Product Information

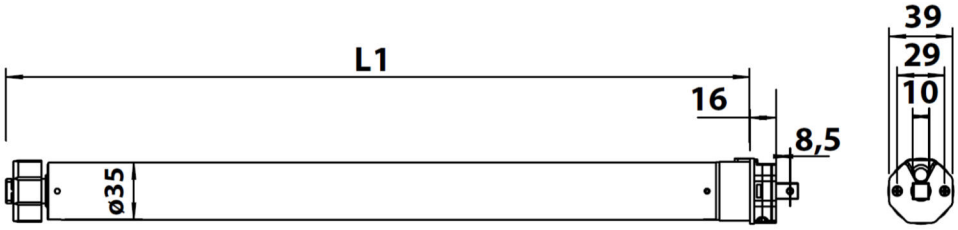
General	
Name:	VL-ME-WISO-230-35Q/6Nm VRS
Article number:	01066400
OEM or STANDARD:	Standard
Application:	Roller Blind/ Screen/ Sunshade

Product photo:

Product label:

Dimensions:

L1 = 570mm



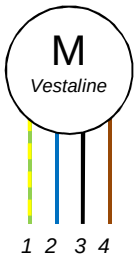
Specifications:

Supply voltage:	230V AC / 50Hz
Rated power:	121 W
Rated current:	0,53 A
Tractive power (maximum):	17 kg
Torque:	6 Nm
Running time:	4 min.
Speed:	28 rpm
IP class:	IP 44
Dimensions (length x tube diameter):	570 x 35 mm
Conformity:	CE
Cable type:	2,5m cable 4G0.75mm S05RNF
Radio frequency:	868 MHz

.

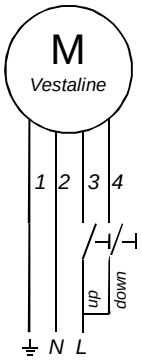
How to connect:

Connection Details



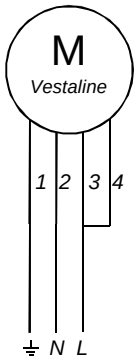
1 Protected Earth
2 Neutral
3 UP
4 DOWN

Switch Operation



⏚ Protected Earth
N Neutral
L Line (230VAC/50Hz)

Radio Operation



⏚ Protected Earth
N Neutral
L Line (230VAC/50Hz)

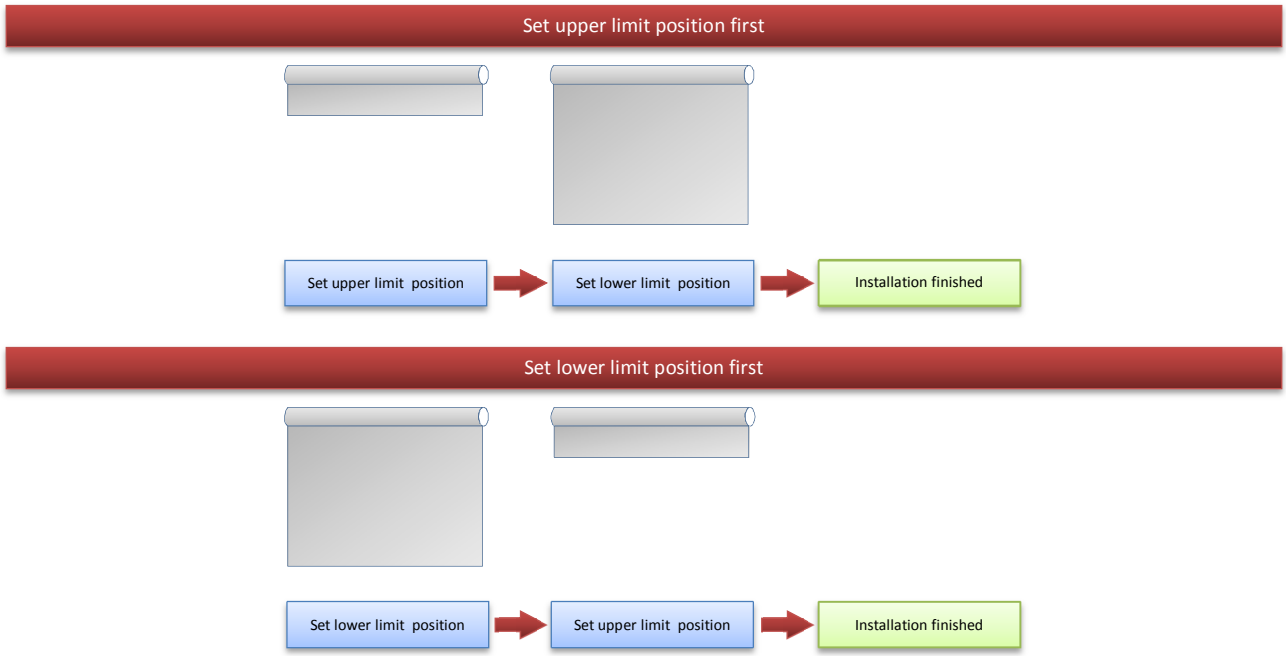
Features and functions:

- Electronic limit position setting
- Quiet version
- Limit positions can be virtual or physical
- Operation by Switch or Radio (not both)
- Intermediate positions storage (Radio Operation)
- Parallel connection allowed
- Motor can be programmed with the “VL-Progset-ME/SMI-230” art.no.: 54185775.
- Re-synchronisation of physical limit positions
- 2.5 m white cable (varying lengths available on request)
- Large amount of accessories (tube adapter, brackets)

