Vestamatic®

MC KNX9

Art.-no.:
01078050

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Motor control for nine sunshade device drives.

Installation and Operating Instructions

Short description

- Motor control for the electronic gearing of venetian blinds, awnings, facade blinds, roller shutters or windows

Installation

In switch cabinet on top-hat rail 35 mm or comparable	
Dimensions (W × H × D):	158 × 58 × 89 mm
Weight:	480 g
Mark of conformity:	CE

Safety precautions

- Contact a professional electrician to install the control system, because the control system requires a power supply of 230VAC, 50 Hz.
- Check the control system for signs of mechanical damage after unpacking. If you notice any shipping damage, do not start up the control system and notify your supplier immediately.
- The control system 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.
- If the control unit or the connected sunshade 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, controls or connected shades, protect them against unauthorised or unintentional operation.

Technical data

Connection data

Power supply:	230VAC, 50 Hz
Wire:	3 wires (L, N, PE), 1.5 mm²
Fuse:	single-wire or fine-wire, protection switch 13 A max.

Motor connection

IP class:	IP 20
Motor type:	asynchronous motor 230VAC, 50 Hz, 2.5 A max.
Power factor cable:	with 2 mechanical end switches > 0.9 4 wires (UP, DOWN, N, PE), 1.5 mm², Single-wire or fine-wire. Motor neutral conductor can be lead separately or together

Ambiance

Operating temperature:	0 °C (32 °F) to +50 °C (122°F) (dry rooms)
Degree of contamination:	2

Local operation

Circuit:	SELV (12 V / 20 mW)
Cable:	4 wires (UP, DOWN, LED, +), 1 × Ø 0.8 mm or 2 × Ø 0.5 mm, fine-wire, twisted, cable length 100 m maximum, potential-free switch contact is needed

KNX

Terminals:	Ø 0.5 ... 0.8 mm, single-wire
BUS line:	according to KNX standard

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 control in accordance with the wiring diagram.

– External operator panels –

Operating mode of the local operation

- Upper end position: long keystroke UP (> 0.4 s)
- Lower end position: long keystroke DOWN (> 0.4 s)
- Shading position: long keystroke DOWN (> 0.4 s), shortly after short keystroke DOWN (< 0.4 s)
- Stop: short keystroke in opposite direction (< 0.4 s)
- Move slats: short keystroke during standstill (< 0.4 s)

Status display of the local operation

- LED blinking: manual operation locked out- security lock-out
- LED glowing: automatic lock-out set

Configuration

- Configuration is effected by version ETS3 (Engineering Tool Software) of the Konnex Association. Details regarding adjustments and functions can be found in the online help of the application.
- The programming key enables you to switch on or off the programming mode. The programming LED shows the actual mode. If the LED cannot be switched on, there is no BUS tension. The physical address can only be programmed with LED on.

Start-up

- Check device, terminals and connections (visual control).
- Motors must not be connected in parallel.
- Activate the power supply. Check tension and status LED on the device.
- Use the group test keys at the device to check function and direction of rotation. With wrong direction of rotation please correct the motor connection.
- In case that a local operation is installed, please check the function. With wrong running direction, please adjust the local operation.
- After the test, move all venetian blinds, awnings, facade blinds, roller shutters and windows to the safe end position (usually upwards).

Mount all covers, apply special labels, if necessary, update the technical documentation.

