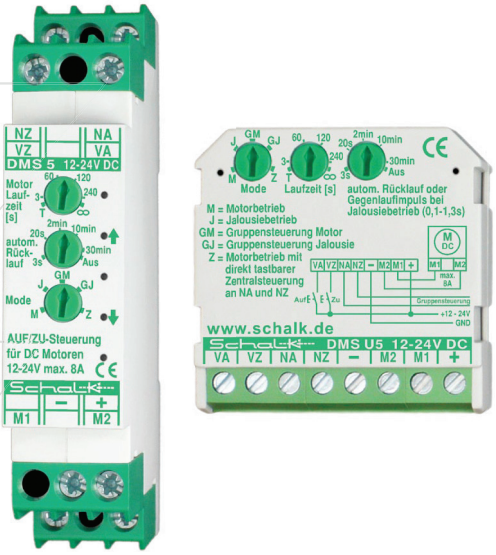
KAISER NIENHAUS
Komfort & Technik GmbH

Item no.: DMS 5 / DMS U5
OPEN/CLOSE control for 12-24V DC drives

OPEN/CLOSE Control for 12-24V DC Drives DMS 5 / DMS U5

with extension inputs for group and central control

Convenient DC motor control with electronic button interlock and running time limit, suitable e.g. for DC-powered blinds, roof windows, etc.



Special Features

- one-button or two-button control
- electronic push-button interlock, so standard push-buttons can be used
- special venetian blind mode, convenient slat adjustment
- automatic closing function with adjustable time, time doubled by longer button press
- motor protection by running time limit

General

The electronic control unit DMS 5 / DMS U5 is a universal DC motor control for clockwise/anticlockwise rotation. It can be used as a single-button or two-button motor control. The priority extension inputs allow several DMS 5 / DMS U5 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 blind control, the slats can be adjusted precisely or automatically reset to a specific angle after switch-off.

Application

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

Function

The DMS U5 is controlled by standard push-buttons that require no mechanical interlock. A short button pulse on the local inputs VA (local open) or VZ (local close) selects the respective direction. 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 controlled with just one button simultaneously. 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 inputs, the motor only runs as long as the upstream group control unit applies 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.

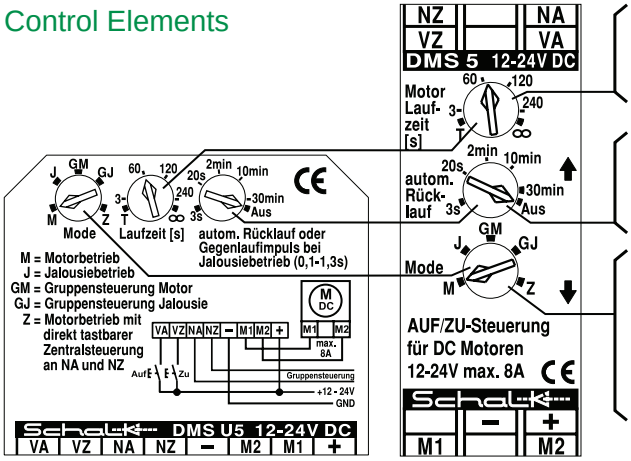
If the DMS 5/U5 is used as a group control unit, the extension inputs are not time-monitored. This allows the subordinate control units to be held in a desired position for any length of time (e.g. by a wind monitor).

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 allows the slat position of a blind to be changed with short presses. In single-button blind mode, the direction is not changed for button pulses in quick succession, so blind slats can easily be positioned here too. 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.

If VA is activated for longer than 2s, the return time doubles. In blind mode, a reverse pulse is set instead of the closing function, which automatically resets the slats after a motor stop.

The “central push-button motor control” mode (Z) allows simple central control in smaller systems without an upstream group control unit. Here the extension inputs can be controlled via push-buttons like the local inputs, but have priority.

Control Elements



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

Motor control: time for autom. closing 3s to 30min
Blind control: duration of the 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 = Central push-button motor control

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.).

