KAISER NIENHAUS
Komfort & Technik GmbH

Item no. 332550
OPEN/CLOSE control for 12-24V DC drives

Installation and Operating Instructions

⟶ Description:

The electronic control unit 332550 is a universal DC motor control for clockwise/anticlockwise rotation. It can be used as a one-button or two-button motor control. The priority extension inputs allow several 332550 units to be combined into group and central controls. The motor running time can be limited, e.g. to avoid overloading the motor in the event of a mechanical blockage. A convenient, automatic and adjustable closing function prevents, among other things, a roof window from being left open unintentionally. With venetian blind control, the slats can be adjusted precisely or automatically reset to a specific angle after switching off.

Applications

Roller shutters and blinds, folding shutters, roof windows, smoke extraction hoods in fire protection systems, gate drives, ventilation controls, etc.

Function of the control

The 332550 is controlled by standard push-buttons that do not require mechanical interlocking. A short button pulse on the local inputs VA (local open) or VZ (local close) selects the direction of travel. The drive runs to its end position and the set time elapses. A repeated pulse (on VA or VZ) during the running time stops the motor. For single-button motor control, both local inputs can also be operated simultaneously with just one push-button. With this control, the direction changes after each button pulse (Open-Stop-Close-Stop).

Via the extension inputs NA (open) and NZ (close), any number of drives can be opened or closed simultaneously in a defined way, regardless of their current state. When controlled via the extension input, the motor only runs as long as the upstream group control unit sends the command. If NA and NZ are active at the same time, NA has priority. As long as NA or NZ is active, the local inputs are blocked.

If the DMS 5/U5 is used as a group control unit, the extension inputs are not time-monitored. This allows the subordinate control units to be held in a desired position for any length of time (e.g. by a wind monitor). In blind mode, the drive stops immediately after a short button pulse on a local input. With a longer button pulse, the drive runs to the end position again. This makes it possible to change the slat position of a blind with short presses. In single-button blind mode, the direction of travel is not changed by button pulses in quick succession, so blind slats can also be positioned easily here. If automatic return is set, the drive starts in the close direction after the set return delay has elapsed. The timer is started by the local input VA.

Settings

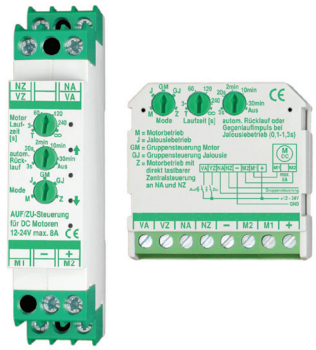

Fig. Item no. 332550
as flush-mounted
and DIN-rail version

If VA is activated for longer than 2s, the return time doubles. In blind mode, a counter-pulse is set instead of the closing function, which automatically resets the slats after the motor stops. The “motor control centrally operable” mode (Z) enables simple central control in smaller systems without an upstream group control unit. The extension inputs can be operated here via push-buttons like the local inputs, but they have priority.

Technical Data

Operating voltage	12-24 V DC ±10%
Power consumption	max. 0.6 W
Running time	3 - 240 s
Autom. return time	3s - 30min.
Counter-pulse	0.1 - 1.3s
Changeover pause	0.6s
Relay output	12-24 V DC max. 8 A
Ambient temperature	-10°C to +45°C

