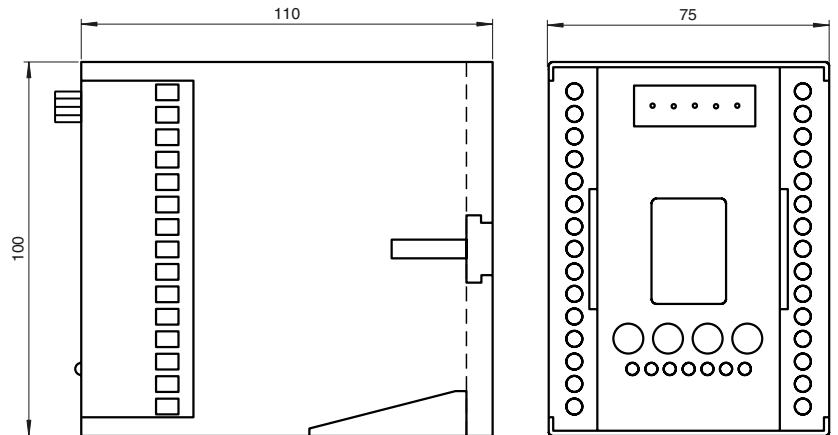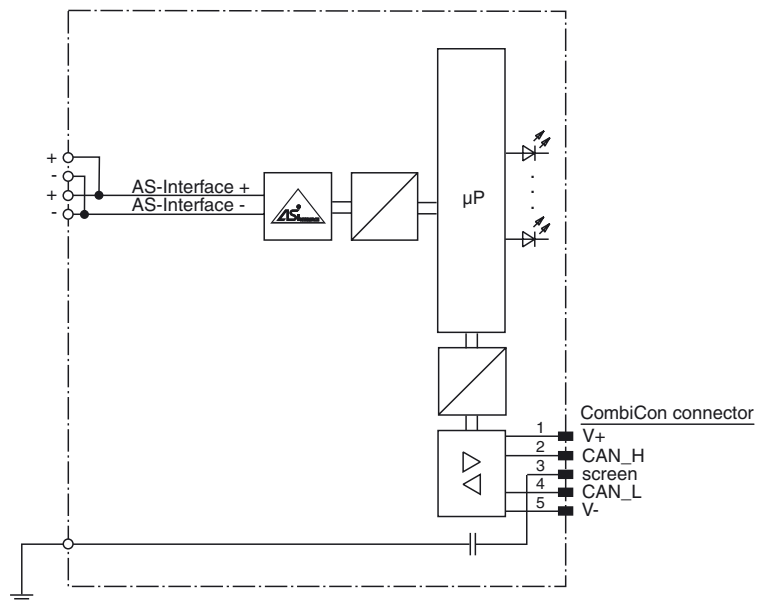## Model number

VBG-DN-K5-D

DeviceNet Gateway

Features

- Gateway according to AS-Interface specification 2.1 for up to 62 units
- Power supply from DeviceNet and AS-Interface
- Programmable slave addresses
- Display of detected slaves
- Fault diagnosis via LEDs and grafic display
- Easy commissioning by graphic display
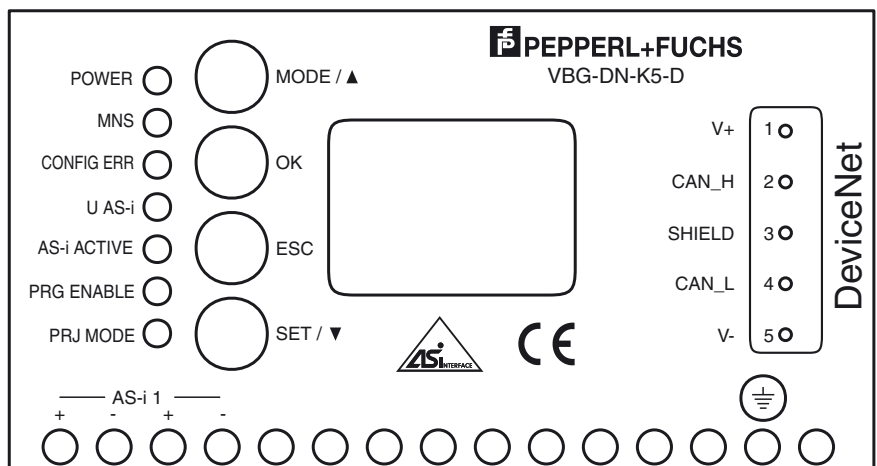- AS-Interface monitor or extended AS-Interface diagnostic read via display

Dimensions

110

75

100

Electrical connection

AS-Interface +
AS-Interface -

µP

CombiCon connector
1 V+
2 CAN_H
3 screen
4 CAN_L
5 V-

Indicating / Operating means

POWER
MNS
CONFIG ERR
U AS-i
AS-i ACTIVE
PRG ENABLE
PRJ MODE

MODE / ▲
OK
ESC
SET / ▼

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VBG-DN-K5-D

V+ 1
CAN_H 2
SHIELD 3
CAN_L 4
V- 5

DeviceNet

AS-i 1
+ - + -

Subject to modifications without notice

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1

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Technical data

General specifications

AS-Interface specification	V2.11
PLC-Functionality	none
Diagnostics function	Extended function via display
UL File Number	E223772

Indicators/operating means

Display	Graphical LC display for addressing and error messages
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
LED MNS	Module/net status; LED green/red
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	U_i	≥ 500 V
Rated operational voltage	U_e	from AS-Interface
Rated operational current	I_e	DeviceNet ≤ 100 mA; AS-Interface ≤ 200 mA

Interface

Protocol	DeviceNet

Connection

AS-Interface	screw terminals
DeviceNet	5-pin CombiCon connector according to DeviceNet specification

Ambient conditions

Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)

Mechanical specifications

Protection degree	IP40 (housing), IP20 (terminals)
Mass	420 g
Construction type	Low profile housing , plastic

Compliance with standards and directives

Standard conformity	
Protection degree	DIN 40050

Function

The VBG-DN-K5-D is a Gateway for the DeviceNet. The gateway is a 100 % DeviceNet-Slave (Group 2 Slave) and as a listed product can be addressed directly via the DeviceNet device manager. Through collaboration with Allen-Bradley it is ensured, that the gateway has been fully integrated into the DeviceNet software and can be simply connected to an existing DeviceNet network in the plug-and-play method.

Communication between the AS-Interface and the DeviceNet is achieved via the gateway without additional programming expense. Connection of the AS-Interface master to the DeviceNet is achieved via the 5-pin CombiCon connector in accordance with the DeviceNet specification. Self-opening screw terminals are available for all other connections.

Addresses can be assigned to the AS-Interface slaves and the set configuration can be accepted using the buttons provided. 7 LEDs, which are situated on the front panel, indicate the current status of the AS-Interface network.

On the AS-Interface gateway with graphic display the commissioning of the AS-Interface circuit and a test of the connected peripherals can be completely separated from the commissioning of the DeviceNet. On site operation using the graphic display and the 4 buttons enable all functions to be represented on the display that are covered by the other AS-Interface masters via the AS-i Control Tools software.

Accessories

VAZ-DN-SIM
DeviceNet master simulator

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