AS-Interface gateway

VBG-PB-K20-D-EV1



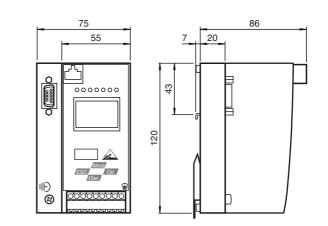
Model number

VBG-PB-K20-D-EV1

PROFIBUS gateway

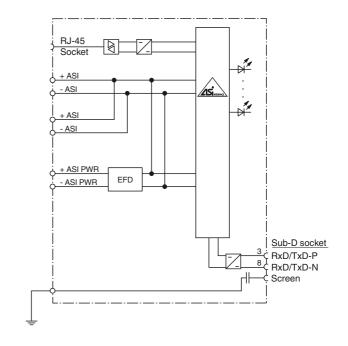
Features

- Connection to PROFIBUS DP ٠
- PROFIBUS DP V1 support •
- Easy commissioning and fault diagno-٠ sis via LEDs and graphic display
- Dublicate addressing detection ٠
- Earth fault detection •
- AS-Interface noise detection .
- Ethernet diagnostic interface

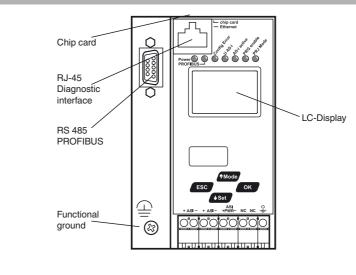


Electrical connection

Dimensions



Indicating / Operating means





Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 Pepperl+Fuchs Group

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Technical data

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eennical uata		
eneral specifications		
AS-Interface specification		V3.0
PLC-Functionality		activa
Duplicate address detection		from
Earth fault detection	EFD	integ
EMC monitoring		integ
Diagnostics function		Exter
UL File Number		E223
idicators/operating means		
Display		Illumi
		sages
LED PROFIBUS		PRO
LED AS-i ACTIVE		AS-In
LED CONFIG ERR		config
LED PRG ENABLE		autor
LED POWER		voltag
LED PRJ MODE		proje
LED U AS-i		AS-In
Button		4
Switch SET		Selec
OK button		Mode
Button MODE		Mode
ESC button		Mode
lectrical specifications		
Insulation voltage	Ui	≥ 500
Rated operating voltage	Ue	from
Rated operating current	l _e	appro
nterface 1		
Interface type		RS-4
Protocol		PRO
Transfer rate		9.6 kl
nterface 2		
Interface type		RJ-4
		Progr
nterface 3		
Interface type		Chip
onnection		
PROFIBUS		Sub-I
Ethernet		RJ-4
AS-Interface		spring
irective conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 6
tandard conformity		
Electromagnetic compatibility		EN 6
Degree of protection		EN 6
Fieldbus standard		PRO
AS-Interface		EN 6
mbient conditions		
Ambient temperature		0 5
Storage temperature		-25
lechanical specifications		_0
		IP20
Degree of protection Material		11 20
Housing		Stain
Mass		460 g
Construction type		Low p
		-0w

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.

ateable AS-Interface slaves rated irated nded function via display 3772 inated graphical LC display for addressing and error mes-FIBUS master detected: LED green nterface operation normal; LED green iguration error; LED red m. programming; LED green ge ON; LED green ecting mode active; LED yellow nterface voltage; LED green ction and setting of a slave address e selection traditional-graphical/confirmation e selection PRJ-operation/save configuration/cursor e selection traditional-graphical/cancel οv AS-Interface ox. 200 mA from AS-Interface

185 FIBUS in accordance with IEC 61158/IEC 61784-1 Bit/s / 12 MBit/s , Automatic baud rate detection

5 Ethernet ramming and diagnostics interface

card slot

D interface ng terminals, removable

2026-2:2013 EN 61000-6-2:2005, EN 61000-6-4:2007

1000-6-2:2005, EN 61000-6-4:2007 60529:2000 FIBUS in accordance with IEC 61158/IEC 61784-1 62026-2:2013

55 °C (32 ... 131 °F) .. 85 °C (-13 ... 185 °F)

less steel profile housing

Function

The VBG-PB-K20-D-EV1 is a PROFIBUS gateway according to AS-Interface specification 3.0.

The design of the K20 in stainless steel with IP20 is particularly suited for use in switching cabinets for snap on mounting on the 35 mm mounting rail.

The gateway in accordance with the AS-Interface specification V 3.0 is used to connect AS-Interface systems to a higher-level net. It acts as a master for the AS-Interface segment and as a slave for the higher-level net. During cyclic data exchange, the digital data of an AS-Interface segment is transferred.

The address allocation and acceptance of the target configuration can be achieved via the kevs. 7 LEDs fitted to the front panel indicate the actual state of the AS-Interface branch.

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. With the 4 switches, all functions can be controlled and visualized on the display.

The port provides a way of exporting data relating to the gateway, network and operation directly from the gateway for extended local diagnosis purposes.

Via the RJ-45 Ethernet diagnostic interface, up to 31 devices can establish a secure cross-communication.

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

SPS Functionality

Optionally the gateway is also available with PLC functionality. Therefor you can order a code key VAZ-CTR3 additionally. The programming language is ANSI-C. A compiler is available as plug-in for ECLIPSE environment.

Accessories

VAZ-SW-ACT32

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

VAZ-PB-SIM **PROFIBUS** master simulator

VAZ-PB-DB9-W **PROFIBUS Sub-D Connector with** switchable terminal resistance

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