

Operating Instructions

Blind/shutter actuator 4-channel

Blind/shutter actuator 4-channel 230V manual

Shutter actuator 4-channel 230V manual

Blind/shutter actuator 4-channel 24V DC manual

1. Systeminformation

This device is a product of the KNX system and complies with EIBA directives. Detailed technical knowledge obtained in instabus training courses is a prerequisite to proper understanding. The functionality of this device depends on the software. Detailed information on loadable software and attainable functionality as well as the software itself can be obtained from the manufacturer's product database.

Planning, installation and commissioning of the unit is done by means of EIBA-certified software.

An updated version of the product database and the technical descriptions is available in the Internet at www.jung.de.

2. Safety Warnings

Attention!

Electrical equipment must be installed and fitted by qualified electricians only and in strict observance of the relevant accident prevention regulations.

To prevent electric shocks, disconnect the mains supply (by cutting out the circuit breaker) before working on the device.

Failure to observe any of the installation instructions may cause fire and other hazards

For connection of motors only!

Hazards that may be caused by motor-driven components must be excluded by taking appropriate safety measures.

3. Function

The 4-channel blind/shutter actuators can switch up to four independent blind or shutter drives via the KNX.

Travel commands are triggered by touch sensors or binary inputs of the KNX system.

By means of controls and indicators, the blind/shutter actuators can also be operated comfortably by hand without bus voltage, if they are correspondingly parameterized. This includes also a central stop function by hand for the motors. See the chapters on manual operation.

Important

- If motors are to be connected in parallel, it is indispensable to observe the instructions issued by the motor manufacturers. The motors may otherwise be irreparably damaged.
- Use only blinds or shutters equipped with limit switches (mechanical or electronic). The limit switches of the motors connected must be checked for correct adjustment.
- Activation of the manual operating mode terminates all time delays and interrupts the safety travel in the event of storms. The safety travel function will be completed after quitting the manual operating mode.
- During hand operation, only continuous travel (long press of the button) and stop (brief press of the button) are available.

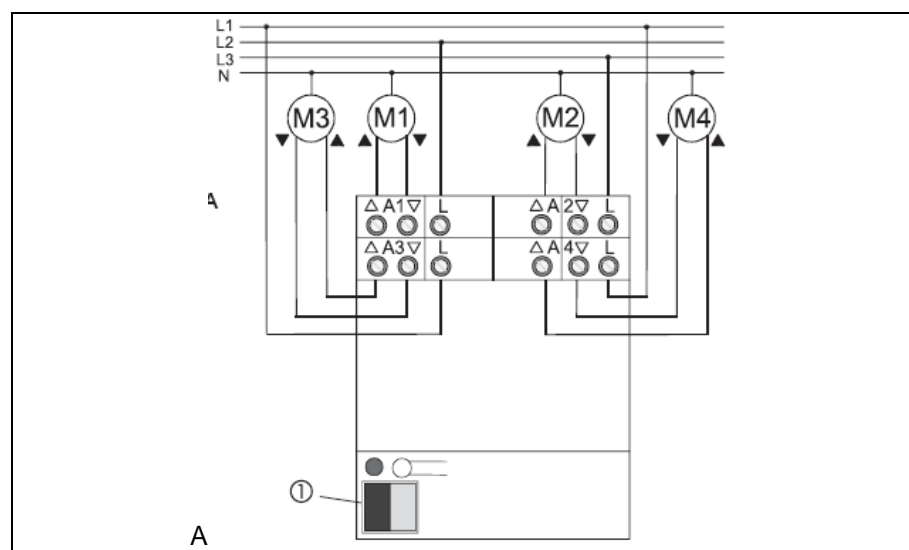
Features

- 4 independent channels for one blind/shutter motor each
- 2 x 2 channel operation possible
- Change-over time for change of travel direction adjustable; observe the instructions of the motor manufacturer!
- Prolonged travel duration for „blind/shutter UP“ adjustable
- Safety travel during storms independently adjustable for each output
- Response on failure and return of bus voltage adjustable

More features are described in the relevant EIB product documentation.