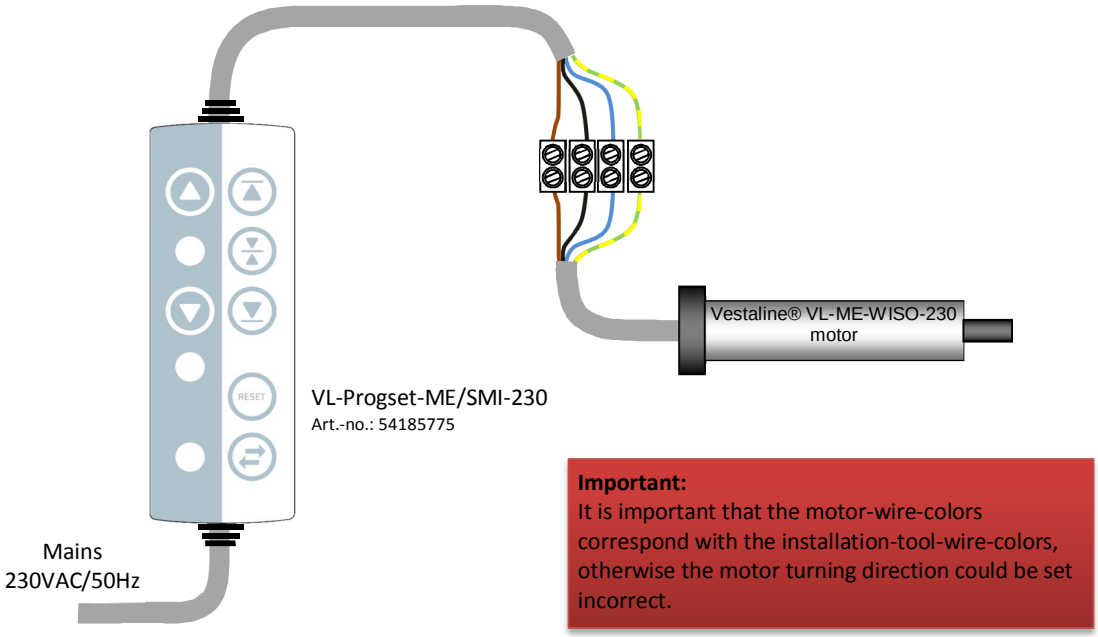
How to set upper and lower limit position

Installation

The upper and lower limit positions of the Vestaline motor can be set in different order. Following overview shows how the motor will react for the different scenarios:

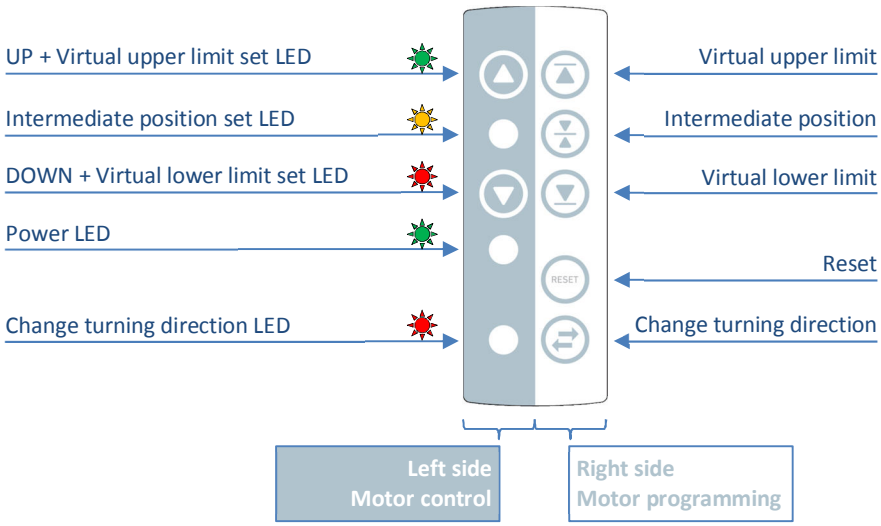


How to connect to an Installation tool



Important:
It is important that the motor-wire-colors correspond with the installation-tool-wire-colors, otherwise the motor turning direction could be set incorrect.

Installation tool in detail



Motor control

Button Control motor in UP direction.
When the motor moves DOWN, when pressing the UP button, the turning direction of the motor should be corrected by pressing change motor direction button.

LED Virtual upper limit position LED:
- Off — when no "Virtual upper limit" is set.
- Blinking — when "Virtual upper limit" or "Reset" programming is in progress.
- Lit solid — when virtual upper limit programming sequence has completed.

Button -

LED Intermediate position LED:
- Off — when no "Intermediate position" is set.
- Blinking — when "Intermediate position" or "Reset" programming is in progress.
- Lit solid — when Intermediate position programming sequence has been completed.

Button Control motor in DOWN direction.
When the motor moves UP, when pressing the DOWN button, the turning direction of the motor should be corrected by pressing change motor direction button.

LED Virtual lower limit position LED:
- Off — when no "Virtual lower limit" is set.
- Blinking — when "Virtual lower limit" or "Reset" programming is in progress.
- Lit solid — when virtual lower limit programming sequence has completed.

Button -

LED Power LED:
- Off — when powerless (it is safe to connect a motor to the Installation Tool).
- Lit solid — when attached to mains 230VAC.

Button -

LED Change turning direction LED:
- Blinking — when "Change turning direction" is in progress.

Motor programming

Button Set virtual upper limit position.
LED -

Button Set intermediate position
(not supported by 230VAC SWITCH motor).
LED -

Button Set virtual lower limit position.
LED -

Button Reset.
LED -

Button Change motor turning direction.
LED -

Motor reset

Motor reset will erase the limit positions. The motor turning direction and obstacle detection status will be left unchanged.

Description

1. Press the reset button, till the 3 upper LEDs (virtual upper limit set LED, intermediate position set LED and virtual lower limit set LED) start blinking.

2. The 3 upper LED's (virtual upper limit set LED, intermediate position set LED and virtual lower limit set LED) keep blinking as long as the motor reset process is in progress.

3. When the reset process is finished, the 3 upper LEDs (virtual upper limit set LED, intermediate position set LED and virtual lower limit set LED) turn off, the motor limit positions have been cleared, and can be set again.

Remark
The motor will shortly move during the reset sequence. This is normal.

Changing motor turning direction

When the motor reacts in opposite direction (when motor goes down when you press up and vice-versa), you need to change the motor direction. Motor direction can only be changed during installation phase, when no limit positions are set.

