





# **Model number**

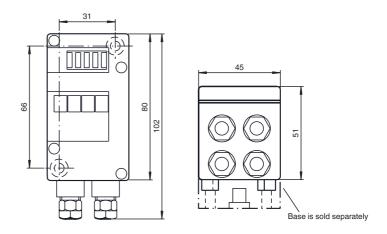
## VAN-G4-PE-4A

AS-Interface power extender

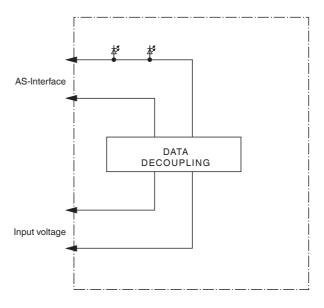
## **Features**

- Up to 4 A output load
- Multiple AS-Interface networks can be operated through a single power stage
- G4 housing with screwed connection
- Protection degree IP67
- LEDs for display of AS-Interface voltage

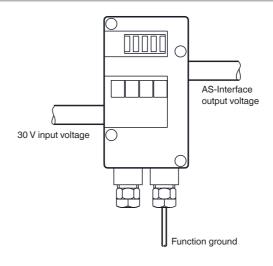
# **Dimensions**



## **Electrical connection**



# **Indicating / Operating means**



Technical data		
General specifications		
UL File Number		E223772
Indicators/operating means		
LED U AS-i		AS-Interface voltage on the output is displayed in two stages: AS-Interface voltage > 28 V; LED green AS-Interface voltage> 26 V; LED green
Electrical specifications		
Insulation voltage	Ui	≥ 500 V
Rated operating voltage	U <sub>e</sub>	30 V DC
Rated operating current	l <sub>e</sub>	4 A at 30 V
Input		
Line fault detection		6 A self resetting fuse
Output		
Voltage		29.5 31.6 V DC
Ambient conditions		
Ambient temperature		0 70 °C (32 158 °F)
Storage temperature		-25 85 °C (-13 185 °F)
Mechanical specifications		
Protection degree		IP67
Connection		standard AS-Interface EEMS base, i. e. cable piercing method screwed connection M12 x 1,5 and cage-clamp terminals
Material		
Housing		PA 6 GF30
Mass		120 g
Compliance with standards and ves	directi-	
Standard conformity		
Electromagnetic compatibility		EN 61000-6-2, EN 61000-6-4
Protection degree		EN 60529

## **Function**

The maximum cable length in an AS-Interface line is 100 m. There is often a great distance to the modules in the field, when the power supply unit is located in the cabinet. When an AS-Interface power extender is used, the distance between the power supply unit and the power extender is not included in the calculation of the bus length. Instead of an AS-Interface power supply unit, a standard power supply unit with an output voltage of 30 V in accordance with AS-Interface specifications can be used. The AS-Interface master and slaves are only usable on the side of the power extender opposite to the power supply unit (AS-Interface output).

The AS-Interface power extender is located in an IP67 rated field housing. Small decentralized AS-Interface networks can easily be arranged together with IP67 rated AS-Interface gateways.

Depending on the lead resistance and the current, a voltage drop between the power supply unit and the AS-Interface power extender occurs. The AS-Interface power extender indicates the AS-Interface voltage on the output, in two stages (see technical data) by means of two LEDs. It has to be ensured that actuators are supplied with the permissible voltage tolerance of 24 V +10%/-15%, as is the case with all AS-Interface circuits. A ruleof-thumb formula for the AS-Interface cable length relative to the AS-Interface voltage is: AS-Interface voltage > 28 V: approx. 80 m cable length,

AS-Interface voltage > 26 V: approx. 60 m cable length.

#### Note:

The AS-Interface power extender contains a data decoupling for a maximum current of 4 A at 30 V AS-Interface voltage.

# **Accessories**

### VAZ-G4-B

Blind plug PG7

#### VAR-G4F

AS-Interface Advanced Repeater

## VAZ-G4-B1

Blind plug M12

#### **AS-Interface Power Calculator**

AS-Interface Power supply and network checking utility

## **Matching system components**

#### U-G1FF

AS-Interface module mounting base for connection to flat cable (AS-Interface and external auxiliary power)

## U-G1PP

AS-Interface module mounting base for connection to round cable (AS-Interface and external auxiliary power)

**PEPPERL+FUCHS**