OPEN/CLOSE Control UMS 5P / Item no.: 332560

with potential-free extension inputs for group and central control (12-230V UC). Universal motor control for roller shutters, venetian blinds, etc.

Special Features:

- **electrically isolated extension inputs for universal voltage 12-230V UC:** thus equally suitable for conventional installation and later extension with automation solutions (PLC, etc.)
- **low power consumption:** only 0.2W passive / 0.4W active
- **roller shutters can also be positioned via group and central control**
- **one-button or two-button motor control**
- **electronic push-button interlock:** so normal push-buttons can be used
- **special venetian blind mode:** slats conveniently adjustable
- **automatic closing function with adjustable time:** time doubled by longer button press
- **motor protection by running time limit**

General

The OPEN/CLOSE control UMS 5P is an extended version of the proven OPEN/CLOSE control UMS 5. In this version, the extension inputs are potential-free and can be controlled with a universal voltage of 12-230V UC. In many applications, additional coupling relays for separating different RCD circuits or for adapting to a different control voltage are therefore unnecessary. External control by PLC modules or similar building control systems is also much simpler, as no further conversion or isolation of an existing control voltage is required. The creepage and clearance distance between the potential-free inputs and the mains voltage potential is 8mm.

Application

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

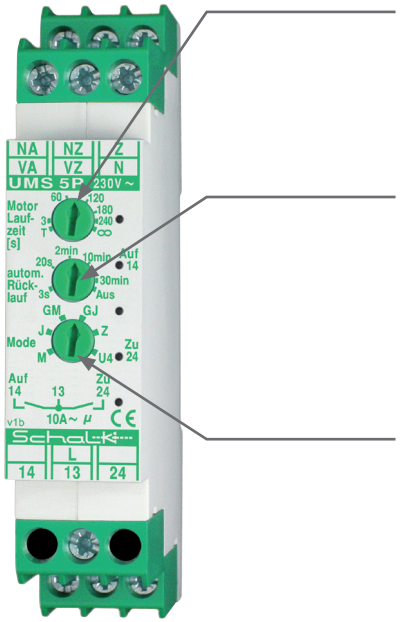
Function

The UMS 5P is controlled by standard push-buttons or switches that do not require mechanical interlocking. A short pulse on the local inputs VA (UP) or VZ (CLOSE) selects the respective running 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 one-button operation, both local inputs are controlled simultaneously with a single push-button. With this control, the running direction changes after each pulse (Up-Stop-Close-Stop). Via the extension inputs NA (UP) 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 an extension input, the motor only runs as long as the upstream group control unit applies the signal. If NA and NZ are active at the same time, NA has priority. As long as NA or NZ is active, the local inputs remain blocked.

If the UMS 5P is used as a group control unit, the extension inputs are not time-monitored. This means the subordinate control units can be held in a desired position for any length of time (e.g. by wind monitors). In venetian blind mode, the running drive is stopped immediately after a short pulse on a local input. With a longer pulse (>1s), the drive runs to the end position/end of running time again. This makes it possible to change the slat angle of a venetian blind with short presses (<1s). In one-button venetian blind mode, the running direction is not changed by pulses in quick succession. This also makes it easy to position venetian blind slats.

If automatic return is set, the drive starts in the CLOSE direction once 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 is doubled. In venetian blind mode, a counter-pulse is set instead of the closing function, which automatically positions the slats after a motor stop. The operating mode “Motor control, central push-button” (Z) allows simple central control in smaller systems without an upstream group control unit. Here the extension inputs can be controlled directly with push-buttons, similar to the local inputs, but they have priority. The running direction can be stopped with the local push-buttons.

