



INSTALLATION AND OPERATING INSTRUCTIONS

LL-SMI-24/0,9NM VB

LL-SMI-24/0,9NM VB



This manual is suitable for the following products:

- LL-SMI-24/0,9Nm VB (01010050)
- LL-SMI-24/0,9Nm VPB (01010030)

Documentnumber: 8350009 C01

Lovoline motor for
the control of indoor
shading systems

Read the manual before starting the installation.
Failure to follow the instructions may result in defects that are not
covered by the warranty. Errors and technical changes excepted.



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SAFETY INSTRUCTIONS

GENERAL INFORMATION

These safety instructions are an integral part of the product and must be read and fully understood before installation, electrical connection, commissioning and operation.

- The device may only be used for its intended purpose as described in this documentation.
- Installation, electrical connection and commissioning may only be carried out by a qualified electrician.
- The motor must be checked for visible damage before installation. Damaged devices must not be put into operation.
- Any modification or alteration of the device is prohibited and will void all warranty and liability claims.
- Do not allow children to play with fixed control devices. Keep remote controls out of reach of children.
- The system must be checked regularly for imbalance, wear, or damaged cables and components.

SAFETY WARNINGS



ELECTRICAL HAZARDS

DANGER – Risk of fatal electric shock.
Disconnect the mains voltage completely before installation and before working on the device.



SMI-SPECIFIC SAFETY INSTRUCTIONS

Note system compatibility and communication operations



HAZARDS FROM MOVING SUN SHADING SYSTEMS | WARNING –

Risk of injury due to crushing, shear points or uncontrolled movements.



NOTE

The complete safety instructions can be found at: www.vestamatic.com/safety



SCAN ME

SUPPORT/CONTACT

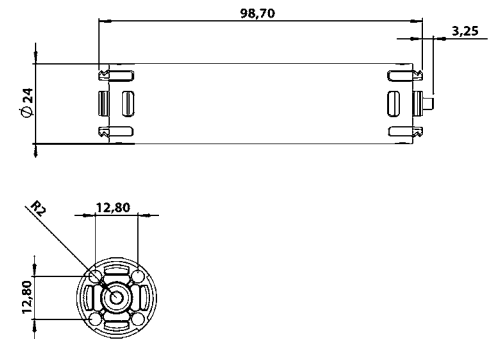
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Am Tannenbaum 2 | 41066 Mönchengladbach
E-Mail: info@vestamatic.com

TECHNICAL DATA

SHORT DESCRIPTION

- SMI Lovoline motor for 24 VDC – side motor
- For precise control of venetian blinds
- In switch mode, simple operation via standard buttons
- Bidirectional communication (SMI technology) between motor and control unit
- Motor speed reduced at start/stop
- Parallel operation
- Up to 16 SMI motors can be connected in parallel via the SMI bus
- Operation of individual motors possible via the SMI bus
- Synchronous movement of shading systems
- Upper and lower end positions electronically programmable
- Intermediate position memory

- Easy adjustment of end positions with the “LL-Progset-ME24/SMI-24” (Art. No.: 54185735)
- Obstacle detection / braking function



PARAMETER	VALUE
Supply voltage range:	22 – 28 VDC
Nominal supply voltage:	24 VDC
Rated Power (idle):	0,2 W ¹⁾
Rated Power (nominal):	6 W ¹⁾
Rated Power (maximum):	12 W ¹⁾
Rated Torque:	65 Ncm
Maximum Torque:	90 Ncm ²⁾
Maximum Running time:	10 Min. at ambient temperature of +25 °C
Output speed:	5-30 min ⁻¹

TECHNICAL DATA

PARAMETER	VALUE
Operating temperature	-10 °C to +85 °C
Protection degree	20
Connection terminal	Pancon 4 pin
Application	Venetian blinds (01010050) Venetian Plissee blinds (01010030)
Conformity	

¹⁾ At recommended supply voltage

²⁾ At a speed of 23 min⁻¹

MOUNTING / INSTALLATION

The motor is designed for installation in various pleated blind headrails. The corresponding adapters can be found in the accessories range (not included in delivery).

