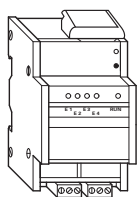**Schneider Electric**

## SpaceLogic KNX Binary input REG-K/4x24

Operating instructions

**Art. no. MTN644892**

### 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.**

#### ⚠ CAUTION

**The device may be damaged!**
- Only operate the device according to the specifications stated in the Technical data.
- All the devices that are installed next to the binary input must be equipped with basic insulation at the very least.
- The internal device connection of the potentials is not suitable for carrying load currents.

**Failure to follow these instruction can result in equipment damage.**

### Binary input introduction

The binary input REG-K/4x24 is used to connect four conventional 24 V devices (such as door and window contacts) to the KNX bus.

The binary input has a bus coupler. It is installed on a DIN rail acc. to EN 60715, with the bus connection made via a bus connecting terminal. A data rail is not required.
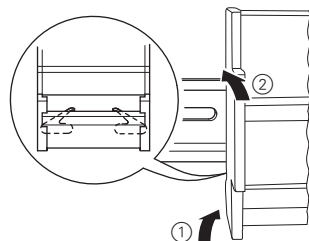
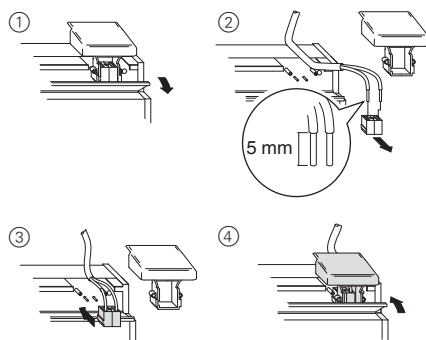### Operating and display elements
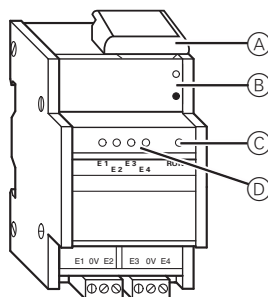


Ⓐ Cover of the bus connecting terminal
Ⓑ Programming button and programming LED (behind hinged cover)
Ⓒ Operational LED
Ⓓ Channel status LEDs

### Installing the binary input
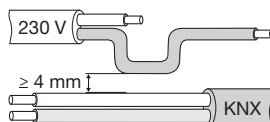
① Set the binary input onto the DIN rail.



② Connect KNX.



⚠ **WARNING**
**Risk of fatal injury from electrical current. The device could be 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.
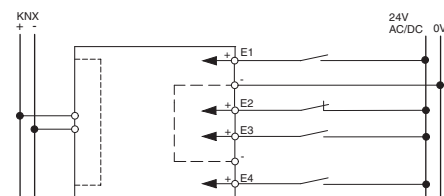


#### ⚠ CAUTION

**The device may be damaged!**
High voltages can cause damage. Never connect devices with more than 24 V.

**Failure to follow these instruction can result in equipment damage.**

③ Connect the input cables.



When the bus voltage is connected and there is a signal at the input, the corresponding yellow channel status LED will light up.

ℹ The 0 V conductors must be connected to the device. Inputs E1 to E4 have a common potential (4 x 0 V).

### Putting the binary input into operation

① Press the programming button.

The programming LED lights up.

② Load the physical address and the application into the device from the ETS.

The operating LED lights up: The application was loaded successfully, the device is ready for operation.

### Technical data

| | |
|---|---|
| Supply from KNX: | DC 24 V / max. 18 mA |
| Insulation voltage: | AC 4 kV bus/inputs |
| Inputs | |
| Nominal voltage: | AC/DC 24 V |
| 0 signal: | < 5 V |
| 1 signal: | > 11 V |
| Nominal current: | DC approx. 15 mA (30 V), AC approx. 6 mA (27 V) |
| Permitted cable length: | max. 100 m/channel |
| Ambient temperature | |
| Operation: | -5 °C to +45 °C |
| Storage: | -25 °C to +55 °C |
| Transport: | -25 °C to +70 °C |
| Max. humidity: | 93 % relative humidity, no moisture condensation |
| Environment: | The device is designed for use at a height of up to 2000 m above sea level (MSL). |
| Connections | |
| Inputs, outputs: | Screw terminals |
| Single-core: | 1.5 mm$^2$ to 2.5 mm$^2$ |
| Finely stranded (with core end sleeve): | 1.5 mm$^2$ to 2.5 mm$^2$ |
| KNX: | Bus connecting terminal |
| Dimensions | |
| Height x width x depth: | 90 x 45 x 65 mm |
| Device width: | 2.5 modules |

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

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