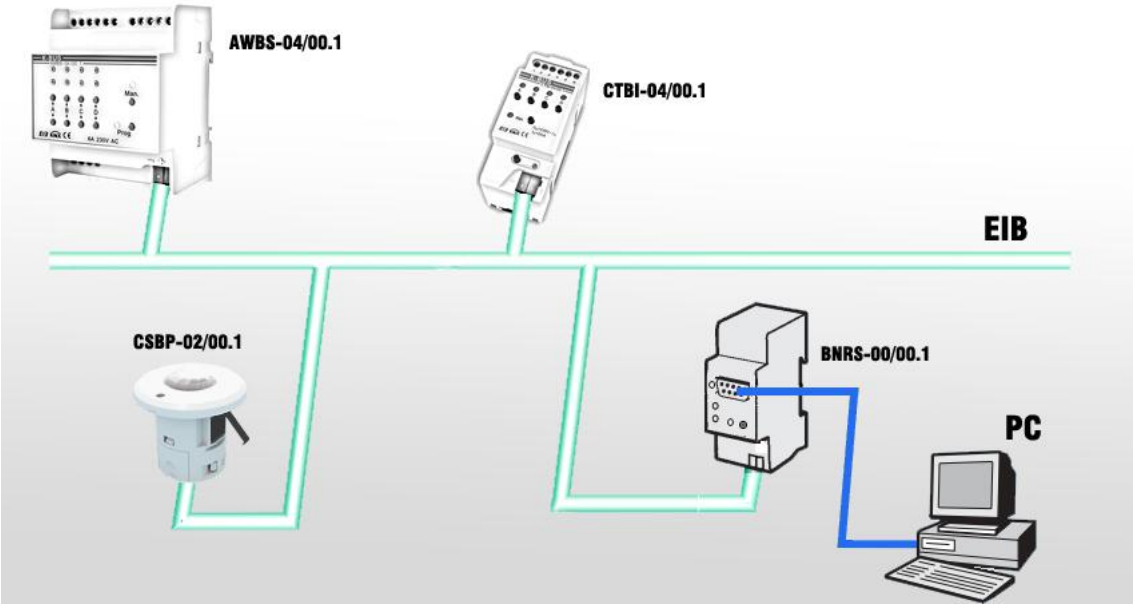
# K-BUS® KNX RS232 Interface

# User manual-Ver.1

BNRS-00/00.1

**KNX/EIB Intelligent Installation Systems**

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# 1. Summary

The KNX RS232 Interface is designed for an intelligent building control system， which is used for facilitating communication between the PC and the KNX system.

The KNX RS232 Interface connects a PC to an EIB/KNX system via a 9-pole D-SUB plug at the front and a standard RS232 connection cable, in order to configure, parameterize and commission the EIB/KNX installation as well as bus monitor using the ETS software. The maximum communication distance is 15m between the PC and the communication interface.

The communication interface of the KNX RS232 Interface is a 9-pole D-SUB plug, and uses a standard RS232 connection way with a PC. And the bus connection is done via a bus connection terminal at the front, and no need an extra voltage supply.

The KNX RS232 Interface has not an application program, but it is able to use the Engineering Tool Software ETS (ETS3 or later) to allocate the physical address. The factory default physical addresses are 15.15.255.

The KNX RS232 Interface is a modular installation device. It can be installed in the distribution board on the 35 mm mounting rails according to EN 60 715.