4. Connection

Blind/shutter actuator, 4-channel, art. no. 2204 REG:

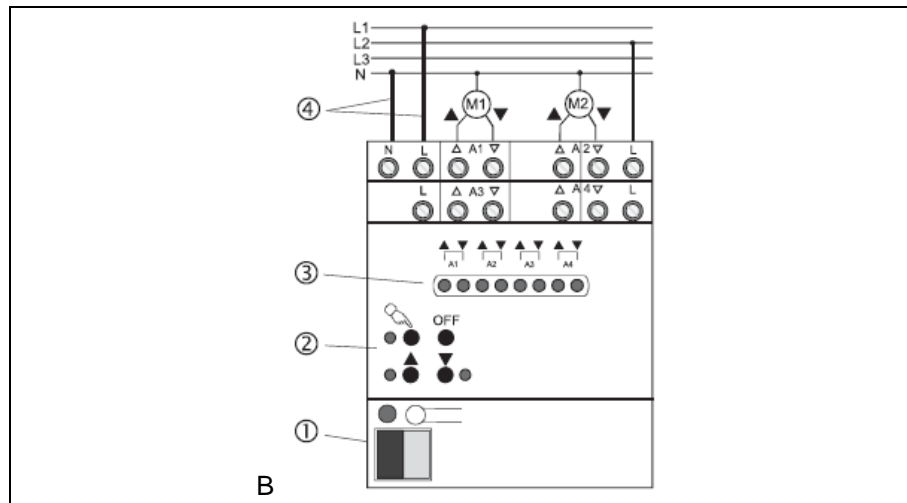


The bus line is connected at the bus connecting terminal (1).

Wiring of the actuator is shown in the diagram.
 The L-terminals of outputs A1 thru A4 can be connected to different phase conductors.

**Blind/shutter actuator, 4-channel, manual operation, 230V,
 art. no. 2204 REG H**

**Shutter actuator, 4-channel, manual operation, 230V,
 art. no. 2204 REG HR**



(Fig. B): The bus line is connected at the bus connecting terminal (1).

Der Anschluss der Versorgungsspannung erfolgt an den Klemmen N und L (4). Output A1 and motor M1 are then connected automatically to the power supply.

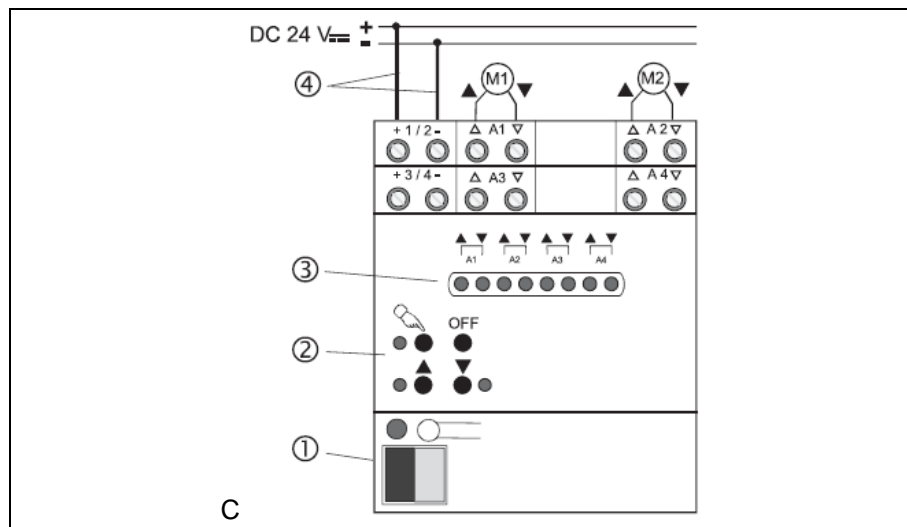
For outputs A2 thru A4, a phase conductor must be connected additionally to the respective L-terminals. The diagram shows the connection of motor 2 to output A2. Connection of motors to outputs A3 and A4 is performed in the same way.

Legend:

(2) hand controls and status indicators

(3) LED to indicate the switching state and the output selected in manual operation.

**Blind/shutter actuator, 4-channel, manual operation, 24V DC,
 art. no. 2224 REG H**



(Fig. C): The bus line is connected at the bus connecting terminal (1). The 24 V DC supply is connected to terminals + 1 / 2– (4). Outputs A1 and A2 and motors M1 and M2 are at the same supplied with power. When outputs A3 and A4 are to be used, a 24 V DC supply must additionally be connected to terminals + 3 / 4 –.

Important: Do not connect AC supplies to these terminals! The polarity of the supplies connected to terminals + 1 / 2 – and + 3 / 4 – must be the same. There is otherwise a risk of irreparable damage to the motors. Connection of motors to outputs A3 and A4 is performed in the same way.

