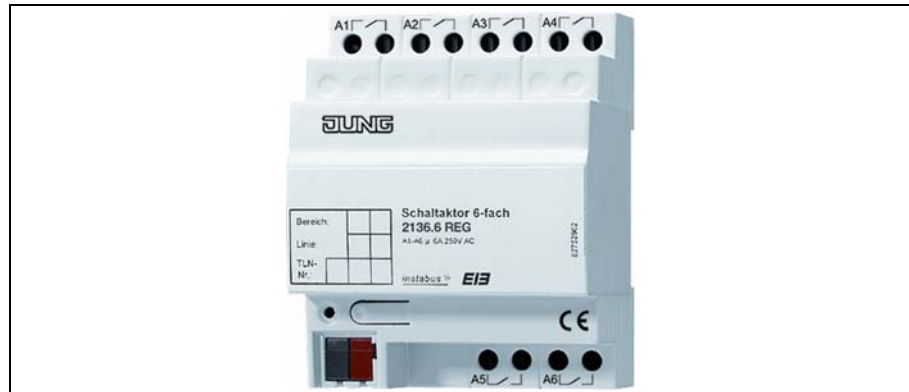


Operating Instructions

Switch actuator 4-, 6-, 8gang

Switch actuator 4-, 8gang C-Last



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 product database 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.

On delivery, the switching status of the outputs is undefined.

3. Function

The 4-channel, 4-channel C-load, 6-channel, 8-channel and 8-channel C-load switching actuators with potential-free contacts can be used for switching electrical consumers via the instabus EIB. The switching commands come from touch sensors or from binary inputs of the instabus EIB system.

The 4 channel, 4 channel C-load, 8-channel C-load and 8-channel

switching actuators (outputs A1 - A4) are equipped with switching status indicators which are used at the same time for manual operation of the relays independent of the instabus EIB.

The switching contacts of C-load switching actuators are designed especially for capacitive loads and the corresponding high inrush currents (see technical specifications).

The devices do not require an additional power supply.

Instructions:

- ① The outputs A1 - A4 and A5 - A8 of the 8-channel actuator have different maximum switching capacities.
- ① In the event of control from a central telegram, the relay outputs of an actuator switch with a slight delay.
- ① Do not connect three-phase motor to the actuators.
- ① Manual operation of the relays is independent of bus conditions and not affecting the switching objects. For this reason, a software-disabled output can nevertheless be switched by hand..
- ① The use of 230 V and SELV at different outputs of an actuator is not permitted.

4. Connection

4-channel switching actuator (fig. A), 4-channel C-load switching actuator (fig. B).

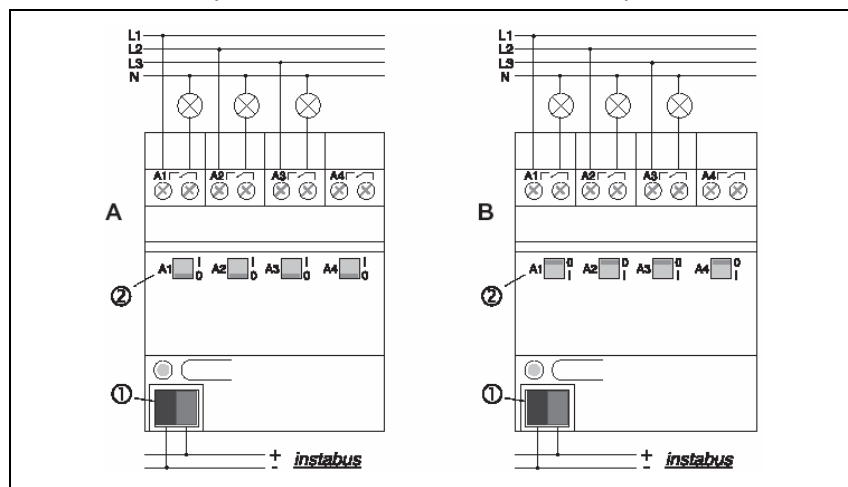
Connection to the bus is by means of the bus connector (1).

