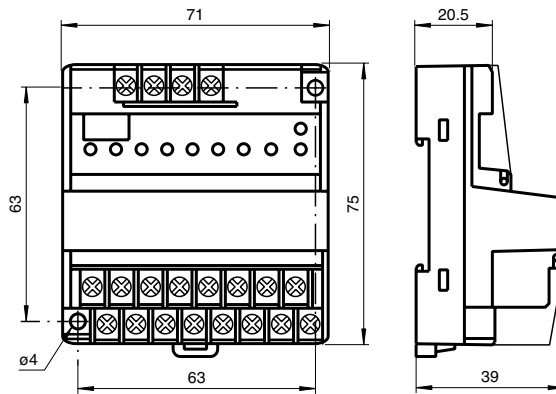
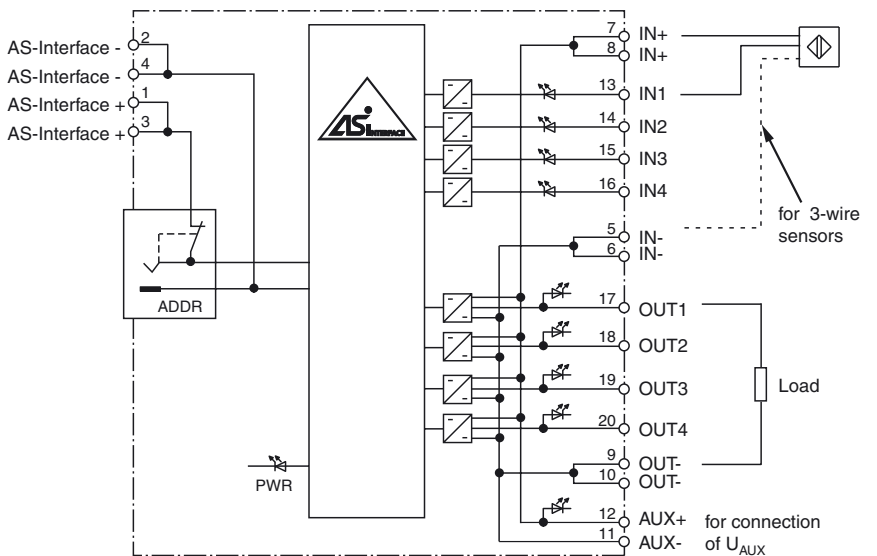




Dimensions



Electrical connection



Model Number

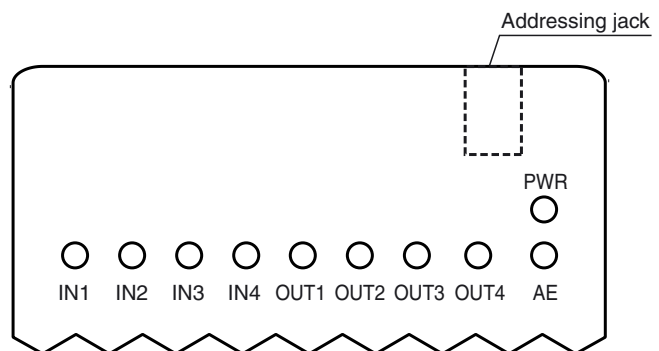
VAA-4EA-K3-ZE/E2

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



## 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
Protection class		III
Rated operational voltage	$U_e$	26.5 ... 31.6 V from AS-Interface
Rated operational current	$I_e$	≤ 60 mA

## 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 (basic setting), 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 (248 ... 333 K)
Storage temperature	-25 ... 85 °C (248 ... 358 K)

## Mechanical specifications

Protection degree	IP20
Connection	terminal connection ≤ 2.5 mm <sup>2</sup>
Mass	110 g
Mounting	DIN rail or screw mounting

## Compliance with standards and directives

Standard conformity	
Protection degree	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 mm<sup>2</sup>. 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**  
AS-Interface handheld

**VAZ-PK-1,5M-V1-G**  
Connection cable module/hand-held programming device