

85304721 H1

VL-SMI-230-35


Vestaline
SMI-Line motors

VL-SMI-230-35/6Nm
VL-SMI-230-35Q/6Nm
VL-SMI-230-35/10Nm

Art.-no.: 01066330
Art.-no.: 01066420
Art.-no.: 01066430

Vestaline motors for controlling sunshades.

Installation and Operating Instructions

Short description

- Motor 35 mm tube diameter for sunshades
- Electronic limit position setting
- Limit positions can be virtual or physical (upper position)
- Intermediate position storage
- 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

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).



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.

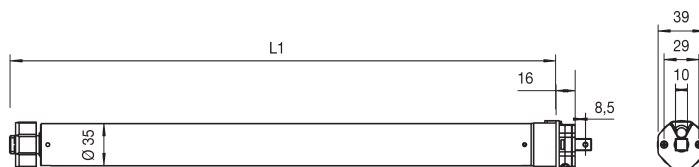
Intended use

These types of tubular motor described in these manual is intended solely for controlling 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.

Technical data



Article	VL-SMI-230-35/	6Nm	Q/6Nm	10Nm
	Art.-no.:	01066330	01066420	01066430
Rated torque	Nm	6	6	10
Output speed	rpm	28	28	17
Tractive power	kg	17	17	25
Power supply	VAC	230	230	230
Frequency	Hz	50	50	50
Rated power	W	154	161	156
Rated current	A	0.67	0.70	0.68
Running time	Min.	4	4	4
Protection degree	IP	44	44	44
Length L1	mm	570	570	570

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.

Installation

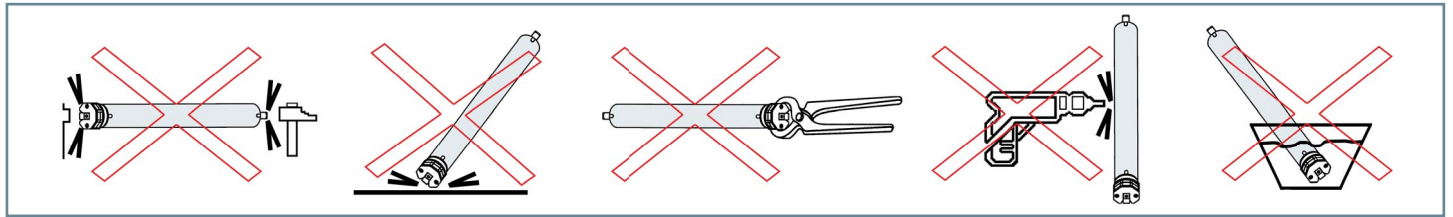
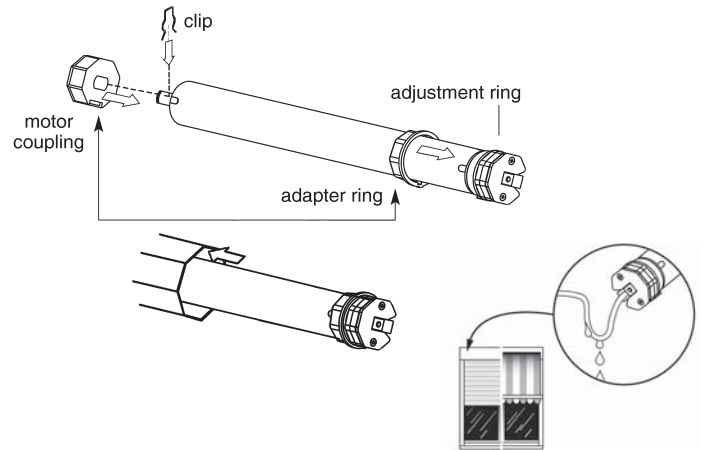


WARNING!

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 to the motor connection cables.