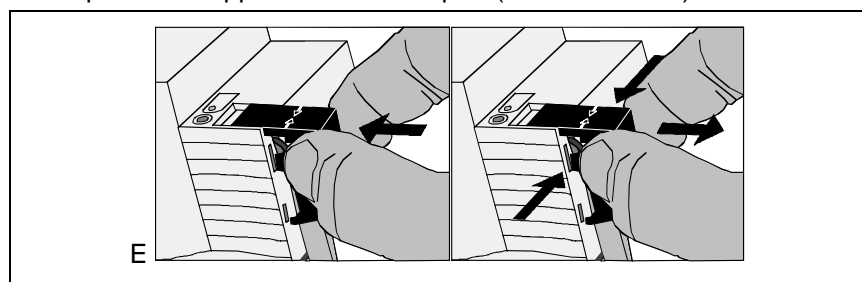
Legend:

- (2) hand controls and status indicators
- (3) LED to indicate the switching state and the output selected in manual operation.

5. Cap

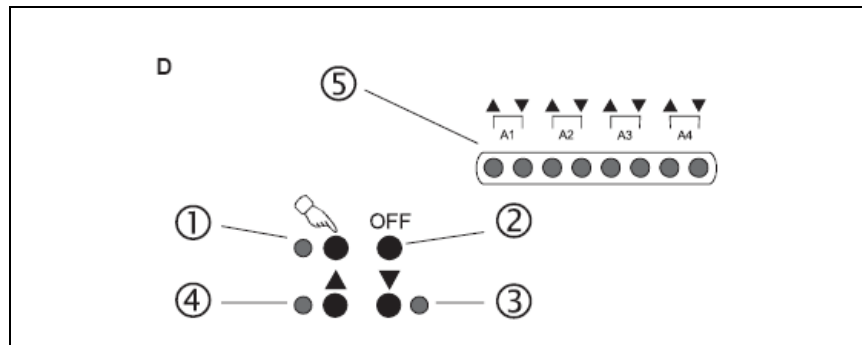
Slide the cap with the bus wires at the bottom over the bus terminal (fig. E) until it is heard to engage. To remove the cap, push sideways and withdraw (fig. F).

The cap can be supplied as an extra part (Art. no. 2050 K).



5.1. Manual operation

Bedien- und Anzeigeelemente



The actuators with manual operation can be operated in 3 modes:

1. bus mode (normal operation)
2. continuous manual operation (bus mode deactivated)
3. temporary manual operation (device switches back to bus mode after 5 seconds if no button is pressed)

Operation: A long press (> 5s) on the button (1) activates or deactivates the continuous manual mode, whereas a short press (< 1s) does the same for temporary manual operation (Fig. D). On activation of a manual mode, all channels are switched off. During continuous manual operation, LED (1) lights up. In the manual mode, the switching channel can be selected with the button(1).

The pertaining two LEDs (5) start flashing. The remaining LEDs (5) indicate the switching state of the non-selected outputs. Buttons (3) and (4) are the executing control buttons. A long press (> 1s) on the button (4) causes the blind of the selected channel to travel upwards. The button (3) controls the down movement. A short press on the (3) or button (4) stops the blind. After having switched once through all channels in manual operation, the device returns to the bus mode. In the continuous manual mode, the OFF button (2) switches off all relays.

6. Technische Daten

KNX	
Supply voltage	: 21 - 32 V DC
Power consumption	: typ. 150 mW
AC 230 V supply typically	: AC 110V~ (-10%) bis 240V~ (+10%) : 50/60 Hz
DC 24 V supply typically	: DC 24 V ± 10 %
connection KNX	: connecting terminal
Mains connection	: screw terminals : 0.5 – 4 mm ² single and stranded wire : without ferrule or : 0.5 – 2.5 mm ² stranded with ferrule :
Ambient temperature	: -5 °C +45 °C
Storage temperature	: -25 °C ... 70 °C

Installation width : 72 mm (4 pitch)
Switching capacity of outputs
AC 230 V typically : 6 A
DC 24 V typically : 6 A

Technical specifications subject to change

7. Guarantee

Our products are under guarantee within the scope of the statutory provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

ALBRECHT JUNG GMBH & CO. KG

Service-Center

Kupferstr. 17-19

D-44532 Lünen

Service-Line: 0 23 55 . 80 65 51

Telefax: 0 23 55 . 80 61 89

E-Mail: mail.vki@jung.de

General equipment

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E-Mail: mail.vkm@jung.de

KNX equipment

Service-Line: 0 23 55 . 80 65 56

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E-Mail: mail.vkm@jung.de

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