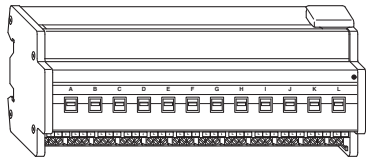


Switch actuator REG-K/12x230/16 with manual mode

Operating instructions



Art. no. MTN648493

For your safety



DANGER

Risk of fatal injury from electrical current.

The device may only be installed and connected by trained electricians. Observe the country-specific regulations as well as the valid KNX guidelines.



DANGER

Risk of fatal injury from electrical current.

Even if the manual switch is in the "OFF" position, a KNX telegram can switch the connections to being live at any time. Before working on the device, always disconnect the fuse in the incoming circuit from the supply.



CAUTION

The device could be damaged.

- Only operate the device according to the specifications stated in the Technical data.
- All devices that are installed next to the actuator must be equipped with at least basic insulation.

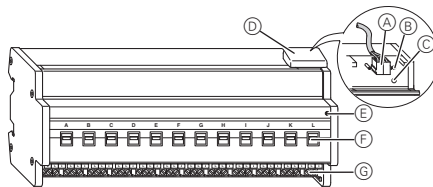
Getting to know the switch actuator

The switch actuator REG-K/12x230/16 with manual mode (referred to below as the **actuator**) can switch twelve loads via separate, floating make contacts.

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

The actuator has a bus coupler. It is installed on a DIN rail, with the bus connection made via a bus connecting terminal. It is supplied with power from the bus voltage. A data rail is not required.

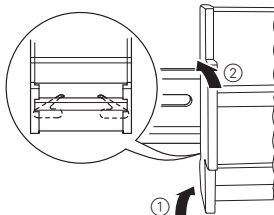
Connections, displays and operating elements



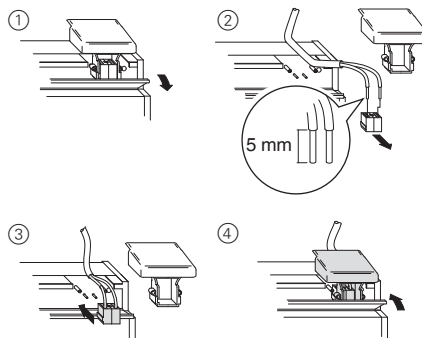
- (A) Bus connecting terminal, max. 4 core pairs
- (B) Programming LED (red LED)
- (C) Programming button
- (D) Cable cover
- (E) Operating LED (green LED)
- (F) Manual switch
- (G) Screw terminals

Mounting the actuator

- 1 Set the actuator onto the DIN rail.



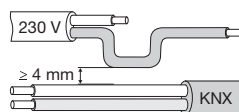
- 2 Connect KNX.



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.



DANGER

Risk of fatal injury from electrical current.

Voltage may be present at the outputs when the mains voltage is connected to the system. If subjected to strong vibrations during transportation, the switch contacts might change to the enabled state. To de-energise the outputs: Switch all relays of the channels on and off manually once with the manual switches.

- 3 Connect the bus voltage.
- 4 Switch the relays of the channels on and off manually once with the manual switches.



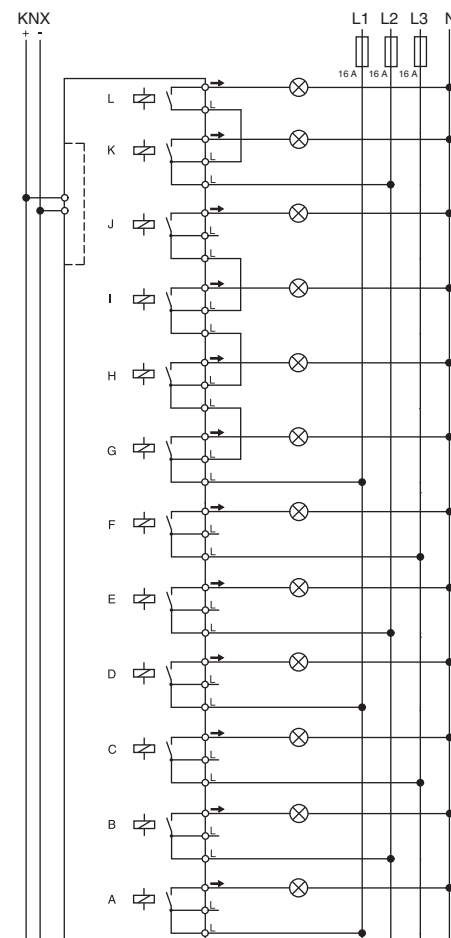
CAUTION

The actuator can be damaged.

Protect the switch contacts with a series-connected 16 A circuit breaker.

- 5 Connect the load.

The cables to the loads as well as the system voltages (L1, L2 or L3) are connected via screw terminals for max. 16 A. Every two L connections are bridged internally.



- 6 Connect the mains voltage.

Now you can check the functionality of the actuator and the connected loads without having to load the application from the ETS. (See the "Operating the actuator" section.)

Putting the actuator into operation

- 1 Press the programming button. The programming LED lights up.
- 2 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.

Operating the actuator

Normally, you control connected devices using push-buttons or by remote control. However, you can manually switch each of the actuator's channels on and off directly at the manual switches.

Technical data

External auxiliary voltage:	None
Power supply from bus:	DC 24 V/max. 10 mA
Insulation voltage:	AC 4 kV between bus and 230 V AC
Switch contacts:	12 x make contacts, floating
Nominal voltage:	AC 230 V, 50 to 60 Hz
Nominal current:	16 A, $\cos \phi = 0.6$
Connected load	
Incandescent lamps:	AC 230 V, max. 3600 W with 10,000 switching cycles
Halogen lamps:	AC 230 V, max. 2500 W with 10,000 switching cycles
Fluorescent lamps:	AC 230 V, max. 2500 VA, parallel-compensated, with 5,000 switching cycles
Capacitive load:	AC 230 V, 16 A max. 200 μF with 5,000 switching cycles
Minimum loads:	≥ 24 V DC, 100 mA
Switching frequency:	max. 10 per minute at nominal load
Ambient temperature	
Operation:	-5 °C to +45 °C
Storage:	-25 °C to +55 °C
Transport:	-25 °C to +70 °C
Environment:	The device is designed for use at a height of up to 2000 m above sea level (MSL).
Max. humidity:	93 %, no moisture condensation
Operating elements:	Programming button, twelve manual switches for manual operation
Display elements:	Red LED for programming check, green LED to indicate device availability
Connections	
Bus:	via two 1 mm pins for bus connecting terminal
Outer conductor:	eleven 3-gang screw terminals (A–K) and one 2-gang screw terminal (L) for each max. 2.5 mm ²
Installation width:	12 depth units = approx. 216 mm
EC guidelines:	Corresponds to Low-Voltage guideline 73/23/EEC and EMC guideline 89/336/EEC

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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.