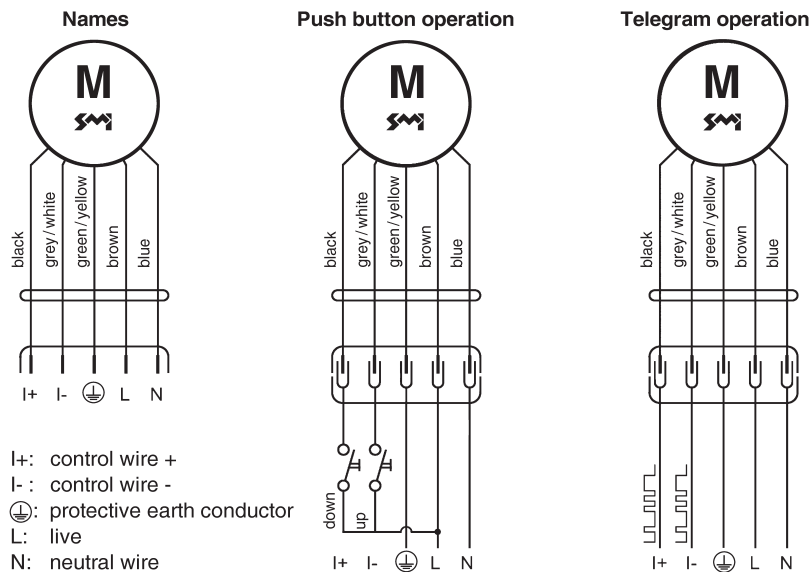
Wiring diagram for SMI drives for mains voltage



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.

It is not allowed to combine the operation modes. To change the operation mode from communication mode to switch mode, a one-time sequentially up and down button-press is necessary.



mains 230VAC, 50 Hz



Note on laying SMI wires in custom cables!

The I+ and I- SMI wires can be laid in the motor connection line of the SMI drive (as above) or in their own cable. It is not permitted to lay SMI wires together with wires carrying other signals in one cable.

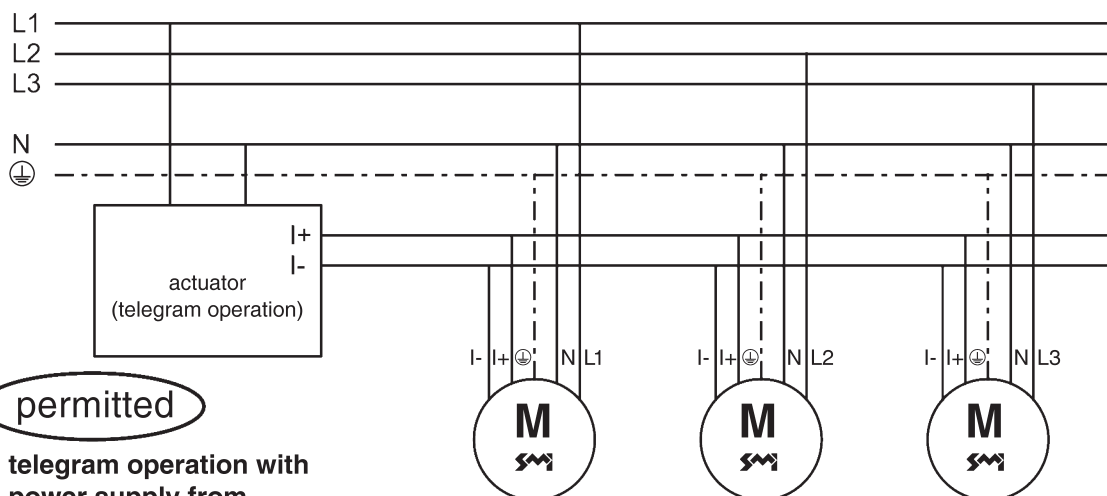
If SMI drives wired in parallel are supplied with electrical power from different phases, the SMI I+ and I- wires must be laid in a separate cable.

