VBA-2E2A-G12-ZEJ/EA2L

Dimensions





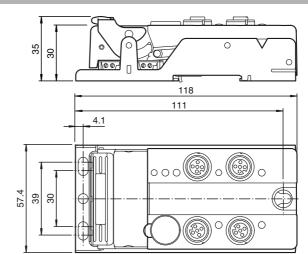
Model number

VBA-2E2A-G12-ZEJ/EA2L

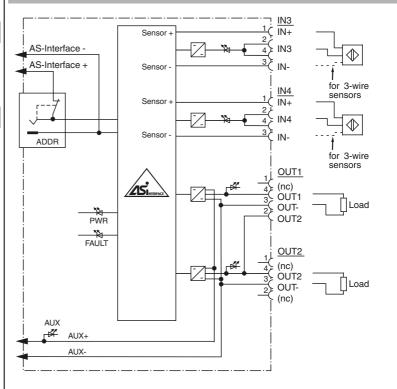
G12 flat module 2 inputs (PNP) and 2 electronic outputs

Features

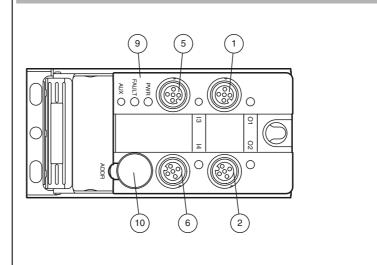
- A/B slave with extended addressing possibility for up to 62 slaves
- One-piece housing with stainless • steel base
- Installation without tools .
- Metal threaded inserts with SPEED-• CON technology
- Flat cable connection with cable pier-• cing technique, variable flat cable guide
- Red LED per channel, lights up in the • event of output overload
- Communication monitoring, configu-• rable
- **DIN** rail mounting •
- AS-Interface certificate



Electrical connection



Indicating / Operating means







(10)

Addressing socket

1

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fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

AS-Interface sensor/actuator module

Technical data

General specifications Slave type AS-Interface specification		A/B slave		The V
Slave type		A/B slave		The V
				Interfac
			V3.0	
Required master specification				outputs
UL File Number	•	E223772		mechar
		LZZJITZ		plus sw
Functional safety related pa	ameters	070 -		are ele
MTTF _d		270 a		zed with
Mission Time (T _M)		20 a		The so
Diagnostic Coverage (DC)		0 %		hout to
ndicators/operating means				tools. T
LED FAULT		error display; LED red		housing
		red: communication error of		tion cat
LED PWR		-	ensor power supply or outputs	The cor
LED PVVR		AS-Interface voltage; greer green: voltage OK	ILED	to the e
		flashing green: address 0		penetra
LED AUX		ext. auxiliary voltage UAUX;	dual LED green/red	cable. T
		green: voltage OK	C .	ned in t
		red: reverse voltage		All conr
LED IN		switching state (input); 2 LE	ED yellow	lemente
LED OUT		Switching status (output); 2	yellow/red LEDs	The co
		Yellow: output active		achieve
		Red: output overload		with SP
Electrical specifications				_
Auxiliary voltage (output)	U _{AUX}			The inp
Rated operating voltage	U _e	26.5 31.6 V from AS-Inte	rface	supplie
Rated operating current	l _e	\leq 40 mA (without sensors)	/ max. 240 mA	module
Protection class		III		the co
Surge protection			egory III, safe isolated power supplies	power s
			up to 300 V AC line-to-neutral	To indic
nput				an LED
Number/Type		2 inputs for 2- or 3-wire ser	isors (PNP), DC	the m
Supply		from AS-Interface		against
Voltage		21 31 V		overloa
Current loading capacity		≤ 200 mA, overload and short-circuit protected		An LED
Input current		\leq 8 mA (limited internally)		and that
Switching point		according to DIN EN 6113	1-2 (Type 2)	availab
0 (unattenuated)		≤2 mA	2 (1900 2)	Interfac
1 (attenuated)		≥6 mA		faults.
Signal delay		< 1 ms (input/AS-Interface)		power s
				This me
Output			and a stand share size of successive	using t
Number/Type			overload and short-circuit proof	the DIN
Supply		from external auxiliary volta	ige U _{AUX}	An out
Current		2 A per output 4 A total (TR \leq 40 °C)		Interfac
		4 A total (TB \leq 40 °C) 3 A total (TB \leq 70 °C)		fault". 1
Voltage		$\geq (U_{AUX} - 0.5 \text{ V})$		face rer
Directive conformity				lace lei
Electromagnetic compatibility				Acces
Directive 2014/30/EU		EN 62026-2:2013		
Standard conformity				VBP-H
Degree of protection		EN 60529:2000		AS-Inte
Fieldbus standard		EN 62026-2:2013		
Input		EN 61131-2		VAZ-V
Emitted interference		EN 61000-6-4:2007		Blind p
AS-Interface		EN 62026-2:2013		100 1
Noise immunity		EN 61000-6-2:2005, EN 6	2026-2:2013	VBP-H
Programming instructions		,		AS-Int
Profile		S-B.A.2		VAZ-P
IO code		В		
ID code		A		Adapte
				gramm
ID1 code		7		1/4
ID2 code	outor = \	2		VAZ-C
Data bits (function via AS-Int	ertace)	input	output	lock fo
DO		-	OUT1	
D1		-	OUT2	
D2		IN3	-	
D3		IN4	-	
Parameter bits (programmal P0	ole via AS-i)	communication monitoring		
		fails, the outputs are de-en	onitoring = ON, i.e. if communication ergised f communication fails, the outputs	
P1		Input filter P1 = 0 input filter on, pulse P1 = 1 input filter off (defau		

