



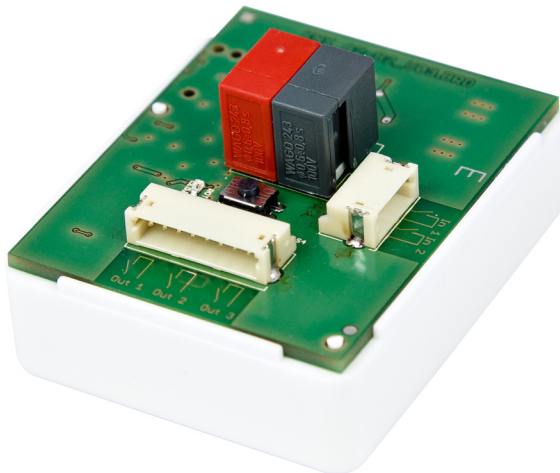
# KNX A3-B2

## Door Operator Control Module

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### Technical specifications and installation instructions

Item number 70391



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# 1. Description

The **Door operator control module KNX A3-B2** has three outputs for door control and two binary inputs.

## Functions:

- **3 outputs** for door operation (impulse or dead-man mode)
- **2 binary inputs** for the bus functions switches, toggle switches, blinds, shutters, marquees, windows, dimmers, 8 but encoders, temperature encoders, brightness encoder, scenes

Configuration is made using the KNX software ETS. The **product file** can be downloaded from the Elsner Elektronik homepage on **www.elsner-elektronik.de** in the "Service" menu.

## 1.0.1. Deliverables

- Control module in the installation casing
- Connection line for outputs
- Connection line for inputs

## 1.1. Technical data

Housing	Plastic
Colour	White
Assembly	Installation
Protection category	IP 20
Dimensions	approx. 38 x 47 x 24 (W x H x D, mm)
Weight	approx. 25 g (incl. connection lines)
Ambient temperature	operation -30...+50°C, storage -30...+70°C
Ambient humidity	max. 95% RH, avoid condensation
Operating voltage	bus voltage
Bus current	max. 10 mA
Data output	KNX +/- Bus connector terminal
BCU type	unit's own microcontroller
PEI type	0
Group addresses	max. 230
Assignments	max. 230
Communication objects	20
Inputs	2 x binary inputs (for potential-free contacts), maximum output length 5 m
Outputs	3 x semi-conductor output (open collector) max. 60 V AC/DC, 300 mA. For safety extra-low voltage according to the SELV specifications only!

The product conforms with the provisions of EU directives.

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## 2. Installation and start-up

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### 2.1. Installation notes

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Installation, testing, operational start-up and troubleshooting should only be performed by an electrician.

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#### **CAUTION!** **Live voltage!**

There are unprotected live components inside the device.

- National legal regulations are to be followed.
  - Ensure that all lines to be assembled are free of voltage and take precautions against accidental switching on.
  - Do not use the device if it is damaged.
  - Take the device or system out of service and secure it against unintentional use, if it can be assumed, that risk-free operation is no longer guaranteed.
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The device is only to be used for its intended purpose. Any improper modification or failure to follow the operating instructions voids any and all warranty and guarantee claims.

After unpacking the device, check it immediately for possible mechanical damage. If it has been damaged in transport, inform the supplier immediately.

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

Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

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## 2.2. Installation

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### 2.2.1. Installation location

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#### **Install and operate in dry interior rooms only!**

Avoid condensation.

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## 2.2.2. Connection/ layout of the circuit board

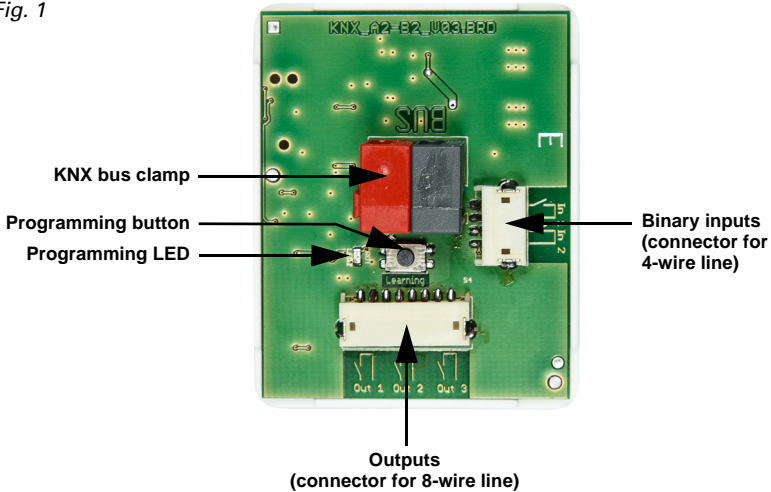


### CAUTION!

#### Unprotected live components!

The voltage connected to the switching outputs must conform with the SELV specifications (safety extra-low voltage)!

Fig. 1



Connect the bus cable (red/black clamp).

Use the 8-wire connection line to connect the outputs and the 4-wire line to connect the binary inputs. The lines may be extended to up to 5 m.

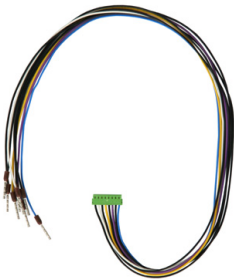


Fig. 2

#### 8-wire connection line for outputs:

	blue	output 3
	black	output 3
	violet	(not connected)
	black	output 2
	yellow	output 2
	black	(not connected)
	white	output 1
	black	output 1

Connection of the outputs independent from polarity.

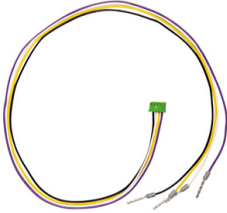






Fig. 3

**4-wire connection line for binary inputs:**

	violet	input 1
	yellow	input 1
	white	input 2
	black	input 2

*Connection of the outputs independent from polarity.*

## 2.3. Notes on mounting and commissioning

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Device must not be exposed to water (rain). This could result in the electronics being damaged. A relative air humidity of 95% must not be exceeded. Avoid condensation.

After the bus voltage has been applied, the device will enter an initialisation phase lasting a few seconds. During this phase no information can be received or sent via the bus.

## 3. Addressing of the device at the bus

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The device is supplied with the bus address 15.15.250. You can program another address into the ETS by overwriting the 15.15.250 address or by teaching via the programming key.