# 2. Technical data

| | | |
|---|---|---|
| **Power supply** | Operating voltage | 21-30V DC，via the EIB bus |
| | Current consumption | <12mA |
| | Power consumption | <360mW |
| **Interface** | RS 232 | |
| **Connections** | EIB / KNX | Bus connecting terminal (black/red) |
| | | Single-core 0.2—6.0mm$^2$ |
| | | Multi-core 0.2—4mm$^2$ |
| | PC-connection | 9-pole D-SUB plug, socket connector |
| | | A standard RS232 connection cable |
| **Operating and display** | Prog. LED and Push button | For assignment of the physical address |
| | LED PC/link ON | ETS(or other) is linked to the device |
| | LED PC/link flashing | Communication via the interface between PC and the device |
| | LED EIB/link ON | The device is linked to the EIB bus |
| | LED EIB/link flashing | Telegram traffic on the bus |



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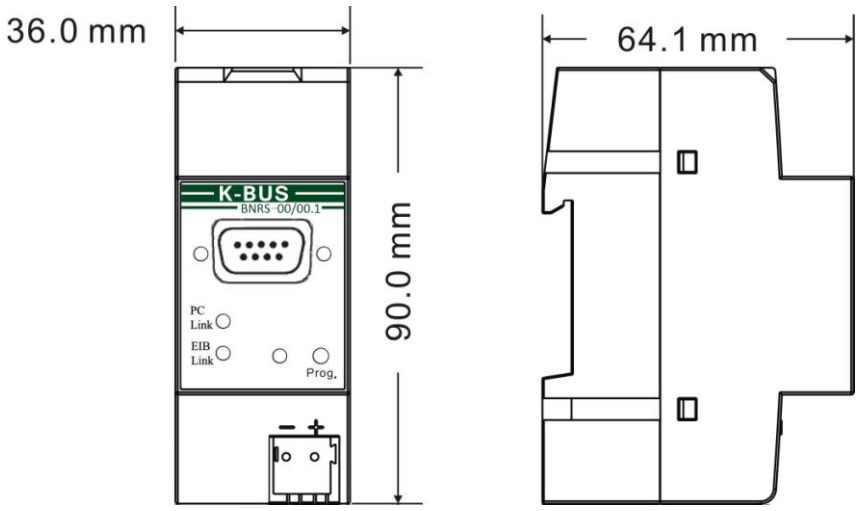
| | | |
|---|---|---|
| **Temperature range** | Operation | –5 ℃ ... + 45 ℃ |
| | Storage | –25 ℃ ... + 55 ℃ |
| | Transport | – 25 ℃ ... + 70 ℃ |
| **Ambient condition** | Humidity | <93%, except dewing |
| **Mounting** | Modular installation device，on 35 mm mounting rail, DIN EN 50 022 | |
| **Transmission range** | < 15m | |
| **Dimensions** | 90 mm×36 mm×64mm（H×W×D） | |
| **Weight** | 0.1kg | |

# 3. Dimension and Circuit Diagram

## 3.1 Dimension diagram



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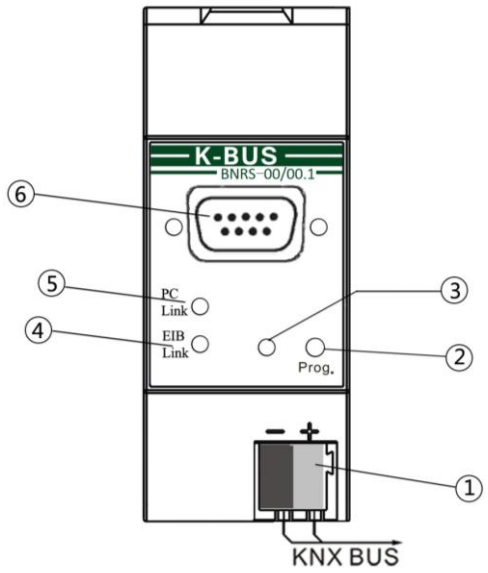
## 3.2 Circuit diagram




① KNX / EIB bus connection terminals

② Programming button

③ Red LED for assigning the physical address

④ The LED indicate that the device connect with EIB bus, the LED flashing indicate telegram traffic on the bus

⑤ The LED indicate that the device connect with ETS or center control software etc., the LED flashing indicate communication via the interface between PC and the device

⑥ RS232 serial ports connection terminals



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