Description

1. Press the change motor turning direction button shortly.
2. The change motor turning direction LED starts blinking as long as the change motor turning direction process is in progress.
3. When the change motor turning direction process is finished, the change motor turning direction LED turns off, the motor turning direction is changed.

Now, when operating the motor you will notice that the motor reacts in the correct direction in relation to your installation tool (motor goes up when you press up and vice-versa).

Setting upper virtual limit position

This sequence will store the current motor position as a virtual upper limit position.

Description

1. Press the virtual upper limit button shortly.
2. The virtual upper limit LED start blinking as long as the set-virtual-upper-limit process is in progress.
3. When the set-virtual-upper-limit process is finished, the virtual upper limit LED lit solid, the motor upper virtual limit position is set.

Setting lower virtual limit position

This sequence will store the current motor position as a virtual lower limit position.

Description

1. Press the virtual lower limit button shortly.
2. The virtual lower limit LED start blinking as long as the set-virtual-lower-limit process is in progress.
3. When the set-virtual-lower-limit process is finished, the virtual lower limit LED lit solid, the motor lower virtual limit position is set.

Setting intermediate position

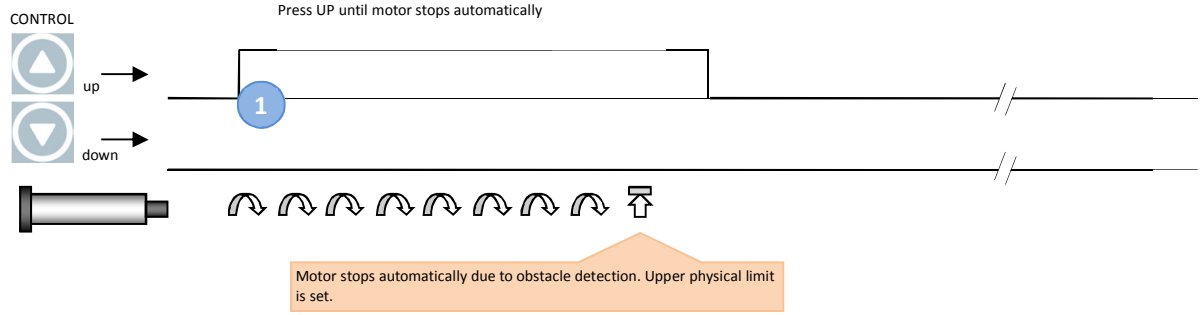
This sequence will store the current motor position as intermediate position (not supported by 230VAC SWITCH motor). Before setting the intermediate position, the upper and lower limit position should be set and confirmed.

Description

1. Press the intermediate position button shortly.
2. The intermediate position LED start blinking as long as the set-intermediate-position process is in progress.
3. When the set-intermediate-position process is finished, the intermediate position LED lit solid, the motor intermediate position is set.

Setting upper physical limit position

This sequence will set the upper physical limit position. **Important:** the application in which the motor is installed, must be suitable for upper physical limit position detection.

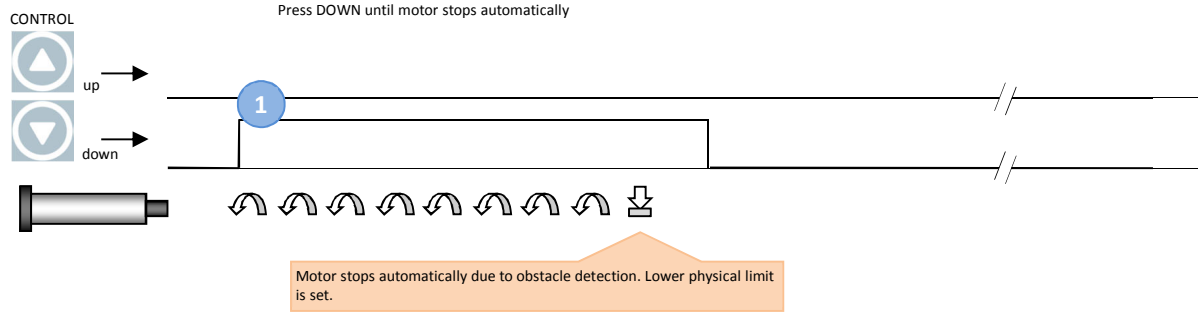


Description

1. Press UP till motor stops automatically due to obstacle detection. Upper physical limit position is now set.

Setting lower physical limit position

This sequence will set the lower physical limit position. **Important:** the application in which the motor is installed, must be suitable for lower physical limit position detection.



Description

1. Press DOWN till motor stops automatically due to obstacle detection. Lower physical limit position is now set.

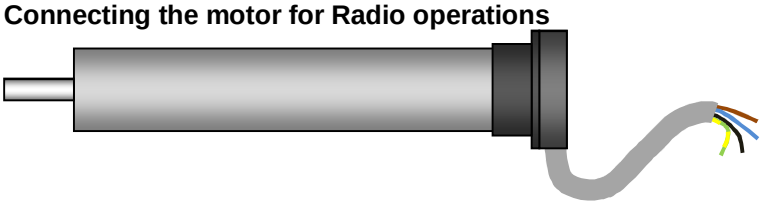
Installation confirmation

After setting the limit positions, the motor will give a feedback (short up/down movement) at the lower limit position to confirm that the installation procedure has ended and that the motor turning direction is set correctly.

How to connect for radio operations

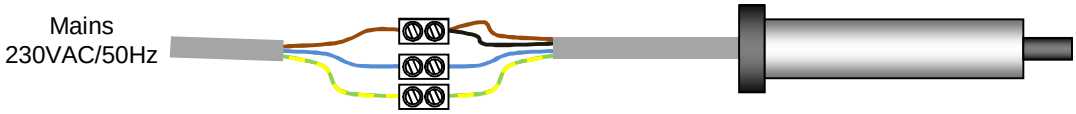
The Vestaline ME or ME-WISO motor can be operated by Switch or Radio (not both at the same time). Next chapters will describe how to use the Vestaline ME-WISO motor with Radio operation. It is also possible to set the limit positions with the VL-Progset-ME/SMI-230 (art.no.: 54185775) and afterwards change the operation mode to Radio.

