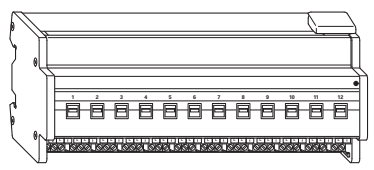


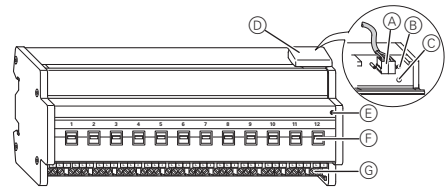
Connections, displays and operating elements

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

Operating instructions



Art. no. MTN648493



- (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

⚠ CAUTION

The device may be damaged!

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

Failure to follow these instruction can result in equipment damage.

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

(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.

For your safety

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables
- Connecting and establishing KNX networks
- Safety standards, local wiring rules and regulations

Failure to follow these instructions will result in death or serious injury.

⚠ ⚠ DANGER

RISK OF FATAL INJURY FROM ELECTRIC SHOCK

The output may carry electrical current even when the load is switched off.

- When working on the device: Always disconnect the device from the supply by means of the fuse in the incoming circuit.
- 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.

Failure to follow these instructions will result in death or serious injury.

⚠ CAUTION

The device may be damaged!

- Always operate the product in compliance with the specified technical data.
- Only install devices with at least basic insulation next to the device.

Failure to follow these instruction can result in equipment damage.

Getting to know the switch actuator

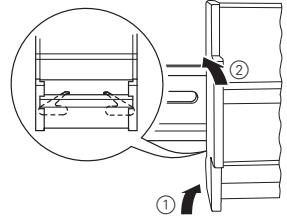
The switch actuator REG-K/12x230/16 with manual mode (referred to below as the **actuator**) can switch twelve loads via separate, floating make contacts.

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

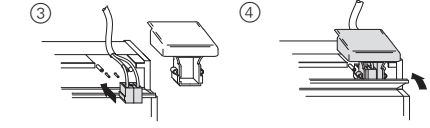
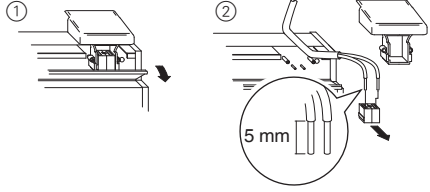
The actuator has a bus coupler. It is installed on a DIN rail, with the bus connection made via a bus connecting terminal. It is supplied with power from the bus voltage. A data rail is not required.

Mounting the actuator

- (1) Set the actuator onto the DIN rail.



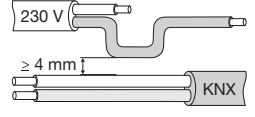
- (2) Connect KNX.



⚠ 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

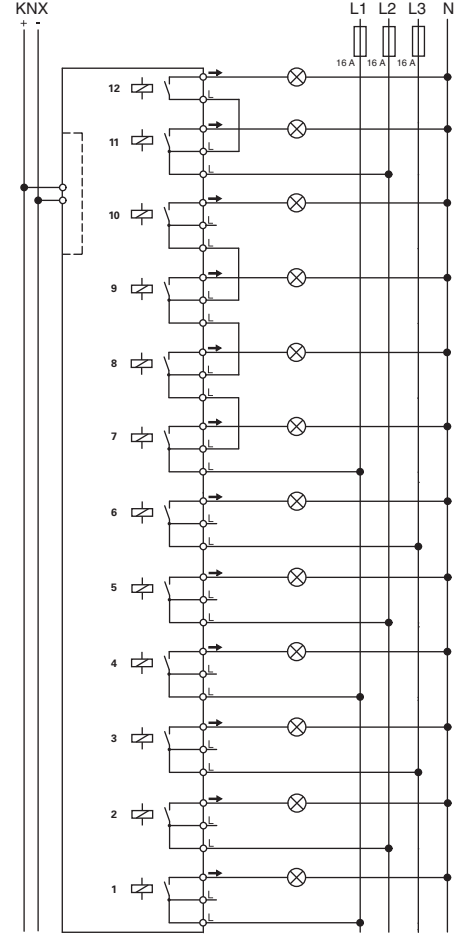
RISK OF FATAL INJURY FROM ELECTRIC SHOCK

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.

After connecting the bus voltage, set the relays of the channels to the position desired simply by switching „On/Off“ or by changing the manual switch to „OFF“.

Failure to follow these instructions will result in death or serious injury.



- (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, $\cos \varphi = 0.6$
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 (1–11) and one 2-gang screw terminal (12) 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

Schneider Electric -Contact

Schneider Electric Industries SAS
35 rue Joseph Monier
Rueil Malmaison 92500
France

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

se.com/contact

**UK
CA** UK Representative
Schneider Electric Limited
Stafford Park 5
Telford, TF3 3 BL, UK