







Model number

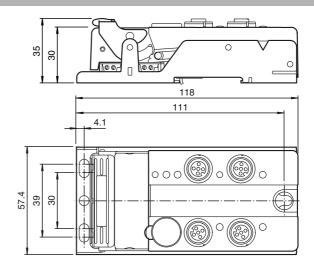
VBA-4E4A-G12-XEL

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

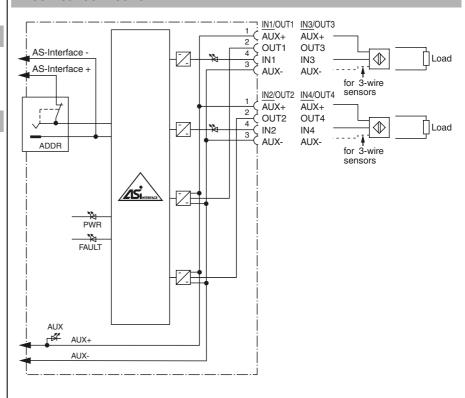
Features

- One-piece housing with stainless steel base
- Installation without tools
- Metal threaded inserts with SPEED-CON technology
- Flat cable connection with cable piercing technique, variable flat cable guide
- Communication monitoring, configurable
- Inputs for 2- and 3-wire sensors
- DIN rail mounting
- Sensor supply powered by AUX
- Input and output connection on each M12 connector

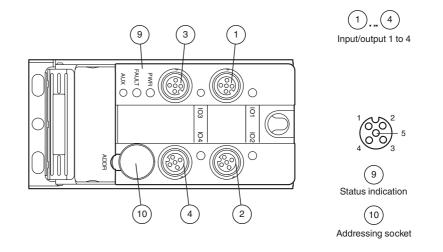
Dimensions



Electrical connection



Indicating / Operating means



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Technical data				
General specifications				
Slave type		A/B slave		
AS-Interface specification Required master specification		V3.0 ≥ V3.0		
UL File Number		E87056		
ndicators/operating means		207000		
LED FAULT		error display; LED red red: communication error or red flashing: overload of ser	address is 0	
LED PWR		AS-Interface voltage; green green: voltage OK flashing green: address 0		
LED AUX		ext. auxiliary voltage U _{AUX} ; ogreen: voltage OK red: reverse voltage	dual LED green/red	
LED IN		switching state (input); 4 LEI	D yellow	
Electrical specifications				
Auxiliary voltage	U_{AUX}	24 V DC ± 15 % PELV		
Rated operating voltage	U _e	26.5 31.6 V from AS-Inter	face	
Rated operating current	l _e	≤ 40 mA		
Protection class		III		
nput		4: 4 6 5 5 :	(DMD) 22	
Number/Type		4 inputs for 2- or 3-wire sens		
Supply Current loading capacity		from external auxiliary voltage	7.07.	
Current loading capacity Input current		≤ 500 mA overload and short-circuit resistant ≤ 8 mA (limited internally)		
Switching point		according to DIN EN 61131-	-2 (Type 2)	
0 (unattenuated)		≤2 mA	- (-)	
1 (attenuated)		≥ 6 mA		
Signal delay		< 1 ms (input/AS-Interface)		
Output				
Number/Type		4 electronic outputs, PNP, ov	verload and short-circuit proof	
Supply		from external auxiliary voltage U _{AUX}		
Current		1 A per output		
Voltage		≥ (U _{AUX} - 0.5 V)		
Programming instructions				
Profile		S-7.A.7		
IO code ID code		7		
ID code ID1 code		A 7		
ID2 code		7		
Data bits (function via AS-Interface)		input	output	
DO	,	IN1	OUT1	
D1		IN2	OUT2	
D2		IN3	OUT3	
D3		IN4	OUT4	
Parameter bits (programmable via	a AS-i)			
P0		communication monitoring P0 = 1 (basic setting), monitoring = ON, i.e. if communication fails, the outputs are de-energised P0 = 0, monitoring = OFF, if communication fails, the output maintain their condition		
P1		Input filter P1 = 0 input filter on, pulse suppression ≤ 2 ms P1 = 1 input filter off (basic setting)		
P2		Synchronous mode P2 = 0 synchronous mode on P2 = 1 synchronous mode off (basic setting)		
P3		not used		
Ambient conditions		05 70.00 / 10 155 7		
Ambient temperature		-25 70 °C (-13 158 °F)		
Storage temperature Shock and impact resistance		-25 85 °C (-13 185 °F) 30 g, 11 ms in 6 spatial directions 3 shocks		
Vibration resistance		10 g, 16 ms in 6 spatial direction of the control o	ctions 1000 shocks	
Mechanical specifications				
Degree of protection		IP67		
Connection		Cable piercing method flat cable yellow/flat cable black inputs/outputs: M12 round connector		
Material	Housing		PBT	
		PBI		
		200 g		
Housing		200 g Mounting base		

Function

The VBA-4E4A-G12-XEL 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 1 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 as well as the outputs and the connected actuators are supplied via an external power source (AUX).

To indicate the current switching state there is an LED for each input fitted to the top of the module.

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 communication 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

EMC Directive 2004/108/EC	EN 61000-6-2:2005, EN 61000-6-4:2007, EN 50295:1999
Standard conformity	
Noise immunity	EN 61000-6-2:2005, EN 50295:1999
Emitted interference	EN 61000-6-4:2007
Input	EN 61131-2:2007
Degree of protection	EN 60529:2000
Fieldbus standard	EN 50295:1999, IEC 62026-2:2006

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.