



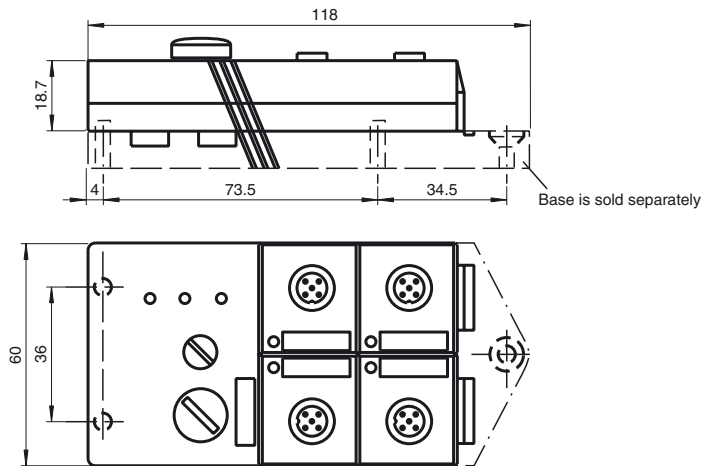
**Model Number**

**VAA-4E-G2-ZE**  
G2 flat module  
4 inputs (PNP)

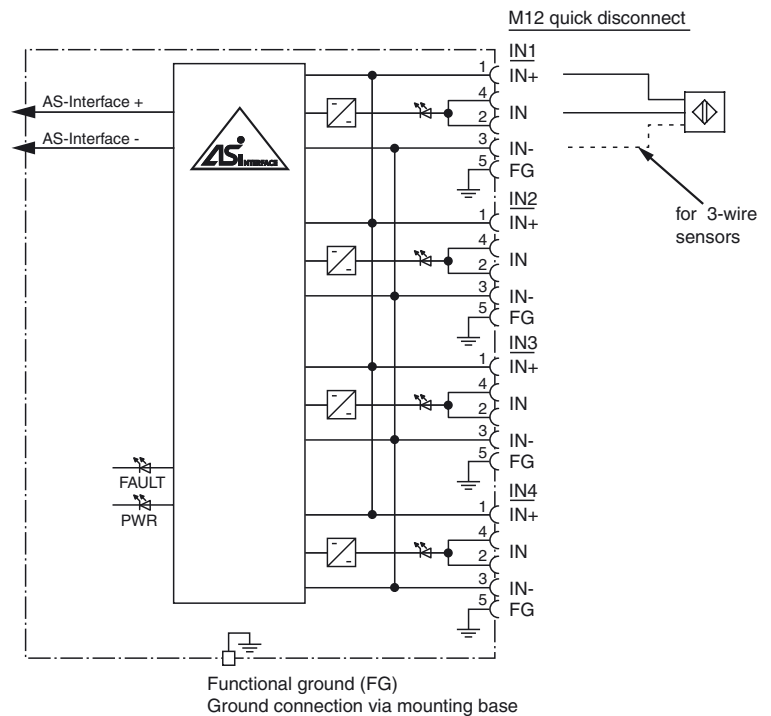
**Features**

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

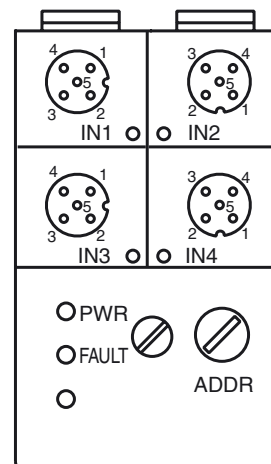
**Dimensions**



**Electrical connection**



**Indicators / Operating means**



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Subject to modifications without notice

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**Technical data****General specifications**

Slave type	Standard slave
AS-Interface specification	V2.1
Required master specification	≥ V2.0
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	III
Rated operational voltage	$U_e$ 26.5 ... 31.6 V from AS-Interface
Rated operational current	$I_e$ ≤ 40 mA (without sensors) / max. 240 mA

**Input**

Number/Type	4 inputs for 2- or 3-wire sensors (PNP), DC
Supply	from AS-Interface
Voltage	21 ... 31 V
Current loading capacity	≤ 200 mA ( $T_B \leq 40 \text{ °C}$ ), ≤ 150 mA ( $T_B \leq 60 \text{ °C}$ ), 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-0.0
IO code	0
ID code	0

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 (248 ... 333 K)
Storage temperature	-25 ... 85 °C (248 ... 358 K)

**Mechanical specifications**

Protection degree	IP67
Connection	cable piercing method flat cable yellow inputs: M12 round connector
Mass	100 g
Mounting	Mounting base

**Compliance with standards and directives**

Standard conformity	
Protection degree	EN 60529:2000

**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.

**Function**

The VAA-4E-G2-ZE is an AS-Interface coupling module with 4 inputs. Mechanical contacts (e. g. push buttons) and 2- and 3-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.

The 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