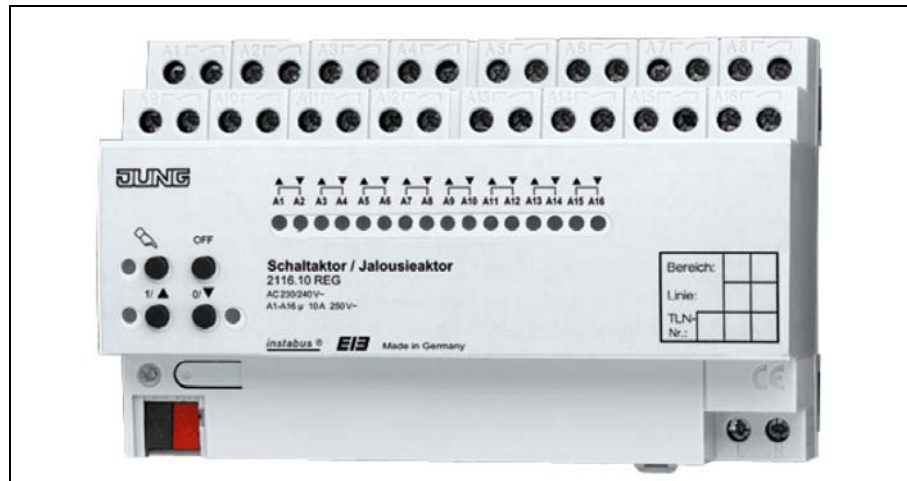


Operating Instructions Switching actuator / shutter actuator



1. System information

This unit is a product of the instabus-EIB-System and corresponds to the EIBA Guidelines. Detailed technical knowledge acquired in instabus training courses is a prerequisite for the understanding of the system. The functions of the device are software-dependent. Detailed information on the software and the functions implemented and the software itself are available from the manufacturer's product data bank.

Planning, installation and commissioning of the device are effected with the help of EIBA-certified software.

For the productdatabase and technical descriptions please refer to the internet at www.jung.de offering up-to-date information.

2. Safety warnings

Attention: Electrical equipment must be installed and fitted only by qualified electricians and in observance of the applicable accident prevention regulations.

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

Any non-observance of the fitting instructions may cause fire or other hazards.

Shutter actuator applications: Connect only shutter motors to the device.

Appropriate safety measures must be taken to exclude any hazards deriving from motor-operated components.

3. Function

Depending on parameterization, the actuator can either be used as switching actuator (max. 16 channels) or as shutter actuator (max. 8 channels). Functions can also be mixed, e.g. outputs A1 – A6 as switching actuator with 6 channels, outputs A7 – A16 as shutter actuator with 5 channels.

In the shutter actuator mode, two outputs must be combined for each motor.

The device needs an additional power supply.

By means of the control and display elements, the actuator – if parameterized accordingly - can also be readily operated by hand without bus voltage. This includes also the possibility of central shutoff by hand. Cf. also the chapter on manual operation.

4. Important

Switching operation:

- The relay outputs of an actuator switch with a slight time delay when controlled by a central telegram.
- Do not connect tri-phase AC motors.
- The connection of 230 V and SELV voltages to different outputs of an actuator is not permitted.

Shutter operation:

- For shutter operation, 2 neighbouring relay outputs are used as one shutter output. The left (1, 3, 5, ...) relay outputs are reserved for the UP movements and the right ones (2, 4, 6, ...) for the the DOWN movements.
- If motors are to be connected in parallel, it is absolutely necessary to observe the instructions of the motor manufacturers. The motors can otherwise be irreparably damaged.
- Use only shutters with limit switches (mechanical or electronic). The limit switches of the motors connected must be checked for proper adjustment.
- Activation of the manual operation mode terminates all time delays and the safety shutdown function in stormy weather. The safety shutdown during storms is reactivated when the manual operation mode is ended.
- The manual mode permits only continuous movements (long press) and stop (short press).

5. Characteristics

Shutter operation:

- Switch-over time during change of movement direction adjustable (observe the instructions of the motor manufacturer)
- movement directions lockable by software control
- Sun protection function
- Safety shutdown during storms separately adjustable for each shutter output
- Response on bus voltage failure and return adjustable

For further characteristics, please read the corresponding EIB product documentation.

