Bus coupler 3
Bus coupler 3 external sensor

Order-No. 2008 00
Order-No. 2009 00

Content

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1 Product definition

1.1 Product catalogue

Product name: Bus coupler 3 / Bus coupler 3 external sensor

Use: System device

Design: UP (concealed)

Order-No. 2008 00 / 2009 00

1.2 Function

The bus coupling unit 3 creates the connection between a KNX/EIB system and a KNX/EIB application module. The application module can be, for example, a pushbutton that is plugged onto the bus coupling unit. The telegrams received from the bus line are evaluated and an electrical signal is forwarded to the application module via the 10pole connection strip. In the opposite direction the signals of the application module are converted into KNX/EIB telegrams and transmitted.

Only the combination of the bus coupling unit 3 and an application module results in a functional unit. This project is configured in the ETS project in the form of the application program of the application module. Without an application module the bus coupling unit 3 will not function.
The device configuration is not programmed into the bus coupling unit 3. Therefore it is possible to operate application modules that have already been commissioned on any desired third-generation bus coupling units. This can simplify commissioning significantly, because programming of the devices no longer has to be performed on the same bus coupling unit that the application unit will later be plugged onto in the building.
Not all application modules can be plugged onto the bus coupling unit 3. Whether operation with the bus coupling unit 3 is possible can be noted from the documentation of the application module in question.

In the device variant with a 2pole screw terminal on the rear of the device (Order no. 2009 00), it is possible to connect an optional wired remote temperature sensor (see Accessories) to the device. This can be used, for example, to sense the actual temperature of the room at an additional location using a room thermostat plugged onto the bus coupling unit. For application modules that do not themselves have the option of temperature evaluation via a wired remote temperature sensor, connecting an additional remote sensor to the bus coupling unit 3 has no effect.

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1.3 Accessories

Remote sensor   Order-No. 1493 00
Protective cover plate   Order-No. 0015 01

2 Installation, electrical connection and operation

2.1 Safety instructions

Electrical devices may only be fitted and installed by electrically skilled persons. The applicable accident prevention regulations must be observed.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Make sure during the installation that there is always sufficient insulation between the mains voltage and the bus. A minimum distance of at least 4 mm must be maintained between bus conductors and mains voltage cores.

Danger of electrical shock! When mounting with 230 V sockets in a multiple combination: Use sockets with increased contact protection
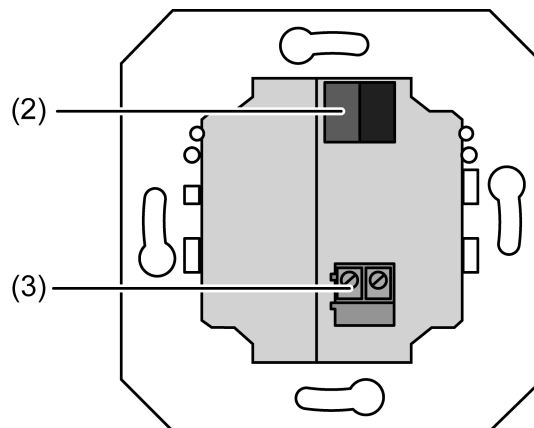
During renovation work, protect the device against soiling through paint, wallpaper paste, dust, etc. Device can be damaged.

The device may not be opened or operated outside the technical specifications.

2.2 Device components
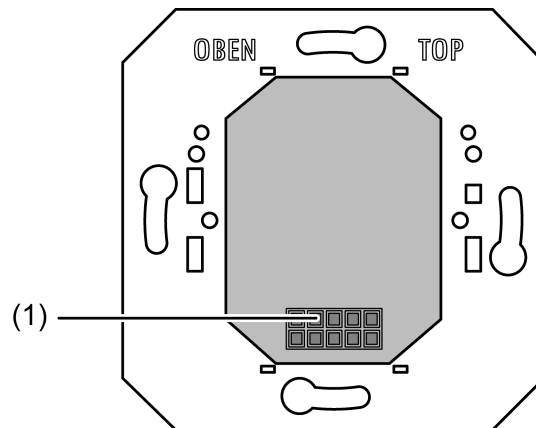
picture 1: Device components, front side

picture 2: Device components, rear side

(1)   Interface to KNX/EIB application module

(2)   Bus connection

(3)   Connection for wired remote temperature sensor
      (only for device variant Order no. 2009 00)

2.3 Fitting and electrical connection

Mounting and connecting the device

Observe the installation orientation. Note marking **TOP**.

- Connect the device to the KNX/EIB bus cable with the bus connection terminal (2). Note polarity (red = +, black = -)!
- Optionally: connect wired remote temperature sensor to the connecting terminal (3) on the rear of the device.
- Install the device in a flush-mounted appliance box.
- Attach a suitable KNX/EIB application module.

[i] The device will not function without an application module.

2.4 Commissioning

Only the combination of the bus coupling unit 3 and an application module results in a functional unit. This project is configured in the ETS project in the form of the application program of the application module. Without an application module the bus coupling unit 3 will not function.
Any special commissioning steps that are required are described in greater detail in the product documentation for the application module. We therefore ask at this point that you refer to the documentation for the application module.

The device configuration is not programmed into the bus coupling unit 3. Therefore it is possible to operate application modules that have already been put into operation on any desired third-generation bus coupling units. This can simplify commissioning significantly, because programming of the devices no longer has to be performed on the same bus coupling unit that the application unit will later be plugged onto in the building.
Not all application modules can be plugged onto the bus coupling unit 3. Whether operation with the bus coupling unit 3 is possible can be noted from the documentation of the application module in question.

ⓘ   The bus coupling unit 3 does not have a programming button. In order to program the physical address and the application program, the application module has to be plugged on.

3 Technical data

General

Safety class	III
Mark of approval	KNX/EIB
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-25 ... +70 °C

KNX/EIB supply

KNX medium	TP 1
Commissioning mode	S mode
Rated voltage KNX	DC 21 V ... 32 V SELV
Connection mode KNX	Standard KNX/EIB connection terminals

4 Software description

The bus coupling unit 3 does not have its own ETS application program. The device configuration is not programmed into the bus coupling unit 3, but rather into the application module that is plugged on. Only the combination of the bus coupling unit 3 and an application module results in a functional unit. This project is configured in the ETS project in the form of the application program of the application module. Without an application module the bus coupling unit 3 will not function.
We ask at this point that you refer to the documentation for the application module.

5 Appendix

5.1 Index

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