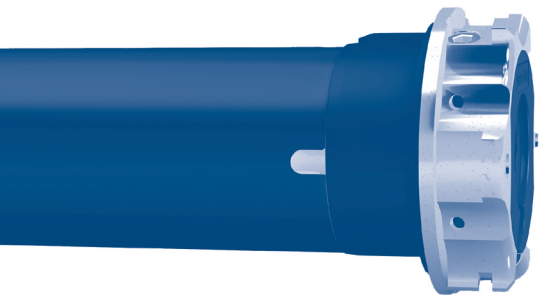


## WAVE WIRE



MOTORE TUBOLARE CON REGOLAZIONE MANUALE  
DEL FINECORSO ELETTRONICO PER  
TENDE DA SOLE E SCREEN

**IT**

TUBULAR MOTOR WITH MANUAL ADJUSTMENT  
OF THE ELECTRONIC LIMIT SWITCH FOR  
AWNINGS AND SCREENS

**EN**

ROHRMOTOR MIT MANUELLER EINSTELLUNG  
DER ELEKTRONISCHEN ENDLAGEN ZU  
MARKISEN UND SCREENS

**DE**

MOTEUR TUBULAIRE AVEC RÉGLAGE MANUEL  
DES FINS DE COURSE ÉLECTRONIQUES  
POUR STORES ET SCREENS

**FR**

MOTOR TUBULAR CON REGULACIÓN MANUAL  
DEL FIN DE CARRERA ELECTRONICO  
PARA TOLDO Y SCREEN

**ES**





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**EU DECLARATION OF CONFORMITY**

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

Directive 2014/35/EU

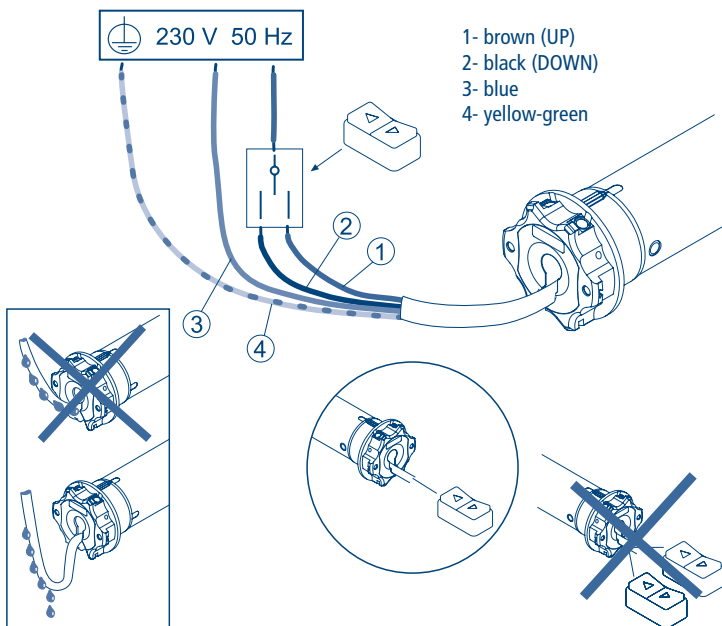
Directive 2014/30/EU

Directive 2011/65/EU

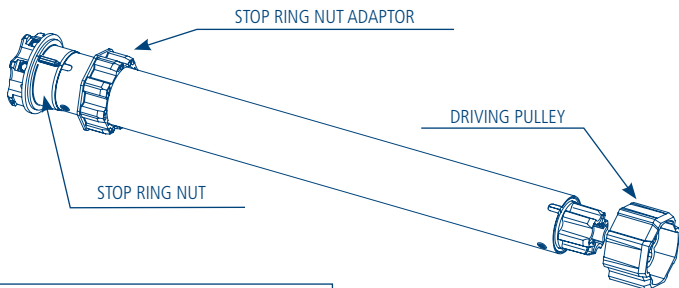
The full text of the EU declaration of conformity is available upon request at the following website: [www.cherubini.it](http://www.cherubini.it).

## ELECTRICAL CONNECTIONS

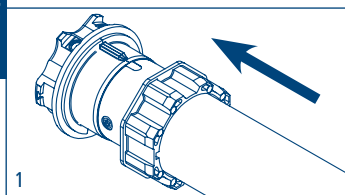
- To prevent any danger or malfunction, the size of electrical control components connected to the motor must be compatible with the electrical features of the motor.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the national installation standards.
- The selectors inverting the direction of rotation of the motor must be provided with mechanical interlocking.
- Invert the brown and the black conductor to change the direction of rotation.
- **NEVER** connect two or more selectors to the same motor.
- For outdoor use, provide the appliance with a supply cord with designation H05RN-F containing at least 2% of carbon.
- Cable length between motor and control-switch maximal 50 m.  
In case of cable length more than 50 m an interface-relay have to be used.



