VBA-4E-G12-ZEJ

Dimensions





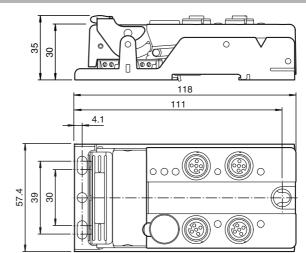
Model number

VBA-4E-G12-ZEJ

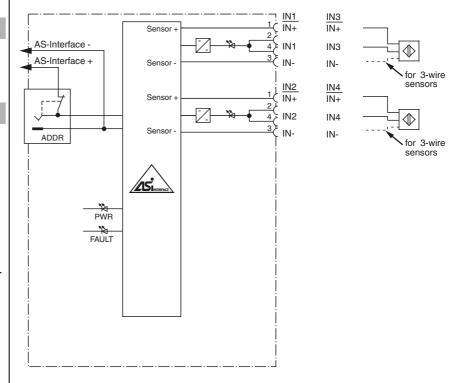
G12 flat module 4 inputs (PNP)

Features

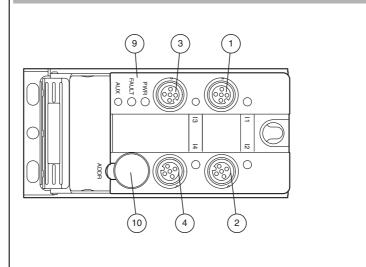
- · A/B slave with extended addressing possibility for up to 62 slaves
- One-piece housing with stainless • steel base
- Installation without tools •
- Metal threaded inserts with SPEED-• CON technology
- Flat cable connection with cable pier-• cing technique, variable flat cable guide
- Communication monitoring •
- Inputs for 2- and 3-wire sensors •
- **DIN** rail mounting •
- AS-Interface certificate



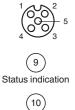
Electrical connection



Indicating / Operating means







Addressing socket

1

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AS-Interface sensor module

2

VBA-4E-G12-ZEJ

Technical data		Function
General specifications		
Slave type	A/B slave	The VBA-4E-G12-Z*J is an AS-Interface trig-
AS-Interface specification	V3.0	ger module with 4 inputs. 2- and 3-wire sen-
Required master specification	≥ V2.1	sors as well as mechanical contacts can be
UL File Number	E223772	connected to the plus switching electronic
	2223172	inputs.
Functional safety related parameters	440 -	The solid housing permits fast mounting wit-
MTTF _d	410 a	hout tools as well as easy removal without
Mission Time (T _M)	20 a	tools. The stainless steel shell and the cast
Diagnostic Coverage (DC)	0 %	housing ensure durability and a high protec-
Indicators/operating means		tion category.
LED FAULT	error display; LED red	The connection to the AS-Interface cable is
	red: communication error or address is 0	achieved via penetration technology in the
	red flashing: overload of sensor supply	integrated flat cable. The insert for the flat
LED PWR	AS-Interface voltage; green LED green: voltage OK	cables can be turned in two orientations.
	flashing green: address 0	All connections to inputs are implemented via
LED IN	switching state (input); 4 LED yellow	metal inserts for high stability. The connection
	Switching State (input), 4 LED yellow	to the sensors is achieved via a M12 x 1 cir-
Electrical specifications		cular connector with SPEEDCON quick
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	locking option.
Protection class	III	The inputs and the connected sensors are
Surge protection	Ue: Over voltage category III, safe isolated power supplies	supplied via the internal power supply of the
	(PELV) derived from mains up to 300 V AC line-to-neutral	module (from AS-Interface).
Input		To indicate the current switching state there is
Number/Type	4 inputs for 2- or 3-wire sensors (PNP), DC	an LED for each channel fitted to the top of
Supply	from AS-Interface	the module.
Voltage	21 31 V	An LED to indicate the AS-Interface voltage
Current loading capacity	≤ 200 mA, overload and short-circuit protected	and that the module has an address of 0 is
Input current	\leq 8 mA (limited internally)	available, another indicates errors in the AS-
Switching point	according to DIN EN 61131-2 (Type 2)	Interface communication as well as periphery
0 (unattenuated)	≤2 mA	faults.
1 (attenuated)	≥ 6 mA	This module can be mounted in any position
Signal delay	< 1 ms (input/AS-Interface)	using three screws or can be snapped onto
		the DIN rail using the stainless steel holder.
Directive conformity		the Divital using the stallless steel holder.
Electromagnetic compatibility		
Directive 2014/30/EU	EN 62026-2:2013	Accessories
Standard conformity		
Degree of protection	EN 60529:2000	VBP-HH1-V3.0-KIT
Fieldbus standard	EN 62026-2:2013	AS-Interface Handheld with accessory
Input	EN 61131-2	
Emitted interference	EN 61000-6-4:2007	VAZ-V1-B3
AS-Interface	EN 62026-2:2013	Blind plug for M12 sockets
Noise immunity	EN 61000-6-2:2005 EN 62026-2:2013	
Programming instructions		VBP-HH1-V3.0
Profile	S-0.A.0	AS-Interface Handheld
IO code	0	
ID code	A	VAZ-PK-1,5M-V1-G
		Adapter cable module/hand-held pro-
ID1 code	7	gramming device
ID2 code	0	
Data bits (function via AS-Interface)	input output	VAZ-CLIP-G12
DO	IN1 -	lock for G12 module
D1	IN2 -	
D2	IN3 -	
D3	IN4 -	
Parameter bits (programmable via AS-i)	function	
P0	not used	
P1	Input filter	
	$P1 = 0$ input filter on, pulse suppression ≤ 2 ms	
	P1 = 1 input filter off (default settings)	
P2	Synchronous mode	
	P2 = 0 synchronous mode on	
D0	P2 = 1 synchronous mode off (default settings)	
P3	not used	
Ambient conditions		
Ambient temperature	-25 70 °C (-13 158 °F)	
Storage temperature	-25 85 °C (-13 185 °F)	
Relative humidity	85 % , noncondensing	
Climatic conditions	For indoor use only	
Altitude	\leq 2000 m above MSL	
Shock and impact resistance	30 g , 11 ms in 6 spatial directions 3 shocks	
	10 g , 16 ms in 6 spatial directions 1000 shocks	
Vibration resistance	0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles	
Pollution degree	3	
Mechanical specifications		
Degree of protection	IP67	
Refer to "General Notes Relating to Peppe	erl+Fuchs Product Information".	

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VBA-4E-G12-ZEJ

Connection	cable piercing method flat cable yellow inputs: M12 round connector	
Material		
Housing	PBT	
Mass	200 g	
Tightening torque, cable gland	0.4 Nm	
Mounting	Mounting plate	

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.

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com USA: +1 330 486 0001

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