







Model number

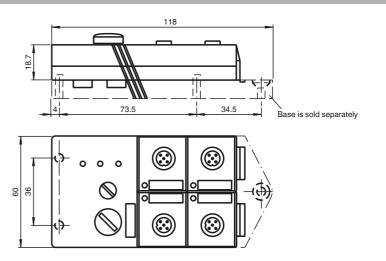
VBA-4E-G2-ZAJ-Y241077

G2 flat module 4 inputs (PNP)

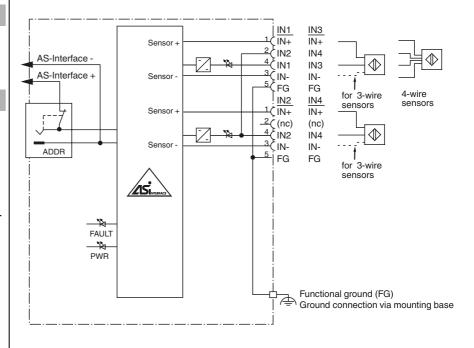
Features

- Ideal for applications that require a high degree of vibration resistance
- AS-Interface certificate
- Communication monitoring
- Function display for bus and inputs
- Detection of overload on sensor supply

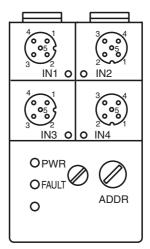
Dimensions



Electrical connection



Indicating / Operating means



Technical data			
General specifications			
Slave type		A/B slave	
AS-Interface specification		V2.1	
Required master specification		≥ V2.0	
UL File Number		E223772	
ndicators/operating means		" 150	
LED FAULT		error display; LED red red: communication error or red flashing: overload of ser	
LED PWR		AS-Interface voltage; LED g	reen
LED IN		switching state (input); 4 LE	D yellow
Electrical specifications			
Rated operating voltage U	~	26.5 31.6 V from AS-Inter	face
Rated operating current I _e		≤ 40 mA (without sensors) /	max. 240 mA
Protection class		III	
Surge protection		U _e : Over voltage category II (PELV)	I, safe isolated power supplies
nput		(I LLV)	
Number/Type		4 inputs for 2- or 3-wire sens option 2 inputs for 4-wire se	
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), over ted	rload-proof and short-circuit protec
Input current		≤ 8 mA (limited internally)	
Switching point		according to DIN EN 61131	-2 (Type 2)
0 (unattenuated)		≤ 2 mA	_ (.,, po _,
1 (attenuated)		≥ 4 mA	
Directive conformity			
Electromagnetic compatibility			
Directive 2014/30/EU		EN 62026-2:2013	
Standard conformity			
Degree of protection		EN 60529:2000	
Input		EN 61131-2:2007	
AS-Interface		EN 62026-2:2013	
Noise immunity		EN 61000-6-2:2005, EN 613	326-1:2006, EN 62026-2:2013
Programming instructions			
Profile		S-0.A.2	
IO code		0	
ID code ID1 code		A	
ID1 code		7 2	
Data bits (function via AS-Interface)		input	output
D0		IN1	-
D1		IN2	-
D2		IN3	-
D3		IN4	-
Parameter bits (programmable via A	S-i)	function	
P0		not used	
P1		Input filter	
P2		P1 = 0 input filter on, pulse s P1 = 1 input filter off (default Synchronous mode	
F2		P2 = 0 synchronous mode of P2 = 1 synchronous mode of	
P3		not used	
Ambient conditions			
Ambient temperature		-25 60 °C (-13 140 °F)	
Storage temperature		-25 85 °C (-13 185 °F)	
Relative humidity		85 % , noncondensing	
Climatic conditions		For indoor use only	
Altitude		≤ 2000 m above MSL	
Pollution degree		3	
Mechanical specifications Degree of protection		IP67	
Degree of protection Connection		cable piercing method flat cable yellow inputs: M12 round connector	
Material			
Housing		PBT	
Mass		100 g	
Tightening torque, cable gland		0.4 Nm	
Mounting		Mounting plate	

Function

The VBA-4E-G2-ZA is an AS-Interface interface 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 is ideal for applications in the field. An addressing jack is integrated in the module.

The sensors are connected by means of M12 x 1 screw connections. An LED is provided for each channel to indicate the current switching status. Similarly, an LED is available to monitor the AS-Interface communication and the indication that the module has the address 0.

The mounting plate U-G3FF is used, as standard, for connection to the AS-Interface. This lower section enables the flat cable to be contacted from both sides. If input and output modules are used in a mixed system, the flat cable for the internal power supply can be inserted in the lower section of this module. The module does not access this cable. The advantage is that both flat cables can be laid in parallel, without the danger of the module being destroyed by an incorrect connection. An overloading of the internal input supply is signalled to the AS-Interface master via the "Peripheral fault" function. Communication via the AS-Interface remains unaffected.

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

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

Notes

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

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.

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