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Multiple control unit 230V, Item 331000
Central and individual control with switches, push-buttons or timers

Installation and Operating Instructions

GENERAL:

The multiple control unit (MS) 331000 serves as a 2-button motor control. Thanks to the priority central inputs, several MS 331000 units can also be controlled as a group. The motor running time is limited to two minutes so that the motor is not overloaded, e.g. in the event of a mechanical blockage.

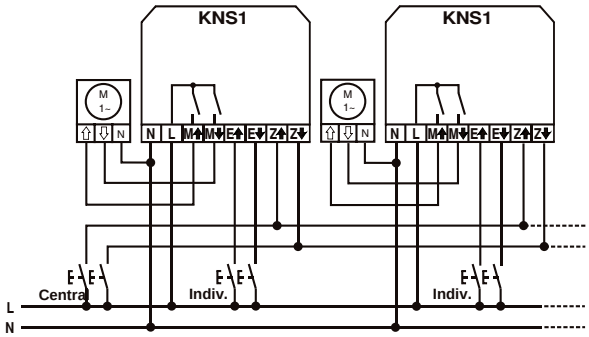
APPLICATION:

Roller shutters, blinds, ...

FUNCTION:

One motor (with limit switches) is connected to terminals (M↑, M↓) of each MS 331000. The inputs of the MS 331000 are controlled by normal push-buttons or switches (no mutual interlocking required). The running direction changes over with a 0.4s delay.
The individual control inputs (E↑, E↓) have equal priority. The motor is driven for as long as the input is active, but for a maximum of 2 minutes (from the switch-on edge). Regardless of the state of the inputs, the running direction is determined by the last switch-on edge.

The central control inputs (Z↑, Z↓) have priority. The motor is likewise driven for as long as the inputs are active (running time limited to 2 min. from the switch-on edge). However, input Z↑ has the highest priority (it also overrides input Z↓).



Caution:
Supply and control voltage must be on the same phase!

SPECIAL FEATURES:

- **Individual and central control possible**
  Central control inputs with higher priority
- **Central input Z↑ overrides Z↓**
  e.g. wind monitor can prevent extending
- **electronic mutual interlocking**
  normal push-buttons or switches can be used
- **Motor protection by running time limit**
- **small design** (for flush-mounted switch box)

TECHNICAL DATA:

Operating voltage	230V 50/60Hz
Power consumption	0.7 W
Relay output	2 NO contacts 10A / 250V AC connected on one side to terminal L
Switching capacity	see “Load capacity of relay contacts”
Motor running time	limited to 120s
Changeover pause	0.4s
Ambient temperature	-10°C to +45°C
Interference immunity	to IEC 801-4 level 4
Creepage/clearance dist.	to VDE 0110 Gr. C/250V
Insulated housing	non-flammable VDE 0304 Part 3, level FV 0
Connections	Socket terminals with captive M3.5 screws (2x1.5mm² / 1x2.5mm²)
Dimensions	43x43x18.5mm³
Weight	45g
RAL colour	grey 7035 / green 6029

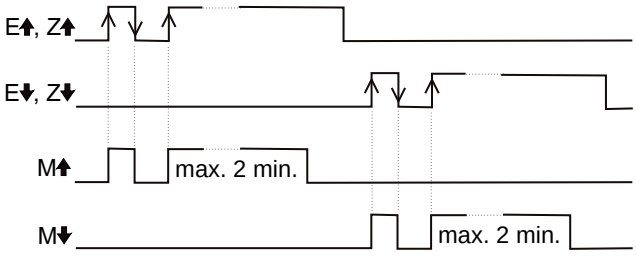
ORDERING DATA:

Item no.	Item name
331000	Multiple control unit, flush-mounted, 230V AC

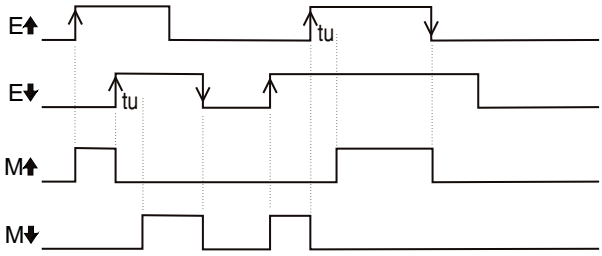
2006-02-24

Function diagrams:

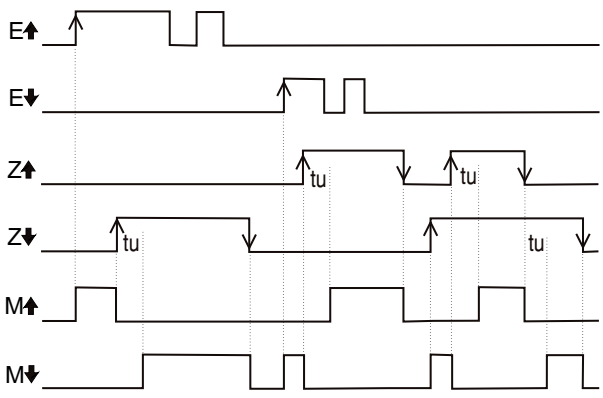
General (E↑, E↓, Z↑, Z↓):
A positive edge switches the corresponding relay on, a negative edge switches the corresponding relay off. The motor running time is limited to 2 min.



Indiv. control (E↑, E↓):
Both inputs have equal priority. A pos. edge switches the corresp. relay on or switches over to the corresp. relay (changeover delay tu=0.4s). A neg. edge switches the corresponding relay off.



Central control (Z↑, Z↓):
The central control inputs have a higher priority than the individual control inputs. Z↑ has a higher priority than Z↓. This means that, e.g., a wind sensor can raise all roller shutters and prevent any manual operation as long as the storm signal is present.



Important Safety Instructions

The electrical connection may only be carried out by an approved electrician in accordance with the wiring diagrams shown in these instructions. Observe the VDE regulations, especially in damp rooms. The VDE regulations contain mandatory protective measures. Failure to do so poses a danger to life! Installation and connection work must always be carried out with the power disconnected; to do this, the supply lines must be disconnected from the mains on all poles and secured against being switched on again. Disconnection from the mains must be made with switching devices that guarantee a contact gap of at least 3mm.

Make sure that nobody is within the travel range of the roller shutters and that nothing can block the movement of the curtains. These operating instructions must be observed and are part of the device and of our warranty conditions.