Clipadapter (Venetian blinds)



Clip-A-HD VB25
(Art.No. 72020250)

For correct installation, please refer to the mounting instructions.

Shaft adapter (rigid)



LL-Shaft-A-4/5 mm ST
(Art.No. 72020038)



LL-Shaft-A-4/6 mm ST
(Art.No. 72020020)



LL-Shaft-A-6/5 mm ST
(Art.No. 72020021)

Shaft adapter (flexible)



LL-Oldham C-A
(Oldham Kupplung)
(Art.No. 72020200)



LL-Shaft-A-4/5mm OC
(Art.No. 72020100)



LL-Shaft-A-6/5mm OC
(Art.No. 72020120)

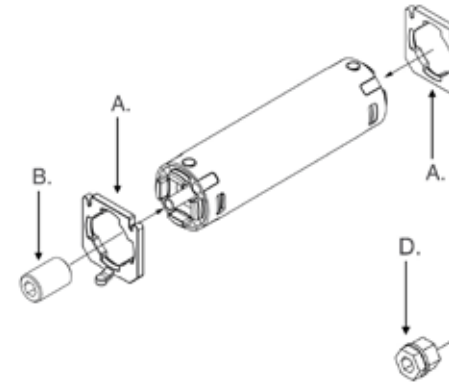


LL-Shaft-A-6/6mm OC
(Art.No. 72020130)

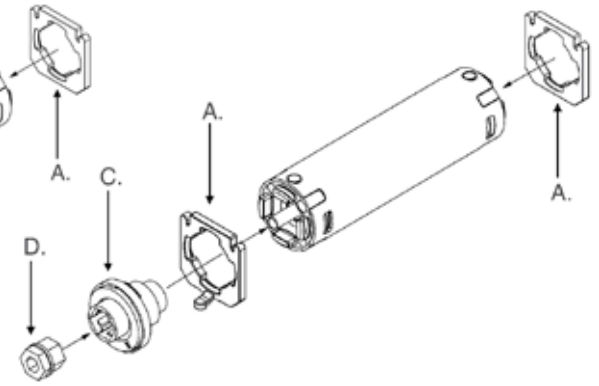
The motor is equipped with a Pancon MAS-CON Series CE / CT 100 terminal connection. The electrical connection must be carried out according to the wiring diagram (see next page).

MOUNTING / INSTALLATION

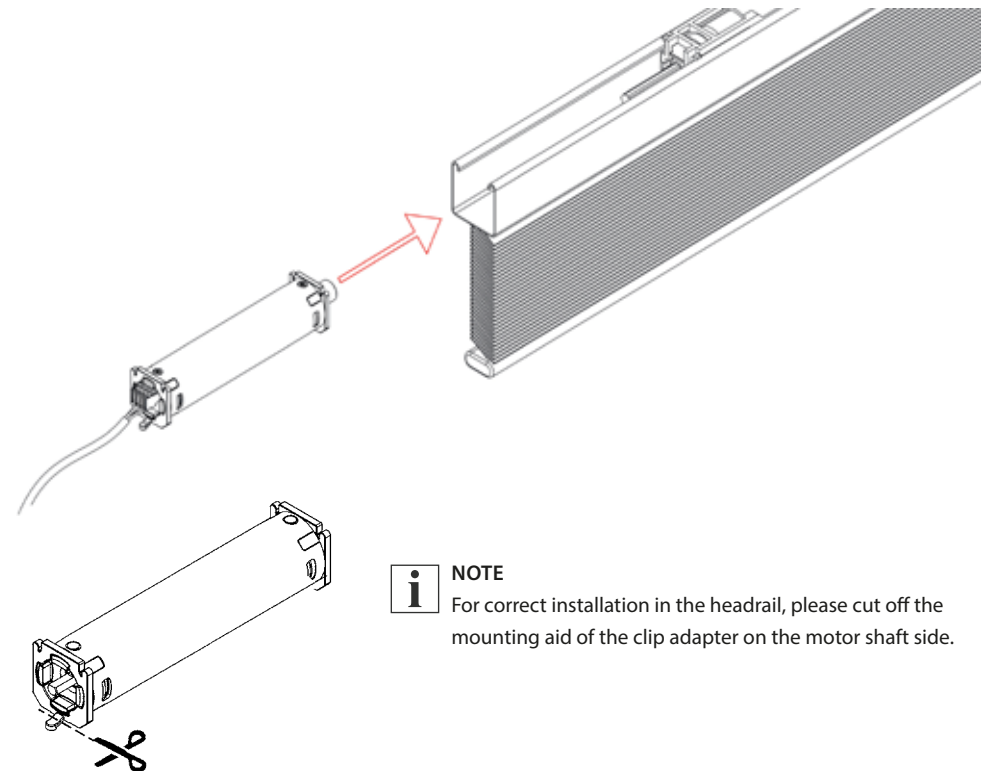
MOUNTING SHAFT ADAPTER (RIGID)



