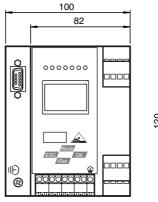


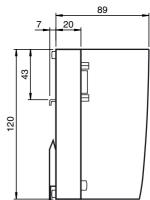






## **Dimensions**





### **Model number**

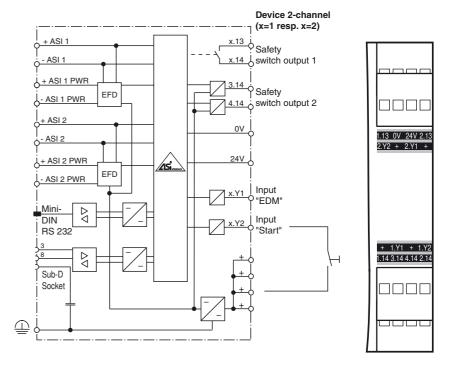
### VBG-PBS-K30-DMD

PROFIBUS Gateway, PROFIsafe for 2 AS-Interface networks

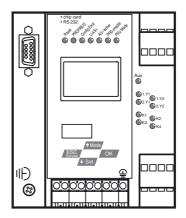
### **Features**

- Gateway and safety monitor in one housing
- Gateway compliant with AS-Interface specification 3.0
- Connection to PROFIBUS DP
- AS-Interface safety monitor with extended range of functions
- Certified up to SIL 3 according to IEC 61508 and EN 62061 and up to PL<sub>e</sub> according to EN 13849
- · Memory card for configuration data
- 2 AS-Interface networks
- 2 safe output relays and 2 safe electronic outputs
- PROFIsafe protocol for centralized and secure higher-level control

## **Electrical connection**



# **Indicating / Operating means**



### **Function**

The VBG-PBS-K30-DMD is a PROFIBUS gateway with a safety monitor controlled via PROFIsafe and a double master according to AS-Interface specification 3.0 with a degree of protection IP20.

The gateway 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 gateway is used to connect AS-Interface systems to a higher-level PROFIBUS. It acts as a master for the AS-Interface segment and as a slave for the PROFIBUS. During cyclic and acyclic data exchange, the AS-Interface functions are provided via PROFIBUS - DP V1. During cyclic data exchange the binary data of an AS-Interface segment is transferred. Analog values as well as the complete command set of the new AS-Interface specification are transferred via PROFIBUS using a command interface.

Configuration of the device can be performed using switches. Seven LED 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. With the graphical display, the commissioning of the AS-Interface circuits and testing of the connected peripherals can take place completely separately from the commissioning of the higher-level network and the programming. Four switches allow all the functions covered on the other AS-Interface masters by AS-i Control Tools software to be visualized on the display. An 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.

The device has a card slot for a memory card for the storage of configuration data.

The redundant power supply guarantees that the double master remains in function and is diagnosticable, when a failure of a power supply unit in one of the two AS-interfaces circles occures. Also communication with the superior field bus is not disturbed by the failure of a power supply.

#### **Accessories**

USB-0.8M-PVC ABG-SUBD9

Interface converter USB/RS 232

#### VAZ-PB-DB9-W

PROFIBUS Sub-D Connector with switchable terminal resistance

#### VAZ-SW-SIMON+

Software for configuration of K30 Master Monitors/K31 and KE4 Safety Monitors

PEPPERL+FUCHS

#### VAZ-SIMON+-R2-1,8M-PS/2

Interface cable for connecting the K30/K31 Safety Monitor to a PC

Storage temperature

-25 ... 85 °C (-13 ... 185 °F)

Mechanical specifications	
Degree of protection	IP20
Mass	800 g
Construction type	Low profile housing , Stainless steel
Approvals and certificates	
UL approval	An isolated source with a secondary open circuit voltage of $\leq 30~V_{DC}$ with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed. UL mark does not provide UL certification for any functional safety rating or aspects of the device.

# **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.