

85304221 H1

# VL-ME-WISO-230-45



Vestaline  
E-Line motors

VL-ME-WISO-230-45/10Nm  
VL-ME-WISO-230-45/20Nm

Art.-no.: 01066191  
Art.-no.: 01066201

Vestaline motors for controlling sunshades.

## Installation and Operating Instructions

### Short description

- Motor 45 mm tube diameter for sunshades
- Electronic limit position setting
- Limit positions can be virtual or physical (upper position)
- Parallel connection allowed
- Anti-block function
- Simple setting of the limit position with the "VL-Progset-ME/SMI-230" (Art.-no.: 54185775)
- Re-synchronisation of physical limit positions
- Cable 2.5 m white

### Intended use

These types of tubular motor described in these manual is intended solely for controlling sunshade systems, awnings, screens or roller blinds. These types of tubular motor cannot be used in potentially explosive area.

These types of tubular motor are designed for using in a single sunshade system.

The motor should only be used for the purpose specified by the manufacturer (refer to the operating instructions). Any changes or modifications thereof are not permissible and will result in loss of all warranty claims.

### Safety precautions

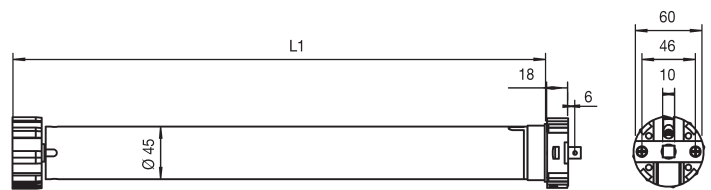


#### WARNING!

**Important safety information. Follow these instructions to ensure the safety of persons.**

- Contact a professional electrician to install the motor, because the control system requires a power supply of 230VAC, 50 Hz.
- Check the motor for signs of mechanical damage after unpacking. If you notice any shipping damage, do not start up the motor and notify your supplier immediately.
- The motor should only be used for the purpose specified by the manufacturer (refer to the operating instructions). Any changes or modifications thereof are not permissible and will result in loss of all warranty claims.
- Technical data can be found on the type label of the tubular motor.
- If the motor cannot be operated without presenting a hazard, it must be switched off and prevented from being switched on unintentionally.
- When performing work on the windows, motor or connected shades, protect them against unauthorised or unintentional operation.
- Moving parts of the motor must be installed at a height of over 2.5m above the floor level or any surface from which access to the motor is gained.
- Drive accessories such as shaft adapters and motor bearing must be carefully selected from the manufacturer's sales program.
- Always select the safest and most suitable variants for fastening the drive (motor bearings).

### Technical data



Article	VL-ME-WISO-230-45/	10Nm	20Nm
	Art.-no.:	01066191	01066201
Rated torque	Nm	10	20
Output speed	rpm	15	15
Tractive power	kg	20	40
Power supply	VAC	230	230
Frequency	Hz	50	50
Rated power	W	126	165
Rated current	A	0.55	0.72
Running time	Min.	4	4
Protection degree	IP	44	44
Length L1	mm	461	481

### Declaration of conformity

This product complies with the essential requirements. The declaration of conformity concerning this product is available on our website: [www.vestamatic.com](http://www.vestamatic.com)

### Disposal of waste

**The disposal of electrical equipment and batteries in household waste is strictly forbidden.**



The symbol (dustbin crossed out, in line with WEEE Appendix IV) indicates separate collection of electrical and electronic products in EU countries. Do not dispose of the device or battery in your household waste. Ask your town or local council about the return and collection systems available in your area to dispose of this product.

**Installation**

**Wiring diagram**



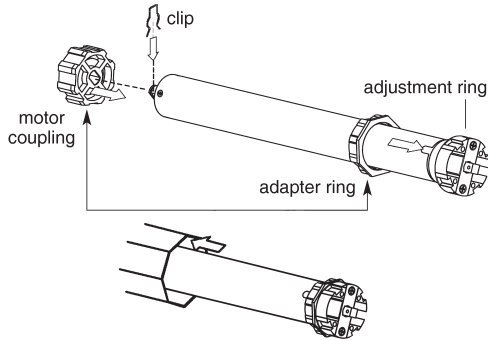
**WARNING!**  
**Risk of injury due to improper installation and commissioning.**  
 Improper installation and commissioning may lead to personal injury or property damage.