SMI drives on different AC phases

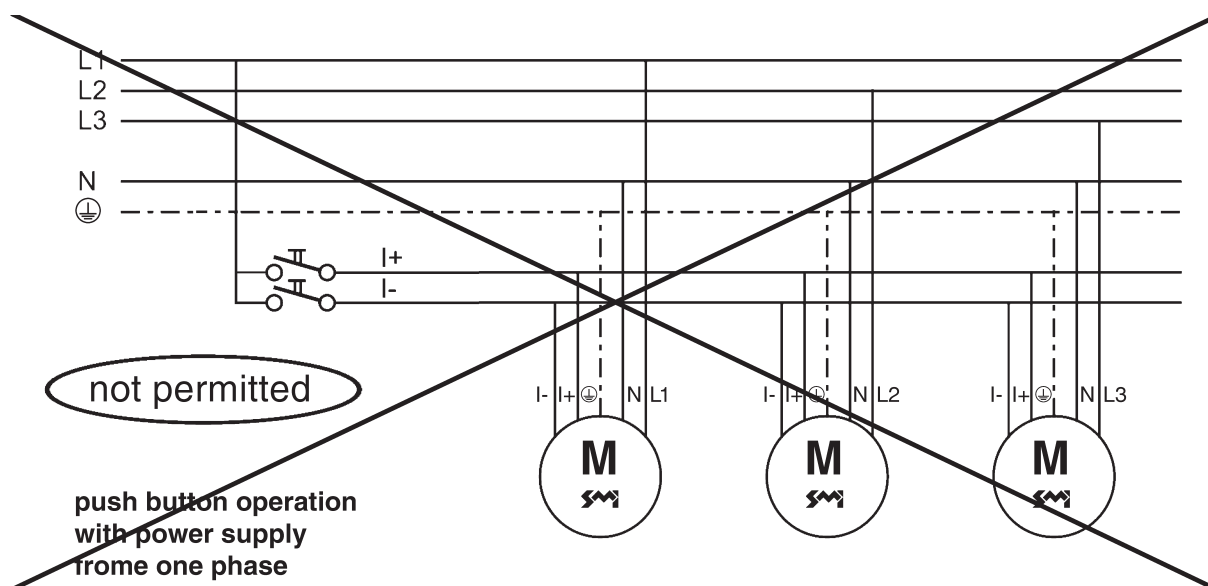


ATTENTION!

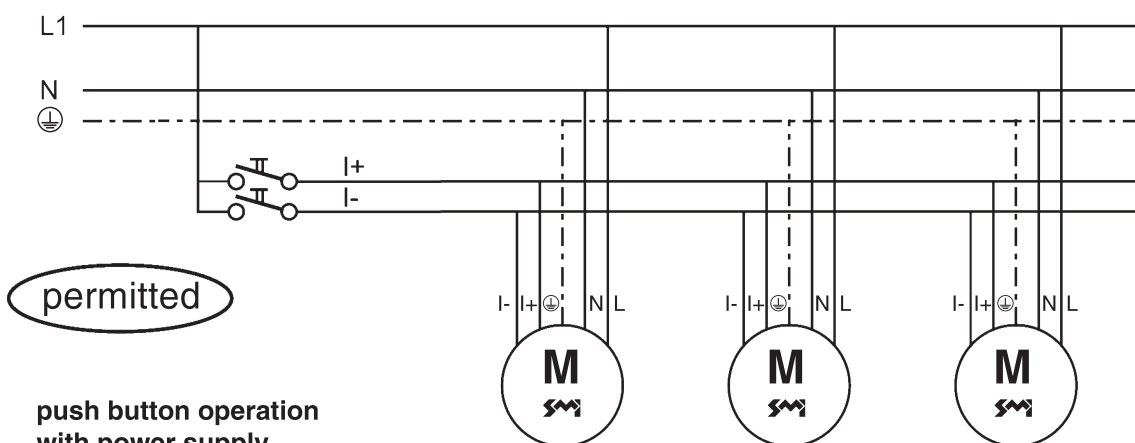
Parallel connection to the control lines I+ and I- while supplying power to the drives from different phases, is only permissible in telegram operating mode.



telegram operation with power supply from different phases



push button operation with power supply from one phase



push button operation with power supply from one phase

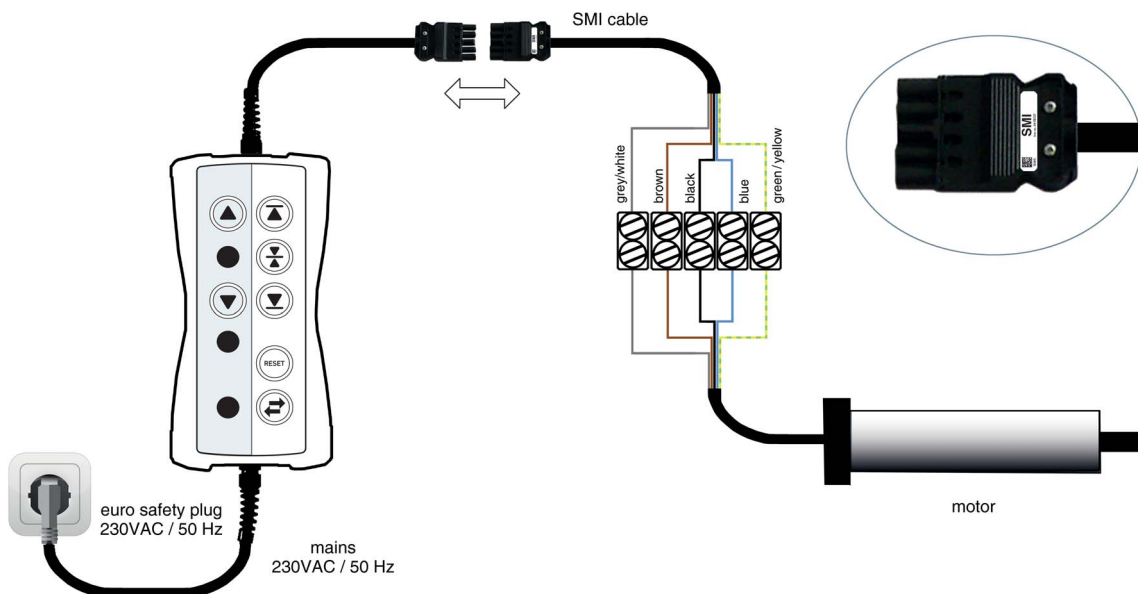
Electronic limit position setting with Installation tool