Control Elements



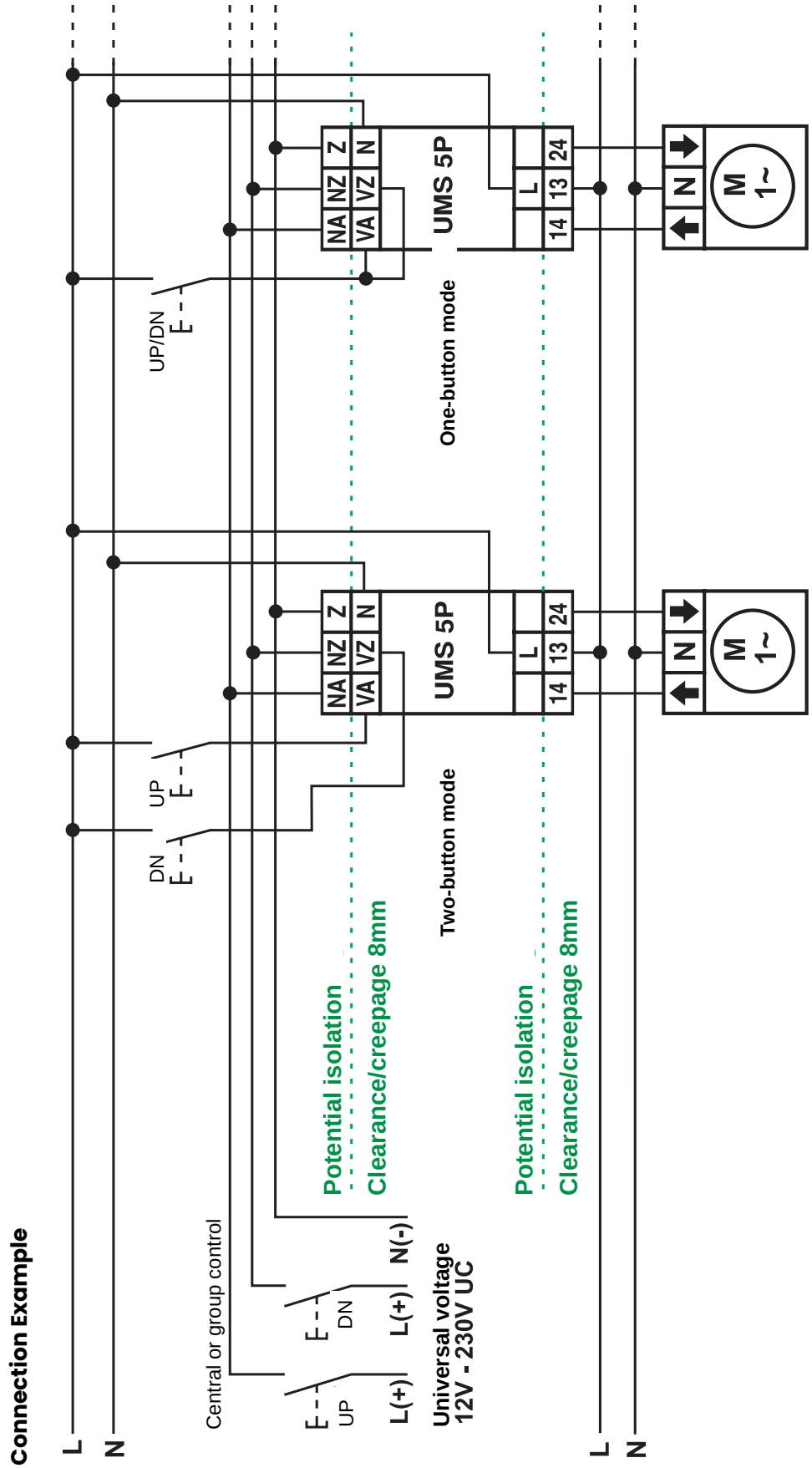
“Motor running time [s]” adjuster:
Sets the motor running time:
T Push-button mode (motor only runs while the input is activated)
3...240 running time in seconds
∞ no running time limit

“Return” adjuster:
This sets the automatic return/closing function:
In mode “M” (motor control): Time for automatic closing function 3s..30min, or off (function deactivated)
In mode “J” (blind control): Duration of the counter-pulse 0.1s to 1.3s (ignore scale!), or off (function deactivated)

“Mode” adjuster:
Sets the operating mode:
M Motor control: short press causes UP, CLOSE or STOP
J Venetian blind control: short press for fine adjustment of the slat angle or STOP, long press for UP, CLOSE
GM Group unit for motor control* (no time monitoring)
GJ Group unit for venetian blind control* (no time monitoring)
Z Motor control, central push-button (all inputs operated with push-buttons)
U4 Mode for backward compatibility with UMS 4

** In modes GM and GJ, relay outputs M1 or M2 (14 or 24) are switched through continuously as long as an extension input remains activated. This enables priority control (with the local inputs blocked) by sensors (e.g. wind monitor, rain sensor, etc.).*

In operating mode U4, the UMS 5P behaves like its predecessor UMS 4 and can therefore also be used to extend older systems or as a replacement unit.



Info

The OPEN/CLOSE control UMS 5P is a version of the OPEN/CLOSE control UMS 5 extended by potential-free extension inputs. Further connection examples and function diagrams can therefore be found in the UMS 5 data sheet.

Caution!

The potential-free extension inputs of the UMS 5P should not be activated continuously with 230V, as this leads to increased heating.

Technical data:

Operating voltage	230V AC 50 Hz
Control voltage	VA and VZ = operating voltage NA and NZ = 12V - 230V UC
Power consumption	active 0.4W / passive 0.2W
Running time	0 - 240s
Autom. return time	3s - 30min
Counter-run pulse	0.1 - 1.3s
Relay changeover pause	0.6s
Relay output	2 NO contacts, potential-free, 10A 250V AC
Switching capacity	see appendix: “Load capacity of the relay contacts”
Ambient temperature	-10°C to +45°C
Interference immunity	to IEC 801-4 level 4
Creepage/clearance	to VDE 0110 Gr. C/250 V
Insulating housing	non-flammable, VDE 0304 Part 3, level FV 0
Mounting	snap-on mounting on 35 mm standard rail
Connections	socket terminals with captive screws M3.5 (4 x 1.5 mm² / 2 x 2.5 mm² / 1 x 4 mm²)
Dimensions	18 x 88 (45) x 58 mm³
Installation depth	55 mm
Weight UMS 5	approx. 80 g
RAL colour	grey 7035 / green 6029