



Model number

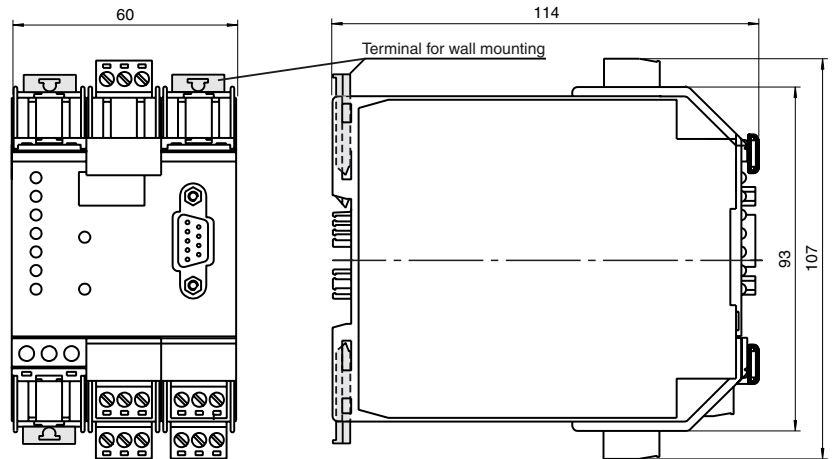
VAG-PB-KF-R4

PROFIBUS gateway cabinet module

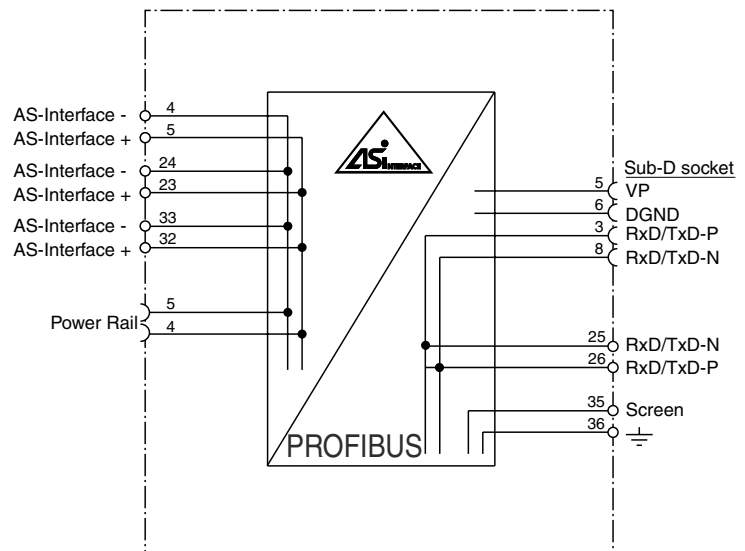
Features

- Connection to PROFIBUS DP
- Commissioning, without PROFIBUS communication
- All AS-Interface functions possible via PROFIBUS
- PLC functionality
- Power supply from AS-Interface
- Coded, removable terminals
- Error diagnostics via LEDs and LCD
- Parameterization and monitor software
- Power Rail connection

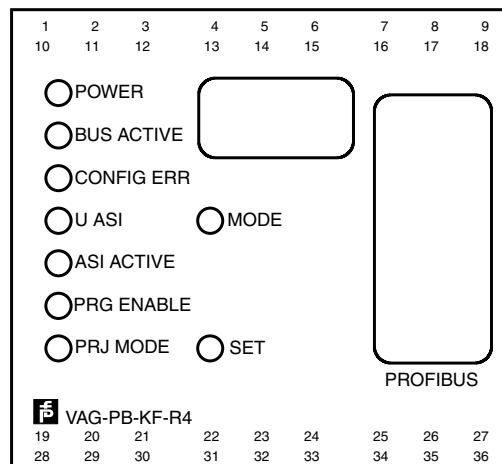
Dimensions



Electrical connection



Indicating / Operating means



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Subject to modifications without notice

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Technical data**General specifications**

AS-Interface specification	V2.0
PLC-Functionality	integrated
Diagnostics function	integrated

Indicators/operating means

Display	2-digit LC Display for address and error message
LED BUS ACTIVE	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 PRG MODE	projecting mode active; LED yellow
LED U AS-i	AS-Interface voltage; LED green
Switch SET	Selection and setting of a slave address
Button MODE	Mode selection/save configuration

Electrical specifications

Insulation voltage	U_i	≥ 500 V
Rated operational voltage	U_e	from AS-Interface
Rated operational current	I_e	≤ 180 mA from AS-Interface

Interface

Interface type	RS 485
Protocol	PROFIBUS
Transfer rate	9.6; 19.2; 44.44; 93.95; 187.5; 500; 1500 kBit/s self-synchronizing

Connection

PROFIBUS	RS 485 Interface and removable coded terminals
AS-Interface	removable coded terminals, Power Rail

Ambient conditions

Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Storage temperature	-15 ... 75 °C (5 ... 167 °F)

Mechanical specifications

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

Function

The VAG-PB-KF-R4 is a complete PROFIBUS master with an IP20 rating designed for use in cabinets. The KF cabinet housing of the PROFIBUS Gateway offers all the advantages of the serial master, such as Power Rail connections and coded, removable terminals.

Two operating modes are available for the exchange of data across PROFIBUS DP: standard and expanded. In standard mode the gateway uses a fixed I/O configuration so that it can be put into operation without additional parameter assignment. In expanded mode the data structure can be optimised, enabling the user to define the data size sent to the PROFIBUS master.

Two push buttons are used for address assignment, acceptance of the desired configuration and for adjustment of the PROFIBUS address and baud rate. In configuration mode, all detected AS-Interface slaves are displayed on the 2-digit LCD. In normal operation, the LCD is blank unless the master detects a faulty AS-Interface slave. There are 7 LEDs on the front panel, showing the current status of the AS-Interface line.

PLC Functionality

The VAG-PB-KF-R4 provides 16 kByte program memory, 8 kByte RAM, 1024 counters and 1024 timers for PLC functionality. These capacities suffice to process data on the AS-Interface. Thus the master can also be operated in "stand-alone" mode. The program processing time is 2 ms per 1000 word commands. The programming language is based on the STEP5® programming language. The AS-Interface CTRL functions (upload, download, start, stop, read and write internal memory) are available in expanded mode.

Accessories**VAZ-SW-ACT32**

AS-Interface software

VAZ-PB-SIM

PROFIBUS master simulator

UPR-05

Universal Power Rail

UPR-E

End cap