VBA-2E2A-G12-ZEJ/EA2L







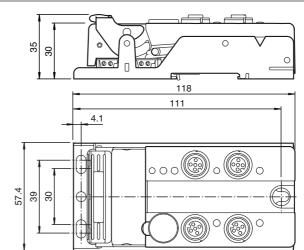
Model number

VBA-2E2A-G12-ZEJ/EA2L

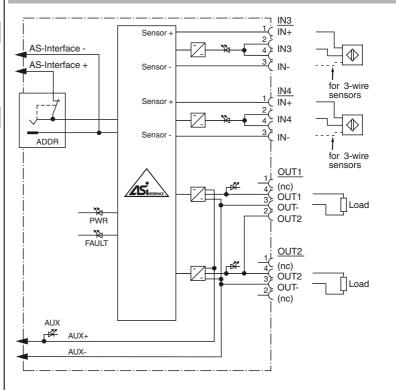
G12 flat module 2 inputs (PNP) and 2 electronic outputs

Features

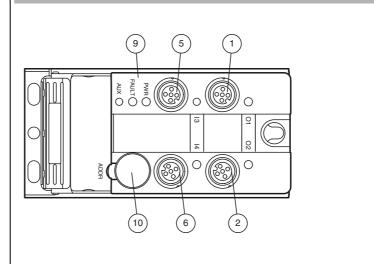
- A/B slave with extended addressing possibility for up to 62 slaves
- One-piece housing with stainless • steel base
- Installation without tools .
- Metal threaded inserts with SPEED-• CON technology
- Flat cable connection with cable pier-• cing technique, variable flat cable guide
- Red LED per channel,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



Electrical connection



Indicating / Operating means









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

lecifical uala				Funct
eneral specifications				The VI
Slave type	A/B sla	ave		Interfac
AS-Interface specification	V3.0			
Required master specification	≥ V2.1			outputs
UL File Number	E8705	6		mechar
unctional safety related paramet	ers			plus sw
MTTF _d	270 a			are elec
Mission Time (T _M)	20 a			zed with
Diagnostic Coverage (DC)	0 %			The sol
	0 /0			hout to
ndicators/operating means		in a local distance of the second		tools. T
LED FAULT	red: co	lisplay; LED red ommunication error o shing: overload of se	r address is 0 nsor power supply or outputs	housing tion cate
LED PWR	AS-Int green:	erface voltage; greer voltage OK	, .	The cor to the e
LED AUX	ext. au green:	voltage OK	dual LED green/red	cable. T ned in t
		verse voltage		All conr
LED IN		ing state (input); 2 LE	-	lemente
LED OUT	Yellow	iing status (output); 2 : output active output overload	yellow/red LEDs	The co achieve
loctrical specifications	riou. c	aiparovonouu		with SP
Electrical specifications	11	0C ± 15 % PELV		The inp
	AUX		rfaqq	supplie
Rated operating voltage	e	. 31.6 V from AS-Inte		module
	0	A (without sensors)	/ max. 240 mA	the co
Protection class	III			
nput				power s
Number/Type	2 inpu	ts for 2- or 3-wire ser	sors (PNP), DC	To indic
Supply	from A	S-Interface		an LED
Voltage	21 3	81 V		the m
Current loading capacity	≤ 200	mA, overload and sh	ort-circuit protected	against
Input current		A (limited internally)	·	overloa
Switching point		ling to DIN EN 6113	1-2 (Type 2)	An LE
0 (unattenuated)	≤ 2 m/	0	. = (.)po =/	and that
1 (attenuated)	≥ 2 m/ ≥ 6 m/			availab
, ,				Interfac
Signal delay	< 1 ms	(input/AS-Interface)		faults.
Dutput				power s
Number/Type		•	overload and short-circuit proof	This m
Supply	from e	xternal auxiliary volta	age U _{AUX}	using t
Current	4 A tot	r output al (TB ≤ 40 °C) al (TB ≤ 70 °C)		the DIN An out
Voltage		_{IX} - 0.5 V)		Interfac
Programming instructions		, , , , , , , , , , , , , , , , , , ,		fault".
Profile	S-B.A.	2		face rer
IO code	B	-		
ID code	A			
ID1 code				Acces
	7			VBP-H
ID2 code	2			
Data bits (function via AS-Interface	e)	input	output	AS-Int
D0		-	OUT1	VAZ-V
D1		-	OUT2	
D2		IN3	-	Blind p
D3		IN4	-	VBP-H
Parameter bits (programmable via	AS-i) functi	on		
P0		unication monitoring (basic setting), mon	itoring = ON, i.e. if communication	AS-Int
	P0 = 0 mainta	in their condition	ergised f communication fails, the outputs	Adapte gramn
P1		ilter input filter on, pulse input filter off (basic		VAZ-V Blind p
P2	$P_{2}^{2} = 0$	ronous mode synchronous mode synchronous mode		VAZ-C
P3	not us			lock fo
mbient conditions				
Ambient temperature	-25	70 °C (-13 158 °F)		1
Storage temperature		85 °C (-13 185 °F)		d in the second s
Shock and impact resistance	30 <i>g</i> , 1	1 ms in 6 spatial dire 6 ms in 6 spatial dire	ections 3 shocks	
	-	•	57 150 Hz, 20 cycles	
Vibration resistance				1
	0.101			
Nechanical specifications				1
	IP67			I

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-V1-B Blind plug for M12 sockets

VAZ-CLIP-G12 lock for G12 module

VBA-2E2A-G12-ZEJ/EA2L

Connection	Cable piercing method flat cable yellow/flat cable black inputs/outputs: M12 round connector
Material	
Housing	PBT
Mass	200 g
Mounting	Mounting base
Compliance with standards and directives	•
Directive conformity	
EMC Directive 2004/108/EC	EN 50295:1999
Standard conformity	
Noise immunity	EN 61000-6-2:2005, EN 50295:1999
Emitted interference	EN 61000-6-4:2007
Input	EN 61131-2
Degree of protection	EN 60529
Fieldbus standard	EN 50295, IEC 62026-2

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 USA: +1 330 www.pepperl-fuchs.com fa-info@us.pepp

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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

