Dimensions



### Model number

### VAA-4E4A-CB1-Z/E2

Printed circuit board module encapsulated in housing for expansion to 8 inputs/8 outputs

## **Features**

- Integrated communication monitoring ٠ function
- Inputs and outputs short-circuit and overload proof
- No external power supply required
- Connection via removable screw terminals

## **Function**

The internal AS-Interface I/O module is ideally suited to integrating customer-specific electronics, for example light sensors or LED lights. The printed circuit board is supplied entirely from the AS-Interface. The inputs and outputs are protected against short circuits and overload and the connection between the display and control elements and the AS-Interface circuit board can be plugged in with screw-on plug-in terminals. The connection to the AS-Interface is implemented by means of plug-in screw terminals.

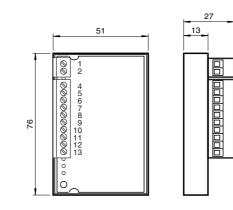
An overloading of the outputs is signalled to the AS-Interface master via the "Peripheral fault" function. Communication via the AS-Interface remains intact.

#### Note:

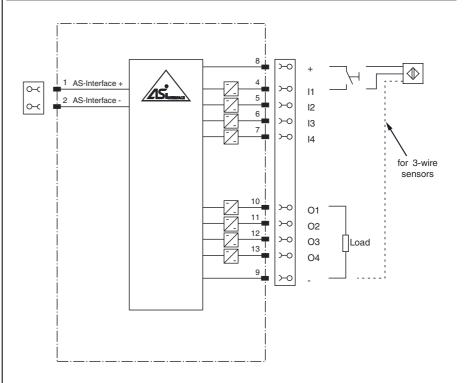
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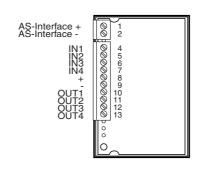
Communication monitoring is integrated. This switches the outputs to a currentless state if no communication is taking place over the AS-Interface cable.



## **Electrical connection**



## Indicating / Operating means



127361\_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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# AS-Interface printed circuit board module

# VAA-4E4A-CB1-Z/E2

Technical data			
General specifications			
Slave type		Standard slave	
AS-Interface specification		V2.0	
Required master specification		≥ V2.0	
UL File Number		E87056	
Electrical specifications			
Rated operating voltage U	е	26.5 31.6 V from AS-Interface	
Rated operating current Ie		≤ 30 mA (without sensors) / max. 180	mA
Protection class		111	
Input			
Number/Type 4		4 inputs for 2- or 3-wire sensors (PNP), DC	
Supply		from AS-Interface	
Voltage		21 31 V	
Input current		$\leq$ 8 mA (limited internally)	
Switching point		according to EN 61131-2 Typ 1	
0 (unattenuated)		≤ 1.5 mA	
1 (attenuated)		≥4 mA	
Output			
Number/Type		4 electronic outputs, PNP	
Supply		from AS-Interface	
Current		$\leq$ 100 mA per output, $\leq$ 140 mA total	
Voltage		21 31 V	
Programming instructions			
Profile		S-7.0	
IO code		7	
ID code		0	
ID1 code		F	
ID2 code		E	
Data bits (function via AS-Interface)		input	output
D0		IN1	OUT1
D1		IN2	OUT2
D2		IN3	OUT3
D3		IN4	OUT4
Parameter bits (programmable via AS-i)		function	
P0		not used	
P1		not used	
P2		not used	
P3		not used	
Ambient conditions			
Ambient temperature		-25 60 °C (-13 140 °F)	
Storage temperature		-40 85 °C (-40 185 °F)	
Mechanical specifications			
Connection		screw terminals, removable	
Compliance with standards and dir ves	ecti-		
Directive conformity			
EMC Directive 89/336/EEC		EN 61000-6-2:2001, EN 61000-6-4:2	001, EN 50295:1999
Standard conformity			
Noise immunity		EN 61000-6-2:2001	
Emitted interference		EN 61000-6-4:2001	
Input		EN 61131-2	
Fieldbus standard		EN 50295:1999	
Netes			

## Notes

The AS-Interface I/O module is ideally suited to integrating customer-specific electronics, for example light sensors or LED lights. The printed circuit board is supplied entirely from the AS-Interface. The inputs and outputs are protected against short circuits and overload and the connection between the display and control elements and the AS-Interface circuit board can be plugged in with screw-on plug-in terminals. The connection to the AS-Interface is implemented by means removable screw terminals.

#### Note:

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Communication monitoring is integrated. This switches the outputs to a currentless state if no communication is taking place over the AS-Interface cable.

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