MOUNTING SHAFT ADAPTER (FLEXIBLE)



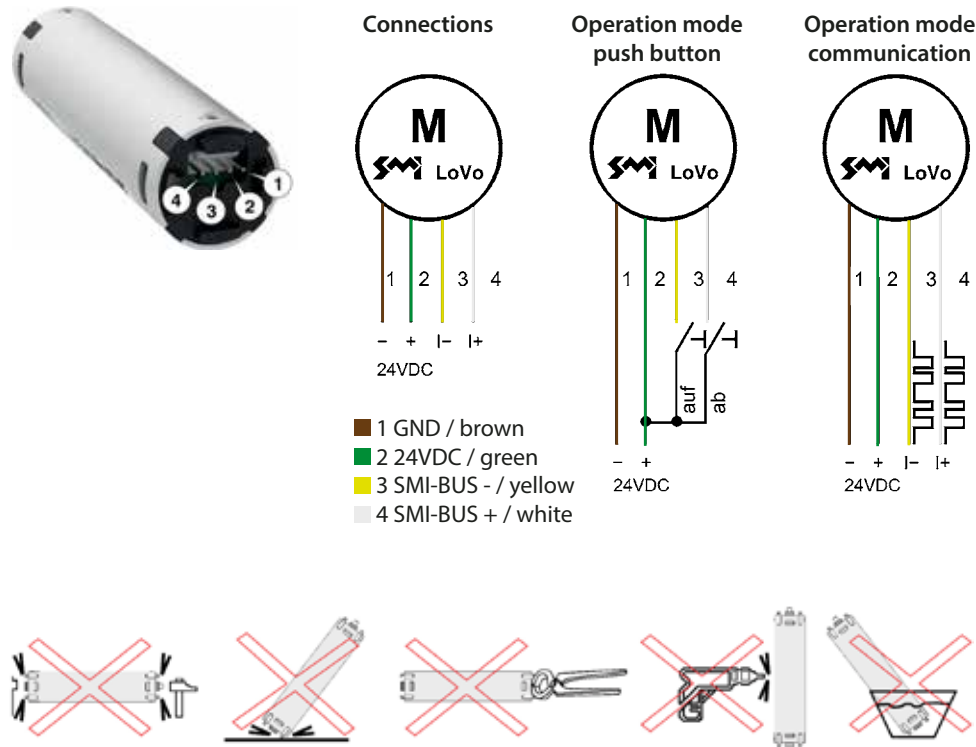
INSTALLATION IN THE RAIL SYSTEM



NOTE

For correct installation in the headrail, please cut off the mounting aid of the clip adapter on the motor shaft side.

