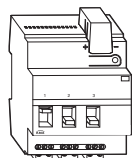


Control unit 0-10 V REG-K/3-gang with manual mode

Operating instructions



Art. no. MTN646991

For your safety



DANGER

Risk of fatal injury from electrical current.

All work on the device should only be carried out by trained and skilled electricians. Observe the country-specific regulations as well as the valid KNX guidelines.



CAUTION

Damage to the device.

- Only operate the device according to the specifications stated in the Technical data.
- All the devices that are mounted next to the control unit must at least be fitted with basic insulation.

Control unit introduction

The control unit 0-10 V REG-K/3-gang with manual mode dims and switches fluorescent lamps using electronic ballasts with a 0-10 V/1-10 V interface and LV halogen lamps using transformers with a 0-10 V/1-10 V interface.

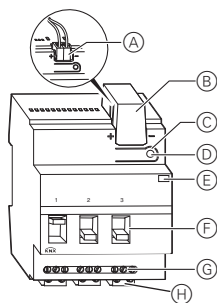


The control voltage range can be set with the ETS via a parameter.

You can also manually switch the connected loads with the manual switches on the control unit without bus voltage.

The control unit has a bus coupler. It is installed on a DIN rail acc. to EN 60715, with the bus connection made via a bus connecting terminal. A data rail is not required.

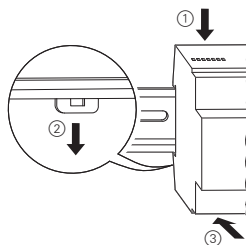
Connections, displays and operating elements



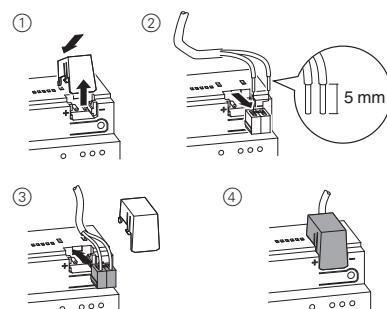
- (A) Bus connecting terminal
- (B) Cable cover
- (C) Programming button
- (D) Programming LED (red)
- (E) Operating LED "RUN" (green)
- (F) Manual switch
- (G) Channel terminals for load voltage
- (H) Outputs 1-10 V

Installing the control unit

- Set the control unit onto the DIN rail.



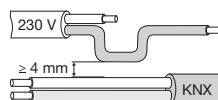
- Connect KNX.



WARNING

Risk of fatal injury from electrical current. The device could become damaged.

Safety clearance must be guaranteed in accordance with IEC 60664-1. There must be at least 4 mm between the individual cores of the 230 V supply cable and the KNX line.

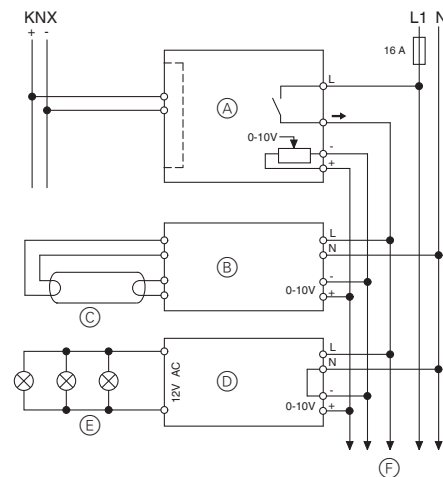


WARNING

Risk of fatal injury from electrical current. The device could become damaged.

Disconnect the mains voltage before connecting the device to the load.
Terminals may not be inserted under load.

- Connect the bus voltage.



- (A) Control unit
- (B) Electronic ballast with 0-10 V/1-10 V interface
- (C) Fluorescent lamp
- (D) Electronic transformer with 0-10 V/1-10 V control input
- (E) LV halogen lamps
- (F) To other devices with 0-10 V/1-10 V interface

- Connect the load.
- Connect the load voltage.

Putting the actuator into operation

- Press the programming button.
The programming LED lights up.
- Load the physical address and application into the device from the ETS.
The programming LED goes out.
The operating LED lights up: The application was loaded successfully, the device is ready for operation.

Technical data

Supply from KNX:	DC 24 V / approx. 17.5 mA
Insulation voltages:	AC 4 kV bus/mains voltage and bus/0-10 V AC 4 kV 0-10 V - mains voltage
Switch contact:	Make contact, floating

Connection data for each channel:

Nominal current:	16 A, inductive $\cos \varphi = 0.6$
Incandescent lamps:	AC 230 V, 3600 W
Halogen lamps:	AC 230 V, 2500 W
LV halogen lamps:	max. 2000 VA via electronic transformers
Fluorescent lamps:	AC 230 V, 5000 W, uncompensated AC 230 V, max. 2500 VA parallel-compensated
Capacitive load:	AC 230 V, 3600 W, 200 μF
Protection:	The switch contact must be protected by a 16 A series-connected circuit-breaker.
Service life:	> 50,000 switching cycles at nominal load
0-10V/1-10V Interface:	0-10 V for dimming electronic ballasts
Loading capacity:	max. 100 mA (max. 50 electronic ballasts, depending on EB)
Min. control voltage:	0 V

Ambient temperature

Operation:	-5 °C to +45 °C
Storage:	-25 °C to +55 °C
Transport:	-25 °C to +70 °C
Max. humidity:	93 %, no moisture condensation
Environment:	Can be used at up to 2000 m above sea level (MSL)
Operating elements:	1 programming button 1 manual switch per channel
Display elements:	1 red LED: programming check 1 green LED: ready for operation, "RUN"

Connections

Bus:	via two 1 mm pins for bus connecting terminal
Live conductor and switch output:	3-gang screw terminals for max. 2.5 mm ²
1-10 V output:	2-gang pluggable screw terminals for max. 2.5 mm ²
EC directives:	complies with Low-Voltage Directive 73/23/EEC, complies with EMC Directive 89/336/EEC
Device width:	4 modules = approx. 72 mm

Schneider Electric Industries SAS

If you have technical questions, please contact the Customer Care Center in your country.

www.schneider-electric.com

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.