

Push-button controller, built-in  
Art.-No.: 240-10 EB

## Operationsmanual

### 1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

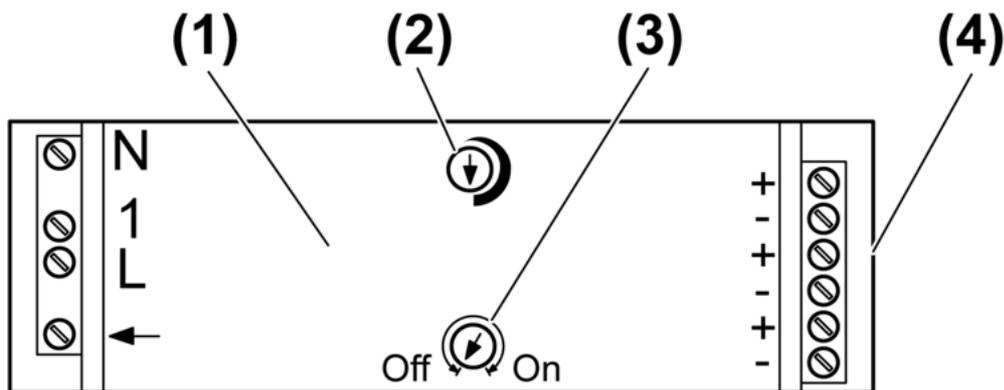
Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Danger of electric shock. Device is not suitable for disconnection from supply voltage.

Danger of electric shock. Always disconnect before carrying out work on the device or load. At the same time, take into account all circuit breakers that supply dangerous voltage to the device or load.

These instructions are an integral part of the product, and must remain with the end customer.

### 2 Device components



picture 1: Device components

- (1) Control unit
- (2) **Basic brightness** adjuster
- (3) **Memory** adjuster
- (4) 1-10 V interface

### 3 Function

#### Intended use

- Brightness setting for lamp operating devices with 1-10 V interface
- Installation in false ceilings or surface mounting

#### Product characteristics

- The light bulb is switched on and off via the load cable and dimmed via the 1-10 V interface.
- Operation via installation button, NO contact
- Can be switched to memory function with brightness memory
- The 1-10 V interface is short-circuit proof for the control current.

## 4 Operation

### Switch light

- Press push-button briefly.

Memory function switched off: light is switched on with maximum brightness or light is switched off.

Memory function switched on: light is switched on with the last brightness set or light is switched off.

### Switch light on at minimum brightness

Memory function switched off.

- Long press on push-button until the light switches on.

### Adjust the brightness

Light is switched on.

- Long press on push-button.

Memory function switched off: the light becomes brighter up to maximum brightness, remains there briefly and becomes dimmer down to minimum brightness, remains there briefly and becomes brighter again. This process repeats for as long as the push-button remains pressed.

-  The dimming direction is retained when there is another long press on the push-button.  
Memory function switched on: the light becomes brighter or dimmer as far as the first limit value, remains there briefly, and then changes the dimming direction. This process repeats for as long as the push-button remains pressed.
-  The dimming direction is reversed when there is another long press on the push-button.
-  A mains failure of longer than 2 seconds deletes the stored brightness value.