6. Connection

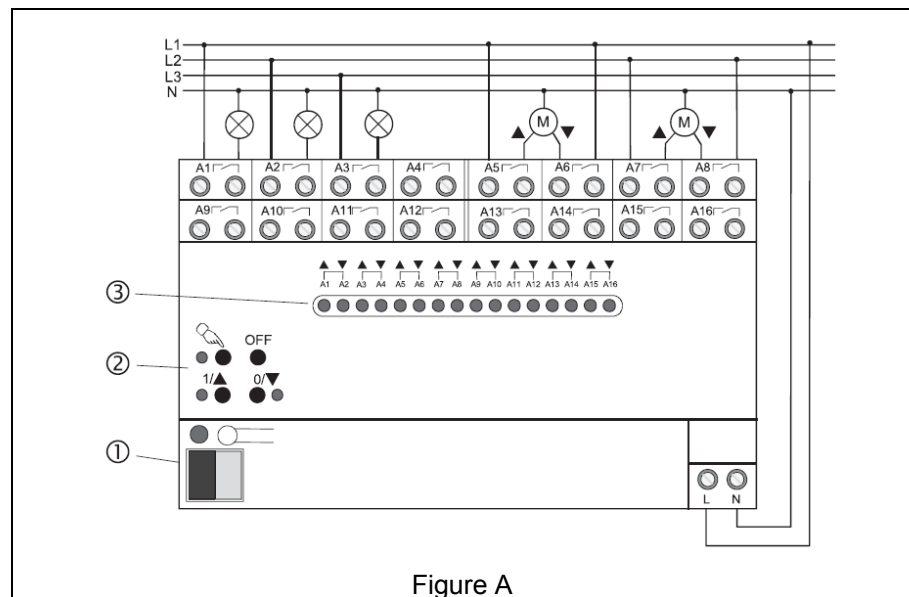


Figure A

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

The supply voltage and the loads are connected as per fig. A. The illustration shows the connection of 3 lamps to outputs A 1 – A3 and of 2 motors to outputs A5/A6 and A7/A8 as an example. Further loads are connected in the same way.

Please observe that the connected loads must be compatible with the parameterization of the outputs.

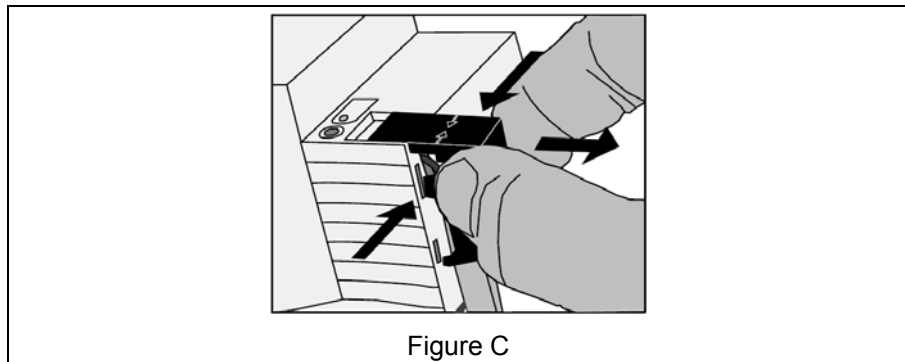
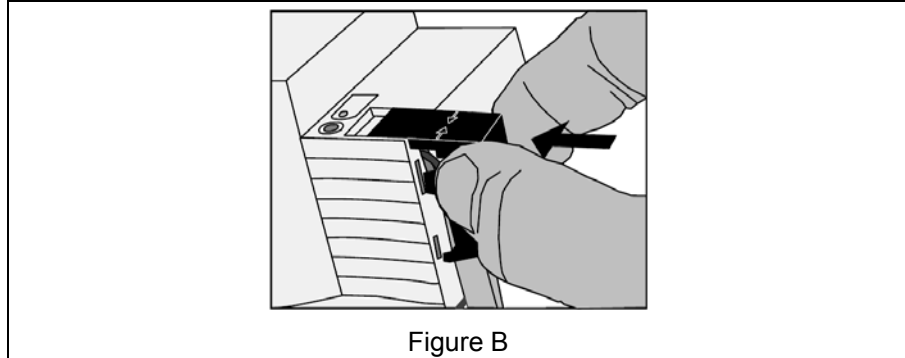
The device can be connected to different phase conductors.