Connecting the motor for Radio operations



Blue	= Neutral
Brown	= DOWN
Black	= UP
Green/yellow	= PE

How to connect



Teach remote control - FB5

This procedure will *"link"* a FB5 remote control with the motor.

1.1.1 Preparation

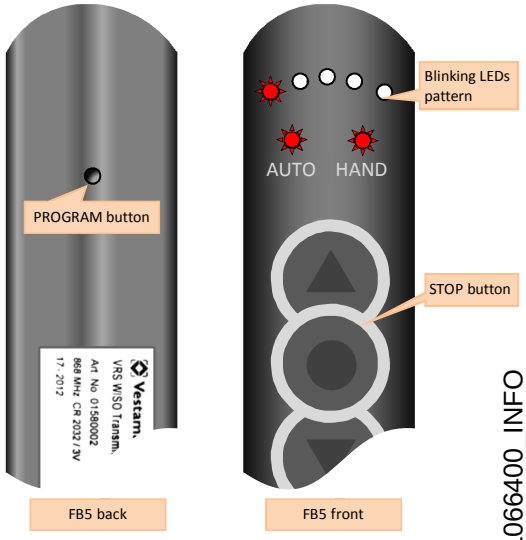
The used remote control must be set to the correct channel.

1.1.2 Description

1) Activate the motor *"learn"* mode by:
   a. Power-on motor. After power-on, the motor accepts *"Remote Control Teach"* messages for a period of 60 seconds.

      or

   b. With an remote control that is already *"linked"* to the motor, press the PROGRAM button on the back of this remote, next press the STOP button (FB5) or UP or DOWN briefly (Wall transmitter). The motor will a short confirmation (1x short up/down movement). The motor accepts "Remote Control Teach" messages for a period of 10 seconds.



2) Press the Program button on the back of the (to be added) FB5 remote control once (use pen or pencil to press Program button).
3) LEDs on the front of the FB5 show blinking pattern.
4) Press STOP briefly (on the to be added FB5 remote).
5) Motor will give a short confirmation (2x short up/down movement) that the remote control has been added to the list.
   When no confirmation is given by the motor, possible causes:
   a. Motor did not receive the *"Teach"* command correctly, or
   b. Remote control receiver list is full. Maximum 16 devices can be taught to a motor.

Limitations

A maximum of 16 different remotes controls/channels/sensors can be taught.

Teach remote control – Wall transmitter

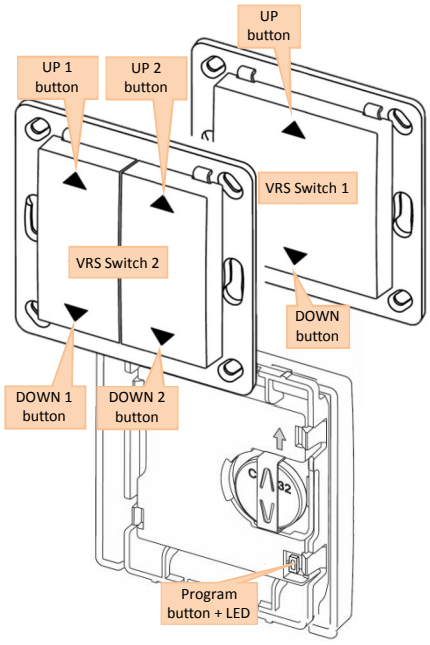
This procedure will *"link"* a wall transmitter (VRS Switch 1 / VRS Switch 2) with the motor.

1.1.3 Description

1) Activate the motor *"learn"* mode by:
   a. Power-on motor. After power-on, the motor accepts *"Remote Control Teach"* messages for a period of 60 seconds.

      or

   b. With an remote control that is already *"linked"* to the motor, press the PROGRAM button on the back of this remote, next press the STOP button (FB5) or UP or DOWN briefly (Wall transmitter). The motor will a short confirmation (1x short up/down movement). The motor accepts "Remote Control Teach" messages for a period of 10 seconds.



2) Press the Program button on the back of the (to be added) wall transmitter once.
3) The LED next to Program button starts blinking slowly.
4) Press UP or DOWN button of desired channel briefly (on the to be added wall transmitter).
5) Motor will give a short confirmation (2x short up/down movement) that the remote control has been added to the list.
   When no confirmation is given by the motor, possible causes:
   a. Motor did not receive the *"Teach"* command correctly, or
   b. Remote control receiver list is full. Maximum 16 devices can be taught to a motor.

Limitations
A maximum of 16 different remotes controls/channels/sensors can be taught.

Teach sensor – WISO VRS

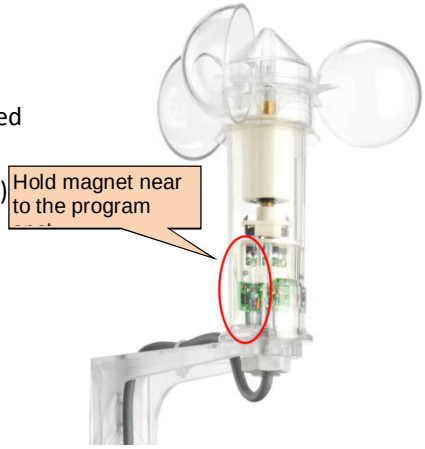
This procedure will *"link"* a WISO VRS sensor (wind + sun sensor) with the motor.

1.1.4 Description

1) Activate the motor *"learn"* mode by:
   a. Power-on motor. After power-on, the motor accepts *"Remote Control Teach"* messages for a period of 60 seconds.

      or

   b. With an remote control that is already *"linked"* to the motor, press the PROGRAM button on the back of this remote, next press the STOP button (FB5) or UP or DOWN briefly (Wall transmitter). The motor will a short confirmation (1x short up/down movement). The motor accepts "Remote Control Teach" messages for a period of 10 seconds.
2) Hold a magnet near to the WISO VRS Program spot till the yellow led lit.
3) Motor will give a short confirmation (2x short up/down movement) that the WISO VRS has been added to the list.
   When no confirmation is given by the motor, possible causes:
   a. Motor did not receive the *"Teach"* command correctly, or
   b. Remote control receiver list is full. Maximum 16 devices can be taught to a motor.



c. A other sensor is already *"linked"* with the motor. Only 1 sensor can be linked to the motor. Try to teach the WISO VRS sensor using method (1b), the other – already linked sensor – will be overwritten by the (to be added) WISO VRS sensor.