## 5 Information for electrically skilled persons

### 5.1 Fitting and electrical connection



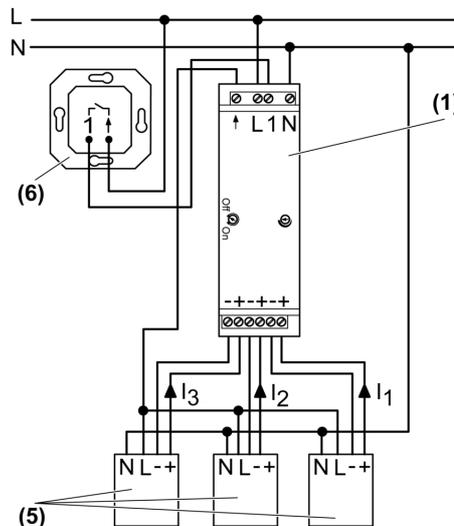
#### **DANGER!**

**Electrical shock when live parts are touched.**

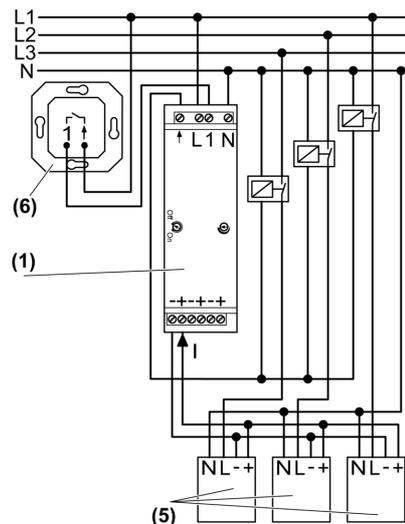
**Electrical shocks can be fatal.**

**Before carrying out work on the device or load, disengage all the corresponding circuit breakers. Cover up live parts in the working environment.**

Connecting and mounting the control unit.



picture 2: Connection diagram, single-phase



picture 3: Connection diagram, three-phase

(1) Control unit

(5) Lamp operating device with 1-10 V interface, electronic ballast

(6) Installation button, NO contact

**i** The load output is not protected internally. For device protection, connect a 10 A miniature circuit breaker upstream.

**i** Control cable: appropriate type, cross-section and routing for the VDE specifications for 250 V cables, control voltage has basic insulation. The control cable and load cable can be run in a shared cable, e.g. NYM J 5 x 1.5. Connect lamp operating device and electronic ballast with earth conductor in accordance with the manufacturer's instructions.

**i** The maximum number of lamp operating devices that can be controlled by the control unit is the sum of the control currents  $I_1 + I_2 + I_3$  (picture 2) and  $I$  (picture 3)(see chapter 6.1. Technical data). For the control current of the lamp operating devices, see the information provided by the manufacturer.

- i** Only use lamp operating devices and fluorescent lamps that are of the same type, the same power level, and from the same manufacturer. Otherwise there may be differences in brightness between the individual lamps.
- i** Illuminated installation buttons may only be connected if they have a separate N terminal.



**CAUTION!**

**Device defect when the 1-10 V interface is connected connected to the mains voltage.**

**The device will be destroyed.**

- Connect control unit in accordance with connection diagram, single-phase (picture 2) or according to connection diagram, three-phase (picture 3).
- If multiple miniature circuit breakers supply dangerous voltages to the device or load, couple the miniature circuit breakers or label them with a warning, to ensure release is guaranteed.

## 5.2 Commissioning

### Adjusting basic brightness

- Switch on mains voltage.
- Switch on the lighting and set minimum brightness using push-button.
- Adjust the **basic brightness** (picture 1) until a basic brightness that is still clearly visible is present.

### Switching on memory function

When the memory function is switched on, the light is switched on with the last brightness set.

- Turn **Memory** adjuster to **On**.

### Switching off memory function

When the memory function is switched off, the light is always switched on with maximum brightness.

- Turn **Memory** adjuster to **Off**

## 6 Appendix

### 6.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 Hz
Ambient temperature	max. 50 °C
Protection rating	IP 20
1...10 V interface	
Control voltage	1 ... 10 V
Control current	max. 200 mA
Insulation	2 kV basic insulation
Contact type	µ contact
Connected load at 25 °C	
Ohmic load	2300 W
Lamp operating devices	Type-dependent
Tronic transformer	Type-dependent
Connection	
Single stranded	max. 4 mm <sup>2</sup>
Finely stranded	max. 2.5 mm <sup>2</sup>
finely stranded with conductor sleeve	max. 1.5 mm <sup>2</sup>
Number of extension units	
Non-illuminated installation buttons	unlimited
Total length power cable	max. 100 m
Total length of control cable	max. 100 m

## Light Management

Push-button controller, built-in



Dimensions L×W×H

175×42×18 mm

## 6.2 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office:

### **ALBRECHT JUNG GMBH & CO. KG**

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Kupferstr. 17-19  
D-44532 Lünen  
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mail.vka@jung.de

### **General equipment**

Service-Line: +49 (0) 23 55 . 80 65 55  
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### **KNX equipment**

Service-Line: +49 (0) 23 55 . 80 65 56  
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