







Model number

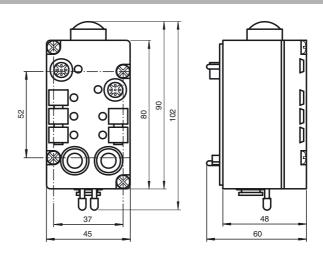
VAA-4E2A-G1-ZE/PEXT-S

Pneumatic module 4 inputs/2 pneumatic outputs

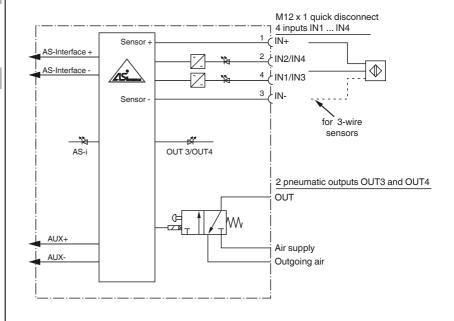
Features

- AS-Interface certificate
- Protection degree IP65
- Flat or round cable connection (via standardized EEMS 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
- External power supply of valves are possible

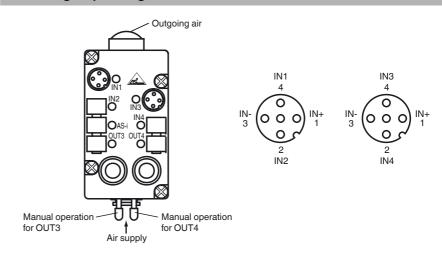
Dimensions



Electrical connection



Indicating / Operating means



Technical data			
General specifications			
Slave type		Standard slave	
Functional safety related pa	rameters		
MTTF _d		44 a	
Mission Time (T _M)		10 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
LED AS-i		AS-Interface voltage; LED	green
LED IN		switching state (input); 4 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 24 V DC PELV according to IEC 364-4-41 from external auxiliar voltage U _{AUX}	
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	
i.i. i		from AS-Interface	
• , ,		≤ 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		550 NI/min at 6/0 bar 350 NI/min at 6/5 bar NI = Standard litre	
Valve cross-section		5 mm	
Programming instructions			
Profile		S-7.F	
IO code		7	
.=		F	
ID1 code		F	
ID2 code		F	
Data bits (function via AS-In	terface)	input	output
D0		IN1	-
D1		IN2	
D2		IN3	OUT3
D3		IN4	OUT4
Parameter bits (programma	ble via AS-i)		
P0 P1		not used	
		not used	
P3		not used not used	
		not used	
Ambient conditions		0 55 90 (00 101 95)	
Ambient temperature Storage temperature		0 55 °C (32 131 °F) -20 85 °C (-4 185 °F)	
5 1		-20 05 C (-4 105 F)	
Mechanical specifications		IDOSII - EN COST	20
Protection degree Connection		IP65 according to EN 60529	
fl ir		cable piercing methos or terminals flat cable or standard round cable inputs: M12 x 1 quick disconnect outputs: plug-in hose connector (8 mm)	

Function

The VAA-4E2A-G1-ZE/PEXT-S module has four inputs for the connection of 2 or 3 wire sensors and two pneumatic outputs with a high air throughput for direct control of pneumatic drives in the field. The module houses two separate 3/2 port directional control valves. The module as well as the sensors connected are supplied with energy by the bus line. For faster switching action, the valves can be supplied by external power.

By means of the M12 x 2 round connectors, the sensors are connected up to the module; standard hose plug connectors (LEGRIS LF 3000, 8 mm) are used to attach the outputs to the pneumatic drive.

Various base units are available for the module. If the external energy supply of the valves is provided by a flat cable (EEMS), the connection of the AS-Interface is rendered by means of U-G1FF base (or U-G1PP). If the external power supply is provided by a round cable, the connection is established to the U-G1PP base.

Note:

Program the slave address prior to the initial operation (default setting 0).

Medium: filtered (5 µm), oiled or unoiled compressed air (2 to 8 bar).

Warning:

Dangerous electric voltage may lead to electric shock and burns. De-energise the plant and the device prior to any work.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VBP-HH1-V3.0

AS-Interface Handheld

Matching system components

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

U-G1PP

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

U-G1FFA

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

PEPPERL+FUCHS

approx. 200 g

DIN rail or screw mounting

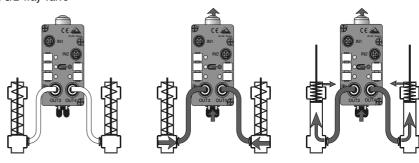
Mass

Mounting

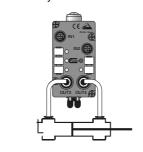
Notes

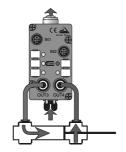
Examples for functions of the AS-Interface Airbox

as 3/2-way valve



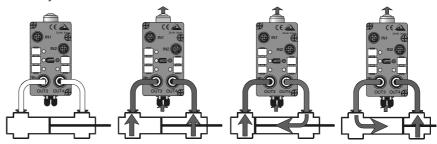
as 4/2-way valve







as 5/2-way valvel



as 5/2-way valve