Remark
See WISO VRS manual how to set sun and wind threshold settings. During the installation phase of the motor (when limit position settings are not confirmed yet by the motor), the WISO VRS commands will be suppressed.
When the motor is blocked by the WISO VRS (due to wind alarm or communication time-out), the motor cannot be operated by remote control, but will give a feedback (short DOWN/UP movement) to show the user that it is still alive and working.

Teach sensor – VRS Luxsensor S

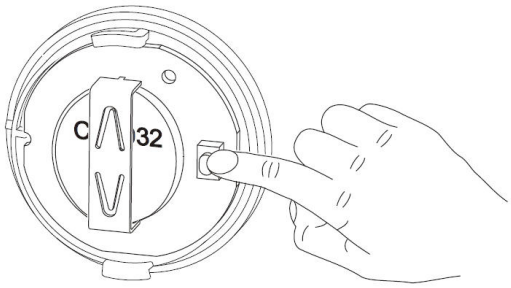
This procedure will *"link"* a VRS Luxsensor S sensor (sun sensor) with the motor.

1.1.5 Description

1) Activate the motor *"learn"* mode by:
   a. Power-on motor. After power-on, the motor accepts *"Remote Control Teach"* messages for a period of 60 seconds.

      or

   b. With an remote control that is already *"linked"* to the motor, press the PROGRAM button on the back of this remote, next press the STOP button (FB5) or UP or DOWN briefly (Wall transmitter). The motor will a short confirmation (1x short up/down movement). The motor accepts "Remote Control Teach" messages for a period of 10 seconds.
2) Press the program button on the VRS Luxsensor S shortly, the red LED next to the program button will blink once.
3) Motor will give a short confirmation (2x short up/down movement) that the VRS Luxsensor S has been added to the list.
   When no confirmation is given by the motor, possible causes:
   a. Motor did not receive the *"Teach"* command correctly, or
   b. Remote control receiver list is full. Maximum 16 devices can be taught to a motor.
   c. A other sensor is already *"linked"* with the motor. Only 1 sensor can be bound to the motor. Try to teach the VRS Luxsensor S using method (1b), the other – already bound sensor – will be overwritten by the (to be added) VRS Luxsensor S.



Remark
See VRS Luxsensor S manual how to set sun threshold settings. During the installation phase of the motor (when limit position settings are not confirmed yet by the motor), the VRS Luxsensor S commands will be suppressed.

Remove remote control

This procedure will *"remove"* a remote control from the motor.

1.1.6 Preparation

Make sure that this remote is set to the correct channel (the channel which needs to be removed).

1.1.7 Description

1) Activate the motor *"remove"* mode. The remote you use to set the motor in this particular mode, does not have to be the remote you want to "remove" from the motor.

a. Using a *"linked"* FB5 remote control to activate the motor "remove" mode:
   i. Press the PROGRAM button on the back of the remote, till the blinking LED patter is shown.
   ii. Press STOP button briefly.
   iii. The motor gives a short confirmation (1x short up/down movement). The motor is now in "remove" mode for a period of 10 seconds.

   or

b. Using a "linked" Wall transmitter to activate the motor "remove" mode:
   i. Press the PROGRAM button on the back of the remote briefly, the RED led next to the program button starts blinking.
   ii. Press the UP or DOWN button for 5 seconds continuously.
   iii. When the UP or DOWN button is released, the motor gives a short confirmation (1x short up/down movement). The motor is now in "remove" mode for a period of 10 seconds.

2) Removing the remote control from the motor.
   a. Removing a FB5 remote control:
      i. Press the STOP button shortly.
      ii. The motor gives a short confirmation (2x short up/down movement). This remote control (only selected channel) is now removed from the motor.
   b. Removing a Wall transmitter:
      i. Press the UP or DOWN button for 5 seconds continuously.
      ii. When the UP or DOWN button is released, the motor gives a short confirmation (2x short up/down movement). This remote control is now removed from the motor.

Remove sensor

This procedure will *"remove"* a sensor from the motor.

Description

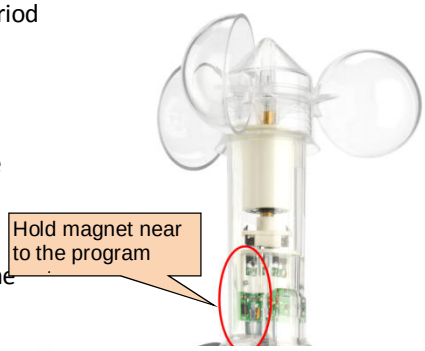
1) Activate the motor *"remove"* mode.
   a. Using a *"linked"* FB5 remote control to activate the motor "remove" mode:
      i. Press the PROGRAM button on the back of the remote, till the blinking LED patter is shown.
      ii. Press STOP button briefly.
      iii. The motor gives a short confirmation (1x short up/down movement). The motor is now in "remove" mode for a period of 10 seconds.

      or

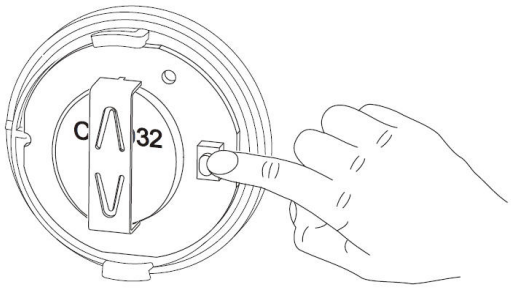
   b. Using a "linked" Wall transmitter to activate the motor "remove" mode:
      i. Press the PROGRAM button on the back of the remote briefly, the RED led next to the program button starts blinking.
      ii. Press the UP or DOWN button for 5 seconds continuously.

iii. When the UP or DOWN button is released, the motor gives a short confirmation (1x short up/down movement). The motor is now in "remove" mode for a period of 10 seconds.