Function

The VBA-2E4A-G12-Z*J/EA2L is an AS-Interface trigger module with 2 inputs and 2 outputs. 2- and 3-wire sensors as well as mechanical contacts can be connected to the plus switching electronic inputs. The outputs are electronic outputs which can be energized with max. 24 V DC and 2 A per output.

The solid housing permits fast mounting without tools as well as easy removal without tools. The stainless steel shell and the cast housing ensure durability and a high protection category.

The connection to the AS-Interface calbe and to the external power supply is achieved via penetration technology in the integrated flat cable. The insert for the flat cables can be turned in two orientations.

All connections to inputs and outputs are implemented via metal inserts for high stability. The connection to the sensors/actuators is achieved via a M12 x 1 circular connector with SPEEDCON quick locking option.

The inputs and the connected sensors are supplied from the internal power supply of the module (from AS-Interface), the outputs and the connected actuators via an external power source (AUX).

To indicate the current switching state there is an LED for each channel fitted to the top of the module. The outputs are protected against overload and short circuit, an output overload is indicated via an LED per channel. An LED to indicate the AS-Interface voltage and that the module has an address of 0 is available, another indicates errors in the AS-Interface communication as well as periphery faults. Another LED indicates the external power supply (AUX).

This module can be mounted in any position using three screws or can be snapped onto the DIN rail using the stainless steel holder.

An output overload is reported to the AS-Interface master via the function "periphery fault". The communcation with the AS-Interface remains intact.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VAZ-V1-B3

Blind plug for M12 sockets

VBP-HH1-V3.0

AS-Interface Handheld

VAZ-PK-1.5M-V1-G Adapter cable module/hand-held programming device

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VAZ-CLIP-G12 lock for G12 module

VBA-2E2A-G12-ZEJ/EA2L

P2	Synchronous mode		
	P2 = 0 synchronous mode on 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	≤ 2000 m above MSL		
Shock and impact resistance	30 <i>g</i> , 11 ms in 6 spatial directions 3 shocks 10 <i>g</i> , 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		
Connection	Cable piercing method flat cable yellow/flat cable black inputs/outputs: 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.

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 Pepperl+Fuchs Group
 USA: +1 330 486 0001
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Pepperl+Fuchs Group www.pepperl-fuchs.com

fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

