

Model number

VBG-PB-K20-D-BV

PROFIBUS gateway

Features

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

Function

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

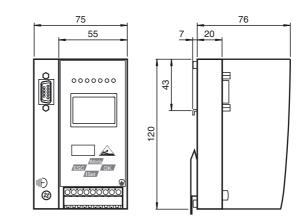
The design of the K20 in stainless steel with IP20 is particularly suited for use in switching cabinets for snap on mounting on the 35 mm mounting rail.

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. Analog values as well as the complete command set of the new AS-Interface specification are transferred using a command interface.

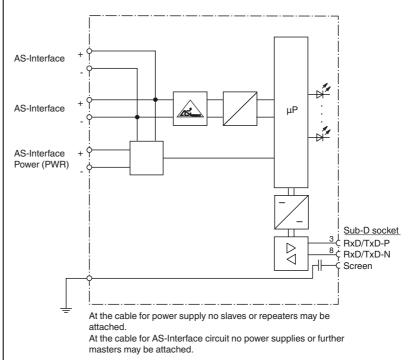
The address allocation and acceptance of the target configuration can be achieved via the keys. 7 LEDs fitted to the front panel indicate the actual state of the AS-Interface branch.

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.

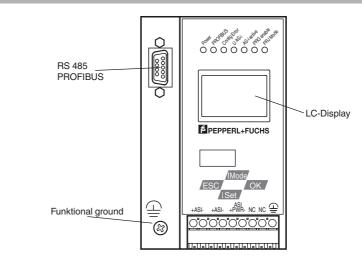
Dimensions



Electrical connection



Indicating / Operating means



Pepperl+Fuchs Group

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

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AS-Interface gateway

VBG-PB-K20-D-BV

Full version of the AS-I Control Tools in-

Accessories

VAZ-PB-SIM

VAZ-PB-DB9-W

VAZ-SW-ACT32

cluding connection cable

PROFIBUS master simulator

USB-0,8M-PVC ABG-SUBD9

Interface converter USB/RS 232

PROFIBUS Sub-D Connector with switchable terminal resistance

Technical data

General specifications		
AS-Interface specification		V3.0
Earth fault detection	EFD	integrated
EMC monitoring		integrated
Diagnostics function		Extended function via display
UL File Number		E223772
Indicators/operating means		
Display		Illuminated graphical LC display for addressing and error messages
LED PROFIBUS		PROFIBUS master detected; LED green
LED AS-i ACTIVE		AS-Interface operation normal; LED green
LED CONFIG ERR		configuration error; LED red
LED PRG ENABLE		autom. programming; LED green
LED POWER		voltage ON; LED green
LED PRJ MODE		projecting mode active; LED yellow
LED U AS-i		AS-Interface voltage; LED green
Button		4
Switch SET		Selection and setting of a slave address
OK button		Mode selection traditional-graphical/confirmation
Button MODE		Mode selection PRJ-operation/save configuration/cursor
ESC button		Mode selection traditional-graphical/cancel
Electrical specifications		
Insulation voltage	Ui	≥ 500 V
Rated operating voltage	Ue	from AS-Interface
Rated operating current	l _e	approx. 200 mA from AS-Interface
Interface 1		
Interface type		RS-485
Protocol		PROFIBUS in accordance with IEC 61158/IEC 61784-1
Transfer rate		9.6 kBit/s / 12 MBit/s , Automatic baud rate detection
Connection		
PROFIBUS		Sub-D interface
AS-Interface		spring terminals, removable
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 62026-2:2013 EN 61000-6-2:2005, EN 61000-6-4:2007
Standard conformity		
Degree of protection		EN 60529:2000
AS-Interface		EN 62026-2:2013
Ambient conditions		
Ambient temperature		0 55 °C (32 131 °F)
Storage temperature		-25 85 °C (-13 185 °F)
Mechanical specifications		
Degree of protection		IP20
Material		1 20
Housing		Stainless steel
Mass		460 g
Construction type		Low profile housing, Stainless steel
Constituction type		Low prome nodality, orallicas area

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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