







Model number

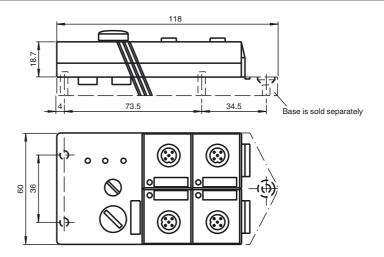
VBA-2E2A-G2-ZA0/EA0

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

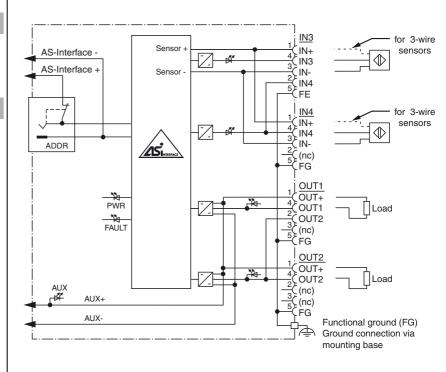
Features

- AS-Interface certificate
- · Degree of protection IP67
- A/B slave with extended addressing possibility for up to 62 slaves
- Addressing jack
- 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 supply
- · Detection of output overload

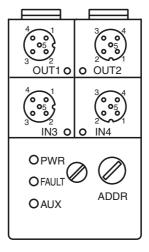
Dimensions



Electrical connection



Indicating / Operating means



Technical data				
General specifications				
Slave type		A/B slave		
Indicators/operating means		7020140		
LED FAULT		error display; LED red red: communication error or address i red flashing: overload of sensor powe		
LED PWR		AS-Interface voltage; LED green		
LED AUX		ext. auxiliary voltage U _{AUX} ; LED green		
LED IN		switching state (input); 2 LED yellow		
LED OUT		Switching state (output); 2 LED yellow	1	
Electrical specifications	Electrical specifications			
Auxiliary voltage (output)	U _{AUX}	20 30 V DC PELV (protection class 3 according to VDE 0	0106/IEC 364-4-41)	
Rated operating voltage	U _e	26.5 31.6 V from AS-Interface		
Rated operating current	l _e	≤ 40 mA (without sensors) / max. 140 mA		
Protection class	Protection class III		III	
Input				
Number/Type		2 inputs for 2- or 3-wire sensors (NPN), DC alternative 1 input for 4-wire sensor (NPN), DC		
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 protected		
Input current		≤ 8 mA (limited internally)		
Switching point		according to DIN EN 61131-2 (Type 2)		
0 (unattenuated)		≤ 2 mA		
1 (attenuated)		≥ 4 mA		
Output				
Number/Type		2 Electronic outputs, NPN, overload and short-circuit protected		
Supply		from external auxiliary voltage U _{AUX}		
Current		1 A per output		
Voltage		≥ (U _{AUX} - 0.5 V)		
Programming instructions		0.04.0		
Profile		S-B.A.2		
IO code		В .		
ID code		A		
ID1 code		7		
ID2 code	,	2		
Data bits (function via AS-Interface	e)	input	output	
D0		-	OUT1	
D1		-	OUT2	
D2		IN3	-	
D3 IN4 -			•	
Parameter bits (programmable via AS-i)				
P1		not used not used		
P2		not used		
P3		not used		
Ambient conditions		not used		
Ambient temperature		-25 60 °C (-13 140 °F)		
Storage temperature		-25 85 °C (-13 185 °F)		
Mechanical specifications				
Degree of protection		IP67 according to EN 60529		
Connection		Cable piercing method		
Samouton		flat cable yellow/flat cable black inputs/outputs: M12 round connector		
Material				
Housing		PBT		
Mass		100 g		

Notes

Mounting

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

Mounting plate

Function

The VBA-2E2A-G2-ZA0/EA0 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 to 24 V DC and 1 A per output.

The IP67 flat module is ideal for applications in the field. An addressing jack is integrated in the module.

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 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 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 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. Communication via the AS-Interface remains intact.

Note:

The mounting base for the module is sold separately.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VBP-HH1

Handheld programming device

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 components

U-G3FF

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