WIRING DIAGRAM



WHAT IS SMI

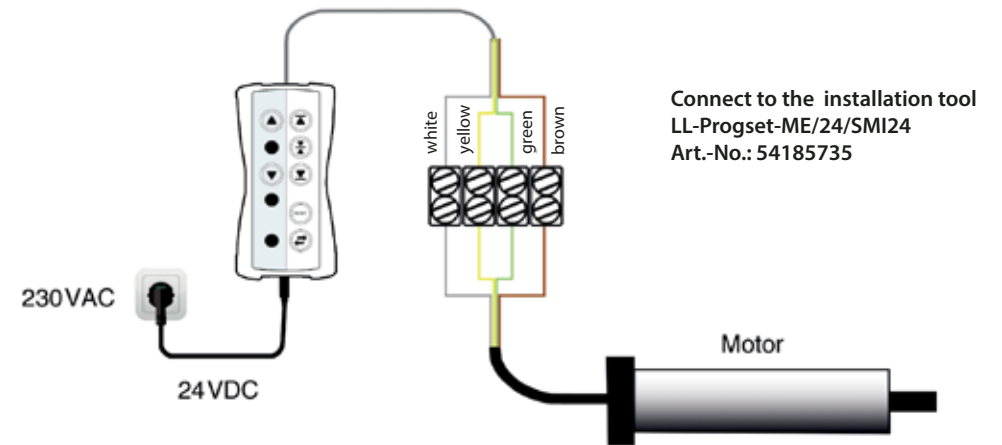
- SMI stands for Standard Motor Interface.
- SMI was developed to connect intelligent drives with roller shutters and sun shading systems.
- SMI enables the transmission of signals from the control system to the drive and vice versa.
- SMI allows products from different manufacturers to be combined.
- The SMI interface simplifies the use of high-quality solutions and increases compatibility between standard drives and control systems from different manufacturers.
- Applications for roller shutters and sun shading systems require a high level of robustness and cost efficiency. SMI was developed to meet these requirements.

INSTALLATIONSTOOL LL-PROGSET-ME24/SMI24

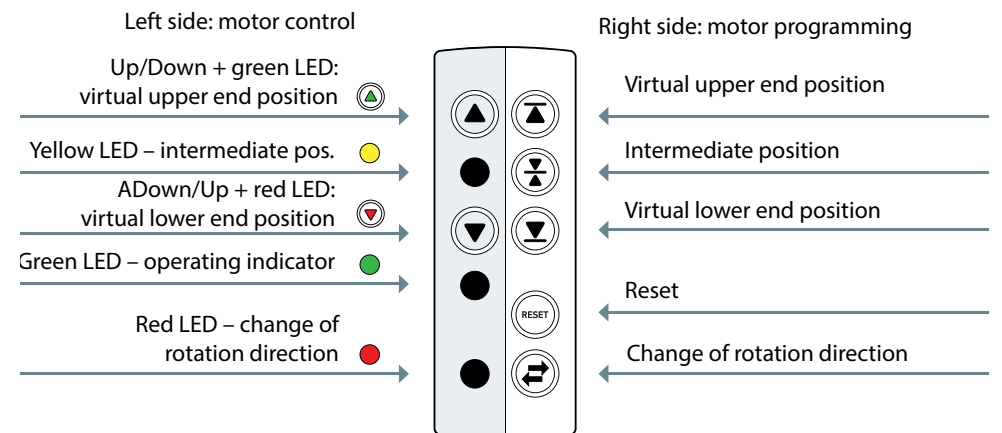
ELECTRONIC LIMIT ADJUSTMENT WITH THE INSTALLATION TOOL

Connect to the installation tool (LL-Progset-ME24/SMI-24 / Art.-No.: 54185735).

- Switch off the power supply. Connect the corresponding cable to the motor and to the installation tool.
- It is important that the colors of the motor connection cables and the installation tool match. Otherwise, the motor rotation direction may be set incorrectly. Switch on the power supply.
- The installation tool is not suitable for continuous operation and is intended solely for limit adjustment.