Further elements:

(2): manual controls and status indicators

(3): LED A1 – A16 indicate the switching state and the output selected during manual operation.

7. Cap

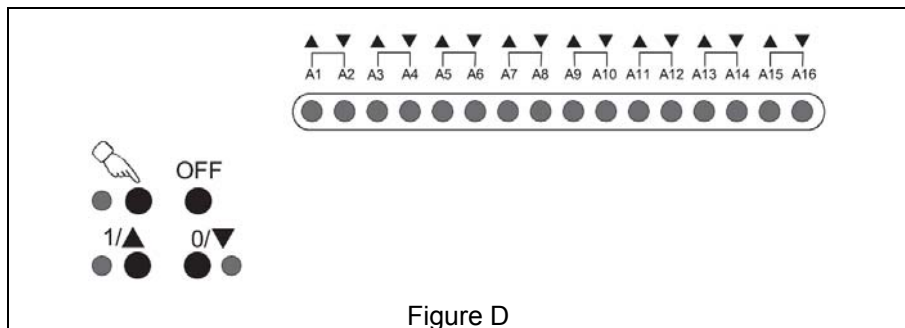


Slide the cap over the bus terminal with the bus line at the bottom (fig. B) until it is heard to engage.


Remove the cap by pressing against the sides and by pulling it out at the same time (fig. C).


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

8. Manual operation




Controls and indicators see fig. D

Permanent change to manual operation: depress the  for about 5 seconds until the respective LED lights up. The actuator is now permanently in the manual operation mode. Control via the EIB is disabled.

A short press on the key  selects the outputs to be switched. If only one LED flashes, the output is parametrized for switching.


2 flashing LEDs indicate the shutter function.

Keys **1/▲** and **0/▼** can be used for switching the output indicated by a flashing LED A1 – A16, the switching state itself being indicated by the LED beside the keys. The switching state of the non selected outputs is indicated, as for bus operation, by LEDs A1 –A16.

To quit the manual mode: depress the key  for about 5 seconds until the respective LED goes out.


Temporary change to manual operation:

Depress the key  briefly until LED **A1** or LED **A1** and **A2** are flashing. The switching state is indicated by LED **1/▲** and **0/▼**.

LED  remains off.

The actuator is now in the manual mode and the control via the EIB is disabled. If no key is depressed for more than 5 seconds, the actuator quits the manual mode and goes automatically back to bus operation.

Keys **1/▲** and **0/▼** can be used for switching the output indicated by LEDs A1 – A16. The switching state itself is indicated by the LED beside the keys.

A short press of the key  selects the other outputs which are to be switched or whose status is to be indicated.

When all outputs A1 – A16 have been selected once, the actuator automatically quits the manual mode.

Central shut-off function:

In the permanent manual operation, the actuator has a central shut-off function.

To activate the central shut-off function, depress the **OFF** key briefly. All relays (switching and shutter functions) are deactivated.

Important: Central shutoff is not available for temporary manual operation.

9. Technische Daten

instabus EIB supply :	21 - 32 V DC
instabus EIB power consumption :	max. 150 mW
Mains supply :	AC 110V (-10%)...240V (+10%) 50/60 Hz
Total power loss :	max. 5,5 W
instabus EIB connection :	instabus terminal
Mains connection :	screw-type terminals 0.5 – 4 mm ² single-wire and stranded wire without ferrule or 0.5 – 2.5 mm ² stranded wire with ferrule
Ambient temperature :	-5 °C ... +45 °C
Storage temperature :	-25 °C +70 °C
Installation width :	144 mm (8 pitch units)

Outputs

Type of contact :	potential-free n.o. contact (μ contact)
Switched voltage :	AC 250 V
Switched current AC 250 V :	10 A

Switching capacity	Outputs 1 - 8	Outputs 9 – 16
ohmic load:	3600 W	3600 W
incandescent lamps	1400 W	2300 W
HV halogen lamps:	1225 W	2300 W
LV halogen lamps:		
conv. transformers	1200 VA	1200 VA
Tronic transformers	1200 W	1200 W
fluorescent lamps		
compensated	not approved	920 VA, 80 µF
motors (no 3-phase AC motors)	600 W	600 W

Technical specifications subject to change

10. 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:

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D-44532 Lünen

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KNX/EIB equipment

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