



## Properties

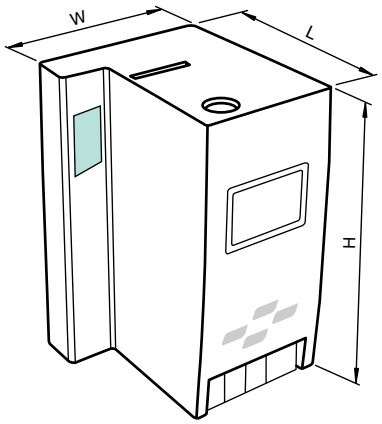
- PROFIBUS, PROFINET and Ethernet/IP versions
- Versions for 1 and 2 supported networks
- Versions with 2 and 4 safe OSSD
- SIL 3 / PIe

## Your Benefit

- A single safety configuration processes safe data from two AS-Interface networks
- Memory card makes device replacement fast and easy
- Sharing of safe data between several gateway/safety controllers enables safety systems with nearly 1000 safe devices

**VBG-PBS-K30-DMD & VBG-PNS-K30-DMD**

- PROFISAFE gateway brings AS-Interface simplicity to PROFISAFE enabled PLC




## Technical Data

*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

| General Data | |
|---|---|
| AS-Interface specification | V3.0 |
| Duplicate address detection | from AS-Interface slaves |
| Switch-on delay | < 10 s |
| Safety Integrity Level (SIL) | SIL 3 |
| Performance level (PL) | PL e |
| $MTTF_d$ | 200 a |
| $B_{10d}$ | 2 E+7 |
| Display | Illuminated graphical LC display for addressing and error messages |
| Interface type | Chip card slot |
| | RS 232, serial<br>Diagnostic Interface |
| Ambient temperature | 0 ... 55 °C (32 ... 131 °F) |
| Protection degree | IP20 |

| Model Number | | VBG-PB-K30-DMD-S16 | VBG-PB-K30-D-S | VBG-PB-K30-D-S16 | VBG-PBS-K30-DMD | VBG-PN-K30-DMD-S16 | VBG-PNS-K30-DMD | VBG-ENX-K30-DMD-S16 |
|---|---|---|---|---|---|---|---|---|
| AS-Interface networks | 1 | | ● | ● | | | | |
| | 2 | ● | | | ● | ● | ● | ● |
| PLC-Functionality | activateable | ● | ● | ● | | ● | | ● |
| Response delay | < 40 ms | ● | ● | ● | | ● | | ● |
| UL File Number | E223772 | ● | ● | ● | | ● | | ● |
| **Upper level network** | | | | | | | | |
| Interface type | RJ-45 | | | | | ● | ● | ● |
| | RS 485 | ● | ● | ● | ● | | | |
| Protocol | Ethernet/IP + MODBUS TCP/IP | | | | | | | ● |
| | PROFIBUS DP V1 | ● | ● | ● | ● | | | |
| | PROFINET according to IEEE 802.3 | | | | | ● | ● | |
| | PROFISAFE | | | | ● | | ● | |
| **Inputs** | | | | | | | | |
| Number/Type | 2 EDM inputs: Inputs for external device monitoring circuits 1 and 2<br>2 Start inputs: Output circuits 1 and 2 | | ● | | | | | |
| | 4 EDM/Start inputs:<br>EDM: Inputs for the external device monitoring circuits<br>Start: start inputs:<br>Static switching current 4 mA at 24 V, dynamic 30 mA at 24 V (T=100 µs) | ● | | ● | ● | ● | ● | ● |
| **Outputs** | | | | | | | | |
| Safety output | Outlet circuits 1 and 2: 2 potential-free contacts, Outlet circuits 3 and 4: 2 PNP transistor outlets | ● | | ● | ● | ● | ● | ● |
| | 2 x 2 output switch elements: Output circuits 1 and 2 | | ● | | | | | |

| Dimensions | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length L [mm] | | | | | 89 | | | |
| Width W [mm] | | | | 100 | | | 110 | |
| Height H [mm] | | | | | 120 | | | |

## Accessories

This and more accessories can be found in chapter 7.6 from page 893
See pages from 974 ... for cordsets
See pages 1074 ... for mounting aids

| | |
|---|---|
| **USB-0,8M-PVC ABG-SUBD9** | Interface converter USB/RS 232 |
| **VAZ-SW-SIMON+** | Software for configuration of K30 Master Monitors/K31 Safety Monitors |
| **VAZ-PB-DB9-W** | PROFIBUS Sub-D Connector with switchable terminal resistance |



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