7







## Model number

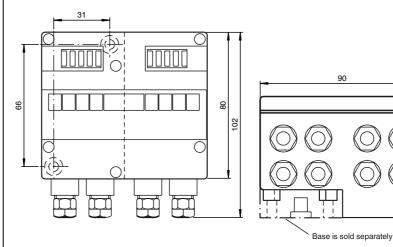
### VAA-4E4A-G4-ZE/E2

G4 module IP65 4 inputs (PNP) and 4 electronic outputs

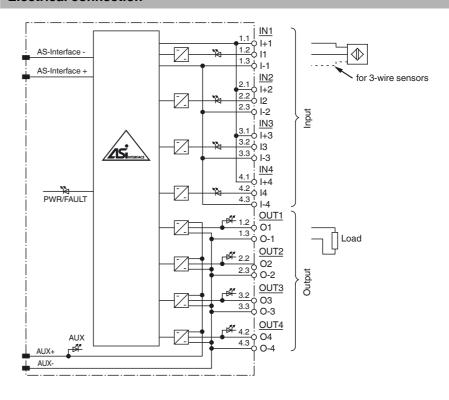
### **Features**

- · Degree of protection IP65
- Flat or round cable connection (via standardized EEMS base, not included with delivery)
- Cable piercing method for flat cable
- · Communication monitoring, turn-off
- Inputs for 2- and 3-wire sensors
- Power supply of outputs from the external auxiliary voltage
- Power supply of inputs from the module
- Function display for bus, ext. auxiliary voltage, inputs and outputs
- · Monitoring of sensor overloads

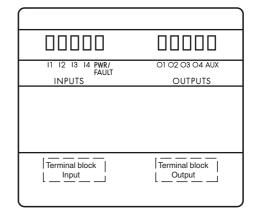
# **Dimensions**



# **Electrical connection**



# **Indicating / Operating means**



# **Function**

The AS-Interface Module VAA-4E4A-G4-ZE/E2 has 4 inputs and 4 outputs. Both 2-wire and 3-wire sensors and also mechanical contacts can be connected to the inputs. The sensors are supplied from the module. The outputs are electronic, which can be loaded to a max. 24 V DC and 1 A per output.

the G4 Module is particularly suitable for harsh field conditions. The connections to the sensors/actuators are made via cable glands and cage spring terminals. This makes the installation particularly user-friendly. Preaddressing can be carried out by plugging the module directly into the VBP-HH1 hand-held programming device adapter.

An LED is provided for each channel on the top of the module to indicate the current switching status. Communication monitoring is integrated in the module. In the event of faults on the bus the monitoring system switches off the current to the outputs.

Connection the AS-Interface transfer cable and the external 24 V DC supply can be achieved by means of flat or round cable. If the AS-Interface flat cable is used, the U-G1FF base component is required. The contact with the two cables is made via the AS-Interface-standardised EEMS interface, i. e. by means of the insulation penetration techni-

If a round cable is used, the U-G1PP base component is required. This base also provides the option of connecting both the AS-Interface cable and the external power sup-

#### Note:

The device features communication monitoring. When this is active, it switches off the power to the outputs when no communication has occurred on the AS-Interface cable for more than 40 ms.

In the event of overloading of the internal input power supply or output supply, a signal is communicated to the AS-Interface master via the "Peripheral error" function. Communication via the AS-Interface remains uninterrupted.

#### **Accessories**

# VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

# VBP-HH1-V3.0

AS-Interface Handheld

#### VAZ-G4-B1

Blind plug M12

# **Matching system components**

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

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

PEPPERL+FUCHS

188589\_eng.xml

F

input

IN1

IN2

IN3

IN<sub>4</sub>

communication monitoring

maintain their condition

-25 ... 60 °C (-13 ... 140 °F)

-25 ... 85 °C (-13 ... 185 °F)

85 % . noncondensing

For indoor use only

≤ 2000 m above MSL

not used

not used

not used

fails, the outputs are de-energised

output

OUT1

OUT2

OUT3

OUT4

P0 = 1 (default settings), monitoring = ON, i.e. if communication

P0 = 0, monitoring = OFF, if communication fails, the outputs

ID2 code

D0

D1

D2

D3

P1

P2

P3

Altitude

**Ambient conditions** 

Ambient temperature

Storage temperature

Relative humidity

Climatic conditions

Data bits (function via AS-Interface)

Parameter bits (programmable via AS-i)

Pollution degree	3
Mechanical specifications	
Degree of protection	IP65
Connection	cable piercing method or terminal compartment yellow flat cable/black flat cable or standard round cable inputs/outputs:M12 x 1.5 cable glands and cage tension spring terminals
Material	
Housing	PA 6 GF30
Mass	350 g
Tightening torque, housing screws	0.8 Nm
Mounting	DIN rail or screw mounting

### **Notes**

Do not connect inputs and outputs, which are supplied via the module from AS-interface or via auxiliary power, with power supply and signal circuits with external potentials.