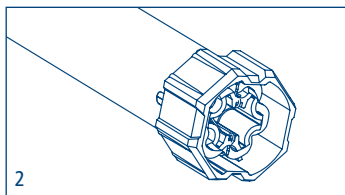
## HOW TO PREPARE THE MOTOR



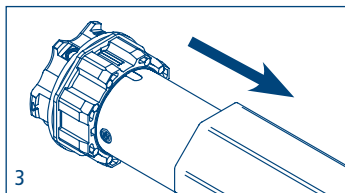
ENGLISH



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



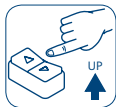
2. Fix the driving pulley on the motor pin until the stop pin clicks.



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.

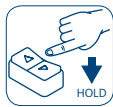
## KEY TO SYMBOLS



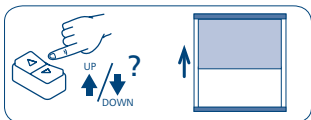
Press the  
UP-button



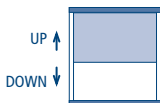
Press the  
DOWN-button



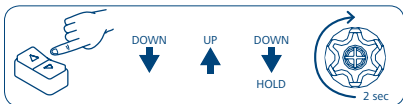
Press and hold  
down the button



Press the up or down button to raise  
the awning



Motor  
rotation to  
confirm



Press the buttons as indicated in rapid sequence and hold the button  
down at the step marked by "HOLD", to check the motor confirmation  
movement.

## COMAND SEQUENCES EXAMPLE

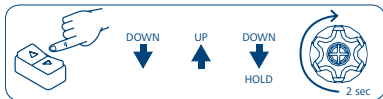
Most of the command sequences have three or six distinct steps.

The buttons should be pressed quickly (<0.5 sec) as indicated in the sequence.

The time interval between each step should not be more than 1 second, otherwise the  
command sequence will be cancelled.

To receive confirmation that the sequence has been accepted by the motor, the button  
must be held down at the final step marked by HOLD.

Command sequence example in 3 steps:



**Attention!** If the sequence requires a repetition of the same commands  
(Up+Up/Down+Down), an interposition of the Stop position could be necessary  
depending on the type of switch in use.

## LIMIT SWITCH SETTING

The motor can learn the limit switches only in manual mode.

As long as both of the limit switch positions have not been learned, the motor will move briefly, stop and then start back up again.

### PROCEDURE FOR LIMIT SWITCH SETTING

Depending on your individual needs, it's possible to learn first either the upper or the lower limit switch.

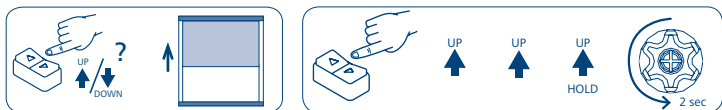
#### EXAMPLE 1:

#### SETTING THE UPPER LIMIT SWITCH AS FIRST POSITION

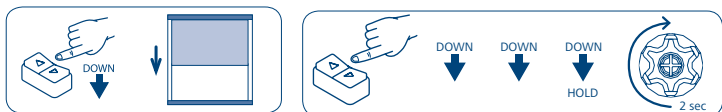
If the awning is already completely closed up, it must be first opened out to about 20 cm, then proceed as follows.

Using the button switch, bring the awning up to the desired position (for cassette-awnings, hold the button pressed until the motor stops automatically on the closing position).

To set the upper limit switch position perform the indicated sequence of commands (UP-UP-UP) with the button to be linked to the ascent.



Using the button to be linked to descent bring the awning down to the desired position. To set the lower limit switch position perform the indicated sequence of commands (DOWN-DOWN-DOWN).



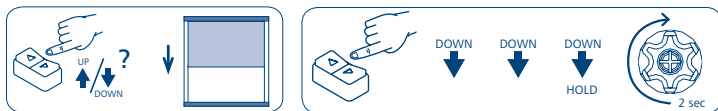
## EXAMPLE 2:

### SETTING THE LOWER LIMIT SWITCH AS FIRST POSITION

If the awning is already completely lowered, it must be first raised about 20 cm, then proceed as follows.

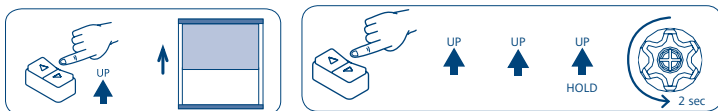
Using the button switch, bring the awning down to the desired position.

To set the lower limit switch position perform the indicated sequence of commands (DOWN-DOWN-DOWN) with the button to be linked to descent.



Using the button to be linked to ascent bring the awning up to the desired position (for cassette-awnings, hold the button pressed until the motor stops automatically on the closing position).

To set the upper limit switch position perform the indicated sequence of commands (UP-UP-UP).





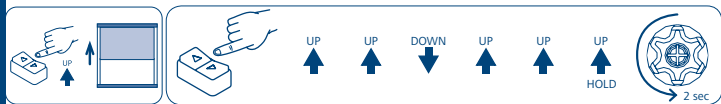
## CHANGING LIMIT SWITCHES

The following command sequences may be performed only after the limit switches have been set and only when the motor is in one of the two limit switch positions.

