Model number

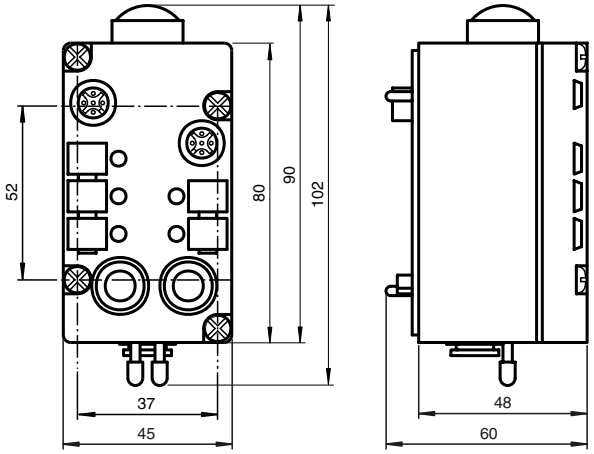
VAA-2EA-G1-ZE/P-S

Pneumatic module
2 inputs/2 pneumatic outputs

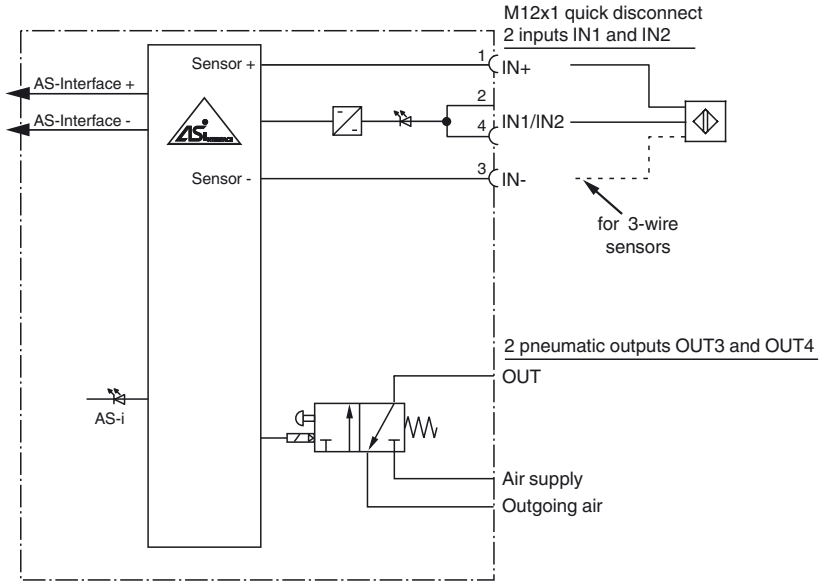
Features

- AS-Interface certificate
- Degree of protection IP65
- 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

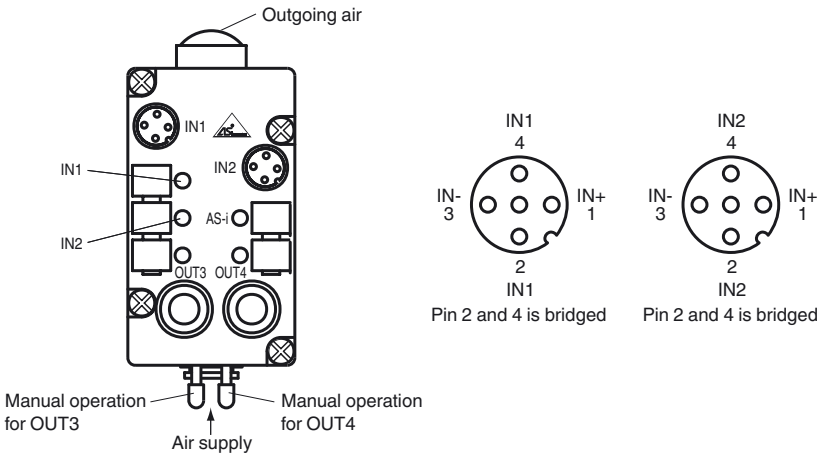
Dimensions



Electrical connection



Indicating / Operating means



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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	26.5 ... 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		Sinter filter	
Compressed air		2 ... 8 bar, filtered (5 µm), oiled or unoiled compressed air	
Air throughput		400 l/min	
Valve cross-section		5 mm	
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 ... 55 °C (-4 ... 131 °F)	
Mechanical specifications			
Degree of protection		IP65 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-S 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-S uses the AS-Interface cable instead of the power cable.

Advice:

Program slavee address before installation (preadjust to 0).

Medium: filtered (5 µm), 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)

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Refer to “General Notes Relating to Pepperl+Fuchs Product Information”.
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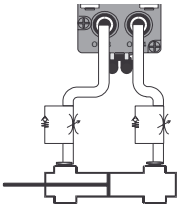
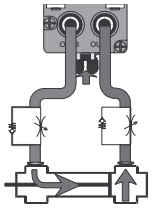
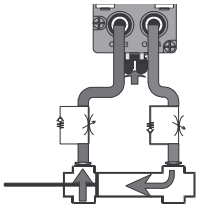
Notes

Examples for functions of the AS-Interface Airbox







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