DESCRIPTION OF THE INSTALLATION TOOL LL-PROGSET-ME 24 / SMI 24



DESCRIPTION OF THE INSTALLATION TOOL LL-PROGSET-ME24 / SMI24

Motor control			Motor programming		
Button	For controlling the motor in the upward direction. Press and hold the button to move the motor upward.				
LED	Green LED (upper end position): OFF = no upper end position set Flashing: = saving of the upper end position or RESET is being executed lights up: = upper end position is stored	 green		Button	To save the virtual upper end position. Move in upward direction.
LED	Yellow LED (intermediate position): OFF = no intermediate position set Flashing: = saving of the intermediate position lights up: = intermediate position is stored	 yellow		Button	To save the intermediate position.
Button	For controlling the motor in the downward direction. Press and hold the button to move the motor downward.				
LED	Red LED (virtual lower end position): OFF = no virtual lower end position set Flashing: = saving of the virtual lower end position or RESET is being executed lights up: = virtual lower end position is stored	 red		Button	To save the virtual lower end position.
LED	LED – Green LED (operation indicator): OFF = no operating voltage (safe mode after connecting the motor to the installation tool) lights up: = operating voltage (230 VAC) present	 green		Button	Reset
LED	Red LED (change of rotation direction): OFF = no change of rotation direction Flashing: = change of rotation direction in progress lights up: = change of rotation direction completed	 red		Button	Execute change of rotation direction

CHANGE MOTOR ROTATION DIRECTION

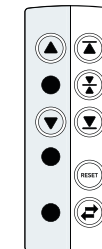
Check rotation direction
Press and hold
Up  or down 



The rotation direction must be changed if the motor runs in the wrong direction (e.g. downward when pressing UP).

The rotation direction can only be changed during the installation phase, when no end positions have been set yet.

Change rotation direction
Press the Button  1x



If the power supply is connected, the red LED lights continuously. The motor gives a short feedback (rotation).

The red LED flashes during the change of rotation direction.

INSTALLATIONSTOOL LL-PROGSET-ME24/SMI24

SETTING THE ELECTRONIC LIMIT POSITIONS



NOTE

The motor runs with a short start delay during the installation phase as long as the limit positions are not fully stored.

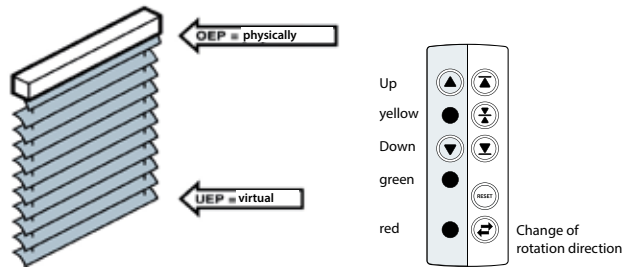
COMBINATIONS OF ELECTRONIC LIMIT ADJUSTMENTS

OEP = abbreviation for upper end position

UEP = abbreviation for lower end position

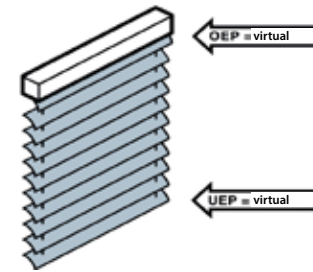
The following combinations of virtual / physical limit positions are possible:

PHYSICAL - VIRTUAL



The upper limit position is physical, the lower limit position is virtual.

VIRTUAL - VIRTUAL



Both limit positions (upper and lower) are virtual.