Therefore:

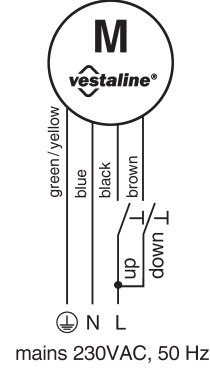
- When connecting the device, observe the currently valid VDE standards (in particular DIN VDE 0100/0700), your local power company's regulations and the current accident prevention regulations.
- Connect the motor in accordance with the wiring diagram.
- Use external conductor/line L1 to control up and down direction.
- Other devices or consumption units must not be directly connected to the motor connection cables.



**ATTENTION!**  
 Parallel connection of tubular motor with electronic limit position are allowed. The maximum switching contact load of the connected control device (switch, motor control, timer etc.) must be observed.

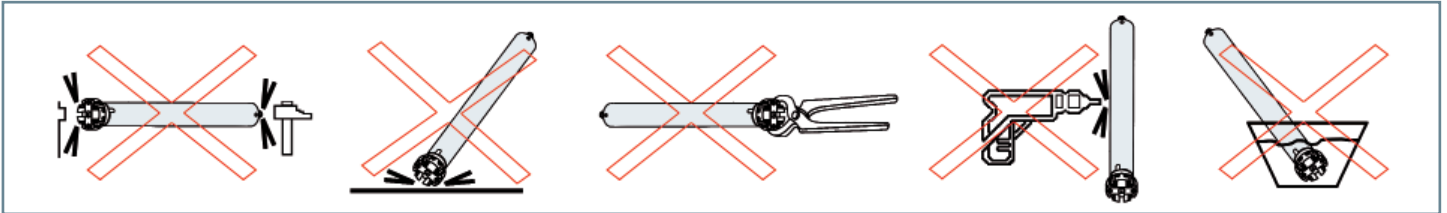
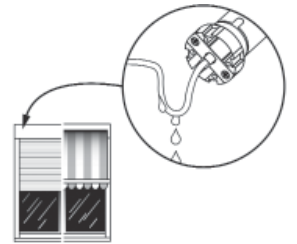


**switch operation**



**Motor cable wire colours:**

- green/yellow: ground conductor/PE
- brown: DOWN
- blue: neutral conductor/N
- black: UP

