



# elsner KNX S2-B6-AP Actuator with 2 Multifunctional Outputs Instruction Manual

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**elsner KNX S2-B6-AP Actuator with 2 Multifunctional Outputs**



## Description

### Actuator with 2 multifunctional outputs, 6 inputs

The actuator KNX S2-B6-AP with integrated façade control has 2 multifunctional outputs with pairs of buttons and control LEDs for building automation with KNX. Each of the multifunctional outputs can connect to either a drive with Up/Down control (blinds, awnings, shutters, windows) or two switchable devices (On/Off for light and ventilation). The connected drives and devices can be operated directly on the actuator using connected hand switches and for commissioning.

There are a wide range of automatic functions available for the façade control. Scenes are saved and called up via the bus (scene control with 16 scenes per drive).

6 binary inputs are used either for direct operation (e.g. hand switches) or as bus switches (for instance for alarm notifications). The desired behaviour is defined precisely through selection of the response times in Standard, Comfort or Deadman mode.

## Safety and operating instructions

### DANGER!

Danger to life from electrical voltage (mains voltage)!

There are unprotected live electric components inside.

Installation and commissioning may only be handled by an electrician.

- Only operate devices if they are free from damage.
- Comply with country-specific standards, directives, specifications and provisions for electrical installation.
- Switch off voltage to the system during installation.
- Access to the device must be free at all times.
- The device may only be operated with the housing closed and only opened by an electrician.
- The up/down buttons (fig. 2, pos. 3) are only provided for commissioning and may be used only by an electrician!

The device may only be operated as a fixed-site installation, when assembled and after the conclusion of all installation and operational start-up, tasks and only in the surroundings designated for it.

Improper use, modifications to the device or failure to observe this manual will void any warranty and guarantee

claims.

## Connection

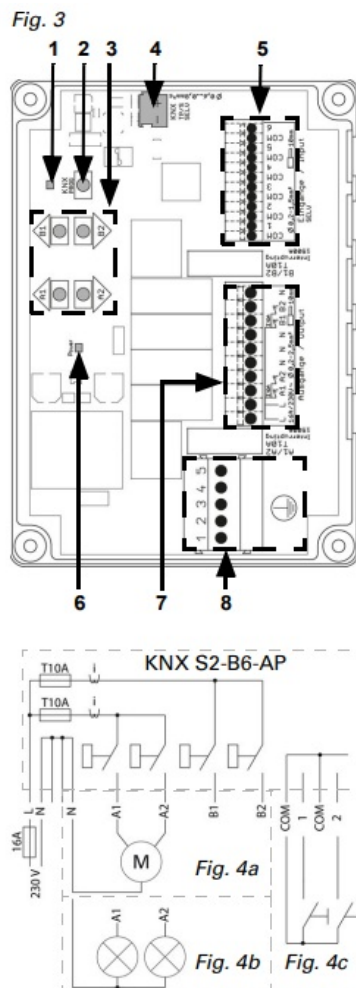
Installation includes wiring the mains voltage and SELV.

When installing and laying the cables for the KNX connection, the regulations and standards governing SELV current circuits must be observed accordingly. Observe Fig. 2.

The terminal labels are located on the device.



## Device structure (Fig. 3)



1. Programming LED
2. Programming key (PROG)
3. Switch pair Up/Down and LEDs
4. KNX bus terminal +/-
5. Binary inputs 1- 6
6. Ains LED (Power), operating status display. See manual
7. Operating voltage input L/N Outputs
  - **A1 – A2:** Up – down or Device
  - 1 – Device 2

- **Output B1 – B2:** Up – down or Device  
1 – Device 2

8. PE

### Connection examples (Fig. 4)

- **Fig. 4a:** Output with 1 drive
- **Fig. 4b:** Output with 2 devices
- **Fig. 4c:** 2 binary inputs

### Commissioning

The physical address is assigned and the parameters are set using the KNX software above ETS 5. The programming button is inside the device (Fig. 3, pos. 2).

The product manual with information on configuration and commissioning, as well as the KNX application, are available on the Elsner Elektronik homepage at [www.elsner-elektronik.de](http://www.elsner-elektronik.de) for download in the “Service” menu area.

### Maintenance and cleaning

The device is maintenance-free. Do not complete any repairs!

If needed, clean the surface of the housing using a moist cloth. Do not use caustic agents or solvents.

### Disposal

The device must be disposed of or recycled according to statutory regulations after use. Do not dispose of with household rubbish!

### Scope of delivery

- Actuator
- KNX clamp
- 4x dowels SX6x30
- 4x screws DIN WN57, 4x50mm, galvanized

### Technical data

The product conforms to the conditions of the EU Directives.

#### General:

- Housing plastic
- Colour grey/transparent
- Assembly
- Surface-mounted in dry indoor areas
- Protection class IP40
- Dimensions (W x H x D) 175 mm x 128 mm x 52 mm

- Total weight approx. 585 g
- Ambient temperature -20...+55 °C
- Ambient humidity (RH) (non-con-densing) 5...95 %
- Storage temperature -30...+70 °C
- Protective class (PE looped through) II
- Overvoltage category III
- Degree of contamination 2

#### Supply:

- **Operating voltage** 230 V / 50 Hz
- **Power dissipation (device in standby)**  
Total current intake with maxi-mum loads 1,5 W 16 A
- **Spring terminal connection** 0.2...2.5 mm<sup>2</sup>
- **Stripping length** 10 mm

#### KNX bus:

- **Medium** TP1-256
- **Configuration mode** S-Mode
- **Group addresses maximum** 1024
- **Assignments maximum** 1024
- **Communication objects** 295
- **Rated voltage (external SELV)** 30 V
- **Power consumption** 5 mA
- **Connection KNX plug terminals** 0.6...0.8 mm<sup>2</sup> s
- **Stripping length** 5 mm
- **Duration after bus voltage restora-tion until data is received approx.** 5 s

#### Binary inputs:

- **Quantity** 6
- **Internal SELV with joint plus** (16...42 V)
- **Spring terminal connection** 0.2...1.5 mm<sup>2</sup>
- **Maximum cable length** 10 m

#### Multifunctional outputs:


- **Closer contacts Configuration for 2 drives (Up/Down) or 4 devices (On/Off) Supply via operating voltage** 4×  $\mu$  (< 1.2 mm)
- **Minimum current for run time measurement (drives)** 100 mA
- **Spring terminal connection** 0.2...2.5 mm<sup>2</sup>
- **Stripping length** 6A (cos  $\varphi$  = 0,6)
- **LEDi** 400 W (480  $\mu$ F)

- **Bulbs / radiant heaters** 8 A

**Technical changes and errors excepted.**

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## **Documents / Resources**

	<p><a href="#">elsner KNX S2-B6-AP Actuator with 2 Multifunctional Outputs</a> [pdf] Instruction Manual KNX S2-B6-AP Actuator with 2 Multifunctional Outputs, KNX S2-B6-AP, Actuator with 2 Multifunctional Outputs, Multifunctional Outputs, Outputs</p>
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## **References**

- [e Spezialist für Gebäudeautomatisierungstechnik | Elsner Elektronik](#)