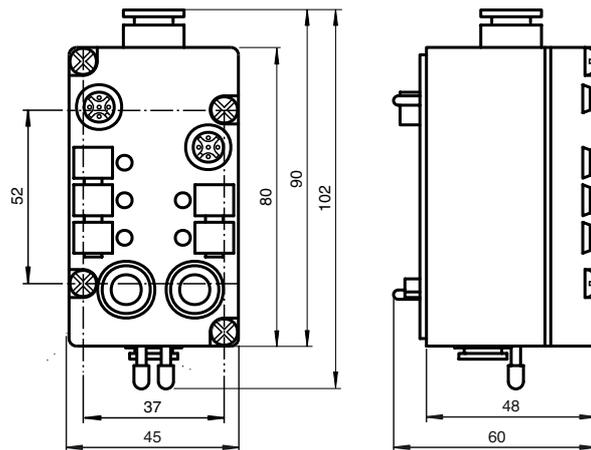## Model number

VAA-2EA-G1-ZE/P-V2A

Pneumatic module
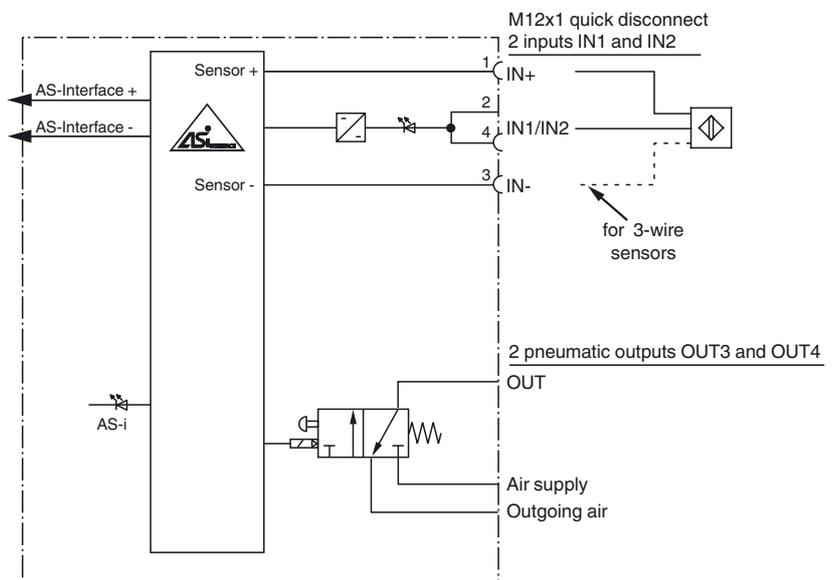2 inputs/2 pneumatic outputs

Features

- AS-Interface certificate
- Degree of protection IP67
- Flat or round cable connection (via standardized EMS base, not included with delivery)
- Cable piercing method for flat cable
- Inputs for 2- and 3-wire sensors
- Function display for bus, inputs and outputs
- Direct connection of pneumatic cylinders
- Stainless steel version, especially suitable for applications in the food industry
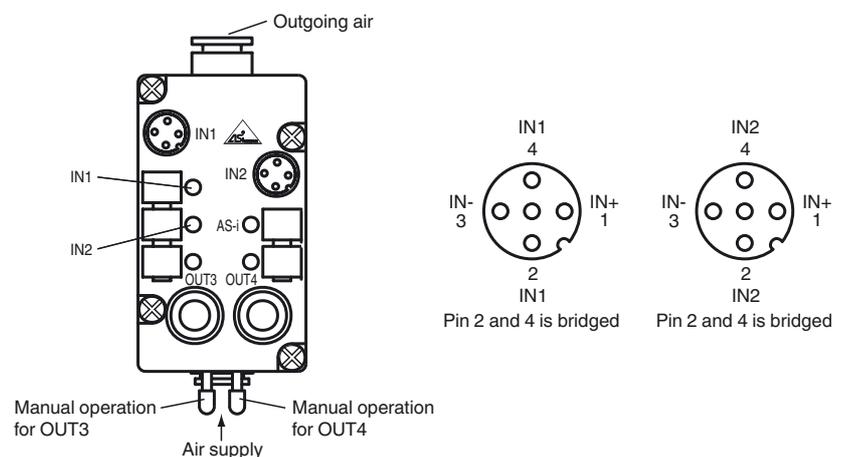- Guided exhaust

