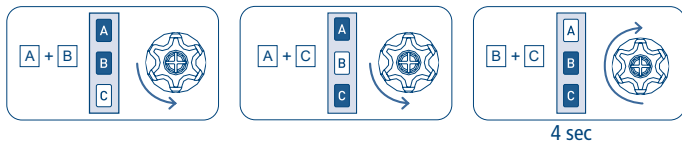


The Up/Down/Stop buttons in the control panel allow to Open/Close/Stop the awning. Using the slider it is possible to set the opening level of the awnings. The device status is updated in case of status change.

RESET TO THE FACTORY SETTINGS

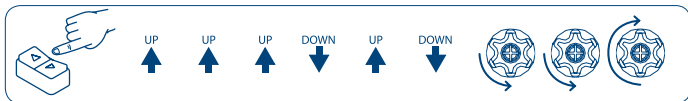
The Z-Wave configuration of the ORA ZRX motor can be reset to the original factory values with the following programming sequence:

- 1) From the remote control: AB - AC - BC (4 seconds), wait for confirmation movements to be executed.

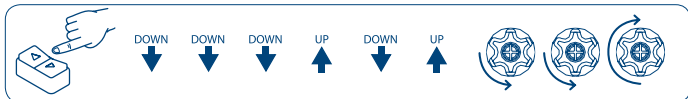


- 2) From the button (if the end stops are not adjusted, you can use either sequence indifferently):

- a. With the motor on the high limit switch: UP-UP-UP-DOWN-UP-DOWN



- b. With the motor on the low limit switch: DOWN-DOWN-DOWN-UP-DOWN-UP



i **INFO:** If the reset is performed while the device is still part of a network, it notifies the other devices in the lifeline group that it has been removed (Device Reset Locally Notification).

FIRMWARE UPDATE

The system supports over-the-air firmware updates that do not require the device to be removed from its location. The firmware update can be activated from all certified controllers supporting version 2 of the Firmware Update function.

! **WARNING:** The system will be rebooted at the end of the firmware update procedure. It is advisable to carry out the firmware update procedure only when necessary and following careful planning of the intervention.

ADVANCED SETTINGS

SUPPORTED COMMAND CLASSES

Command Class	Version	Non-Secure CC	Secure CC
COMMAND_CLASS_ZWAVEPLUS_INFO	2	x	
COMMAND_CLASS_APPLICATION_STATUS	1	x	
COMMAD_CLASS_INDICATOR	2		x
COMMAND_CLASS_ASSOCIATION	2		x
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION	3		x
COMMAND_CLASS_ASSOCIATION_GRP_INFO	2		x
COMMAND_CLASS_TRANSPORT_SERVICE	1	x	
COMMAND_CLASS_VERSION	2		x
COMMAND_CLASS_MANUFACTURER_SPECIFIC	2		x
COMMAND_CLASS_POWERLEVEL	1		x
COMMAND_CLASS_CONFIGURATION	4		x
COMMAND_CLASS_SECURITY_2	1	x	
COMMAND_CLASS_SUPERVISION	1	x	
COMMAND_CLASS_FIRMWARE_UPDATE_MD	5	x	x
COMMAND_CLASS_BASIC	2		x
COMMAND_CLASS_WINDOW_COVERING	1		x
COMMAND_CLASS_MULTILEVEL	4		x
COMMAND_CLASS_NOTIFICATION	8		x
COMMAND_CLASS_PROTECTION	2		x

"COMMAND_CLASS_BASIC" SUPPORT

The device supports Indicator V3 with Indicator ID 0x50 (identity).

"COMMAND_CLASS_INDICATOR" SUPPORT

The device supports Indicator V3 with Indicator ID 0x50 (identity).

When the device receives an indicator set, the motor will perform opening and closing movements of the awning. The number of movements will be a maximum of 15, with a minimum stroke time of 0.5 s, and a minimum pause time of 0.5 s.

Note: to prevent damage to the fabric and tent structure, movements are only performed if the end switches have been saved.

"COMMAND_CLASS_NOTIFICATION" SUPPORT

The device is able to send a System notification based on the information provided by the sensors linked to the motor:

- Rain: A520016 Rugiada
- Wind: A520007 Windtec, A520012 Mistral
- Wind - Light: A520008 Windtec Lux

Notification Event Code	The meaning associate to the event
9 (Digital Input State)	Wind above a threshold
10 (Digital Input State)	Light above a threshold
11 (Digital Input State)	Rain above a threshold
3 (System Error Failure)	This notification is sent when the motor reach an obstacle during its operation. The parameter event associate to this event is 1 Byte with the following meaning: 1) collision during opening 0) collision during closing

“COMMAND_CLASS_NOTIFICATION” CONTROL

When the motor receives a System Notification, it reacts by opening/closing and setting the protection.

The logic of processing notifications is as follows:


Notification Event Code	The meaning associate to the event
9 (Digital Input State)	Wind above a threshold
10 (Digital Input State)	Light above a threshold
11 (Digital Input State)	Rain above a threshold


- If the wind blows above the threshold: closing of the awning, activating the movement lock
- If the wind blows below the threshold: after 8 minutes, deactivation of the movement lock and reopening of the awning to the position before the wind alarm (if the motor has been programmed to perform this operation).
- With wind under the threshold:
 - o If rain is present: opening or closing of the the awning the motor has been programmed depending on how to perform this operation.
 - o If no rain: no operation
- With wind under the threshold and no rain:
 - o If the light goes above threshold: opening of the awning.
 - o o If the light goes under the threshold: closing of the awning.

