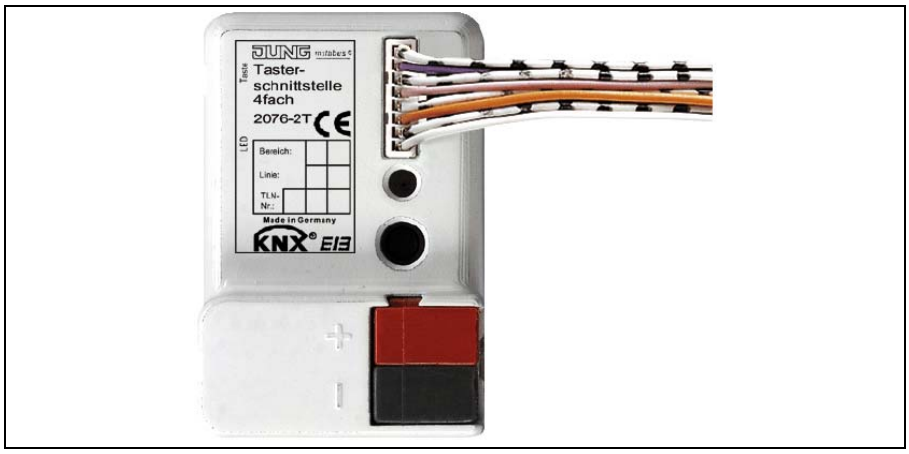
Operating Instructions
2-channel pushbutton interface
4-channel pushbutton interface



1. 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.

2. 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 commissionning of the device are effected with the help of EIBA-certified software.
The updated product database and the technical description are available in the Internet under www.jung.de.

3. 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 potentialfree 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.

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

5. Fitting instructions

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

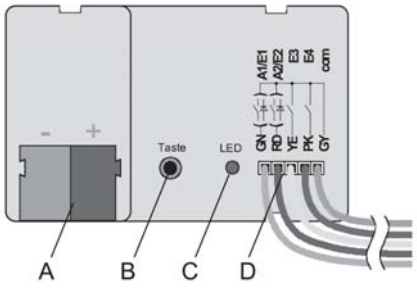


Figure 1

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 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)

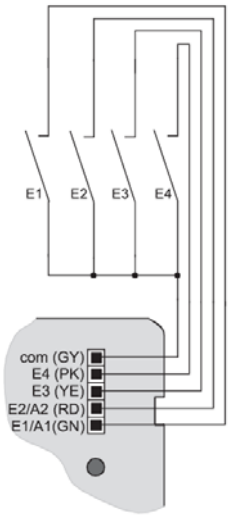


Figure 2

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

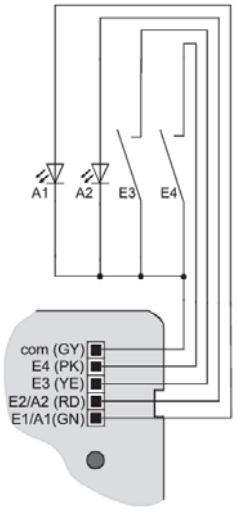


Figure 3

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)

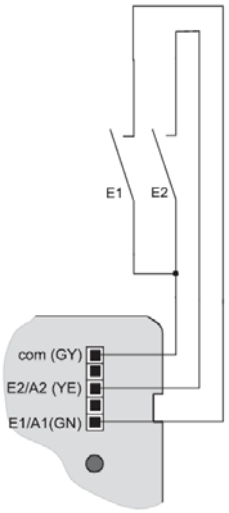


Figure 4

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

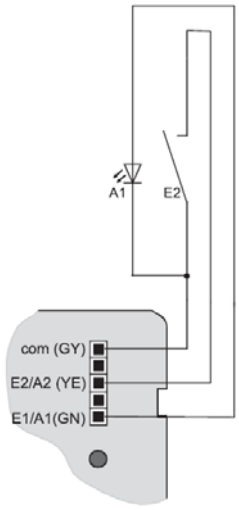


Figure 5

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

6. Technical data

Supply	
instabus EIB :	21 – 32 V DC
Power consumption :	typically 150 mW
Connection	
instabus EIB :	*instabus* connecting terminal
Inputs / Outputs	
dual type :	3-wire cable set
quad type :	5-wire cable set
length :	25 cm, can be prolonged to 5 m max.
recommended cable :	EIB bus line J-Y(St)Y 2x2x0.8mm
Inputs	
dual type :	up to 2 (depending on application)
quad type :	up to 4 (depending on application)
Outputs for LEDs :	max. 2
constant current :	0.8 mA per output
Dimensions (W x H x D) :	44 x 29 x 16 mm
Ambient temperature :	-5 °C ... +45 °C
Type of protection :	IP 20
Safety class :	III

Technical specifications subject to change.

7. 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:

ALBRECHT JUNG GMBH & CO. KG
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