LIMIT ADJUSTMENT: PHYSICAL - VIRTUAL

START OF SETTING WITH THE LOWER LIMIT POSITION

- 1 Press and hold the Button Or: for precise movement: press the button 2x, then hold → Motor moves downward to the desired end position
- 2 Press the button 1x → The red LED of button flashes while the limit position is being stored → When the process is complete, the red LED lights continuously. The motor gives a short feedback (short up/down movement)
- 3 Press and hold the button and move the motor upward until automatic stop → The motor releases the slats just below its physical upper limit. → When the process is complete, the green LED lights of continuously. Limit positions are stored

- 4 Press and hold the button or x6 Sec. = self-hold. Opposite button stops movement

- 5 Press Button or 1x = adjustment of slat position (fine adjustment)

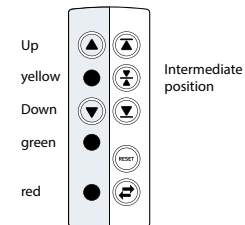
INSTALLATIONSTOOL LL-PROGSET-ME24/SMI24

LIMIT ADJUSTMENT: VIRTUAL - VIRTUAL

START OF SETTING WITH THE LOWER LIMIT POSITION

- 1 Press and hold the Button Or: for precise movement: press the button 2x, then hold → Motor moves downward to the desired end position
- 2 Press the button 1x → The red LED of button flashes while the limit position is being stored → When the process is complete, the red LED lights continuously. The motor gives a short feedback (short up/down movement)
- 3 Press and hold the Button Or: for precise movement: press the button 2x, then hold → Motor moves upward to the desired end position
- 4 Press the Button 1x → The green LED of flashes while the limit position is being stored → The motor moves briefly to the physical stop, then returns to the upper virtual limit position. Limit positions are stored
- 5 Press and hold the button or x6 Sec. = self-hold. Opposite button stops movement
- 6 Press Button or 1x = adjustment of slat position (fine adjustment)

SAVE INTERMEDIATE POSITION



NOTE

- 1.) The intermediate position can only be stored after the upper and lower limit positions have been set.
- 2.) The stored intermediate position can be changed/overwritten at any time.

- 1 Press and hold the Button or x6 Sec. = Self hold → Press opposite button to stop movement → Press Button or 1x = adjustment of slat position
- 2 To save: press button 1x → The yellow LED flashes while the intermediate position is being stored → When the process is complete, the yellow LED lights continuously. The motor gives a short feedback (short up/down movement)

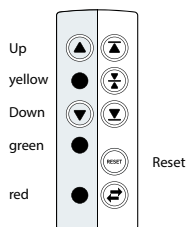
OVERWRITE INTERMEDIATE POSITION (IF STORED):

- 1 Press and hold the Button or x6 Sec. = Self hold → While the motor is in self-hold, press the same button or 1x. The intermediate position is overwritten

INSTALLATIONSTOOL LL-PROGSET-ME24/SMI24

MOTOR-RESET

Deleting the set limit positions



1

Press Button  until the LEDs start flashing

LEDs flash during the entire reset process

When the process is complete, the LEDs turn off

The limit positions are now deleted and the motor can be set again.
The motor gives a short feedback (short UP/DOWN movement).

OPERATING INSTRUCTIONS

OPERATING NOTES

When reaching the lower set limit position, the motor performs a tilt movement to ensure that the slats are properly fanned out and do not stick together. Afterwards, the slats are closed in the lower limit position.

PERFORMING A REFERENCE RUN

- After 10 complete cycles or if the motor was without power
- For checking the blind mechanics
- Execution always in the UP direction. The motor moves against the physical stop, detects it and then moves back to the previously set upper limit position

SHORT DESCRIPTION

-   Press 6 sec. = self-hold. Motor runs into the end position or stops at the intermediate position. Pressing the opposite button stops
-   Press 1x = adjustment of slat position
-   Press longer = slow tilting movement. A full tilt takes 4 sec.

MAINTENANCE / WARRANTY

In general, the manufacturer's general terms and conditions of sale and delivery apply (Vestamatic International GmbH). These terms are part of the sales documents and are handed over with delivery. Liability claims for personal injury and property damage are excluded if they are attributable to one or more of the following causes:

- Improper use of the product
- Opening of the product by the customer
- Improper installation, commissioning or operation of the product
- Non-compliance with the specified technical specifications
- Operation of the product with improperly installed connections, defective safety devices or improperly mounted safety and protective devices
- Structural modifications to the product

Maintenance: The product is maintenance-free.