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

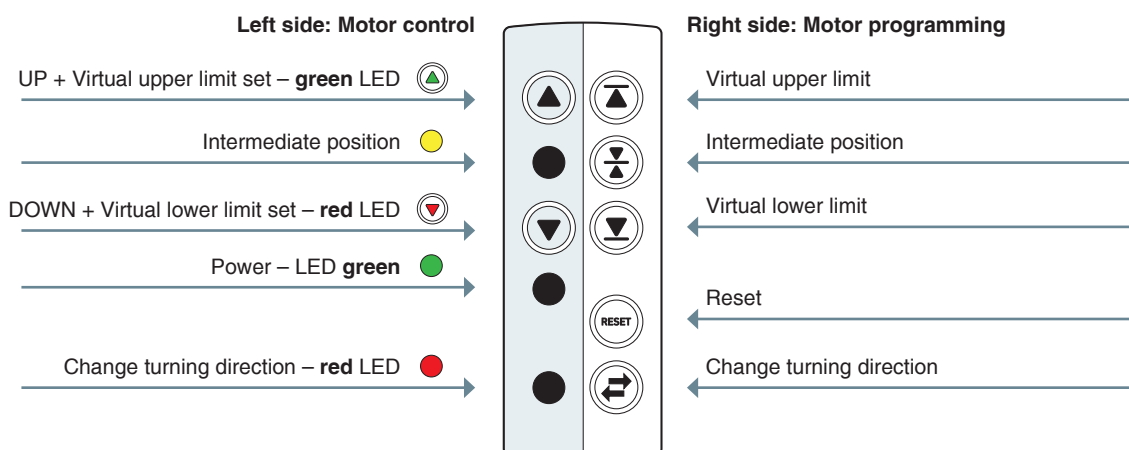


IMPORTANT!

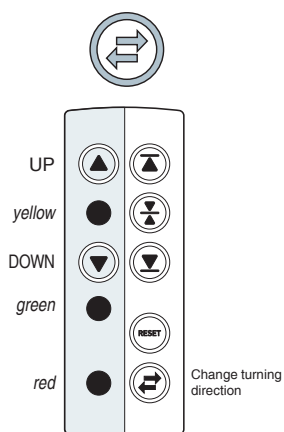
- Switch off the power supply. Connect the wire of the motor to the terminal clamps of the installation tool.
- It is important that the motor-wire-colors correspond with the installation-tool-wire-colors, otherwise the motor turning direction could be set incorrect. Switch on the power supply.
- The 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		
Button	Control motor in UP direction Hold down the button to move the motor in UP direction.			Button Set "Virtual upper limit position".
LED	green LED – Virtual upper limit position: <i>OFF</i> when no "Virtual upper limit" is set. <i>Blinking</i> when "Virtual upper limit" or „Reset“ programming is in progress. <i>Lit solid</i> when "Virtual upper limit" programming sequence has completed.			
LED	yellow LED – Intermediate position: <i>OFF</i> when no "Intermediate position" is set. <i>Blinking</i> when "Intermediate position" programming is in progress. <i>Lit solid</i> when "Intermediate position" programming sequence has been completed.			Button Set "Intermediate position".
Button	Control motor in DOWN direction Hold down the button to move the motor in DOWN direction.			Button Set "Virtual lower limit position".
LED	red LED – Virtual lower limit position: <i>OFF</i> when no "Virtual lower limit" is set. <i>Blinking</i> when "Virtual lower limit" or „Reset“ programming is in progress. <i>Lit solid</i> when "Virtual lower limit" programming sequence has completed.			
LED	green LED – Power: <i>OFF</i> when powerless (it is safe to connect a motor to the Installation Tool). <i>Lit solid</i> when attached to mains 230VAC.			Button Reset
LED	red LED – Change turning direction: <i>OFF</i> when no "Change turning direction" is used. <i>Blinking</i> when "Change motor turning direction" programming sequence is in progress. <i>Lit solid</i> when "Change motor turning direction" programming sequence has completed.			Button Change motor turning direction.



