







Model Number

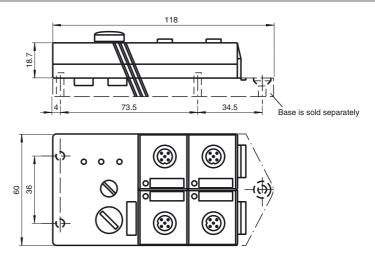
VAA-4E-G2-ZA0

G2 flat module 4 inputs (NPN)

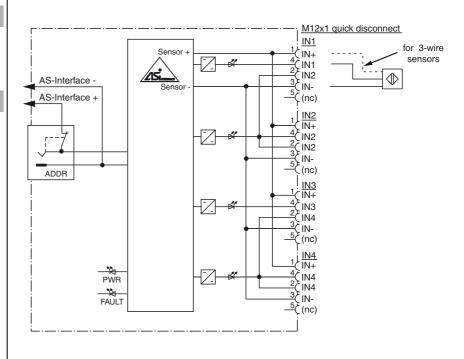
Features

- AS-Interface certificate
- Protection degree IP67
- Addressing jack
- Flat cable connection with cable piercing technique, variable flat cable guide
- Inputs for 2-, 3-, and 4-wire sensors
- Power supply of inputs from the module
- · Function display for bus and inputs
- · Monitoring of sensor overloads

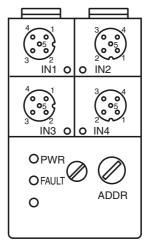
Dimensions



Electrical connection



Indicating / Operating means



Technical data General specifications Slave type Standard slave UL File Number E87056 Indicators/operating means LED FAULT error display; LED red red: communication error or address is 0 red flashing: overload of sensor supply LED PWR AS-Interface voltage; LED green LED IN switching state (input); 4 LED yellow **Electrical specifications** Protection class Rated operational voltage Ue 26.5 ... 31.6 V from AS-Interface Rated operational current ≤ 40 mA (without sensors) / max. 240 mA I_e Number/Type 4 inputs for 2- or 3-wire sensors (NPN), DC alternative 2 inputs for 4-wire sensors (NPN), DC Supply from AS-Interface Voltage 21 ... 31 V Current loading capacity \leq 200 mA (T_B \leq 40 °C), \leq 150 mA (T_B \leq 60 °C), short-circuit protected ≤ 8 mA (limited internally) Input current Switching point 0 (unattenuated) < 1.5 mA 1 (attenuated) ≥ 4.5 mA **Programming instructions** Profile S-0.1 IO code 0 ID code Data bits (function via AS-Interface) input output D0 IN1 D1 IN₂ D2 IN3 IN4 D3 Parameter bits (programmable via AS-i) function PΩ not used P1 not used P2 not used P3 not used **Ambient conditions** Ambient temperature -25 ... 60 °C (248 ... 333 K) -25 ... 85 °C (248 ... 358 K) Storage temperature

Notes

Mass

Mounting

Mechanical specifications

Protection degree

Connection

For 4-wire sensors, it is only possible to use plug-in slot IN1 or IN3 for inputs 1+2 or 3+4 (jumpered internally).

Mounting base

100 g

IP67 according to EN 60529

flat cable yellow inputs: M12 round connector

cable piercing method

Function

The VAA-4E-G2-ZA0 is an AS-Interface coupling module with 4 inputs. Mechanical contacts (e. g. push buttons) as well as 2-, 3- and 4-wire sensors can be connected to the inputs.

The IP67 flat module features an integrated addressing jack and is ideal for applications in the field.

Sensors are connected via M12 x 1 screw connections. The current switching state of each channel is indicated by an LED. Similarly, an LED is available to monitor the AS-Interface communication and the indication that the module has the address 0.

The input is monitored for short circuits. In a failure case, the module disconnects from the AS-Interface and an error is indicated.

The U-G3FF mounting base is used as a standard connection to the AS-Interface. The specially designed base enables the flat cable to be contacted from both sides. This means, for example, that 90° curves can be laid with very tight radii (variable flat cable guide). If input and output modules are used in an application, the flat cable for the external power supply can be placed in the base of the module, since the module does not access this line. The advantage is that both flat cables can be placed in parallel without destroying the module due to a wrong connection.

Note:

The mounting base for the module is sold separately.

Accessories

VBP-HH1-V3.0

AS-Interface Handheld

VAZ-PK-1,5M-V1-G

Connection cable module/hand-held programming device

VAZ-FK-ED-G2

AS-Interface end seal

U-G3FF

AS-Interface module mounting base