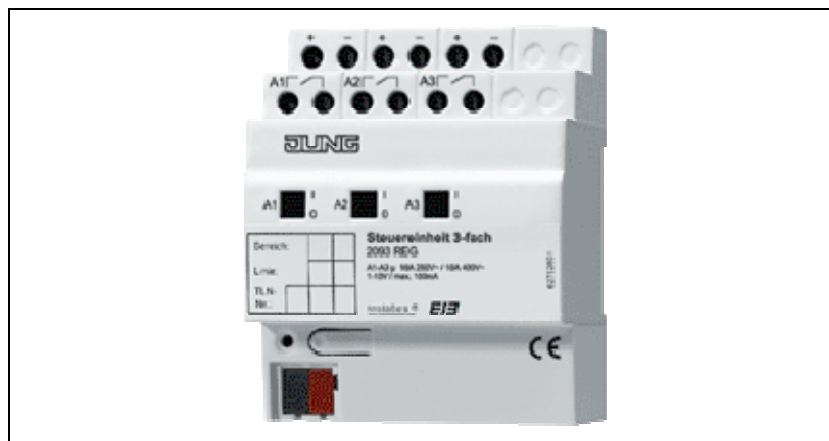


## Operating Instructions Triple control unit 1-10 V



### 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](http://www.jung.de) offering up-to-date information.

### 2. Function

The control unit receives telegrams transmitted via the instabus EIB and switches or dims fluorescent lamps in combination with electronic ballasts. During dimming, the electronic ballast is controlled from a 1-10 V interface. Switching is effected by a relay contact that switches the ballast's voltage supply on and off. This contact can also be actuated manually without any effect on the bus.

### 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.**

### 3. Characteristics

- Connection of different phases to terminals A1 – A3.
- Switching and dimming behaviour presettable with parameters.
- Checkback for switching status.
- Transmission of brightness value
- Soft-On, Soft-Off and delayed dimming presettable with parameters.
- Light-fading mode and immediate brightness change.
- Lightscape operation possible.
- Behaviour on bus voltage return presettable.

### Important information

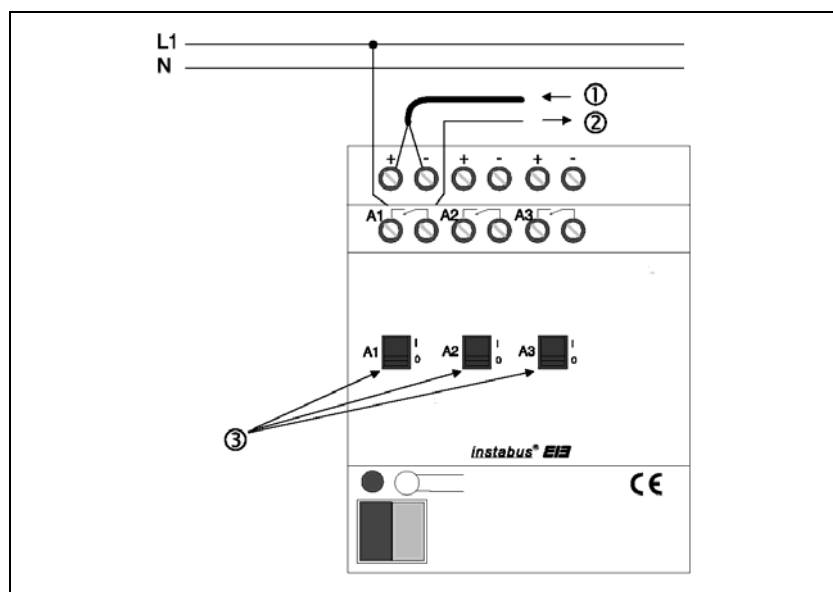
- The number of electronic ballasts that can be dimmed via the 1-10 V interface, depends on the ballast-specific load current of the types used.
- Attention: On activation, electronic ballasts produce very high current peaks which may cause sticking of the relay contacts. Observe the maximum number of electronic ballasts that can be connected (see technical handbook or Internet site [www.jung.de](http://www.jung.de)).
- If a greater number of electronic ballasts or other loads with high inrush currents are to be connected, a separate load contactor is recommended.

### 4. Connection

The unit is connected as shown on the opposite page.

Legend:

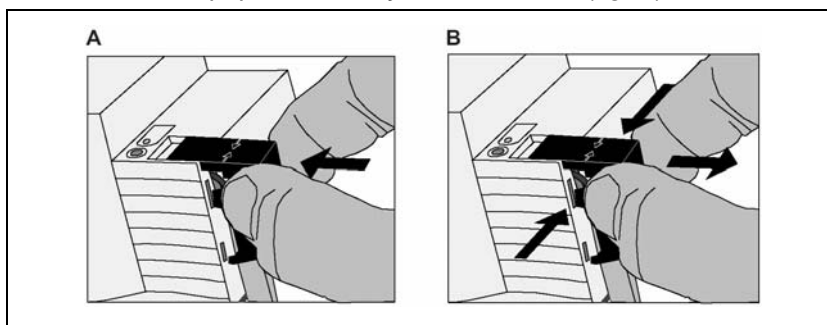
- (1) 1 - 10 V control voltage (from electronic ballast)
- (2) Power supply for connected ballasts
- (3) Manual operation and switching state indicator without checkback signal to instabus EIB.



## 5. Cap

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

To remove the cap, push sideways and withdraw (fig. B).



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

Technical specifications subject to change.

## 6. Technical Data

|                               |  |
|-------------------------------|--|
| instabus EIB supply voltage:  | 21 – 32 V DC   |
| instabus EIB power rating:    | max. 240 mW  |
| Connection                    |  |
| instabus EIB :                | instabus terminal  |
| main, 1 - 10 V interface      | :screw-type terminal<br>0.5 – 4 mm <sup>2</sup> single and<br>stranded wire without ferrule<br>or 0.5 – 2.5 mm <sup>2</sup> stranded with<br>ferrule |
| Switching capacity AC 230 V ~ |  |
| resistive loads:              | 2500 W   |
| capacitive loads:             | 10 A / 85 µF   |
| Inrush current :              | 200 A / 600 µs   |
| 1 - 10 V Interface            |  |
| length of input line:         | max. 500 m at 0.5 mm <sup>2</sup>  |
| signal current per channel:   | max. 100 mA  |
| signal duration :             | 100 % continuous   |
| Ambient temperature :         | -5 °C ... +45 °C   |
| Max. housing temperature:     | T <sub>C</sub> = 75 °C   |
| Storage temperature :         | -25 °C ... +70 °C  |
| Installation with :           | 72 mm (4 modules)  |

## 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**

Service-Line: 0 23 55 . 80 65 55

Telefax: 0 23 55 . 80 62 55



E-Mail: mail.vkm@jung.de

#### **instabus KNX equipment**

Service-Line: 0 23 55 . 80 65 56

Telefax: 0 23 55 . 80 62 55

E-Mail: mail.vkm@jung.de

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