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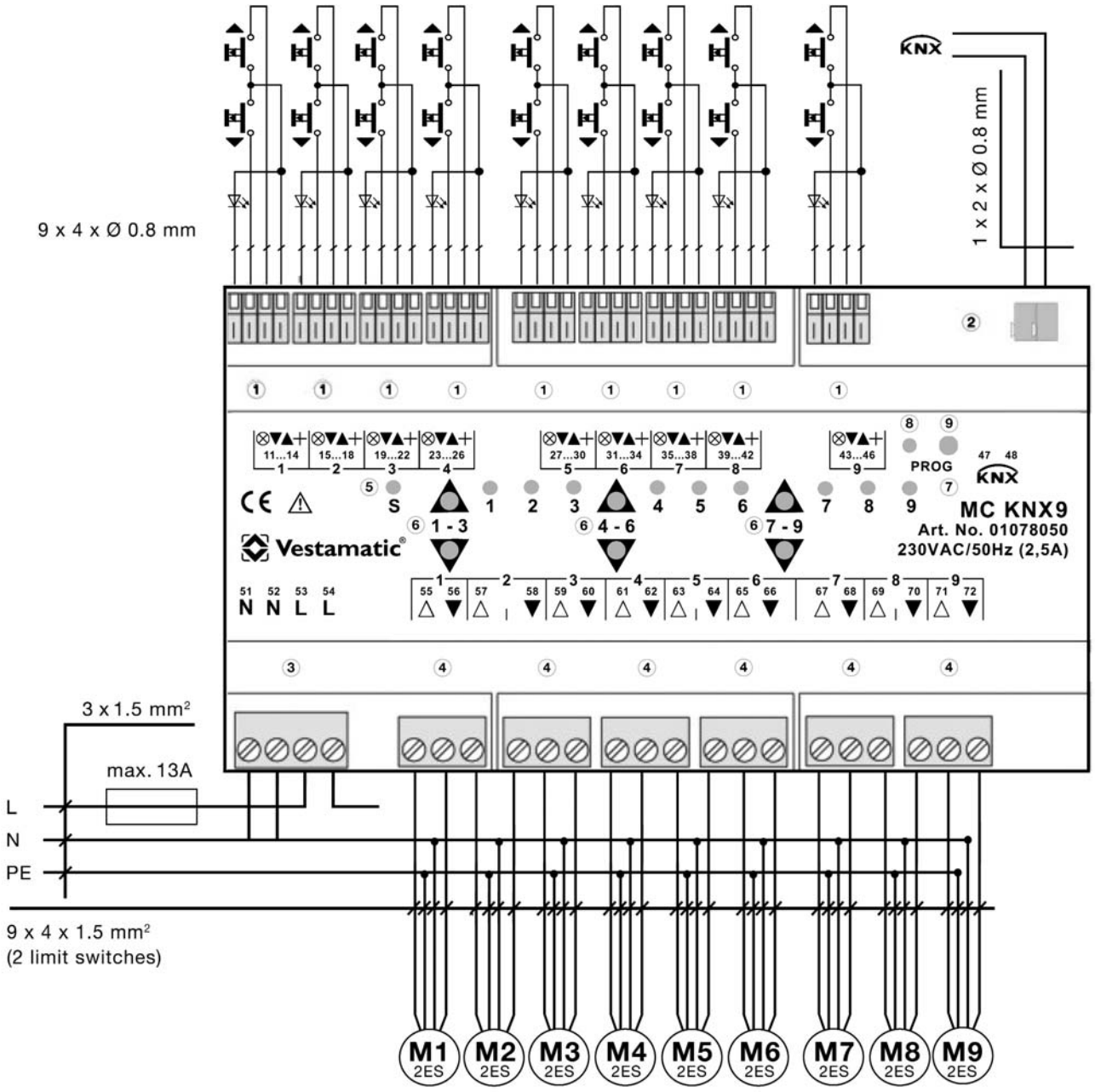
Wiring diagram

ATTENTION!
Incorrect connections can destroy the device!
The neutral wire of the motor can be lead separately or together.



Legend

Connections

①	M1… M9	Local operation
②	BUS	KNX-BUS
③	L, N	Power supply
④	M1… M9	Motors
△▲	UP	Upper limit position
▼	DOWN, DOWN 2	Lower limit position
▽	DOWN 1	Shading position
+	Combined connection of the operator panel (12VDC)	

Operating and display elements

⑤	S	Status LED
⑥		Group test key
⑦	1… 9	Motor status LED
⑧	PROG	Programming LED
⑨	PROG	Programming button
	LED	Status display of the local operation (1.6 mA / 20 mW)
	T	Button or switch for operation

Subject to modifications.

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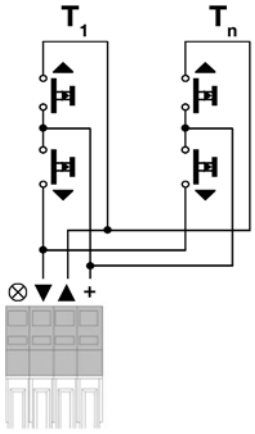
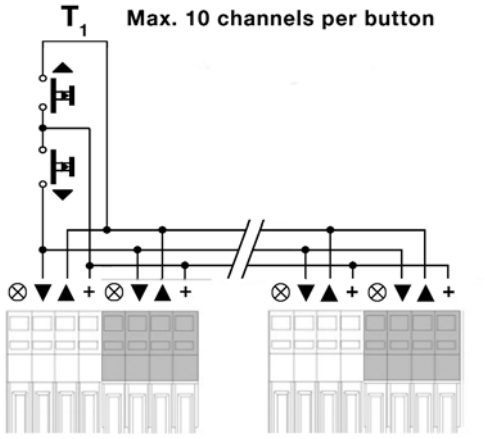
Wiring according

Several operator panels to one local operation:



One operator panel to several local operations:

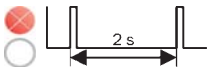


Local operation with status display:
Only one LED allowed, do not connect LED connections among each other.

Display on device

Motor status LED

Normal operation, power supply present



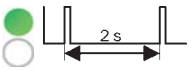
Manual operation locked out or security lock-out set

Check motor or connection

When LED glowing steady, the automatic lock-out is set.
When LED is off, the channel is switched off.

Status LED

Normal operation, power supply present



Telegram is being received

No Bus tension present

When LED is **red,** the device has an operational fault.

Programming LED

With glowing LED the device is in the programming mode.

Legend

- red LED active
- green LED active
- LED off

Notes for ETS download

For ETS download, the device must be connected to the 230VAC power supply.

When programming the new actuators, the following ETS problem can occur:

Download from ETS project with keyword:

The download of an actuator application is aborted when a BCU key is entered in SECURITY of the project properties.

Workaround: omit the keyword
(spare the field BCU key).

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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