

Area coupler / Line coupler Line Amplifier

Order no.: 1096 00

General system information

This device is a product of the Instabus EIB system and complies with EIBA directives. Detailed technical knowledge obtained in Instabus training courses is a prerequisite to proper understanding.

The functionality of this device depends on the software.

Detailed information on loadable software and attainable functionality as well as the software itself can be obtained from the manufacturer's product database.

Planning, installation and commissioning of the unit is done by means of EIBA-certified software.

An updated version of the product database and the technical descriptions are available in the Internet at www.gira.de.

Function

The coupler establishes a data link between two Instabus EIB lines and ensures electrical isolation between these lines.

The exact function of the device is determined by the address and the selected application:

Line coupler LK:

Connection of a line to a main line (HL), alternatively with or without filter function. The coupler is logically assigned to the subordinate line (here: line).

Fitting

The device is snap-fastened on the DIN rail until the latch is heard to engage. The connecting terminals must be at the bottom.



Safety instructions

Attention: Electrical equipment must be installed and fitted by qualified electricians only and in strict observance of the relevant accident prevention regulations.

Failure to observe any of the installation instructions may result in fire and other hazards.

Area coupler BK:

Connection of a main line (HL) to an area line (BL), alternatively with or without filter function. The coupler is logically assigned to the subordinate line (here: main line HL).

Amplifier V:

Processing and repetition of telegrams on a line, no filter function. Division of a line into max. 4 independent line segments => max. 3 parallel-connected line amplifiers per line.
Each line segment requires a separate power supply (SV) including a choke (DR).

Connection

The superordinated line is connected to the lefthand terminals (7). This connection ensures the supply of the device electronics and permits reporting of a bus voltage failure on the subordinate line.

The subordinate line is connected to the righthand terminals (6).

Important

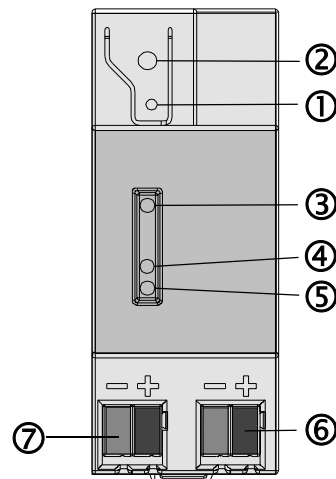
Do not try to lever out the connecting terminal from below. The bus voltage may be short-circuited.

Controls and indicators

Controls and indicators (fig. A):

- (1) programming key
- (2) programming LED, red
- (3) operation LED, green
- (4) LED, yellow, data received on subordinate line
- (5) LED, yellow, data received on superordinate line
- (6) connecting terminal for subordinate line (e.g. line)
- (7) connecting terminal for superordinate line (e.g. main line)

A



Commissioning

To assign the logical address, depress programming key (1).

The red LED (2) lights up. The LED goes out when the logical address is registered. Each line requires a separate power supply.

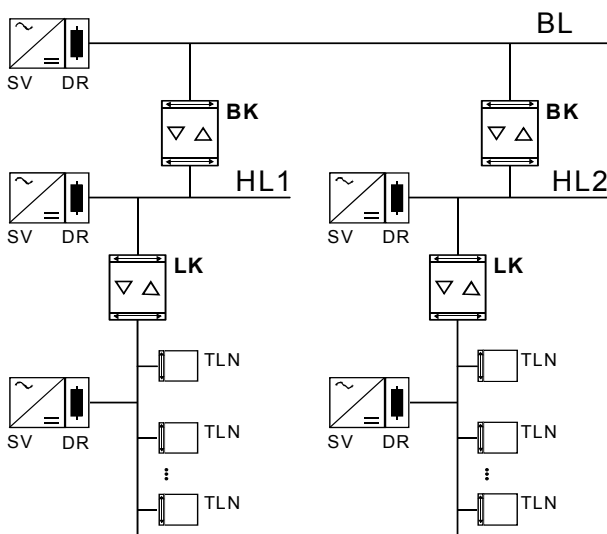
Schematic diagram of the topology of an Instabus EIB system

Fig. B: application as an area and line coupler (BK and LK)

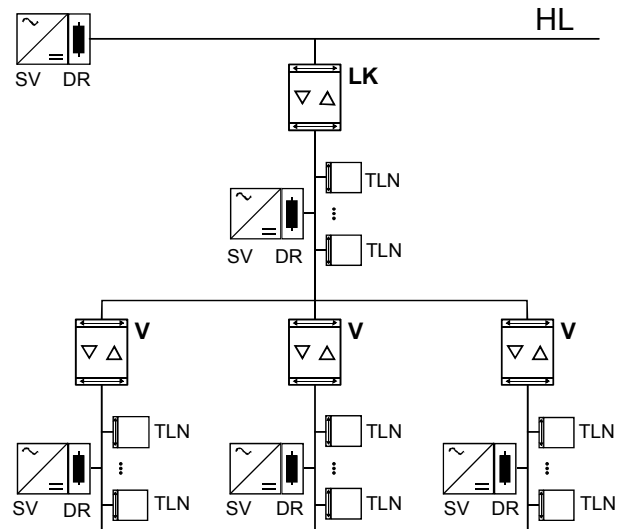
Fig. C: application as a line coupler LK and amplifier V

(TLN = bus subscriber, DR = choke, SV = Instabus power supply)

B



C



Technical characteristics

Supply
Instabus EIB: 21 – 30 V DC
via the superordinate line

Current input
superordinate line: ca. 6 mA
subordinate line: ca. 8 mA

Connection: Instabus connecting terminal for super- and subordinate lines

Fitting: snap-fastening on DIN rail

Ambient temperature: -5 °C ... +45 °C

Storage temperature.: -25 °C ... + 70 °C

Type of protection: IP 20 in acc. with EN 60529

Safety class: III in acc. with EN 61140

Installation width: 36 mm (2 pitch)

Weight: ca. 90 g

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

Gira
Giersiepen GmbH & Co. KG
Service Center
Dahlienstrasse 12
D-42477 Radevormwald

CE The CE sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

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