Changing motor turning direction

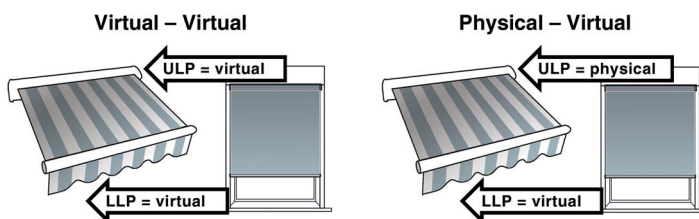
- Hold down the button ▲ or ▼ to check the motor turning direction.
- When the motor reacts in opposite direction (when motor goes down when you press up and vice-versa), you need to change the motor direction. Motor direction can only be changed during installation phase, when no limit positions are 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 and the motor will give a feedback/movement.

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.

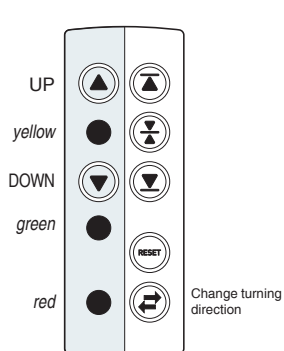
Virtual - Virtual

Advice: start with upper limit position setting

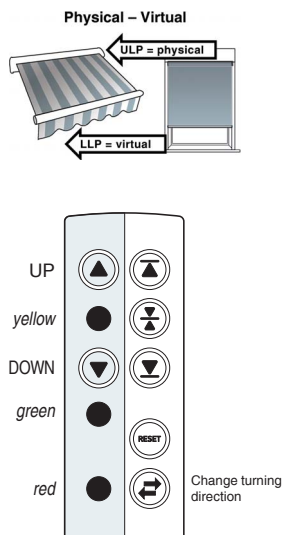
- Hold down the button ▲ to move the motor in the requested *upper* limit position.
- Press the button ↻ shortly.
- The green LED of button ▲ starts blinking as long as the limit setting process is in progress.
- The green LED of button ▲ lit solid if the process is finished and the motor will give a feedback (short DOWN/UP movement).
- 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.
- Press the button ▲ or ▼ = self-locking.
Simply press the opposite button to stop the motion.

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 of button ▼ lit solid if the process is finished and the motor will give a feedback (short UP/DOWN movement).
- 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 and the motor will give a feedback (short DOWN/UP movement).
- 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.
- Press the button ▲ or ▼ = self-locking.
Simply press the opposite button to stop the motion.

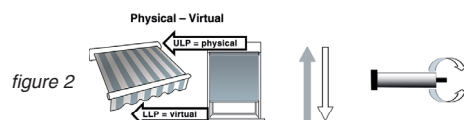


Physical – Virtual



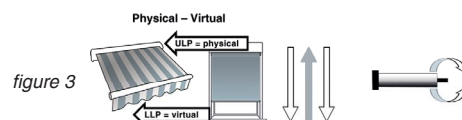
Advice: start with upper limit position setting

- Hold down the button ▲ till motor stops automatically due to obstacle detection. Upper physical limit position is now set and the motor will give a feedback (short DOWN/UP movement).
- 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 and the motor will give a feedback (short UP/DOWN movement).
- The motor need 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.
- Press the button ▲ or ▼ = self-locking. Simply press the opposite button to stop the motion.



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 of button ▼ lit solid if the process is finished and the motor will give a feedback (short UP/DOWN movement).
- Hold down the button ▲ till motor stops automatically due to obstacle detection. Upper physical limit position is now set and the motor will give a feedback (short DOWN/UP movement).
- The motor need 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.
- Press the button ▲ or ▼ = self-locking. Simply press the opposite button to stop the motion.



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, sunshade 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.

Setting intermediate position

- Before setting the intermediate position, the upper and lower limit position should be set and confirmed.
- Press the button UP or DOWN = self-locking. Simply press the opposite button to stop the motion.
- Press the button “intermediate position” shortly.
- The yellow LED ● starts blinking as long as the setting process is in progress.
- The yellow LED ● lit solid if the process is finished.
- The motor will give a feedback (short DOWN/UP movement) to confirm that the installation procedure has ended.
- When an intermediate position is programmed, the motor reaction is dependable of how long the UP/DOWN button is pressed.
- Press UP or DOWN short = intermediate position.
- Press UP or DOWN long (> as 1 sec.) = overrun the intermediate position.
- The intermediate position can be change/overwritten at any time.

