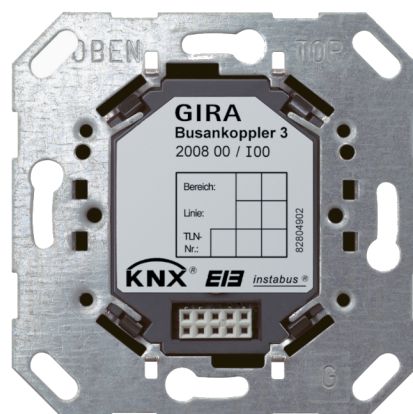**KNX**
Product documentation

GIRA

Issue:
28.07.2017
20083200

Bus coupler 3

Bus coupler 3 external sensor

Order No. 2008 00
Order No. 2009 00

Table of Contents

GIRA

1 Product definition

1.1 Product catalogue

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

Use: System device

Design: FM (flush-mounted)

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 push-button sensor 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 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.

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.

GIRA

1.3 Accessories

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

2 Mounting, electrical connection and operation

2.1 Safety instructions

Electrical equipment may only be installed and fitted 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.
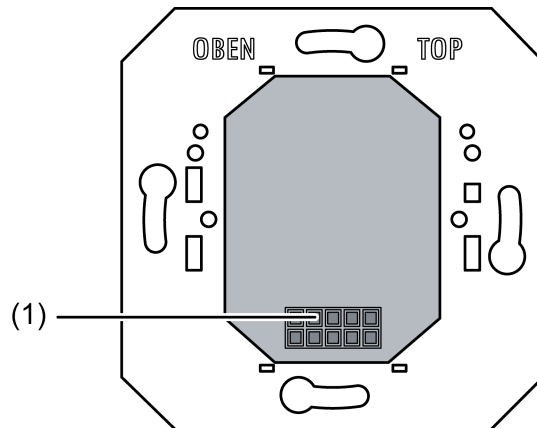
GIRA

2.2 Device components

Figure 1: Device components, front side
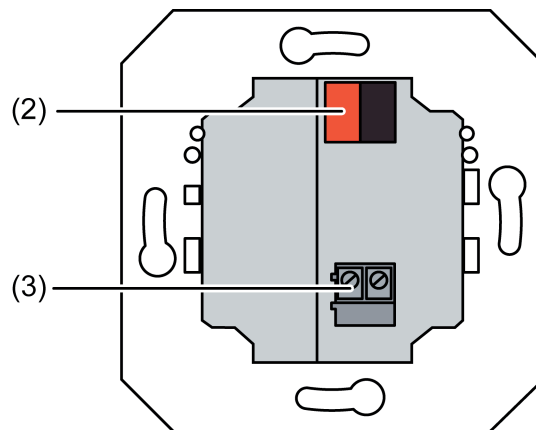

Figure 2: Device components, rear side

(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 line 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.

ⓘ 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
Protection class	III
Test mark	KNX/EIB
Ambient temperature	-25 ... +55 °C
Storage/transport temperature	-25 ... +70 °C

KNX/EIB supply
KNX medium	TP 256
Rated voltage KNX	DC 21 ... 32 V SELV

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.

GIRA

5 Appendix

5.1 Index

Gira
Giersiepen GmbH & Co. KG
Elektro-Installations-
Systeme

Industriegebiet Mermbach
Dahlienstraße
42477 Radevormwald

Postfach 12 20
42461 Radevormwald

Deutschland

Tel +49(0)21 95 - 602-0
Fax +49(0)21 95 - 602-191

www.gira.de
info@gira.de