

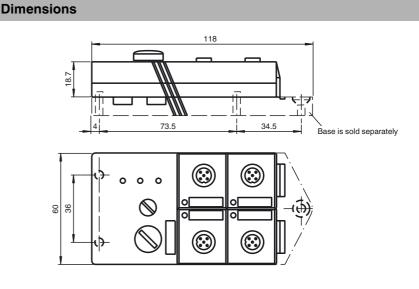
Model number

VBA-2E2A-G2-ZA/EA2

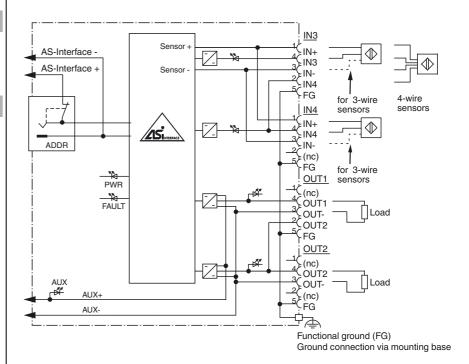
G2 flat module 2 inputs (PNP) and 2 electronic outputs

Features

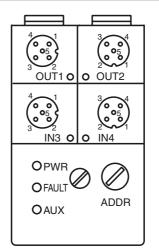
- AS-Interface certificate
- Degree of protection IP67 •
- A/B slave with extended addressing • possibility for up to 62 slaves
- Addressing jack ٠
- Flat cable connection with cable piercing technique, variable flat cable guide
- Communication monitoring •
- Inputs for 2-, 3-, and 4-wire sensors •
-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



Electrical connection



Indicating / Operating means



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AS-Interface sensor/actuator module

The VBA-2E2A-G2-ZA/EA2 is an AS-Interface interface module with 2 Inputs and 2 outputs. Mechanical contacts (e.g. push buttons) as well as 2-, 3- and 4-wire sensors can be connected to the inputs. The outputs are electronic outputs, which can be loaded

The IP67 flat module is ideal for applications

in the field. An addressing jack is integrated in

Connection to the sensors/actuators is provided via M12 x 1 screw connections. An LED is provided for each channel, on the top of the

to 24 V DC and 1 A per output.

Technical data			
General specifications			
Slave type		A/B slave	
AS-Interface specification		V2.1	
Required master specification		≥ V2.1	
UL File Number		E223772	
Indicators/operating means			
LED FAULT		error display; LED red	
		red: communication error or address	
		red flashing: overload of sensor powe	r supply or outputs
LED PWR		AS-Interface voltage; LED green	
LED AUX		ext. auxiliary voltage U _{AUX} ; LED gree	n
		switching state (input); 2 LED yellow	
LED OUT		Switching state (output); 2 LED yellow	I
Electrical specifications			
, ,	/ 10/1	20 30 V DC PELV	
	J _e	26.5 31.6 V from AS-Interface	
	е	\leq 40 mA (without sensors) / max. 140	mA
Protection class			- f - i I - t I
Surge protection		U _{AUX} , U _{in} : Over voltage category III, sa (PELV)	ate isolated power supp
Input		(1 22)	
•		2 inputs for 2- or 3-wire sensors (PNF	
Number/Type		option 1 input for 4-wire sensor (PNP)	<i>, , , , , , , , , ,</i>
Supply		from AS-Interface	
Voltage		21 31 V	
Current loading capacity		\leq 100 mA (T _B \leq 40 °C),	
. ,		\leq 75 mA (T _B \leq 60 °C), overload-proof	and short-circuit prote
Input current		\leq 8 mA (limited internally)	
Switching point		according to DIN EN 61131-2 (Type 2	2)
0 (unattenuated)		≤ 2 mA	
1 (attenuated)		≥4 mA	
Output			
Number/Type		2 electronic outputs, PNP overload an	nd short-circuit proof
Supply		from external auxiliary voltage UAUX	
Current		1 A per output	
Voltage		≥ (U _{AUX} - 0.5 V)	
Directive conformity			
Electromagnetic compatibility			
Directive 2014/30/EU		EN 62026-2:2013 EN 61000-6-2:200	1 EN 61000-6-4:2001
Standard conformity			
Degree of protection		EN 60529:2000	
Input		EN 61131-2:2007	
Emitted interference		EN 61000-6-4:2001	
AS-Interface		EN 62026-2:2013	
Noise immunity		EN 61000-6-2:2001	
Programming instructions			
Profile		S-B.A.2	
IO code		В	
ID code		A	
ID1 code		7	
ID2 code		2	
Data bits (function via AS-Interface))	input	output
DO		-	OUT1
D1		-	OUT2
D2		IN3	-
D3		IN4	-
Parameter bits (programmable via	AS-i)	function	
PO		not used	
P1		not used	
P2		not used	
P3		not used	
Ambient conditions			
Ambient temperature		-25 60 °C (-13 140 °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	
Pollution degree		3	
		-	
Mechanical specifications		IP67	
-			
Degree of protection			
•		Cable piercing method flat cable yellow/flat cable black	
• •		Cable piercing method	

module, to indicate the current switching status. Similarly, an LED is provided to monitor the AS-Interface communication and to indicate that the module has the address 0. LEDs are also provided to indicate the AS-Interface ated power supplies voltage and the external power supply. The U-G3FF mounting base is normally used for the connection of the AS-Interface flat cable and the external 24 V DC power supply. The specially designed base enables the user to connect flat cable from both sides. The device is equipped with communication ort-circuit protected monitoring, which switches off power to the inputs if no communication has taken place for longer than 40 ms. An overloading of the internal power supply or of the outputs is signalled to the AS-interface master via the "Peripheral fault" function. -circuit proof Communication via the AS-Interface remains intact. Note:

Function

the module.

The mounting base for the module is sold separately.

Accessories

VBP-HH1-V3.0-KIT AS-Interface Handheld with accessory

VBP-HH1-V3.0 **AS-Interface Handheld**

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

VAZ-FK-ED-G2

AS-Interface end seal for G2 modules

Matching system componentsU-G3FFAS-Interface module mounting base for
connection to flat cable (AS-Interface and external auxiliary power)

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VBA-2E2A-G2-ZA/EA2

Housing	PBT
Mass	100 g
Tightening torque, cable gland	0.4 Nm
Mounting	Mounting plate

Notes

In the case of 4-wire sensors, you must use slot IN3 for the inputs (internally bridged).

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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