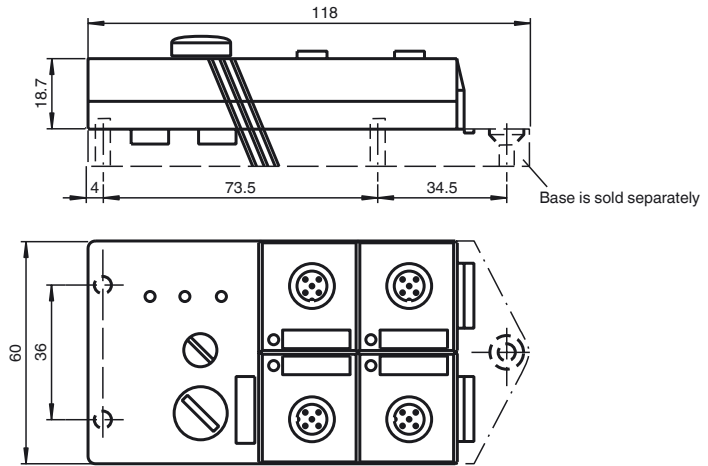
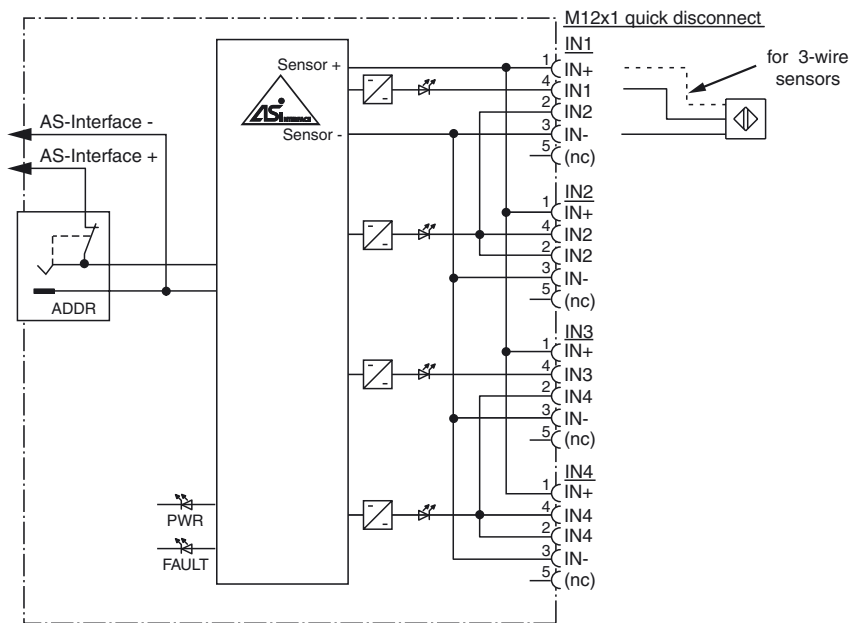




Dimensions



Electrical connection



Model number

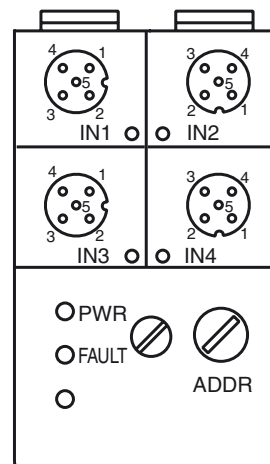
VAA-4E-G2-ZA0

G2 flat module
4 inputs (NPN)

Features

- AS-Interface certificate
- Degree of protection 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

Indicating / Operating means



Release date: 2019-01-09 10:19 Date of issue: 2019-01-09 107882_eng.xml

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

Rated operating voltage	U_e	26.5 ... 31.6 V from AS-Interface
Rated operating current	I_e	≤ 40 mA (without sensors) / max. 240 mA
Protection class		III

Input

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	≤ 200 mA ($T_B \leq 40^\circ\text{C}$), ≤ 150 mA ($T_B \leq 60^\circ\text{C}$), short-circuit protected
Input current	≤ 8 mA (limited internally)
Switching point	
0 (unattenuated)	≤ 1.5 mA
1 (attenuated)	≥ 4.5 mA

Programming instructions

Profile	S-0.1
IO code	0
ID code	1

Data bits (function via AS-Interface)	input	output
D0	IN1	-
D1	IN2	-
D2	IN3	-
D3	IN4	-

Parameter bits (programmable via AS-i) function

P0	not used
P1	not used
P2	not used
P3	not used

Ambient conditions

Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)

Mechanical specifications

Degree of protection	IP67 according to EN 60529
Connection	cable piercing method flat cable yellow inputs: M12 round connector
Mass	100 g
Mounting	Mounting plate

Notes

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

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-KIT**

AS-Interface Handheld with accessory

VBP-HH1-V3.0

AS-Interface Handheld

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

Adapter cable module/hand-held programming device

VAZ-FK-ED-G2

AS-Interface end seal for G2 modules

Matching system components**U-G3FF**

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