

2-channel universal pushbutton interface

Order no.: 1118 00

4-channel universal pushbutton interface

Order no.: 1119 00

System information

This unit is a product of the Instabus-EIB-System and corresponds to the EIBA Guidelines.

Detailed technical knowledge acquired in Instabus training courses is a prerequisite for the understanding of the system.

The functions of the device are software-dependent. Detailed information on the software and the functions implemented and the software itself are available from the manufacturer's product data bank.

Planning, installation and commissioning of the device are effected with the help of EIBA-certified software.

Function

The 2-channel and 4-channel pushbutton interfaces are equipped with 2/4 independent channels which – depending on parameterization – may be used as inputs or alternatively also as outputs (channels 1 or 2 only).

The pushbutton interfaces can evaluate at their potential-free inputs up to 2/4 pushbutton / switch states with a common reference potential and send the corresponding telegrams over the Instabus EIB.

The telegrams may be telegrams for switching or dimming, for blind/shutter control or for value transmitter applications (dimming value transmitter, light-scene extension, temperature or brightness value transmitters).

Moreover, switch or pulse counters are available (2-channel type: 1 counter, 4-channel type: 2 counters).

As an alternative, channels 1 and 2 can control up to 2 light-emitting diodes (LED) as independent outputs.

To increase the output current (see technical data), these channels can also be connected in parallel with the same parametrization.

The outputs are protected against short circuits, overload and wrong polarity.

The updated product database and the technical description are available in the Internet under www.gira.de.

**Safety warnings**

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 irreparable damage, in fire and in other hazards.

**Safety warnings**

The connection of 230 V signals or other external voltages to the inputs is not permitted!

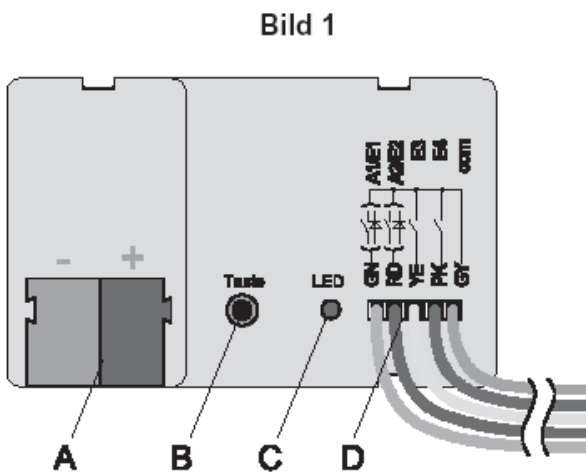
The voltage potentials of the connecting lines for the contacts and the LEDs are not electrically separated from the bus voltage.

Connect ONLY potential-free pushbuttons / switches to the inputs.

Fitting instructions

To prevent EMC-related interference, do not run the lines to the inputs (D) in parallel with lines carrying mains voltage or with lines feeding loads.

Fig. 1: The bus is connected with bus connecting terminal (A).
The physical address is programmed by means of programming button (B) and programming LED (C).



Wiring of 4-channel pushbutton interface

Switches and pushbuttons or LEDs are connected to the device by means of the connecting cable supplied (D) as shown in figs. 2 and 3.

Colour coding:

- Green (GN): channel 1 (E1/A1)
- Red (RD): channel 2 (E1/A2)
- Yellow (YE): channel 3 (E3)
- Pink (PK): channel 4 (E4)
- Grey (GY): reference potential (com)

Fig 2: Example for 4-channel pushbutton interface with 4 inputs

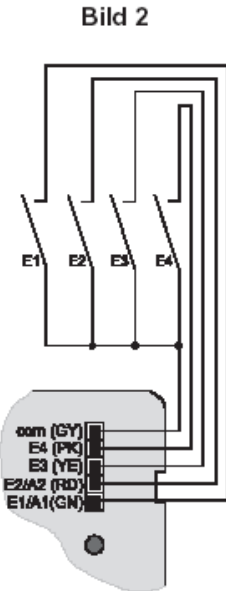
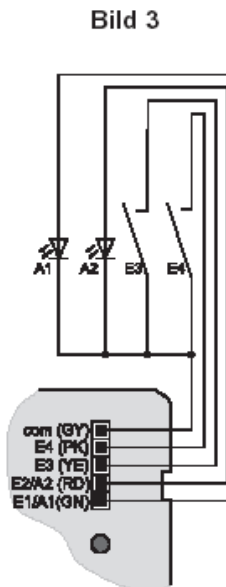


Fig. 3: Example for 4-channel pushbutton interface used with 2 inputs and 2 outputs



Wiring of 2-channel pushbutton interface

Switches and pushbuttons or LEDs are connected to the device by means of the connecting cable supplied as shown in figs. 4 and 5.

Colour coding:

- Green (GN): channel 1 (E1/A1)
- Yellow (YE): channel 2 (E1/A2)
- Grey (GY): reference potential (com)

Fig. 4: Example for 2-channel pushbutton interface with 2 inputs

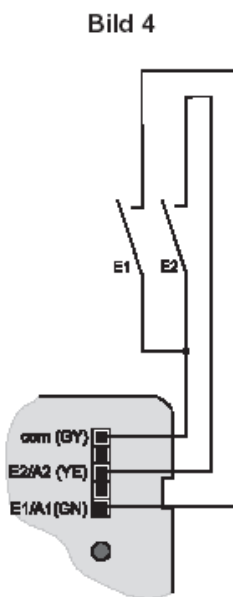
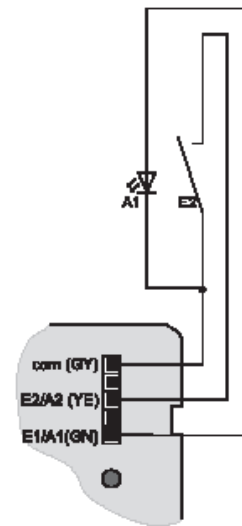


Fig. 5: Example for 4-channel pushbutton interface used with 1 input and 1 output

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Technical data

Supply		Inputs	
Instabus EIB:	21 – 32 V DC	dual type:	up to 2 (depending on application)
Power consumption:	typically 150 mW	quad type:	up to 4 (depending on application)
Connection		Outputs for LEDs:	
Instabus EIB:	Instabus connecting terminal	LED current:	max. 2 typ.2 mA per output
Inputs / Outputs		Dimensions (W x H x D): 44 x 29 x 16 mm	
dual type:	3-wire cable set	Ambient temperature: -5 °C ... +45 °C	
quad type:	5-wire cable set	Type of protection: IP 20	
length:	25 cm, can be prolonged to 5 m max.	Safety class: III	
recommended cable:	EIB bus line J-Y(St)Y 2x2x0.8mm		

Acceptance of guarantee

The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade).

They will forward the devices to the Gira Service Center.

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