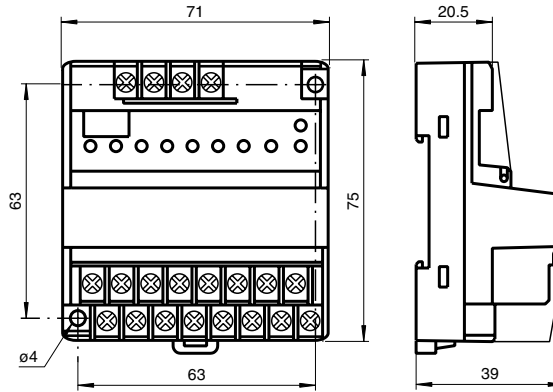
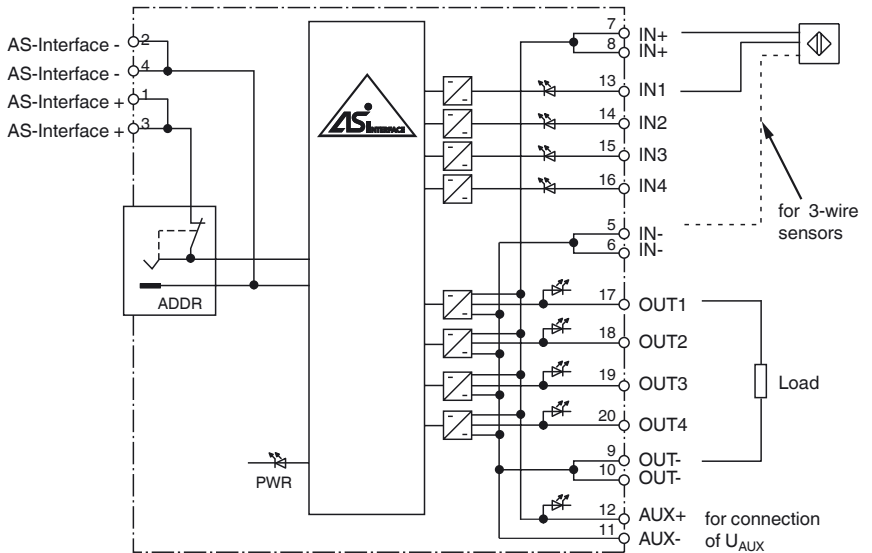




Dimensions



Electrical connection



Model number

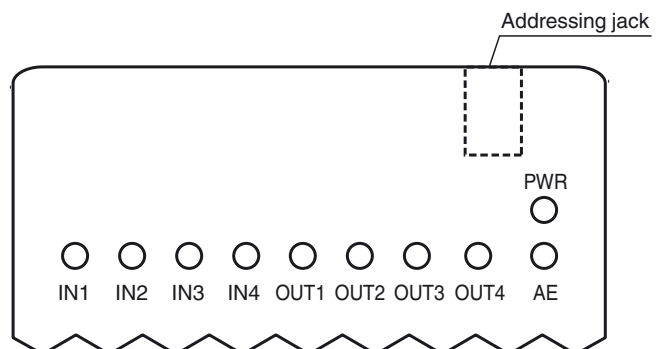
VAA-4EA-K3-ZE/E2

Junction box modul
4 inputs (PNP) and 4 electronic outputs

Features

- AS-Interface certificate
- Inputs for 2- and 3-wire sensors
- Addressing jack
- Power supply of the inputs and outputs from the external auxiliary voltage
- Function display for bus, ext. auxiliary voltage, inputs and outputs

Indicating / Operating means



Release date: 2019-01-09 10:14 Date of issue: 2019-01-09 049053_eng.xml

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

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Technical data**General specifications**

Slave type	Standard slave
AS-Interface specification	V2.0
Required master specification	≥ V2.0
UL File Number	E106378

Indicators/operating means

LED PWR	dual-LED green/red green: AS-Interface voltage, normal operation red: communication error or address 0
LED IN	switching state (input); 4 LED yellow
LED OUT	Switching state (output); 4 LED yellow
LED AE	ext. auxiliary voltage U_{AUX} ; LED green

Electrical specifications

Auxiliary voltage (output)	U_{AUX}	24 V DC ± 15 % PELV
Rated operating voltage	U_e	26.5 ... 31.6 V from AS-Interface
Rated operating current	I_e	≤ 60 mA
Protection class		III

Input

Number/Type	4 inputs for 2- or 3-wire sensors (PNP), DC
Supply	from external auxiliary voltage U_{AUX}
Current loading capacity	≤ 1 A
Input current	≤ 8 mA (limited internally)
Switching point	
0 (unattenuated)	≤ 1.5 mA
1 (attenuated)	≥ 4 mA

Output

Number/Type	4 electronic outputs, PNP
Supply	from external auxiliary voltage U_{AUX}
Current	500 mA per output
Voltage	ext. auxiliary voltage U_{AUX} - 0.5 V

Programming instructions

Profile	S-7.F
IO code	7
ID code	F

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	communication monitoring P0 = 1 (default settings), monitoring = ON, i.e. if communication fails, the outputs are de-energised P0 = 0, monitoring = OFF, if communication fails, the outputs maintain their condition
P1	not used
P2	not used
P3	not used

Ambient conditions

Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)

Mechanical specifications

Degree of protection	IP20
Connection	terminal connection ≤ 2.5 mm ²
Mass	110 g
Mounting	DIN rail or screw mounting

Compliance with standards and directives

Standard conformity	
Degree of protection	EN 60529

Function

The VAA-4EA-K3-ZE/E2 AS-Interface coupling module is a junction box module with 4 inputs and 4 electronic outputs. Mechanical contacts and 2- and 3-wire sensors can be connected to the inputs.

The design of this module makes it particularly suitable for operation within a junction box. Its housing, only 39 mm thick, occupies little space in an installation. The VAA-4EA-K3-ZE/E2 is installed by snapping it onto the 35 mm DIN Rail per EN 50022.

Screw terminals are available, for connecting the inputs and outputs or the AS-Interface cable. These permit the connection of conductors of up to 2.5 mm². The inputs and outputs of the module are supplied externally with 24 V DC. The external power supply may be directly connected to the module. Separate terminals are available for the supply of sensors/actuators, which are connected to the respective lines of the sensors/actuators (see connection diagram). A green LED indicates if the external power supply is available. The module itself is supplied via the AS-Interface cable. The outputs can be loaded with up to 0.5 A per channel.

The current switching state of each input and output is indicated by a yellow LED, located on the unit's front panel.

The power supply through AS-Interface is indicated by a dual LED, which is also used to indicate the address of zero, and for communication monitoring.

A programming jack is integrated into the unit, for address configuration before or after installation. It permits a connection to the hand-held programming device.

Accessories**VBP-HH1-V3.0-KIT**

AS-Interface Handheld with accessory

VBP-HH1

Handheld programming device

VAZ-PK-1,5M-V1-G

Adapter cable module/hand-held programming device