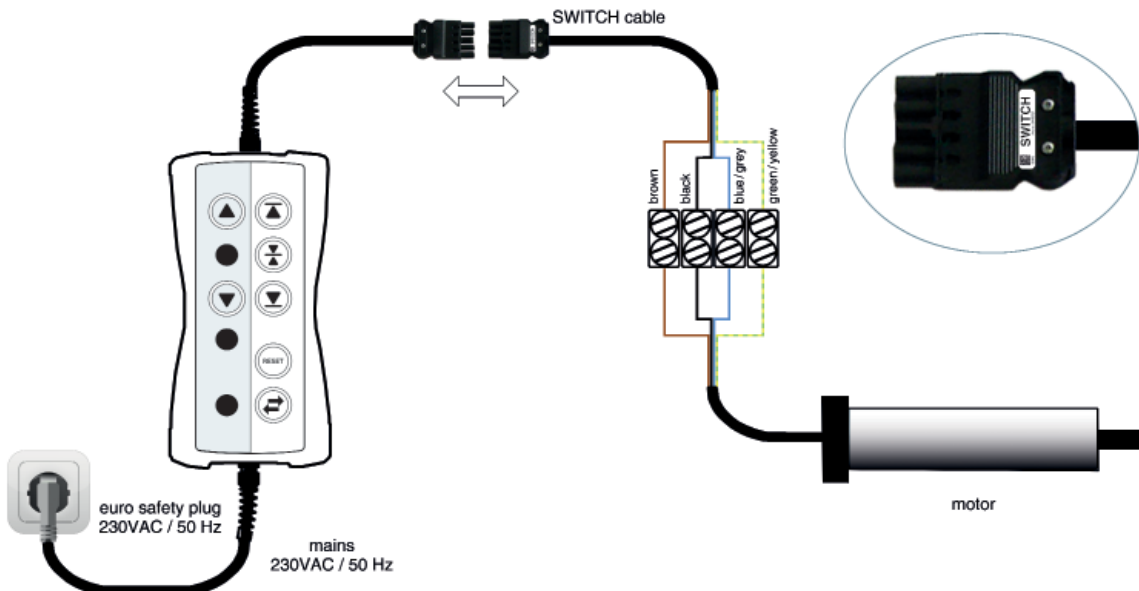


**Electronic limit position setting with Installation tool**

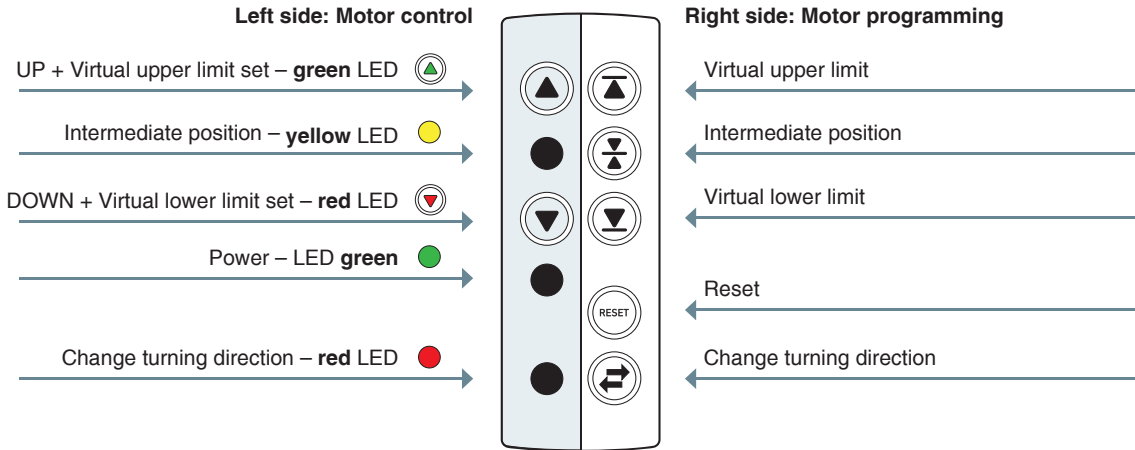
How to connect to an Installation tool (VL-Progset-ME/SMI-230/ Art.-no.: 54185775).













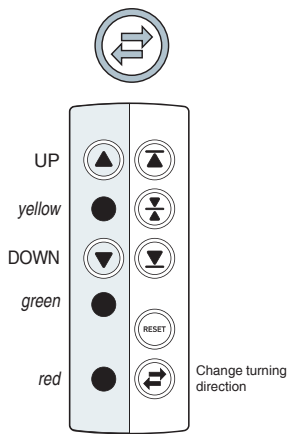
- IMPORTANT!**
- Switch off the power supply. Connect the wire of the motor to the terminal clamps of the installation tool.
  - It is important that the motor-wire-colors correspond with the installation-tool-wire-colors, otherwise the motor turning direction could be set incorrect. Switch on the power supply.
  - The installation tool is not suitable for continuous operation and has only been used for set the limit position.