2) Removing the sensor from the motor.
   a. Removing a WISO VRS sensor:
      i. Hold a magnet near to the WISO VRS Program spot till the yellow led lit.
      ii. Motor will give a short confirmation (2x short up/down movement) that the WISO VRS has been removed from the list.



   b. Removing a VRS Luxsensor S sensor:
      i. Press the program button on the VRS Luxsensor S shortly, the red LED next to the program button will blink once.
      ii. Motor will give a short confirmation (2x short up/down movement) that the VRS Luxsensor S has been removed from the list.



Motor reset – FB5

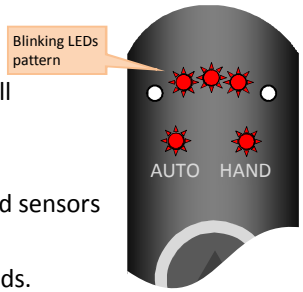
Motor reset will erase the limit positions of the motor and will remove all *"linked"* remote controllers and sensors. The motor turning direction and obstacle detection status will be left unchanged.

Preparation

The used FB5 remote control must be linked to the motor (see *"Teach remote control - FB5"*) and set to the correct channel.

Description

1) Press the Program button on the back of the FB5 remote control repeatedly till following blinking LED pattern on front of the FB5 remote controller is shown.
2) Press STOP button shortly. The motor gives an confirmation.
3) The motor limit positions are now reset and all *"linked"* remote controllers and sensors are removed.
4) The motor accepts *"Remote Control Teach"* messages for a period of 60 seconds.



When no limit positions are set, the motor will react delayed on radio UP/DOWN commands (there will be a delay between pressing the switch and motor starts turning of 730 milliseconds). Also, the motor will have *"dead man"* behavior, meaning: as long as the UP or DOWN button is pressed on the remote, the motor runs, but as soon as you release the button, the motor stops.

Motor reset – Wall transmitter

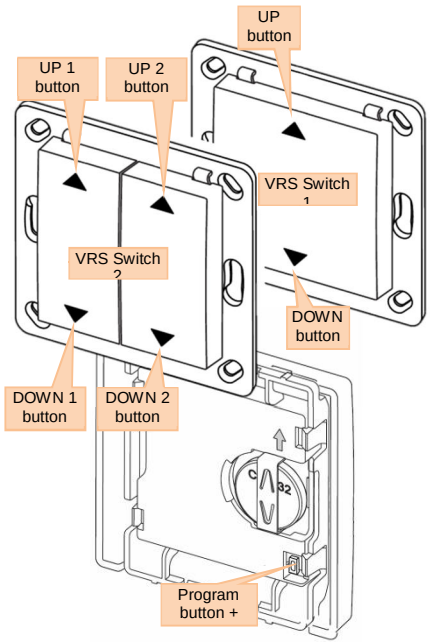
Motor reset all will erase the limit positions and will clear all *"linked"* remote controllers and/or sensors.

Preparation:

The used wall transmitter (VRS Switch 1 / VRS Switch 2) must be linked to the motor (see *"Teach remote control – Wall transmitter"*).

Description

1) Press the Program button on the back of the wall transmitter for at least 5 seconds. The red LED next to the Program button starts blinking fast.
2) Press UP or DOWN button for at least 5 seconds continuously.
3) On release of the pressed button, a reset command is transmitted to the motor. The motor gives an confirmation.



4) The motor limit positions are now reset and all *"linked"* remote controllers and sensors are removed.
5) The motor accepts *"Remote Control Teach"* messages for a period of 60 seconds.

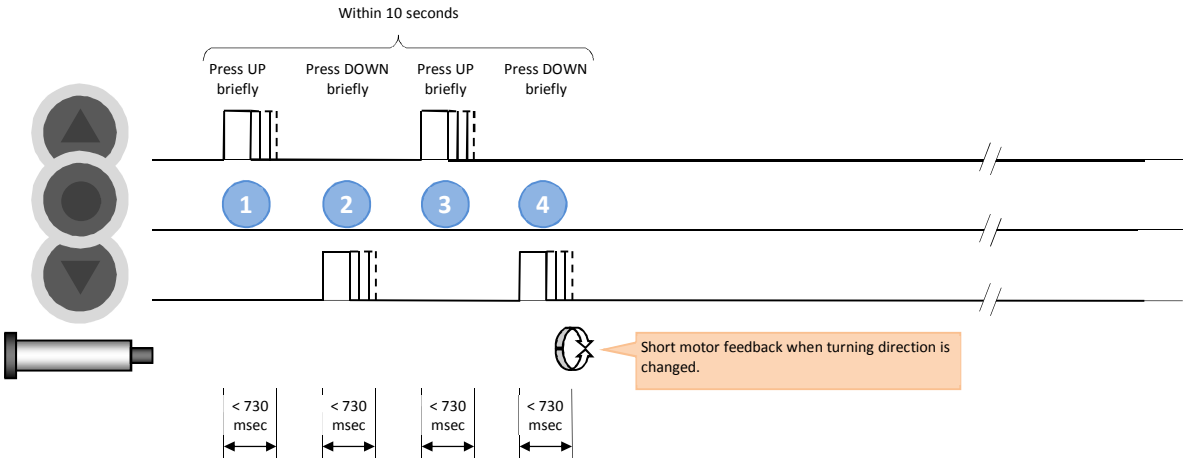
When no limit positions are set, the motor will react delayed on radio UP/DOWN commands (there will be a delay between pressing the switch and motor starts turning of 730 milliseconds). Also, the motor will have *"dead man"* behavior, meaning: as long as the UP or DOWN button is pressed on the remote, the motor runs, but as soon as you release the button, the motor stops.

Motor change direction – FB5 and Wall transmitter

When the motor reacts in opposite direction (when motor goes down when you press up and vice-versa), you need to change the motor direction. Motor direction can only be changed during installation phase, when no limit positions are set.