The switching statuses of the relays are indicated by the switch position indicators (2). They are used at the same time for manual operation of the relays independent of the KNX

- ① **Important:** Observe that switch status indicators ☐ in the C-load actuator (shown on the right) are inverted for constructional reasons.

The actuators are connected as shown in the schematic.

The actuator outputs can be connected to different phase conductors.



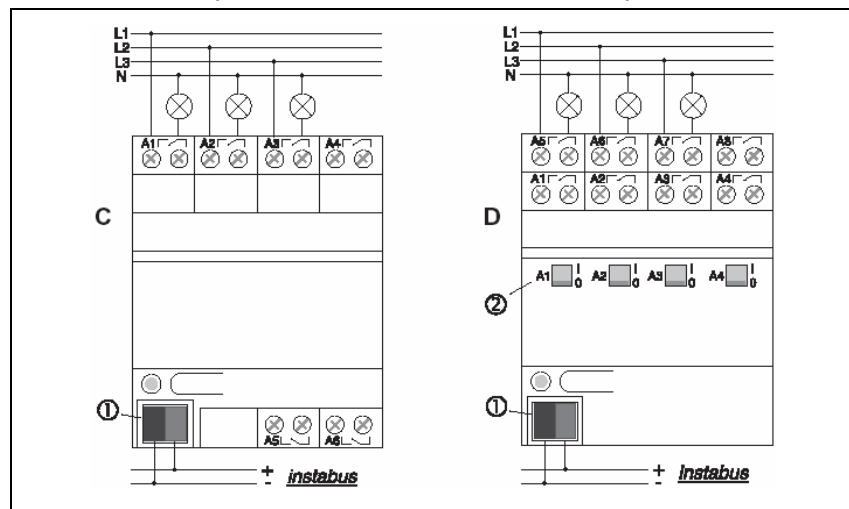
6-channel actuator (fig. C), 8-channel actuator (fig. D).

Bus connection is by means of the bus connector (1).

In the 8-channel actuator, the switching statuses of the relays of outputs A1 - A4 are indicated by the switch position indicators (2). They are used at the same time for manual operation of the relay outputs A1 – A4 of the 8-channel actuator independent of the KNX.

The actuators are connected as shown in the schematic..

The actuator outputs can be connected to different phase conductors.



8-channel C-load switching actuator (fig. E).

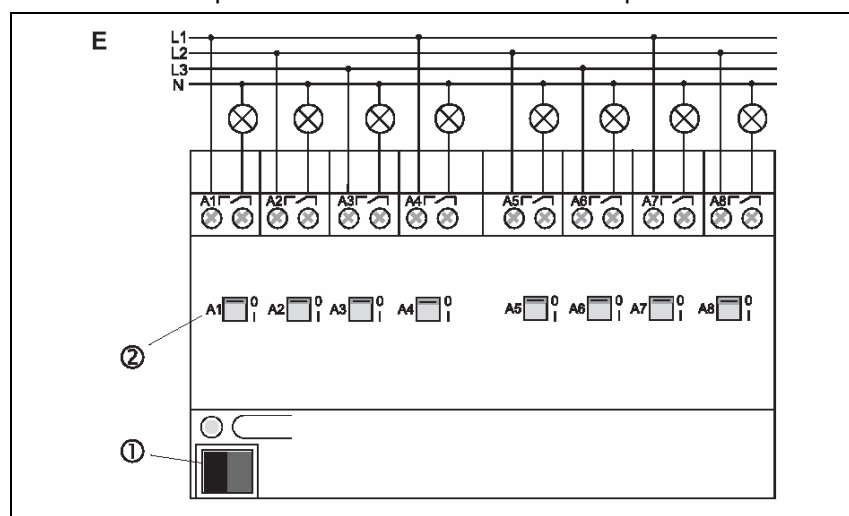
Bus connection is by means of the bus connector (1).

In the 8-channel actuator, the switching statuses of the relays are indicated by the switch position indicators (2). These are used at the same time for manual operation of the relays independent of the KNX.