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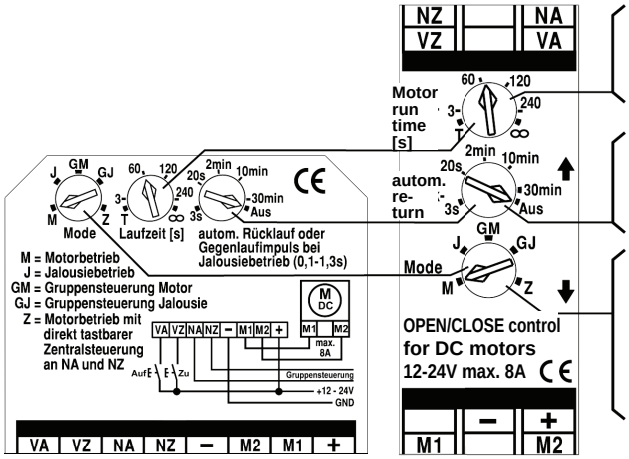
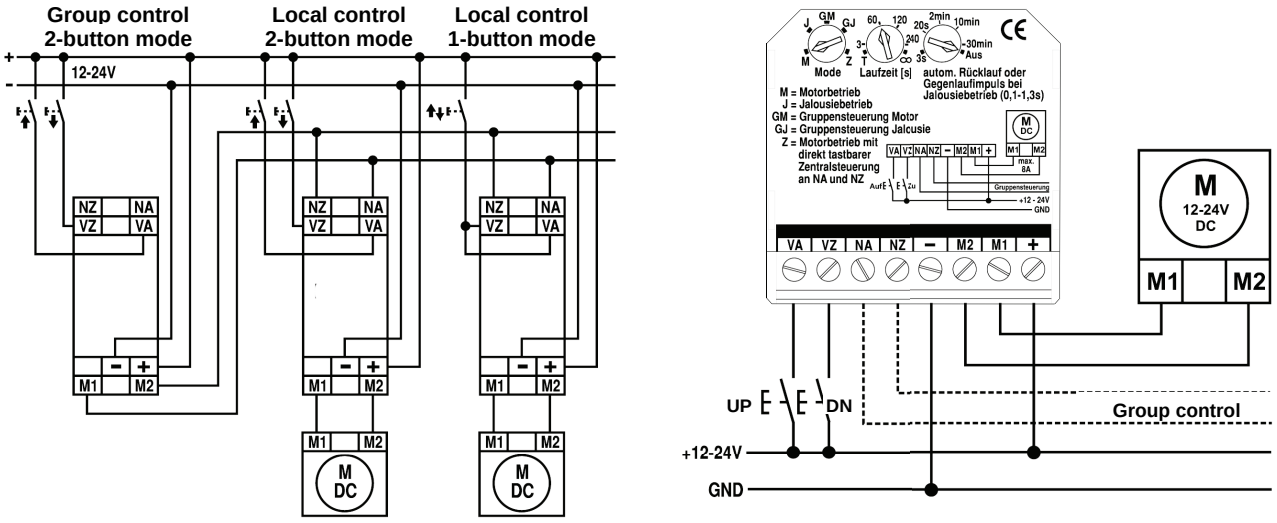
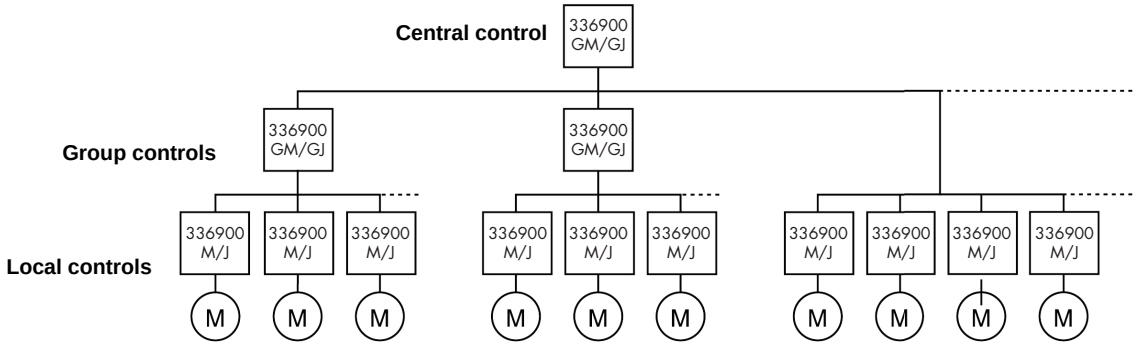


Motor running time limit 3 to 240s
T = momentary mode (motor only runs while input is active)
∞ = no running time limit

Motor control: time for autom. closing function 3s to 30min
Blind control: duration of counter-pulse 0.1 to 1.3s
(scale does not apply here), Off = function deactivated

M = motor control
J = blind control
GM = group unit for motor control
GJ = group unit for blind control
Z = motor control centrally operable

In GM and GJ mode (group unit setting), relay outputs M1 and M2 are always active when the extension inputs are activated. This allows continuous control (blocking of the local inputs) by sensor contacts (e.g. wind monitor, rain sensor, etc.).

Wiring diagram