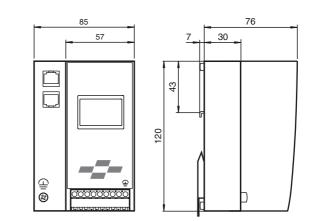
AS-Interface gateway

VBG-PN-K20-DMD



Dimensions



Electrical connection

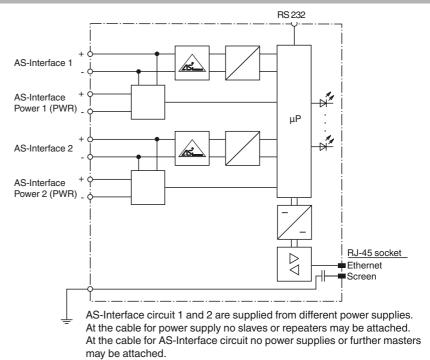
Model number

VBG-PN-K20-DMD

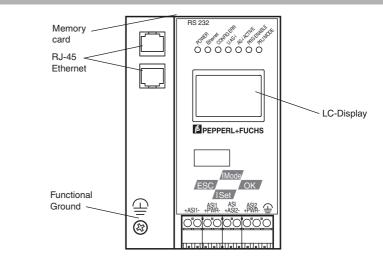
PROFINET Gateway, double master for 2 AS-Interface networks with integrated switch

Features

- Gateway compliant with AS-Interface ٠ specification 3.0
- Connection to PROFINET IO
- Fault diagnosis via LEDs and grafic display
- Easy commissioning by graphic dis-• play
- AS-Interface monitor or extended AS-٠ Interface diagnostic read via display
- Dublicate addressing detection •
- Earth fault detection •
- AS-Interface noise detection
- All AS-Interface functions possible via Ethernet
- Commissioning, locally on the gate-• way or via AS-i Control Tools software
- Ethernet diagnostic interface .
- 2 AS-Interface networks



Indicating / Operating means



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

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AS-Interface gateway

VBG-PN-K20-DMD

Technical data		
General specifications		
AS-Interface specification		V3.0
Duplicate address detection		from AS-Interface slaves
Earth fault detection	EFD	integrated
EMC monitoring		integrated
Diagnostics function		Extended function via dis
UL File Number		E223772
Functional safety related parame	ters	
MTTFd		100 a at 30 °C
Indicators/operating means		
Display		Illuminated graphical LC of
		sages
LED ETHERNET		ethernet active; LED gree
LED AS-i ACTIVE		AS-Interface operation no
LED CONFIG ERR		configuration error; LED r
LED PRG ENABLE		autom. programming; LEI
LED POWER		voltage ON; LED green
LED PRJ MODE		projecting mode active; L
LED U AS-i		AS-Interface voltage; LED
Switch SET		Selection and setting of a
OK button		Mode selection traditiona
Button MODE		Mode selection PRJ-oper
ESC button		Mode selection traditiona
Electrical specifications		
Insulation voltage	Ui	≥ 500 V
Rated operating voltage	U _e	from AS-Interface
Rated operating current	I _e	≤ 200 mA from AS-Interfa
		≤ 200 mA from AS-Interfa
		\leq 270 mA in total
Interface 1		
Interface type		PROFINET I / O device (I
Physical		2 x RJ-45
Protocol		Media Redundancy Proto
Transfer rate		10 MBit/s / 100 MBit/s , A
Interface 2		
Interface type		RS 232, serial
		Diagnostic Interface
Transfer rate		19,2 kBit/s
Interface 3		
Interface type		Chip card slot
Connection		
PROFINET		RJ-45
AS-Interface		removable spring clamp t
Ambient conditions		
Ambient temperature		0 55 °C (32 131 °F)
Storage temperature		-25 85 °C (-13 185 °l
Mechanical specifications		
Degree of protection		IP20
Mass		500 g
Construction type		Low profile housing , Stair
Compliance with standards and ves	directi	
Directive conformity		
EMC Directive 2004/108/EC		EN 61000-6-2:2005, EN 6
Standard conformity		
Electromagnetic compatibility		EN 61000-6-2:2005, EN 6
AS-Interface		EN 50295:1999
Degree of protection		EN 60529:2000
Shock and impact resistance		EN 61131-2:2004
- · ·		

splay display for addressing and error mesen ormal; LED green red D green ED yellow D green a slave address al-graphical/confirmation eration/save configuration/cursor al-graphical/cancel ace circuit 1 ace circuit 2 IRT) ocol (MRP) Automatic baud rate detection terminals inless steel 61000-6-4:2007 61000-6-4:2007 EN 61131-2:2004 EN 61000-6-2:2005 EN 61000-6-4:2007

Notes

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Standards

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.

Function

The VBG-PN-K20-D is a PROFINET Gateway with two AS-Interface masters in accordance with AS-Interface Specification 3.0. The gateway is used for the connection of AS-Interface systems to the higher level PROFINET controller. The variant in an IP20 stainless steel housing is particularly suitable for use in the control cabinet. The master is supplied from the AS-Interface cable.

On the AS-Interface gateway with graphics display, the commissioning of the AS-Interface circuit and also the test of the connected peripherals can be completely separated from the commissioning of the PROFINET and the programming. All the options available on the AS-Interface can be addressed via Ethernet. Local operation using the graphics displays and the 4 buttons enable all the functions to be represented on the display, which are covered by the other AS-Interface masters via the AS-i Control Tools software. An additional RS 232 socket provides the option of reading out data via gateway, network and function, direct from the gateway in the context of an extended local diagnosis. 7 LEDs, which are mounted on the front, indicate the current status of the AS-Interface network.

Every PROFINET gateway is supplied with a unique MAC-ID and supports the assignment of an IP address statically (via keypad) and dynamically (DHCP, Dynamic Host Configuration Protocol).

Accessories

VAZ-SW-ACT32

Full version of the AS-I Control Tools including connection cable

USB-0,8M-PVC ABG-SUBD9

Interface converter USB/RS 232

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