Preparation

The used remote control must be linked to the motor (see *"0 Teach remote control").* The remote control is in standard operation mode (no LEDs are blinking).



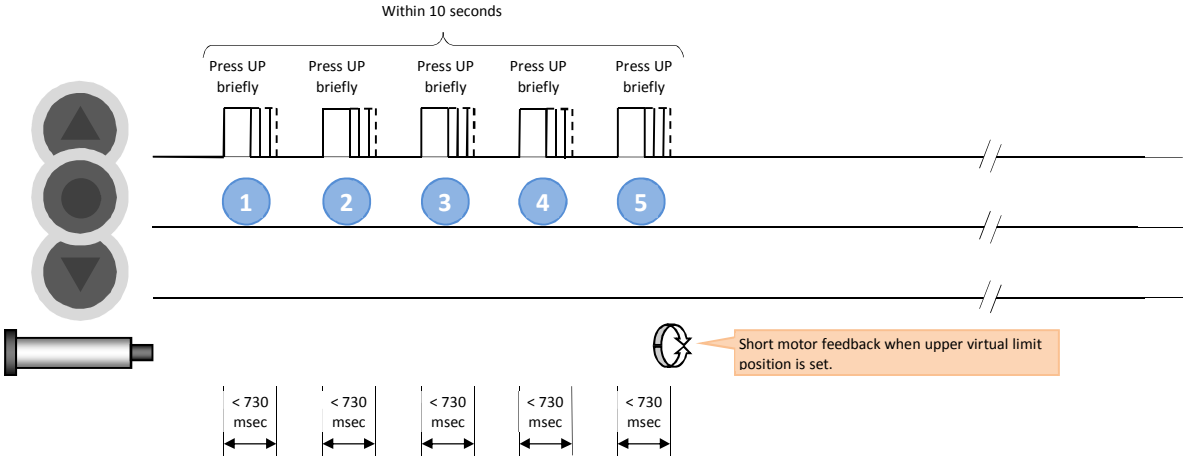
Description

1 ... 4 Press briefly (< 730 msec.) following sequence on the remote:
UP – DOWN – UP –DOWN
Alternative sequence will also work:
DOWN – UP – DOWN – UP briefly (< 730 msec.).

The complete sequence should be given within 10 seconds. The motor will give a confirmation feedback. Now, when operating the motor you will notice that the motor reacts in the correct direction in relation to your remote control (motor goes up when you press up on the remote and vice versa).

Setting upper virtual limit position – FB5 and Wall transmitter

This sequence will store the current motor position as a virtual upper limit position.



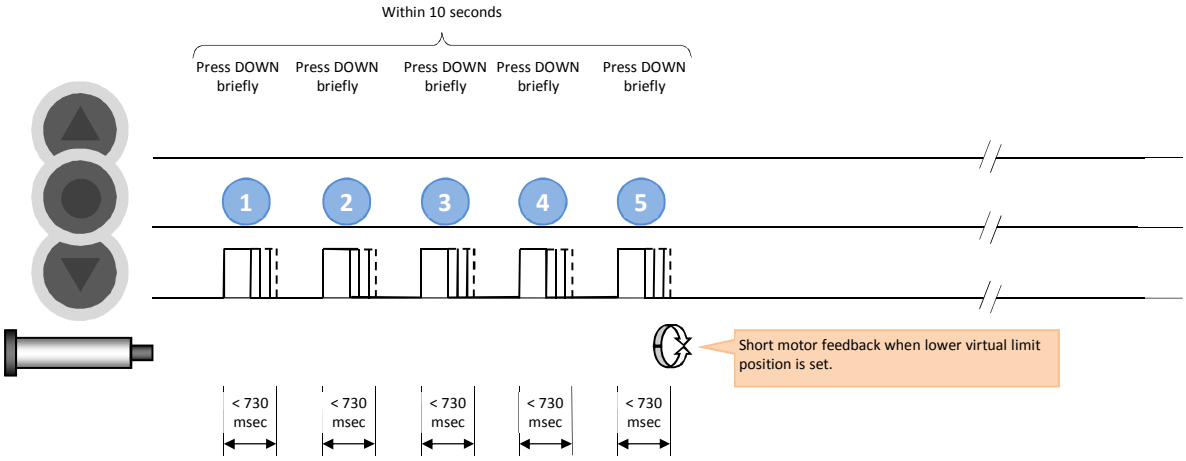
Description

1 ... 5 Press UP 5x briefly (shorter than 730 milliseconds).

After the 5th time, the limit position will be stored, the motor will give a conformation. After setting the virtual upper limit position, it is not possible to steer the motor in UP direction behind this position.

Setting lower virtual limit position – FB5 and Wall transmitter

This sequence will store the current motor position as a virtual lower limit position.



Description

1 ... 5 Press DOWN 5x briefly (shorter than 730 milliseconds).

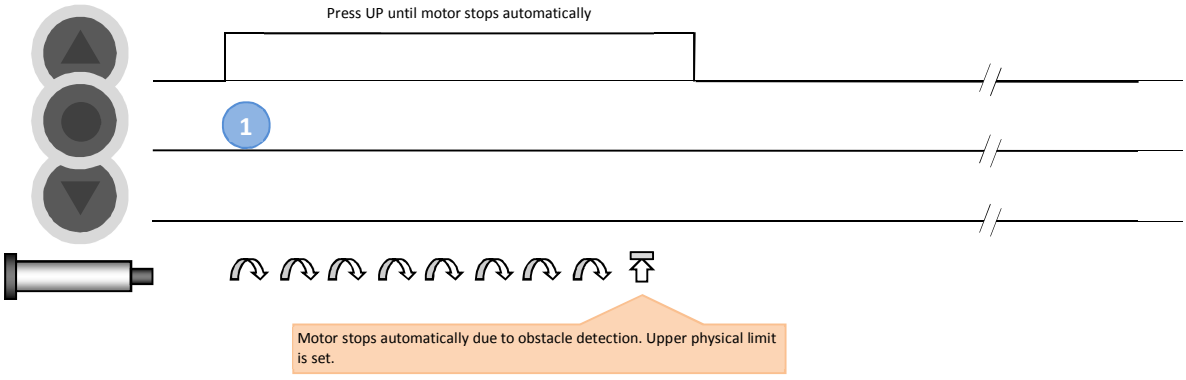
After the 5th time, the limit position will be stored, the motor will give a conformation. After setting the virtual lower limit position, it is not possible to steer the motor in DOWN direction behind this position.