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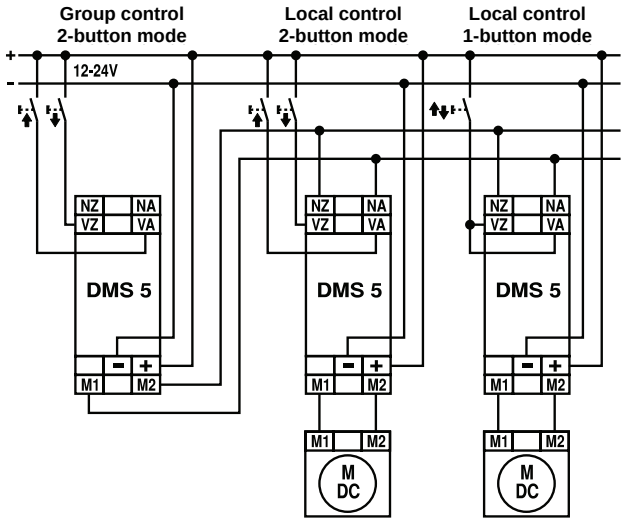
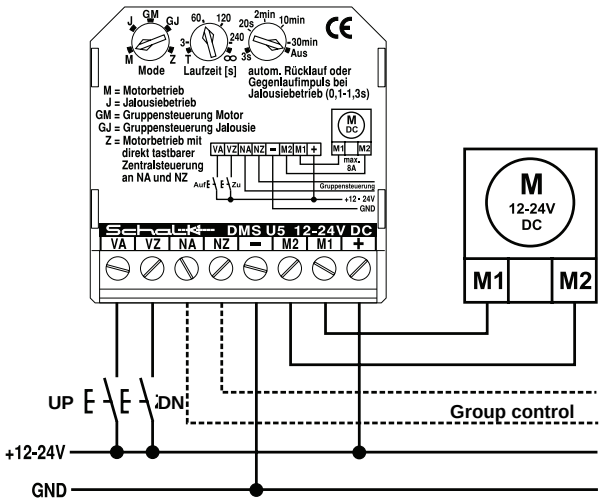
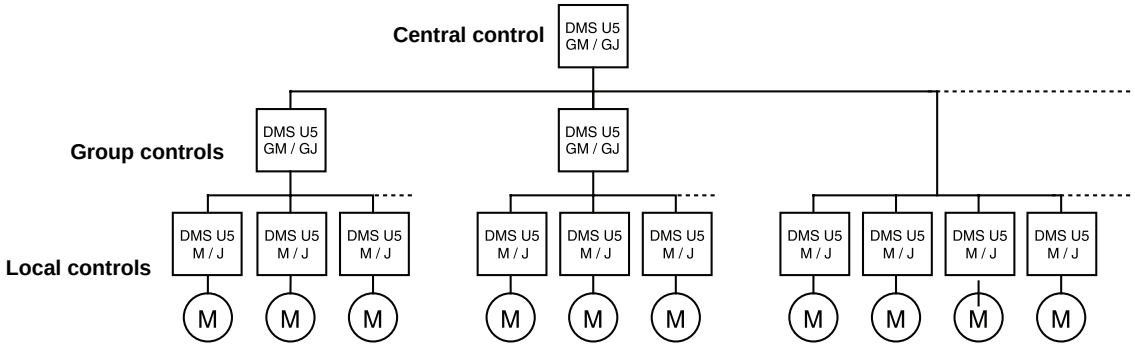
Connection Examples







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Technical Data

Operating voltage	12-24 V DC ±10%
Control voltage	= operating voltage
Power consumption	max. 0.6 W
Running time	3 - 240 s
Autom. return time	3s - 30 min
Counter-run pulse	0.1 - 1.3s
Relay changeover pause	0.6s
Relay output	12-24 V DC max. 8 A
Ambient temperature	-10°C to +45°C
Insulated housing	non-flammable VDE 0304 Part 3, level FV 0
Mounting DMS 5	Snap-on mounting on 35mm standard rail DIN EN 50 022
Connections DMS 5	Socket terminals with captive screws M3.5 (4 x 1.5 mm² / 2 x 2.5 mm² / 1 x 4 mm²)
Connections DMS U5	Socket terminals with captive screws M3.5 (2 x 1.5 mm² / 1 x 2.5 mm²)
Dimensions DMS 5	18 x 88 (45) x 58 mm³
Installation depth DMS 5	55 mm
Dimensions DMS U5	43 x 43 x 18.5 mm
RAL colour	grey 7035 / green 6029

Ordering Data

Item no.	EAN	Type	Item name
DMS50K	4 046929 401104	DMS 5	OPEN/CLOSE control 12-24V DC
DMSU5K	4 046929 401098	DMS U5	OPEN/CLOSE control (flush-mounted) 12-24V DC