**Description of installation tool VL-Progset-ME/SMI-230**



Motor control		Motor programming		
<p><b>Button</b> Control motor in <b>UP</b> direction Hold down the button to move the motor in <b>UP</b> direction.</p>				
<p><b>LED</b> <b>green LED</b> – Virtual upper limit position:</p> <p><i>OFF</i> when no “Virtual upper limit” is set.</p> <p><i>Blinking</i> when “Virtual upper limit” or „Reset“ programming is in progress.</p> <p><i>Lit solid</i> when “Virtual upper limit” programming sequence has completed.</p>	 <b>green</b>		<p><b>Button</b> Set “Virtual upper limit position”.</p>	
<p><b>LED</b> <b>yellow LED</b> – Intermediate position:</p> <p><i>OFF</i> when no “Intermediate position” is set.</p> <p><i>Blinking</i> when “Intermediate position” programming is in progress.</p> <p><i>Lit solid</i> when “Intermediate position” programming sequence has been completed.</p>	 <b>yellow</b>		<p><b>Button</b> Set “Intermediate position”.</p> <p><b>Hint:</b> Not used for these motor devices.</p>	
<p><b>Button</b> Control motor in <b>DOWN</b> direction Hold down the button to move the motor in <b>DOWN</b> direction.</p>				
<p><b>LED</b> <b>red LED</b> – Virtual lower limit position:</p> <p><i>OFF</i> when no “Virtual lower limit” is set.</p> <p><i>Blinking</i> when “Virtual lower limit” or „Reset“ programming is in progress.</p> <p><i>Lit solid</i> when “Virtual lower limit” programming sequence has completed.</p>	 <b>red</b>		<p><b>Button</b> Set “Virtual lower limit position”.</p>	
<p><b>LED</b> <b>green LED</b> – Power:</p> <p><i>OFF</i> when powerless (it is safe to connect a motor to the Installation Tool).</p> <p><i>Lit solid</i> when attached to mains 230VAC.</p>	 <b>green</b>		<p><b>Button</b> Reset</p>	
<p><b>LED</b> <b>red LED</b> – Change turning direction:</p> <p><i>OFF</i> when no “Change turning direction” is used.</p> <p><i>Blinking</i> when “Change motor turning direction” programming sequence is in progress.</p> <p><i>Lit solid</i> when “Change motor turning direction” programming sequence has completed.</p>	 <b>red</b>		<p><b>Button</b> Change motor turning direction.</p>	



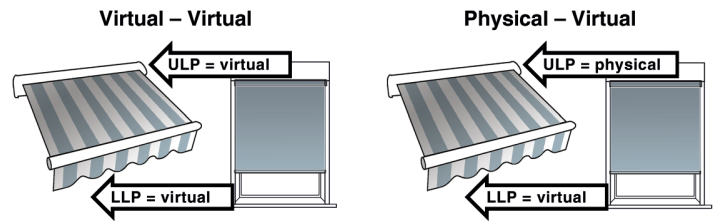
**Changing motor turning direction**

- Hold down the button or to check the 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.
- Press the button shortly.
- The *red* LED starts blinking as long as the change motor turning direction process is in progress.
- The *red* LED lit solid if the process is finished.

**Electronic limit position setting combination**

ULP = is an abbreviation for **Upper Limit Position**.  
LLP = is an abbreviation for **Lower Limit Position**.

Following combinations virtual/physical limit position settings are possible:



**Setting electronic limit position**



**ATTENTION!**

- The motor starts to move with a short delay time during installation phase, when no limit positions are set.
- **Conditions to use the physical (automatic) limit position settings:**  
The upper limit stop has to be installed.

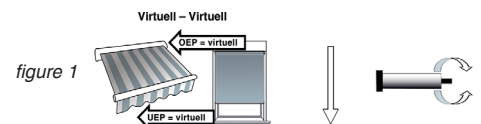
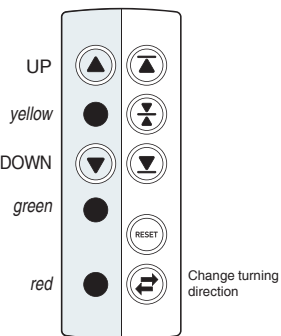
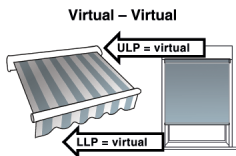
**Virtual - Virtual**

**Advice: start with upper limit position setting**

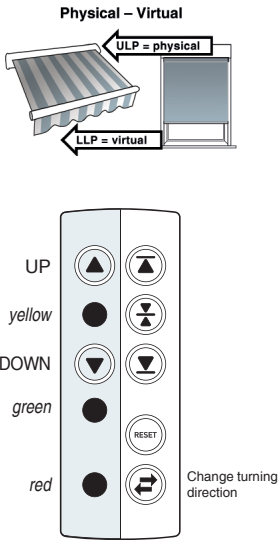
- Hold down the button to move the motor in the requested *upper* limit position.
- Press the button shortly.
- The *green* LED of button starts blinking as long as the limit setting process is in progress.
- The *green* LED lit solid if the process is finished.
- Hold down the button to move the motor in the requested *lower* limit position.
- Press the button shortly.
- The *red* LED of button starts blinking as long as the limit setting process is in progress.
- The *red* LED of button lit solid if the process is finished.
- The motor will give a feedback (short UP/DOWN movement) to confirm that the installation procedure has ended.

