



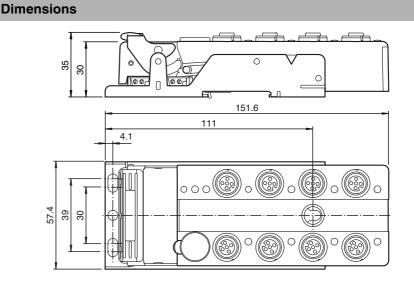
#### Model number

## VBA-4E4A-G12-ZEJ/EA2L

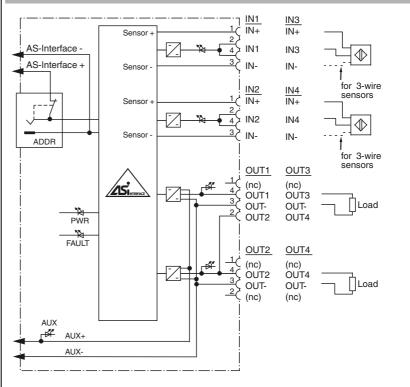
G12 flat module 4 inputs (PNP) and 4 electronic outputs

### Features

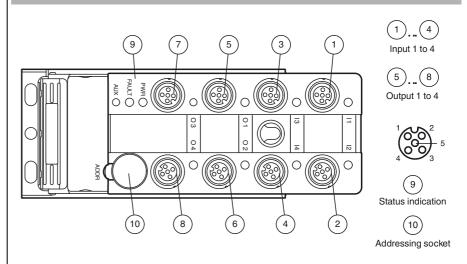
- A/B slave with extended addressing possibility for up to 62 slaves
- One-piece housing with stainless • steel base
- Installation without tools .
- Metal threaded inserts with SPEED-. CON technology
- Flat cable connection with cable pier-• cing technique, variable flat cable guide
- Red LED per channel,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



## **Electrical connection**



## Indicating / Operating means



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

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## AS-Interface sensor/actuator module

## **Technical data**

Tech	inical data				
Genera	al specifications				
Slave	e type		A/B slave		
AS-Ir	nterface specification		V3.0		
Requ	ired master specification		≥ V3.0		
UL F	ile Number		E223772		
Functi	onal safety related parame	ters			
MTT	•		190 a		
	ion Time (T <sub>M</sub> )		20 a		
	nostic Coverage (DC)		0 %		
	tors/operating means				
LED	FAULT			ed error or address is 0 Id of sensor power supply or ou	tputs
LED	PWR		AS-Interface voltage green: voltage OK flashing green: addr	, 0	
LED	AUX			U <sub>AUX</sub> ; dual LED green/red	
LED	IN		switching state (inpu	it): 4 I ED vellow	
LED				tput); 4 yellow/red LEDs	
			Yellow: output active Red: output overload	)	
	ical specifications			V	
	iary voltage (output)	U <sub>AUX</sub>			
	d operating voltage	U <sub>e</sub>	26.5 31.6 V from		
Rated operating current l <sub>e</sub> Protection class Surge protection		$\leq$ 40 mA (without sensors) / max. 240 mA III $U_{AUX}, U_{in}$ : Over voltage category III, safe isolated power supplies			
Surg			(PELV) derived from	mains up to 300 V AC line-to-n	wer supplies ieutral
Input					
	ber/Type		4 inputs for 2- or 3-w	vire sensors (PNP), DC	
Supp	ly		from AS-Interface		
Volta	ge		21 31 V		
Curre	ent loading capacity		$\leq$ 200 mA, overload	and short-circuit protected	
Input	current		$\leq$ 8 mA (limited inter	nally)	
Swite	ching point		according to DIN EN	l 61131-2 (Type 2)	
	unattenuated)		≤2 mA		
•	attenuated)		≥6 mA		
-	al delay		< 1 ms (input/AS-Int	erface)	
Outpu					
	ber/Type			PNP, overload and short-circui	t proof
Supp			from external auxilia 2 A per output	ry vollage U <sub>AUX</sub>	
Curre	5111		6 A total (TB $\leq$ 40 °C 4 A total (TB $\leq$ 70 °C		
Volta	ge		≥ (U <sub>AUX</sub> - 0.5 V)		
Direct	ive conformity				
Elect	romagnetic compatibility				
Dir	ective 2014/30/EU		EN 62026-2:2013		
Standa	ard conformity				
Degr	ee of protection		EN 60529:2000		
Fieldbus standard		EN 62026-2:2013			
Input			EN 61131-2		
Emitted interference		EN 61000-6-4:2007			
AS-Interface		EN 62026-2:2013			
	e immunity		EN 61000-6-2:2005	EN 62026-2:2013	
	amming instructions				
Profi			S-7.A.7		
			7		
			A 7		
ID1 c			7 7		
ID2 c	bits (function via AS-Interfac	9)	/ input	output	
Data		~,	IN1	OUT1	
D0			IN1	OUT2	
D2			IN2	OUT3	
D3			IN4	OUT4	
	meter bits (programmable via	a AS-i)	function		
P0		,	fails, the outputs are	ngs), monitoring = ON, i.e. if cor de-energised OFF, if communication fails, th	
P1			Input filter	, pulse suppression $\leq 2$ ms	
n	Refer to "General Notes Relating t	o Peppe	erl+Fuchs Product Inform	ation".	
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## VBA-4E4A-G12-ZEJ/EA2L

## **Function**

The VBA-4E4A-G12-Z\*J/EA2L is an AS-Interface trigger module with 4 inputs and 4 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

VAZ-CLIP-G12 lock for G12 module

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# VBA-4E4A-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	$\leq$ 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	230 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"

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