





Model number

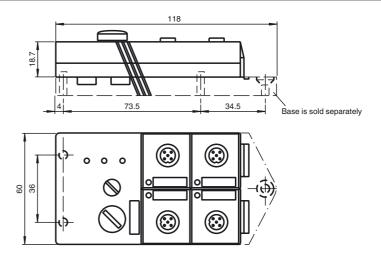
VAA-2EA-G2-ZE/E2

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

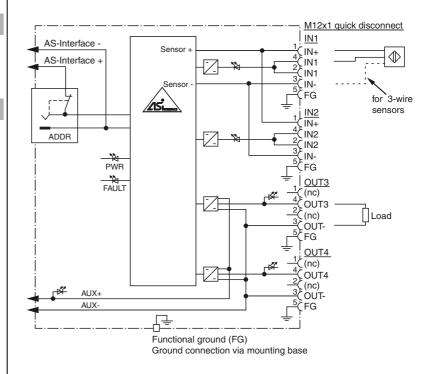
Features

- AS-Interface certificate
- · Degree of protection IP67
- Addressing jack
- Flat cable connection with cable piercing technique, variable flat cable guide
- · Communication monitoring, turn-off
- Inputs for 2- and 3-wire sensors
- Power supply of outputs from the external auxiliary voltage
- Power supply of inputs from the module
- Ground connection (PE) possible
- Function display for bus, ext. auxiliary voltage, inputs and outputs
- · Monitoring of sensor overloads

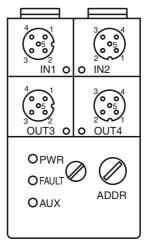
Dimensions



Electrical connection



Indicating / Operating means



Technical data				
General specifications				
Slave type		Standard slave		
AS-Interface specification		V2.1		
Required master specification		≥ V2.0		
UL File Number		E87056		
Indicators/operating means		207030		
LED FAULT		array diaplace LED and		
LED FAOLI		error display; LED red red: communication error or add red flashing: overload of sensor		
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		
Electrical specifications				
Auxiliary voltage (output)	UALIX	24 V DC ± 15 % PELV		
Rated operating voltage	Ue	26.5 31.6 V from AS-Interface		
Rated operating current	l _e	≤ 40 mA (without sensors) / max. 190 mA		
Protection class	, ,		·	
nput				
Number/Type		2 inputs for 2- or 3-wire sensors	(PNP) DC	
Supply		from AS-Interface		
Voltage		21 31 V		
Current loading capacity		\leq 150 mA (T _B \leq 40 °C), \leq 120 mA (T _B \leq 60 °C), short-circuit protected		
Input current		≤ 8 mA (limited internally)		
Switching point		= 0 m/r (minica mornany)		
0 (unattenuated)		≤ 1.5 mA		
1 (attenuated)		≥ 4.5 mA		
Output		= 1.0 1171		
•		2 electronic outpute PNP		
Number/Type		2 electronic outputs, PNP		
Supply		from external auxiliary voltage U _{AUX}		
Current		1.5 A per output 3 A total (T _B ≤ 40 °C), 2 A total (T _B ≤ 60 °C)		
Voltage		≥ (U _{AUX} - 0.5 V)		
Programming instructions				
Profile		S-3.F		
IO code ID code		3 F		
Data bits (function via AS-Interface)		input	output	
D0		IN1	-	
D1		IN2	-	
D2		-	OUT3	
D3		-	OUT4	
Parameter bits (programmable v	/ia AS-i)	function		
P0		communication monitoring P0 = 1 (default settings), monitoring = ON, i.e. if communicatio fails, the outputs are de-energised P0 = 0, monitoring = OFF, if communication fails, the outputs maintain their condition		
P1		not used		
P2		not used		
P3		not used		
Ambient conditions				
Ambient temperature		-25 60 °C (-13 140 °F)		
Storage temperature		-25 85 °C (-13 140 °F)		
Mechanical specifications				
Degree of protection		IP67		
Connection		Cable piercing method flat cable yellow/flat cable black		
		inputs/outputs: M12 round conne	ector	
Mass		100 g		
Mounting		Mounting plate		

Function

The VAA-2EA-G2-ZE/E2 is an AS-Interface coupling module with 2 inputs and 2 outputs. Mechanical contacts and 2- and 3-wire sensors can be connected to the inputs. The outputs are electronic outputs, which can be loaded to 24 V DC and 1.5 A per output.

The IP67 flat module features an integrated addressing jack and is ideal for applications in the field.

Connection to the sensors/actuators is provided via M12 x 1 screw connections. The current switching state of each channel is indicated by an LED, located on the module's top side. Similarly, an LED is provided to monitor the AS-Interface communication and to indicate that the module has the address 0. If an AS-Interface communication error occurs, the outputs are de-energised.

The input circuit is monitored for short circuits. LEDs are also provided to indicate AS-Interface voltage and 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 cables from both sides. This means, for example, that 90° curves can be laid with very tight radii (variable flat cable

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

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

PEPPERL+FUCHS

Mounting plate

EN 60529

Mounting

Standard conformity Degree of protection

ves

Compliance with standards and directi-