Vestamatic®

GB

VL-ME-230-35 VRS

Vestaline
VRS-Line motors

VL-ME-230-35/10Nm VRS

Art.-no.: 01066350

Vestaline motors for controlling roller shutters.

Installation and Operating Instructions

Short description

- Motor 35 mm tube diameter for roller shutters
- Electronic limit position setting
- Operation by Switch or Radio 868 MHz (not both)
- Limit positions can be virtual or physical (upper position)
- Parallel connection allowed
- Obstacle detection and anti-block function
- Simple setting of the limit position with the “VL-Progset-ME/SMI-230” (Art.-no.: 54185775); (not contained in the scope of delivery and should be ordered separately) or via remote controle 868 MHz.
- Intermediate positions storage (Radio Operation)
- Automatic sunshade function in combination with “VRS Luxsensor S” (Art.-no.: 01180000); (not contained in the scope of delivery and should be ordered separately).
- Re-synchronisation of physical limit positions
- Cable 2.5 m white
- Adapter set 40 mm, octagonal in scope of delivery

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 date 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 2.5 m 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).

ATTENTION!

Pay attention to the following European guidelines:

- The cables must conform to the applicable VDE standard.
- If installing motors with a PVC H05VV-F cable, the cable on surface-mounted outdoor installations and recessed-mounted installations must be protected by a cable conduit or cable duct.
- When installing the motor, all-pole disconnection from with a contact gap of at least 3 mm per pole must be provided.
- The up and down directions of the blind switch/button must be electrically or mechanically locked against each other. The changeover time for changing the running direction (up/down) must be least 0.5 sec.

Intended use

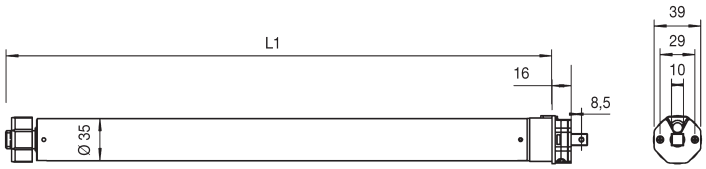
These types of tubular motor described in these manual is intended solely for controlling roller shutters. These types of tubular motor cannot be use in potentially explosive area.

These types of tubular motor are designed for using in a single roller shutter 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.

The obstacle detection only works if the solid shaft connectors (anti-lifting devices) are mounted on the tube. Use of the motor obstacle detection system as personal is not permitted. It has been designed exclusively to protect the roller shutters system from being damaged.

Technical data



Article	VL-ME-230-35/	10Nm VRS
	Art.-no.:	01066350
Rated torque	Nm	10
Output speed	rpm	17
Tractive power	kg*	25
Power supply	VAC	230
Frequency	Hz	50
Rated power	W	156
Rated current	A	0.68
Running time	Min.	4
Protection degree	IP	44
Length L1	mm	570

* Calculation method: 40 mm octagonal shaft, 1.5 m roller shutter height, regardless of installation situation, spline, width and friction losses.

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**

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.

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Installation

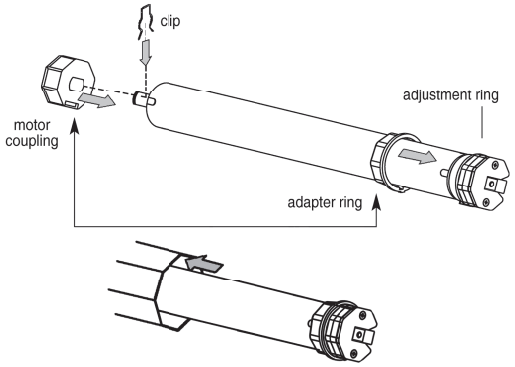
WARNING!

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 the motor connection cables.

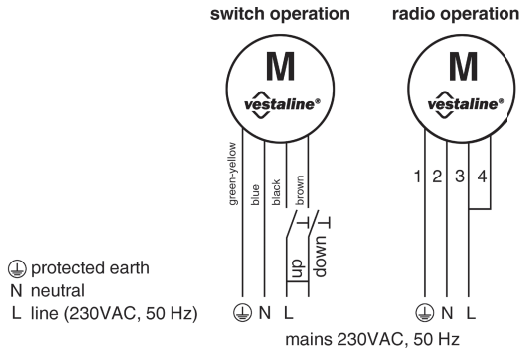


Wiring diagram

ATTENTION!

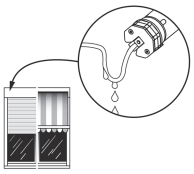
These tubular motors can be use in a switch connection or radio/VRS (VRS means Vestamatic Radio System) function.

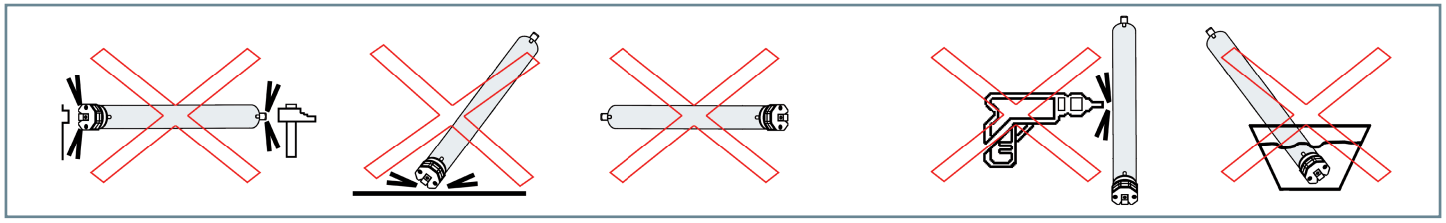
Parallel connection (switch operation) of tubular motor with electronic limit position are allowed. The maximum switching contact load of the connected control device (switch, motor control, timer etc.) must be observed.



