

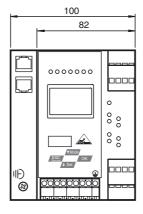


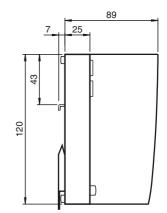






Dimensions





Model number

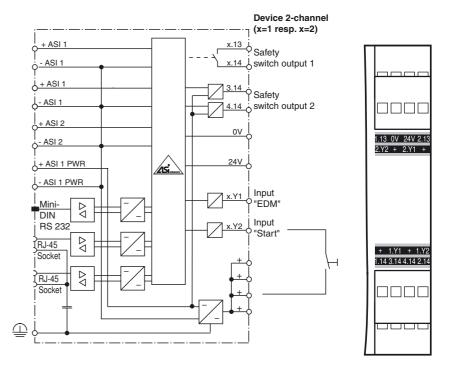
VBG-PN-K30-D-S16

PROFINET Gateway with integrated safety monitor

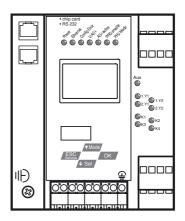
Features

- Gateway and safety monitor in one
- Gateway compliant with AS-Interface specification 3.0
- Connection to PROFINET
- AS-Interface safety monitor with extended range of functions
- Safety requirements acc. to category 4, EN 954-1
- Chip card for storing configuration
- 2 safe output relays and 2 safe electronic outputs

Electrical connection



Indicating / Operating means



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Function

The VBG-PN-K30-D-S16 is an IP20-rated PROFINET gateway with an integral safety monitor and a master according to AS-Interface specification 3.0. The VBG-PN-K30-D-S16 has four inputs and four outputs. The four inputs are used either for extended EDM device monitoring or as start inputs. Two sets of two outputs act as relay outputs and switch output circuits 1 and 2 and, as semiconductor outputs, output circuits 3 and 4. The K30 model is particularly suitable for installation in a control cabinet.

The VBG-PN-K30-D-S16 is a combined fullspecification AS-Interface PROFINET gateway and safety monitor. The product allows a gateway and a safety monitor to be used in a single device.

Two safety relays provide a safe interface to the connected consumers. The AS-Interface 3.0 PROFINET gateways are used to connect AS-I systems to a higher-level PROFI-NET. They act as a master for the AS-I segment and as a slave for the PROFINET. During cyclic data exchange, up to 32 bytes of I/O data (this amount is variable) are transferred as the digital data of an AS-I segment. In addition, analog values as well as the complete command set of the new AS-I specification can be transferred via PROFI-NET using a command interface.

Address assignment, the transfer of the desired configuration and the setting of the PRO-FINET address and baud rate can all be performed using switches. Seven LEDs located on the front panel indicate the current status of the AS-Interface segment. One LED shows the power supply via AUX. A further eight LEDs indicate the status of the inputs and outputs.

If the AS-Interface gateway has a graphical display, the commissioning of the AS-Interface circuit and testing of the connected peripherals can take place completely separately from the commissioning of PROFINET and the programming. Local operation using the graphical display and the four switches allows all the functions covered on the other AS-Interface masters by AS-i Control Tools software to be visualized on the display. An additional RS 232 socket provides a way of exporting data relating to the gateway, network and operation directly from the gateway for extended local diagnosis purposes.

Accessories

VAZ-SW-SIMON+

Software for configuration of K30 Master Monitors/K31 Safety Monitors, incl. connecting cable

PEPPERL+FUCHS

USB-0.8M-PVC ABG-SUBD9 Interface converter USB/RS 232 ENG.xml 216185_ 1-01-11 201 issne: Date Release date: 2011-01-11 11:40

Shock and impact resistance

EN 61131-2:2004

Standards

IEC 61508 und EN 62061 (up to SIL3) EN 13849 (PL e)

Notes

In an AS-Interface network only one device can be operated earth fault detection. If there are many devices in an AS-Interface network, this can lead to the earth fault monitoring response threshold becoming less sensitive.

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