① **Important:** Observe that the switching status indicators (2) in the C-load actuator are inverted for constructional reasons

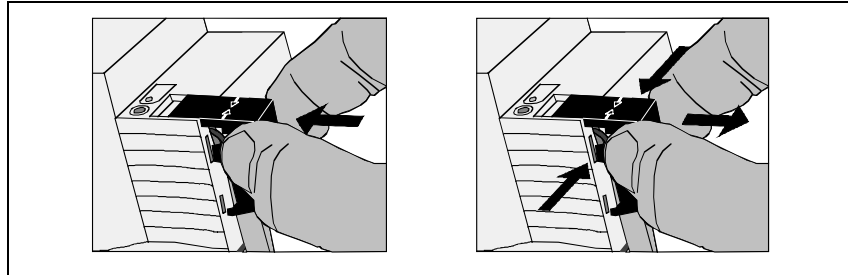
The actuators are connected as shown in the schematic.

The actuator outputs can be connected to different phase conductors.



5. Cover cap

Slide the cap over the bus terminal with the bus line at the bottom (fig. F) until it is heard to engage. Remove the cap by pressing against the sides and by pulling it out at the same time (fig. E).



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

6. Technical characteristics

General:

instabus EIB supply voltage	: 21 – 32 V DC
instabus EIB power rating	: typically 150 mW
instabus EIB Connection	instabus connector
Mains connection :	screw terminals 1.5 – 4 mm ² solid wire or 2 x 0.1.5 – 2.5 mm ² solid wire 0.75 – 4 mm ² stranded without wire end ferrule or 0.5 – 2.5 mm ² stranded with wire end ferrule
Output contact type	: potential-free n.o. contacts (μ-Contact)
Ambient temperature	: -5 °C ... +45 °C
Storage temperature	: -25 °C ... + 70 °C
Mounting width	
only 8-channel C-load	
switching actuator	: 144 mm (4 modules)
all other actuator	: 72 mm (4modules)

Switching actuator outputs, 4-channel and 8-channel (outputs A1 – A4)

Switched voltage	: 230 V AC, 400 V AC
Switched current at 230 V AC	: 16 A / AC1; 10 A / AC3
Switched current at 400 V AC	: 10 A / AC1; 6 A / AC3
Switching capacity	
incandescent lamps	: 2500 W
fluorescent lamps	
non-compensated	: 2500 W
parallel compensationt	: 1300 W / 140 μF
lead-lag circuit	: 2 x 2500 W
HV halogen lamps	: 2500 W
LV halogen lamps	: 500 VA
Tronic transformers	: 1300 VA

**Switching actuator outputs, 6-channel and 8-channel)
(outputs A5 – A8)**

Switched voltage	: 230 V AC
Switched current at 230 V AC	: 6 A / AC1
Switching capacity	
incandescent lamps	: 1000 W
fluorescent lamps	
non-compensated, $\cos \varphi = 0.5$: 500 W
parallel compensation, $\cos \varphi = 1$: 2 x 58 W / 14 μ F
	: 3 x 36 W / 14 μ F
	: 6 x 18 W / 14 μ F
lead-lag circuit, $\cos \varphi = 1$: 1000 W
Siemens electronic ballast	
58 W fluorescent lamp	: 10 Stk.
36 W fluorescent lamp	: 15 Stk.
18 W fluorescent lamp	: 15 Stk.

**4-channel C-load and 8-channel C-load switching
actuator outputs**

Switched voltage	: 230 V AC, 400 V AC
Switched current at 230 V AC	: 16 A / AC1; 10 A / AC3
Switched current at 400 V AC	: 10 A / AC1; 6 A / AC3
Switching capacity	
incandescent, HV halogen lamps	: 3680 W
LV halogen lamps	: 2000 VA
Tronic transformers	: 2500 W
fluorescent lamps	
non-compensated, $\cos \varphi = 0.5$: 3680 W
parallel compensation, $\cos \varphi = 1$: 2500 W / 200 μ F
lead-lag circuit, $\cos \varphi = 1$: 2 x 3680 W
Mercury / sodium vapour lamp	
non-compensated; parallel compensation.	: 3680 W / 200 μ F

Technical specifications subject to change

7. Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal 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

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