Motor cable wire colours:

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





Instructions for radio receivers

ATTENTION!

Radio transmission is not suitable for safety operations, such as emergency-stop, emergency call or warning signals.

Signals are transmitted across the Europe-wide approved 868 MHz frequency band. The radio transmission range largely depends on the constructional circumstances of the building. If other adjacent radio devices are simultaneously sending signals, mutual interferences cannot be debared. Such interferences can also affect individual units of a group of receivers.

Observing the following instructions will minimize these interferences:

- Avoid to mount radio receivers onto or adjacent to metal surfaces.
- Maintain minimum 50 cm clearance to consumer loads, such as microwave ovens or TV sets.
- Keep a minimum clearance of 50 cm between each mounted radio receiver.
- Keep a minimum clearance of 50 cm between a radio receiver and a radio transmitter.

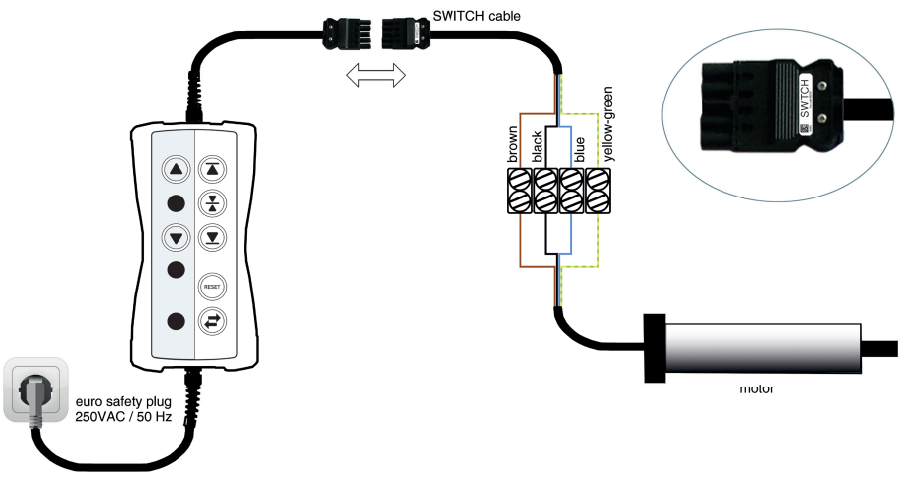
If a radio-transmitted command cannot be clearly detected, the command execution will be suppressed by means of an integrated automatic safety function. The command must then be issued again.

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.



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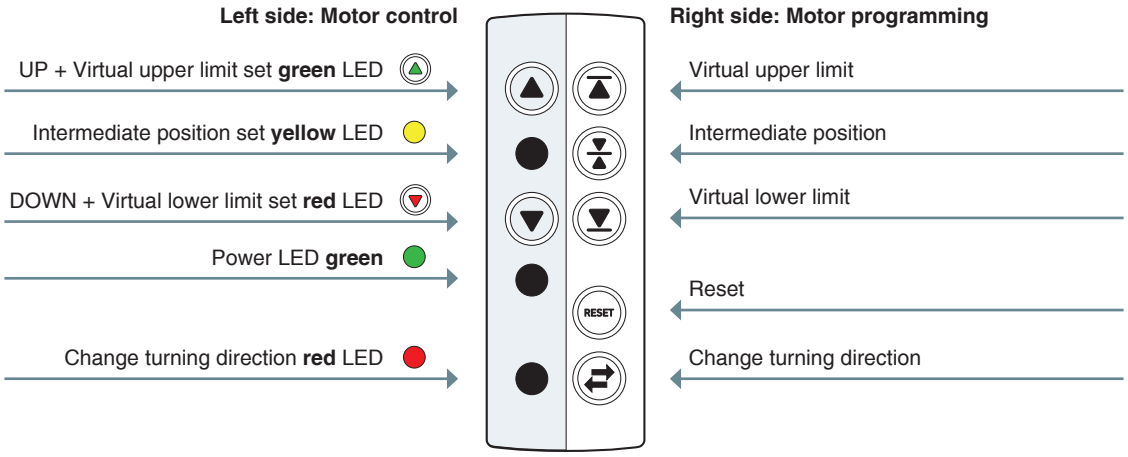
Description of installation tool VL-Progset-ME/SMI-230



Motor control				Motor programming		
Button	Control motor in **UP** direction Hold down the button to move the motor in **UP** direction.					
LED	Virtual upper limit position **green** LED:		**green**		**Button**	Set “Virtual upper limit position”.
	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.				
LED	Intermediate position **yellow** LED:		**yellow**		**Button**	Set “Intermediate position”.
	OFF	when no “Intermediate position” is set.				
	Blinking	when “Intermediate position” programming is in progress.				
	Lit solid	when “Intermediate position” programming sequence has been completed.				
Button	Control motor in **DOWN** direction Hold down the button to move the motor in **DOWN** direction.					
LED	Virtual lower limit position **red** LED:		**red**		**Button**	Set “Virtual lower limit position”.
	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.				
LED	Power LED **green**:		**green**	RESET	**Button**	Reset
	OFF	when powerless (it is safe to connect a motor to the Installation Tool).				
	Lit solid	when attached to mains 230VAC.				
LED	Change turning direction **red** LED:		**red**		**Button**	Change motor turning direction.
	OFF	when no “Change turning direction” is used.				
	Blinking	when “Change motor turning direction” programming sequence is in progress.				
	Lit solid	when “Change motor turning direction” programming sequence has completed.				

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