





Model number

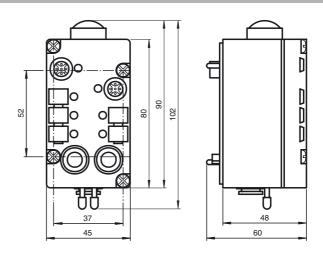
VAA-4E2A-G1-ZE/P-S

Pneumatic module 4 inputs/2 pneumatic outputs

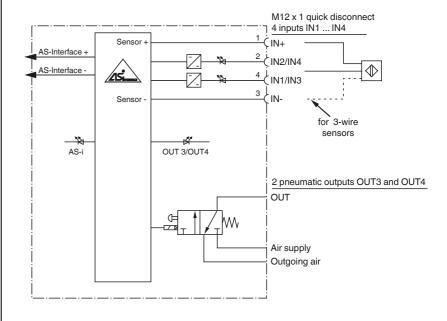
Features

- AS-Interface certificate
- Protection degree 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

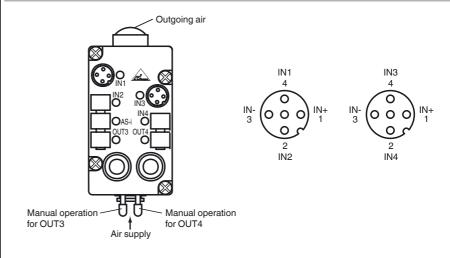
Dimensions



Electrical connection



Indicating / Operating means



Technical data					
General specifications					
Slave type		Standard slave			
Functional safety related para	meters				
MTTF _d		44 a			
Mission Time (T _M)		10 a			
Diagnostic Coverage (DC)		0 %			
Indicators/operating means					
LED AS-i	LED AS-i		AS-Interface voltage; LED green		
LED IN			D yellow		
LED OUT		Switching state (output); 2 I	_ED yellow		
Electrical specifications					
Rated operating voltage	U_e	26.5 31.6 V from AS-Interface			
Rated operating current	l _e	≤ 45 mA (without sensors)			
		≤ 200 mA (complete)			
Input					
Number/Type		2x 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		014. 2 0 HIA, 2 10 V			
Number/Type		2 pneumatic outputs with se	enarated 3/2-way valves		
Pneumatic output		2 pricarriado odipais with se	Sparated 0/2 way valves		
Venting guide		Sinter filter			
Compressed air		2 8 bar, filtered (5 μm), oiled or unoiled compressed air			
Air throughput		550 NI/min at 6/0 bar			
7 iii diiodgripat		350 NI/min at 6/5 bar NI = Standard litre			
Valve cross-section		5 mm			
Programming instructions					
Profile		S-7.F			
IO code		7			
ID code		F			
ID1 code		F			
ID2 code		F			
Data bits (function via AS-Inter	rface)	input	output		
D0		IN1	-		
D1		IN2	-		
D2		IN3	OUT3		
D3	i - AC i\	IN4	OUT4		
Parameter bits (programmable	e via AS-i)				
P0 P1		not used			
P2		not used not used			
P3		not used			
		not used			
Ambient conditions		0 55 °C (32 131 °F)			
Ambient temperature Storage temperature		-20 85 °C (-4 185 °F)			
• ,		-20 03 C (-4 103 F)			
Mechanical specifications		IDGE according to EN COEO	0		
Protection degree Connection		IP65 according to EN 60529 cable piercing methos or terminals			
Connection		flat cable or standard round inputs: M12 x 1 quick disco outputs: plug-in hose conne	cable nnect		
Mass		approx. 200 g	· ,		
Manuatian		DIM well an account of the second			

Function

The VAA-4E2A-G1-ZE/P-S module features 4 inputs for the connection of 2- or 3-wire sensors and 2 pneumatic outputs with a high air flow rate for direct control of pneumatic drives in the field. 2 separate 3/2-way valves are integrated in the module. Both the valve and the sensors connected to the module are supplied via the bus cable.

The sensors are connected to the module via M12 x 1-circular connectors; the outputs are connected to the pneumatic drive via standard hose plug-in connectors (LEGRIS LF 3000, 8 mm).

Various bases are available for the module. The U-G1F (or U-G1FA) base provides the connection to the AS-Interface flat cable; the U-G1P base provides the connection to a round cable.

It happens very frequently that output modules must be installed in series with the pneumatic module. If the outputs of the output modules are supplied with external power transferred via a flat cable, a suitable EEMS base (U-G1FF or U-G1FFA) must be used for the pneumatic module. In this case, VAA-4E2A-G1-ZE/P-S accesses the AS-Interface cable instead of the power supply cable.

The slave address must be programmed before commissioning (default setting 0). Medium: Filtered (5 µm), oiled or unoiled compressed air (2 ... 8 bars).

Warning:

Dangerous electric voltage can lead to electric shock and burns. The system must be disconnected from the power supply before the beginning of the works.

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)

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

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

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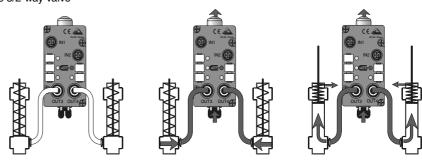
DIN rail or screw mounting

Mounting

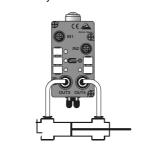
Notes

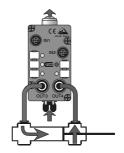
Examples for functions of the AS-Interface Airbox

as 3/2-way valve



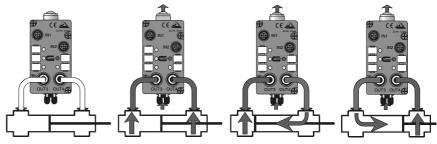
as 4/2-way valve





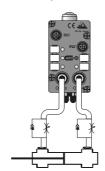


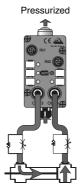
as 5/2-way valvel

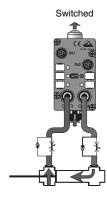


as 5/2-way valve









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