

Electrical connection

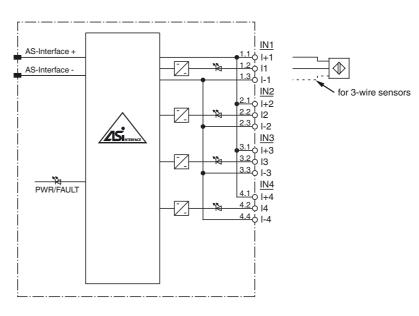
Model number

VAA-4E-G4-ZE

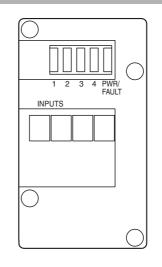
G4 module IP67 4 inputs (PNP)

Features

- 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
- Power supply of inputs from the module
- Function display for bus and inputs
- LED indicator for overload on sensor supply



Indicating / Operating means



Release date: 2020-02-06 11:42 Date of issue: 2020-02-06 187946_eng.xml

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

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 0001

Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com fa-info@us.pepperl-fuchs.com

486 0001 Germany: +4

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



1

AS-Interface sensor module

Technical data

General specifications Slave type AS-Interface specification Required master specification UL File Number Indicators/operating means LED PWR/FAULT

LED IN **Electrical specifications** Rated operating voltage Rated operating current Protection class Surge protection

Input

Number/Type Supply Voltage Current loading capacity

Input current Switching point 0 (unattenuated) 1 (attenuated) **Directive conformity** Electromagnetic compatibility Directive 2014/30/EU Standard conformity Degree of protection

Fieldbus standard Input Emitted interference AS-Interface Noise immunity

Programming instructions Profile IO code ID code ID1 code ID2 code D0 D1

D2 D3

P0

P1 P2

P3

Altitude

Materia Housing

Mounting

Mass

Data bits (function via AS-Interface) Parameter bits (programmable via Ambient conditions Ambient temperature Storage temperature Relative humidity Climatic conditions Pollution degree Mechanical specifications Degree of protection Connection yellow flat cable or standard round cable

PA 6 GF30 180 g 0.8 Nm Tightening torque, housing screws

Notes

Do not connect inputs and outputs, which are supplied via the module from AS-interface or via auxiliary power, with power supply and signal circuits with external potentials.

	Standard slave		
	V3.0		
	≥ V2.0 E223772		
	dual LED green/red		
	green: AS-Interface voltage		
	red: communication error or add	ress 0	
	green/red flashing: overload ser	sor supply	
	switching state (input); 4 LED ye	llow	
J _e	26.5 31.6 V from AS-Interface		
е	≤ 40 mA (without sensors) / max	. 190 MA	
	U _e : Over voltage category III, safe isolated power supplies		
	(PELV)	ie isolaleu powel supplies	
	· · · /		
	4 inputs for 2- or 3-wire sensors	(PNP), DC	
	from AS-Interface		
	21 31 V		
	\leq 150 mA (T _B \leq 40 °C),		
	\leq 120 mA (T _B \leq 60 °C), short-circuit protected		
	\leq 8 mA (limited internally)	ino 2)	
	according to DIN EN 61131-2 (T $\leq 2 \text{ mA}$	ype 2)	
	$\geq 4 \text{ mA}$		
	EN 62026-2:2013 EN 61000-6-2	2:2005 EN 61000-6-4:2007	
	EN 60529:2000		
	EN 62026-2:2013		
	EN 61131-2:2007		
	EN 61000-6-4:2007		
	EN 62026-2:2013 EN 61000-6-2:2005		
	2110100002.2000		
	S-0.0		
	0		
	0		
	F		
	E		
)	input	output	
	IN1	-	
	IN2 IN3	•	
	IN3 IN4	-	
AS-i)	function		
.,	not used		
	not used		
	notused		
	not used		
	-25 60 °C (-13 140 °F)		
	-25 85 °C (-13 185 °F)		
	85 % , noncondensing For indoor use only		
	\leq 2000 m above MSL		
	3		
	IP67		
	cable piercing method or termin	al compartment	

inputs: M12 x 1.5 cable gland and cage tension spring terminals

DIN rail or screw mounting

Function

The VAA-4E-G4-ZE AS-Interface coupling module is a G4 module with 4 inputs. Mechanical contacts and 2- and 3-wire sensors can be connected to the inputs. The sensors are supplied via the module.

The IP67 rated G4 module is especially suitable for rough conditions. Sensors attach to cable glands and cage tension spring terminals thus making the installation especially user-friendly. For pre-addressing the module it can be plugged directly onto the adapter of the hand-held programming device VBP-HH1.

The current switching state of each channel is indicated by an LED, located on the module's ton side

Both flat and round cables can be used for the connection of the AS-Interface transmission line. Use the U-G1F base or the U-G1FF base for the AS-Interface flat cable. The AS-Interface cable is connected using the cable piercing method. The U-G1F base can also be used as IP67 AS-Interface distribution box. The U-G1FF base should be used, when modules with outputs are mounted in series with the module. The flat cable for external power supply can be placed in this base. The module does not access the supply line.

Use the U-G1P or the U-G1PP base for a round cable. These bases have the same functionality as the U-G1F or the U-G1FF bases.

Note:

An overloading of the sensor supply, e.g. short-circuit is signalled by a red/green flashing LED "PWR/FAULT" and reported to the AS-Interface master via the "Peripheral fault" function. Communication via the AS-Interface remains intact.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VBP-HH1-V3.0 AS-Interface Handheld

VAZ-G4-B1

Blind plug M12

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)

www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com fa-info@sg.pepperl-fuchs

Singapore: +65 6779 9091



2