Dimensions

Electrical connection

M12x1 quick disconnect
2 inputs IN1 and IN2

for 3-wire sensors

2 pneumatic outputs OUT3 and OUT4

Indicating / Operating means

Outgoing air

Manual operation for OUT3

Manual operation for OUT4

Air supply

IN1
Pin 2 and 4 is bridged

IN2
Pin 2 and 4 is bridged

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical data

General specifications
Slave type	Standard slave

Indicators/operating means
LED AS-i	AS-Interface voltage; LED green
LED IN	switching state (input); 2 LED yellow
LED OUT	Switching state (output); 2 LED yellow

Electrical specifications
Rated operating voltage	U_e	29.5 ... 31.6 V from AS-Interface
Rated operating current	I_e	≤ 45 mA (without sensors)

Input
Number/Type	2 inputs for 2- or 3-wire sensors (PNP), DC
Supply	from AS-Interface
Current loading capacity	≤ 100 mA, short-circuit protected
Switching point	OFF: ≤ 1.5 mA ON: ≥ 5 mA, ≥ 10 V

Output
Number/Type	2 pneumatic outputs with separated 3/2-way valves

Pneumatic output
Venting guide	Connector
Compressed air	2 ... 8 bar, filtered (5 µm), oiled or unoiled compressed air
Air throughput	400 l/min

Directive conformity
Electromagnetic compatibility	
Directive 2014/30/EU	EN 62026-2:2013

Standard conformity
Degree of protection	EN 60529:2000
AS-Interface	EN 62026-2:2013

Programming instructions
Profile	S-3.F
IO code	3
ID code	F
ID1 code	F
ID2 code	F

Data bits (function via AS-Interface)	input	output
D0	IN1	-
D1	IN2	-
D2	-	OUT3
D3	-	OUT4
Parameter bits (programmable via AS-i)	function	
P0	not used	
P1	not used	
P2	not used	
P3	not used	

Ambient conditions
Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Storage temperature	-20 ... 85 °C (-4 ... 185 °F)

Mechanical specifications
Degree of protection	IP67 according to EN 60529
Connection	cable piercing methos or terminals flat cable or standard round cable inputs: M12 x 1 quick disconnect outputs: plug-in hose connector (8 mm)
Mass	approx. 200 g
Mounting	DIN rail or screw mounting

Function

The VAA-2EA-G1-ZE/P-V2A module has 2 inputs for 2- or 3-wire sensors and 2 pneumatic outputs with a high air throughput rate for direct control of pneumatic drives in the field. Two separate 3/2-way valves are integrated in the module. The valve as well as the sensors connected to the module are supplied via the bus cable.

Sensors are connected to the module with a M12 x 1 quick disconnect, and standard hose plug connectors (LEGRIS LF 3000, 8 mm) connect the outputs to the pneumatic drive.

Various bases are available for the module. Use the U-G1F base to connect to the ASInterface flat cable, and use the U-G1P base to connect to the round cable.

The output modules must often be mounted in series with the pneumatic module. The outputs of the output modules are supplied externally with power. When this power is transferred through a flat cable, the power cable must be installed in the base of the pneumatic module. The U-G1FF base should be used in this case. The VAA-2EA-G1-ZE/P-V2A uses the AS-Interface cable instead of the power cable.

Advice:
Program slave address before installation (preadjust to 0).
Medium: filtered (5 mµ), oiled or unoiled compressed air (2 to 8 bar).

Warning:
Hazardous voltage can cause electronical shock and burns. Disconnect power before proceeding with any work on this equipment.

Accessories

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

VBP-HH1-V3.0
AS-Interface Handheld

Matching system components

U-G1F
AS-Interface module mounting base for connection to flat cable (AS-Interface)

U-G1P
AS-Interface module mounting base for connection to round cable (AS-Interface)

U-G1FA
AS-Interface module mounting base with adressing jack for connection to flat cable (AS-Interface)

Notes

Examples for functions of the AS-Interface Airbox

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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