**Option: start with lower limit position setting**

- Hold down the button to move the motor in the requested *lower* limit position.
- Press the button shortly.
- The *red* LED of button starts blinking as long as the limit setting process is in progress.
- The *red* LED lit solid if the process is finished.
- Hold down the button to move the motor in the requested *upper* limit position.
- Press the button shortly.
- The *green* LED of button starts blinking as long as the limit setting process is in progress.
- The *green* LED of button lit solid if the process is finished.
- The motor needs the following complete movement (figure 1) to memorize the limit position. (Hold down the button to move the motor in the requested direction). The motor will give a feedback (short UP/DOWN movement) to confirm that the installation procedure has ended.

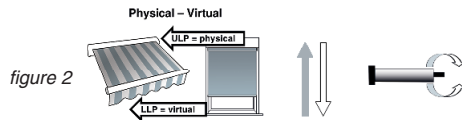


**Physical – Virtual**



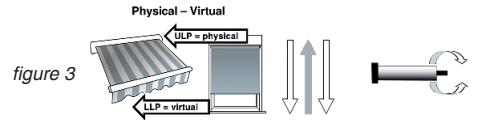
**Advice: start with upper limit position setting**

- Hold down the button ▲ till motor stops automatically due to obstacle detection. Upper physical limit position is now set.
- Hold down the button ▼ to move the motor in the requested lower limit position.
- Press the button ▼ shortly.
- The red LED of button ▼ starts blinking as long as the limit setting process is in progress.
- The red LED of button ▼ lit solid if the process is finished.
- The motor needs the following complete movements (figure 2) to memorize the limit position. (Hold down the button ▲ or ▼ to move the motor in the requested direction). The motor will give a feedback (short UP/DOWN movement) to confirm that the installation procedure has ended.



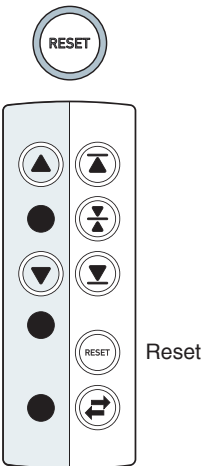
**Option: start with lower limit position setting**

- Hold down the button ▼ to move the motor in the requested lower limit position.
- Press the button ▼ shortly.
- The red LED of button ▼ starts blinking as long as the limit setting process is in progress.
- The red LED lit solid if the process is finished.
- Hold down the button ▲ till motor stops automatically due to obstacle detection. Upper physical limit position is now set.
- The motor needs the following complete movements (figure 3) to memorize the limit position. (Hold down the button ▼ or ▲ to move the motor in the requested direction). The motor will give a feedback (short UP/DOWN movement) to confirm that the installation procedure has ended.



**Motor – Reset**

- 1. Clear – LED status**  
Clear the installation tool LED-status. Keep the RESET button ⊖ pressed till the LEDs turn off.
- 2. Delete the limit position settings of the motor**  
Press the RESET button ⊖, till the LEDs start blinking.  
The LEDs keep blinking as long as the motor reset process is in progress.  
When the reset process is finished, the LEDs turn off, the motor limit positions have been cleared, and can be set again.  
The motor will shortly move during the reset sequence.



**Safety information**

- Tubular motor might be switch off before reaching the limit position:  
Extraordinary large increases of load (anti-block-function) – obstacle, sun-shade system keeps jamming, tubular motor is overload.
- Remedy action:**
- Removing the obstacle.
  - Check the mechanical parts of the sunshade system.
  - Use the correct tubular motor (rated torque – tractive power) according the specification of the sunshade system.

