

LUXOMAT® KNX SA-8C/16C-230 V

Installation and Operating Instruction for B.E.G. KNX SA-8C-230V and KNX SA-16C-230V

1. Important safety notes

Danger High Voltage

⚠ Installation and commissioning of the device only to be carried out by authorised electricians/engineers. The relevant directives, regulations and instructions must be observed.

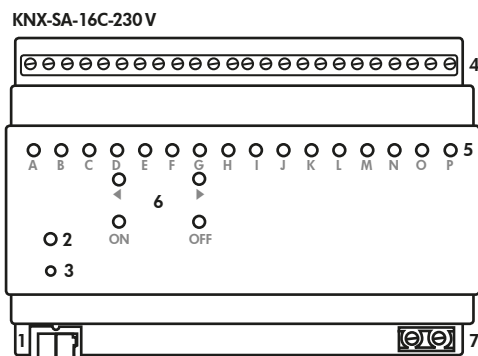
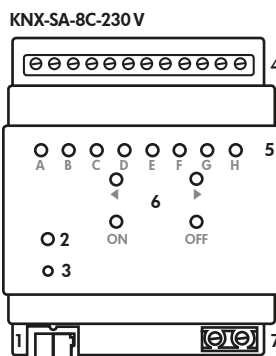
⚠ After Installation and connecting mains power supply the outputs are alive. The outputs can be switched OFF using the push buttons on the top of the device.

⚠ After installation a KNX bus telegram can switch the outputs alive.

⚠ Disconnect the mains power supply prior to installation or disassembly.

2. Terminals, Operating and Display Switch Actuator KNX-SA-8C/16C-230V

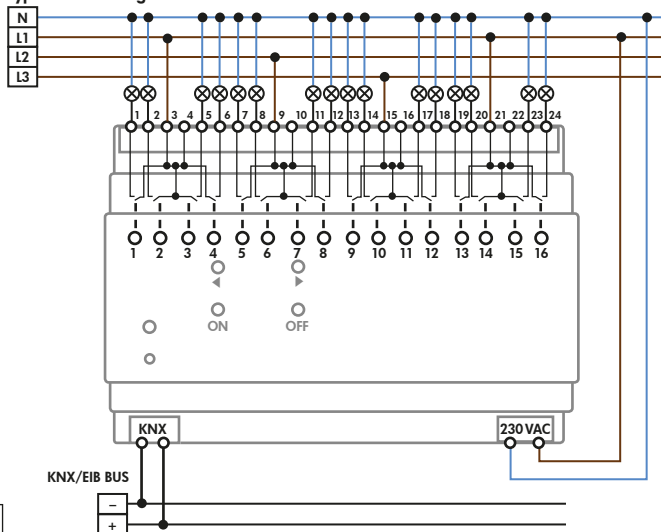
- 1 - KNX bus terminal
- 2 - Programming key
- 3 - Red programming LED
- 4 - Output power terminal
- 5 - Green ON/OFF LED
- 6 - Buttons for manual actuation
- 7 - Mains power supply terminal



3. Installation Switch Actuator KNX-SA-8C/16C-230V

1. Place the Switch Actuator.
2. Connect the Switch Actuator to the KNX bus.
3. Wire up the Switch Actuator as described in the circuit diagram. The switching contacts must be fused with a circuit breaker.
4. Switch on KNX power supply.
5. Switch on mains power supply.

Typical circuit diagram KNX-SA-16C-230V



4. Technical Data

Configuration	KNX-SA-8C-230V	KNX-SA-16C-230V
Number of outputs	8	16
Power Supply		
Mains voltage	230 VAC / 50 Hz	230 VAC / 50 Hz
Output voltage	230 VAC	230 VAC
Power Consumption		
	< 0.5 W	< 0.5 W
Output switching current*		
Resistive loads	10 A, cos φ = 1**	10 A, cos φ = 1**
Capacitive loads	max. 21 μF	max. 21 μF
Maximum lamp loads		
Incandescent lamps	1900 W	1900 W
Halogen lamp 230 V	1400 W	1400 W
Halogen lamp, electronic transformer	500 W	500 W
Halogen lamp not compensated	500 W	500 W
Halogen lamp parallel compensated	120 W	120 W
Permitted wire gauge		
Screw terminal	2.5 mm²	2.5 mm²
KNX bus terminal	0.8 mm	0.8 mm
Ambient temperature		
	0 to +45°C	0 to +45°C
Enclosure		
	IP20	IP20
Dimensions REG		
	4TE	8TE
Dimensions FM/SM (W x H x D)		
	72 x 60 x 86 mm	144 x 60 x 86 mm

* The total current of each supply terminal should not exceed maximum output switching current.

** Not suitable to switch AC outlets

5. Description KNX-SA-8C/16C-230V

The KNX SA-8C-230V and KNX SA-16C-230V receive KNX/EIB telegrams and switch up to 8 resp. up to 8 and 16 independent electrical loads respective. Each output uses a monostable relay. The outputs are configured individually via ETS3/4. The device provides extensive functions like logical operation, status response, block functions, central function, delay functions and staircase lighting function. Additionally the device provides several time and scene control. The Switch Actuators use a common power supply terminal for four channels. The surface mounted and flush mounted Switch Actuators have a common power supply terminal. This feature simplifies the wiring and increases clarity of the circuit. The Switch Actuator is available as din rail installation device, surface mounted device and flush mounted device for fixed installation in dry rooms.

6. Commissioning KNX-SA-8C/16C-230V

Note: Before commissioning please download application software at www.beg-luxomat.com.

1. Assign the physical address and set parameters with the ETS3/ETS4.
2. Upload the physical address and parameters onto the Switch Actuator. Press the programming button on request.
3. The red LED would go off upon the completion of the programming process.

7. Manually operating KNX-SA-8C/16C-230V

1. Select the desired channel with the < > buttons.
2. Use the ^ v buttons to switch the output.

8. Device types

At present, the following device types are available from the KNX Switch Actuators product group:

KNX SA-8C-230V	Part number: 90200
KNX SA-16C-230V	Part number: 90201
KNX SA-8C-230V-CL	Part number: 90209
KNX SA-8C-230V-EM	Part number: 90210