Setting upper physical limit position – FB5 and Wall transmitter

This sequence will set the upper physical limit position.

Important

The application in which the motor is installed, must be suitable for upper physical limit position detection.



Description

1 Press UP till motor stops automatically due to obstacle detection.

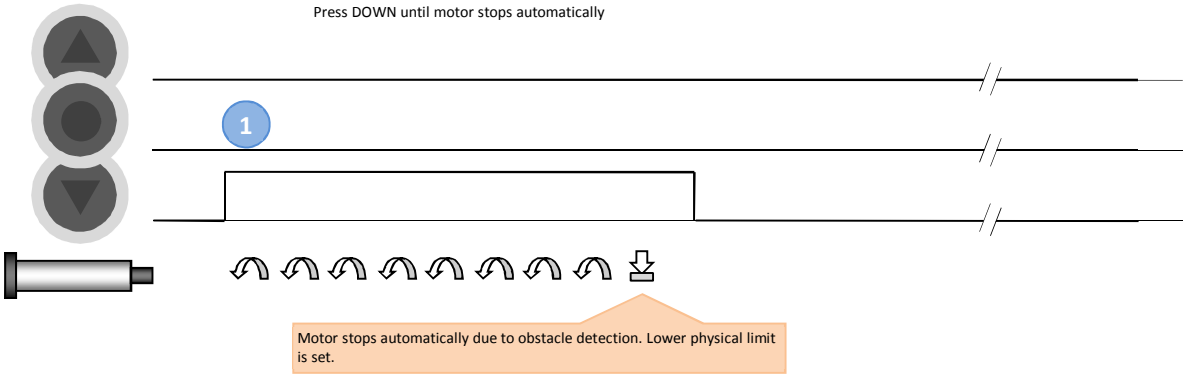
Upper physical limit position is now set.

Setting lower physical limit position – FB5 and Wall transmitter

This sequence will set the lower physical limit position.

Important

The application in which the motor is installed, must be suitable for lower physical limit position detection.



Description

1 Press DOWN till motor stops automatically due to obstacle detection.

Lower physical limit position is now set.

Installation confirmation

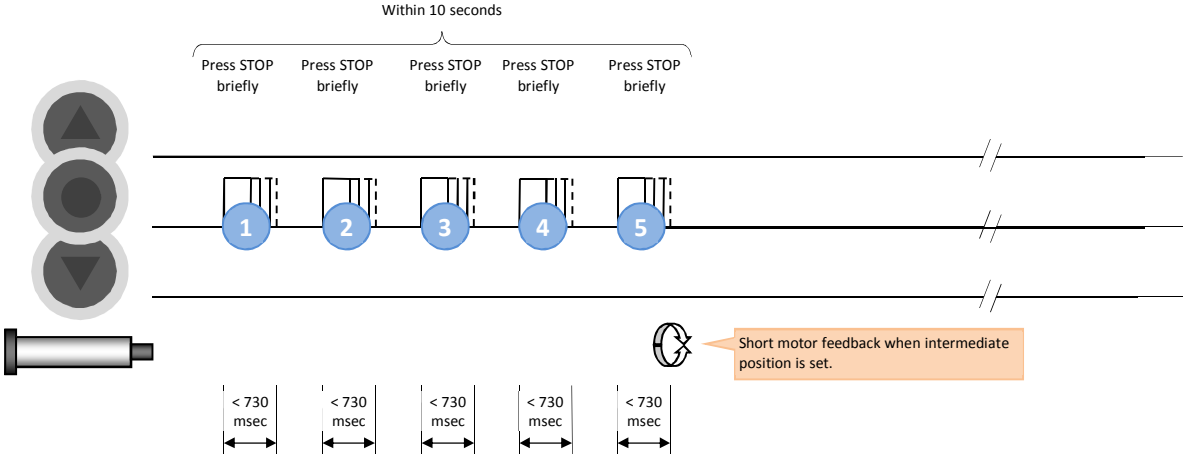
After setting the limit positions, the motor will give a feedback (short up/down movement) at the lower limit position to confirm that the installation procedure has ended.

Setting intermediate position – only FB5

Preparation

1. The limit positions need to be set and the motor must have been given a short feedback at the lower limit position as a confirmation that the installation procedure has ended (see also ***"Error! Reference source not found."***).
2. Steer the motor to the desirable intermediate position.

This sequence will store the current motor position as an intermediate position.



Description

1 ··· 5 Press STOP 5x briefly (shorter than 730 milliseconds).

After the 5th time, the intermediate position will be stored, the motor will give a conformation.

Limitations

Only 1 intermediate position can be programmed.

Radio sensor

When an intermediate position is programmed, this position will be used as the *"sun function active"* position, meaning that when the sun function of the sun intensity sensor becomes active, the motor will go to this intermediate position.

Please pay attention that the sun shade product will not cover the sun intensity sensor when steered to the intermediate position.

Remote control behaviour with an intermediate position set
When an intermediate position is programmed, the motor reaction is dependable of how long the UP/DOWN button on the remote control is pressed:

Key pressed	Duration	Current motor position	New motor position
UP	Short	Lower limit position	Intermediate position
UP	Short	Intermediate position	Upper limit position
DOWN	Short	Upper limit position	Intermediate position
DOWN	Short	Intermediate position	Lower limit position
UP	Long	Lower limit position	Upper limit position
UP	Long	Intermediate position	Upper limit position
DOWN	Long	Upper limit position	Lower limit position
DOWN	Long	Intermediate position	Lower limit position

Short = Press button shorter as 730 msec.
Long = Press button longer as 730 msec.

Deleting intermediate position – only FB5

By storing the intermediate position at the same position as the lower limit position, the intermediate position can be disabled.