

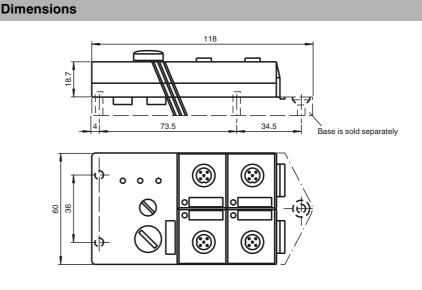
Model number

VBA-4E-G2-ZA0

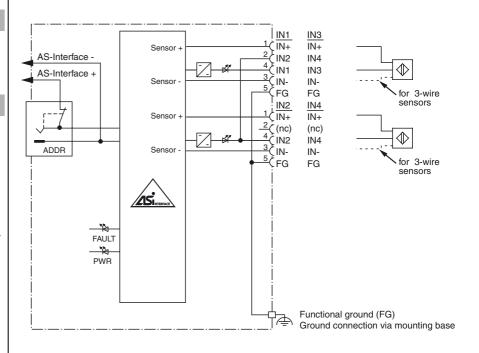
G2 flat module 4 inputs (NPN)

Features

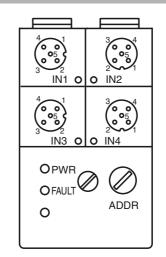
- AS-Interface certificate ٠
- Degree of protection IP67 •
- A/B slave with extended addressing . possibility for up to 62 slaves
- Addressing jack ٠
- Flat cable connection with cable piercing technique, variable flat cable guide
- Communication monitoring •
- Inputs for 2-, 3-, and 4-wire sensors •
- Supply for inputs from AS-Interface
- Ground connection (FE) possible •
- Function display for bus and inputs •
- Detection of overload on sensor supply



Electrical connection



Indicating / Operating means



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

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1

AS-Interface sensor module

Technical data		Function
General specifications		The VBA-4E-G2-ZA0 is an AS-Interface inter-
Slave type	A/B slave	
AS-Interface specification	V2.1	face module with 4 Inputs. Mechanical con- tacts (e. g. push buttons) as well as 2-, 3- and
Required master specification	≥ V2.0	4-wire sensors can be connected to the
UL File Number	E87056	inputs.
Indicators/operating means		The IP67 flat module is ideal for applications
LED FAULT	error display; LED red red: communication error or address is 0 red flashing: overload of sensor supply	in the field. An addressing jack is integrated in the module.
LED PWR	AS-Interface voltage; LED green	The sensors are connected by means of
LED IN	switching state (input); 4 LED yellow	M12 x 1 screw connections. An LED is provi-
Electrical specifications		ded for each channel to indicate the current
Rated operating voltage U _e	26.5 31.6 V from AS-Interface	switching status. Similarly, an LED is available
Rated operating current Ie	\leq 40 mA (without sensors) / max. 240 mA	to monitor the AS-Interface communication
Protection class	III	and the indication that the module has the
Input		address 0.
Number/Type	4 inputs for 2- or 3-wire sensors (NPN), DC alternative 2 inputs for 4-wire sensors (NPN), DC	The mounting plate U-G3FF is used, as stan- dard, for connection to the AS-Interface. This
Supply	from AS-Interface	lower section enables the flat cable to be con-
Voltage	21 31 V	tacted from both sides. If input and output
Current loading capacity	\leq 200 mA (T _B \leq 40 °C),	modules are used in a mixed system, the flat
	\leq 150 mA (T_B \leq 60 °C), overload-proof and short-circuit protected	cable for the internal power supply can be inserted in the lower section of this module.
Input current	\leq 8 mA (limited internally)	The module does not access this cable. The
Switching point	according to DIN EN 61131-2 (Type 2)	advantage is that both flat cables can be laid
0 (unattenuated)	≤2 mA	in parallel, without the danger of the module
1 (attenuated)	\geq 4 mA	being destroyed by an incorrect connection.
Programming instructions		An overloading of the internal input supply is
Profile	S-0.A.2	signalled to the AS-Interface master via the
IO code	0	"Peripheral fault" function. Communication
ID code	A	via the AS-Interface remains unaffected.
ID1 code	7	
ID2 code	2	Note:
Data bits (function via AS-Interface)	input output	The mounting base for the module is sold
DO	IN1 -	separately.
D1	IN2 -	
D2	IN3 -	Accessories
D3	IN4 -	
Parameter bits (programmable via AS-i) P0		VBP-HH1-V3.0-KIT
P1	not used	AS-Interface Handheld with accessory
P2	not used	VBP-HH1
P3	not used	Handheld programming device
Ambient conditions	not used	riananola programming device
Ambient temperature	-25 60 °C (-13 140 °F)	VAZ-PK-1,5M-V1-G
Storage temperature	-25 85 °C (-13 140 °F)	Adapter cable module/hand-held pro-
Mechanical specifications		gramming device
-	ID67 according to EN COEO0	
Degree of protection Connection	IP67 according to EN 60529 cable piercing method flat cable yellow inputs: M12 round connector	VAZ-FK-ED-G2 AS-Interface end seal for G2 modules
Material		Matching system components
Housing	PBT	
Mass	100 g	U-G3FF
Mounting	Mounting plate	AS-Interface module mounting base for
Compliance with standards and directives		connection to flat cable (AS-Interface and external auxiliary power)
Directive conformity		enternal aunital y power)
EMC Directive 2004/108/EC	EN 50295:1999	
Standard conformity		
Noise immunity	EN 61000-6-2:2005 , EN 50295:1999 , EN 61326-1:2006 , IEC 62026-2:2008	
Emitted interference	EN 50295:1999	
AS-Interface	EN 50295:1999	
Input	EN 61131-2	
Degree of protection	EN 60529	

Notes

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).

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2

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