ASSOCIATIONS

The device supports 4 association groups, each of which supports the association of up to 5 devices (nodes):

Group ID	Group Name	N° max node	Description	Command sent
1	Lifeline	5	Life Line Group	Windows Covering report, Switch Multilevel report, Device Reset Locally Notification, Notification Report
2	Follow-me	5	The device in this group will follow the device level.	Basic Set
3	Scene Activation	5	Receive an activation Scene ID if an obstacle are reach during its operation. The scene Id can be define by using parameters 30, 31.	Scene Activation Set
4	Follow-me Weather	5	The device in this group will follow the device level if the change is due by the weather condition. The parameter Id sent by this command can be configured by using parameter 32.	Windows Covering Set

 **INFO:** Association ensures direct transfer of control commands between devices, and is performed without participation of the main controller.

 **TIP:** To avoid network delays, we recommend limiting the amount of associated devices to no more than 5 per group.

CONFIGURATIONS

SCENE ACTIVATION

Parameter No. 30: OPEN_COLLISION_SCENE_ID (2 byte), simple.

Scene ID sent if a collision is detected during opening operation.

Configuration	Result
0 (Default value)	Do not send the scene activation
From 1 to 254	The scene ID sent for the collision during opening

Parameter No. 31: CLOSE_COLLISION_SCENE_ID (2 byte), simple.

Scene ID sent if a collision is detected during closing

Configuration	Result
0 (Default value)	Do not send the scene activation
From 1 to 254	The scene ID sent for the collision during closing

Parameter No. 32: PARAM_ID (1 byte), simple. Parameter ID used by the window covering set on group: Follow me weatherFollow me weather.

Configuration	Result
From 0 to 23	Send the Window covering set using this parameter ID
13 (Default value)	

Parameter No. 33: MOVEMENT_TRIGGER (1 byte), advanced, read-Only.

Read Only parameter used to tell the reason of the last movement 0.

Configuration	Result
0 (Default value)	Request by the user
1	Wind
2	Sun
3	Rain

Parameter No. 34: AUTOMATION_CONFIG (1 byte), advanced. The value of this parameter is the sum of Wind, Sun and Rain status. It can be used to set the automation status. Since Automation for Wind and Rain are always activated the only valid values are: 5 to disable the Sun automation 7 to enabled it.

Configuration	Result
0: not set, 1: set	Wind Automation
0: not set, 2: set	Sun Automation
0: not set, 4: set	Rain Automation

Default value: 5

Parameter No. 35 SENSOR_ACTIVATION_STATUS (1 byte), advanced, read only. It allows to know which sensor has been associated to the motor. The value of this parameter is the sum of Wind, Sun and Rain status.

Configuration	Result
1: Wind Sensor associated, 0: sensor not associated	Wind Sensor
1: Sun Sensor associated, 0: sensor not associated	Sun Sensor
1: Rain Sensor associated, 0: sensor not associated	Rain Sensor

Default value: 0

Parameter No. 36 LOST_LIFE_SIGNAL (1 byte), advanced, read only. It allows you to know if the radio connection is operative or if the motor has lost the connection with its sensors.

Configuration	Result
0 (Default value)	Connection with the sensor is operative
1	Connection with the sensor has been lost

Parameter No. 37: LEVEL_REPORT_PERIOD (2 byte), advanced. Used to define the level report frequency when the motor is moving. Valid values are from 2 (report updated every 2 seconds) to 60 (report updated every 60 seconds).

Configuration	Result
From 2 to 60	Time between reports in seconds
5 (Default value)	

Parameter No. 38: SEND_MULTILEVEL_REPORT (1 byte), advanced. For backward compatibility the device can send the multilevel report together with the Switch Multilevel report in addition to the update with Windows Covering report.

Configuration	Result
0 (Default value)	Multilevel report will not be sent
1	Multilevel report will be sent

IT DICHIARAZIONE DI CONFORMITÀ UE

CE CHERUBINI S.p.A. dichiara che il prodotto è conforme alle pertinenti normative di armonizzazione dell'Unione:

Direttiva 2014/53/UE, Direttiva 2011/65/UE.

Il testo completo della dichiarazione di conformità UE è disponibile facendone richiesta sul sito: www.cherubini.it.

EN EU DECLARATION OF CONFORMITY

CE CHERUBINI S.p.A. declares that the product is in conformity with the relevant Union harmonisation legislation:

Directive 2014/53/EU, Directive 2011/65/EU.

The full text of the EU declaration of conformity is available upon request at the following website: www.cherubini.it.

DE EU-KONFORMITÄTSERKLÄRUNG

CE CHERUBINI S.p.A. erklärt der produkt erfüllt die einschlägigen Harmonisierungsrichtsvorschriften der Union:

Richtlinie 2014/53/EU, Richtlinie 2011/65/EU.

Der vollständige Text der EU-Konformitätserklärung kann unter unserer Web-Seite www.cherubini.it, gefragt werden.

FR DÉCLARATION UE DE CONFORMITÉ

CE CHERUBINI S.p.A. déclare que le produit est conforme à la législation d'harmonisation de l'Union applicable:

Directive 2014/53/UE, Directive 2011/65/UE.

Le texte complet de la déclaration UE de conformité est disponible en faisant requête sur le site internet: www.cherubini.it.

ES DECLARACIÓN UE DE CONFORMIDAD

CE CHERUBINI S.p.A. declara que el producto es conforme con la legislación de armonización pertinente de la Unión:

Diretiva 2014/53/UE, Directiva 2011/65/UE.

El texto completo de la declaración UE de conformidad puede ser solicitado en: www.cherubini.it.

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