ABB i-bus® EIB
4-fold binary input
6156 EB - 500
for Installation

Operating instructions
only for authorized, skilled electricians with
EIB training

Important instructions

Attention

It is absolutely essential that the EIB bus is installed by an authorized electrician. Laying and connection of bus line and applications devices must be effected in conformity with valid regulations according to DIN - VDE and the EIB manual of the ZVEI/ZVEH.

An all-pole disconnection is essential, if failures occur or when work is carried out on the installation to avoid dangerous touch voltages generated by a feedback from various external conductors.

Technical data

EIB connection
Current consumption: ≤ 10 mA

Neutral conductor connection
Terminals   2 screw terminals
                             (max. 2 x 2,5 mm²)

Operating inputs
Current sconsumption
per channel: ≤ 5 mA
Line length per channel: 100 m
Operating points: < 120 V and > 180 V
Terminals   4 screw terminals
                             (max. 2 x 2,5 mm²)

Dimensions (h x w x d): 42 x 240 x 32 mm
Operating temperature: -5 °C to +45 °C
Degree of protection: IP 20

Fields of application / functions

The input terminal offers 4 volt free inputs for 230 V~ signals to couple switch or pushbutton contacts to the ABB installation bus EIB.
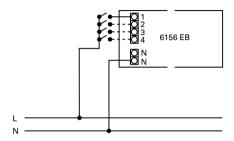
The switching behaviour of the four inputs can be parameterized individually by means of the ETS. ON/OFF telegrams can be transmitted at different input switching edges.

The manufacturer database of ABB is continuously updated. It stores the latest applications.

You will find their related descriptions in our technical manual.

If you need a copy of the database and/or technical manual, please contact your national distributor.

Fig. 1 / wiring diagram

1
2
3
4
6156 EB
N
N

L

N

Note
The number of parallel contacts for one operating input
(without contact-parallel lighting) is unlimited.
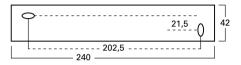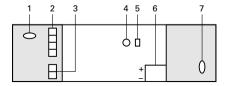
Fig. 2 / Fig. 3

Fig. 2 / dimensions

Fig. 3 / installation

Installation

Attention
Switch off supply voltage !

Remove both outer covers from the device. The device is fixed by means of screws put through the oval holes (cf. fig. 2 and fig. 3, positions 1; 7).

The binary inputs (see fig. 3, pos. 3) are connected to the 4-way screw terminal (see fig. 3, pos. 2). Please observe the connection information given in the "technical data" section.

The connection to the EIB bus is made by means of a 2-pin bus terminal (item no. 6183) which is plugged into the entrance (fig. 3, pos. 6). Please make sure that the polarity of terminals is correct (red = +, grey = -).

Commissioning

Assign physical address

- Connect a PC equipped with the EIBA TOOL software (ETS) to the EIB bus line via an EIB-RS 232 interface.

- Press the programming key (fig. 3, pos. 5) at the binary input 6156: the red programming LED (fig. 3, pos. 4) will become illuminated.

- After the physical address has been programmed, the red LED will go out.

Select / parameterize application

For the available applications and related parameters, please refer to our technical EIB manual.