### DELETING OF SINGLE LIMIT SWITCH POSITIONS

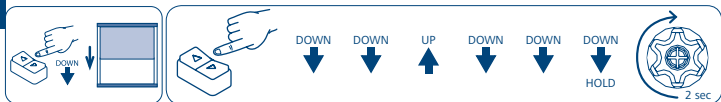
Deleting of the UPPER limit switch.

Take the awning to the upper limit switch and perform the sequence:



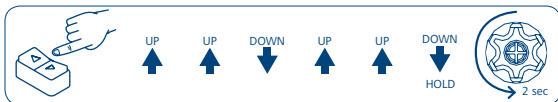
Deleting of the LOWER limit switch.

Take the awning to the lower limit switch and perform the sequence:

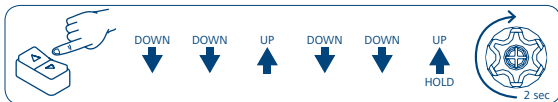


### DELETING OF ALL LIMIT SWITCH POSITIONS

From the UPPER position



From the LOWER position



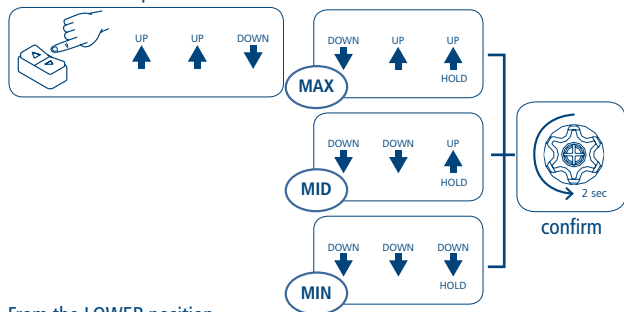
Deleting of one or both limit switches is indicated by the motor pausing briefly before moving again until both limit switch positions have been memorised again.

**PLEASE NOTE:** When the limit switches are deleted, the super-sensitivity settings are also deleted.

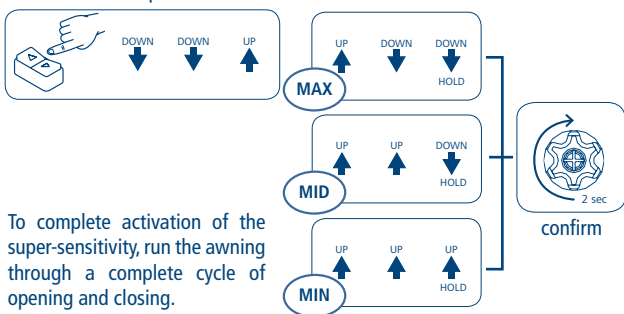
## ACTIVATION AND ADJUSTMENT OF THE SUPER-SENSITIVITY

The super-sensitivity feature for obstacles when descending may be enabled on three levels only after both limit switches have been set.

From the UPPER position



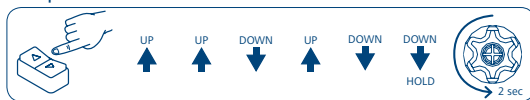
From the LOWER position



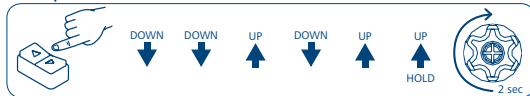
To complete activation of the super-sensitivity, run the awning through a complete cycle of opening and closing.

## DEACTIVATION SUPER-SENSITIVITY FUNCTION

From the UPPER position



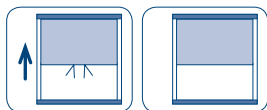
From the LOWER position



## LIMIT SWITCHES AND OBSTACLE DETECTION

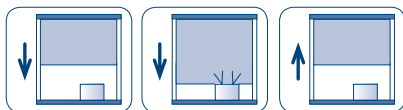
### Obstacle detection in ASCENT

Obstacle detection in ascent is enabled only after both the limit switches have been set. In the event of obstacle detection in ascent, the motor will stop without making any movements backwards.



### Obstacle detection in DESCENT

In the event of obstacle detection in descent, with the super-sensitivity feature on, the motor stops and makes a backwards safety movement.

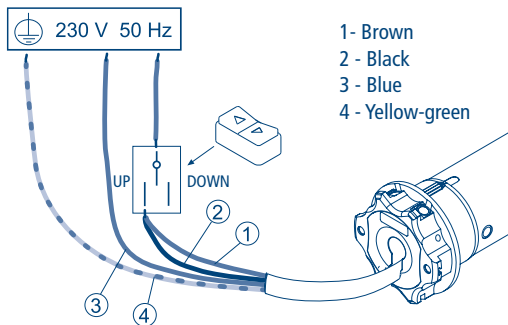


## RESTORING THE ORIGINAL CONFIGURATION

**PLEASE NOTE:** recovery of the default configuration will delete the limit switches and disabling the super-sensitivity.

To restore the original motor configuration perform the procedure as described below:

- Connect both the brown and black motor wires under the same switch, e.g. UP.



- Press the UP button for at least 2 seconds.
- Disconnect and then restore the original control switch electrical connections (see page 13).

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