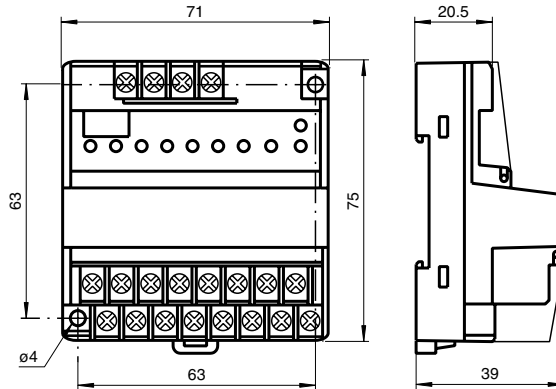
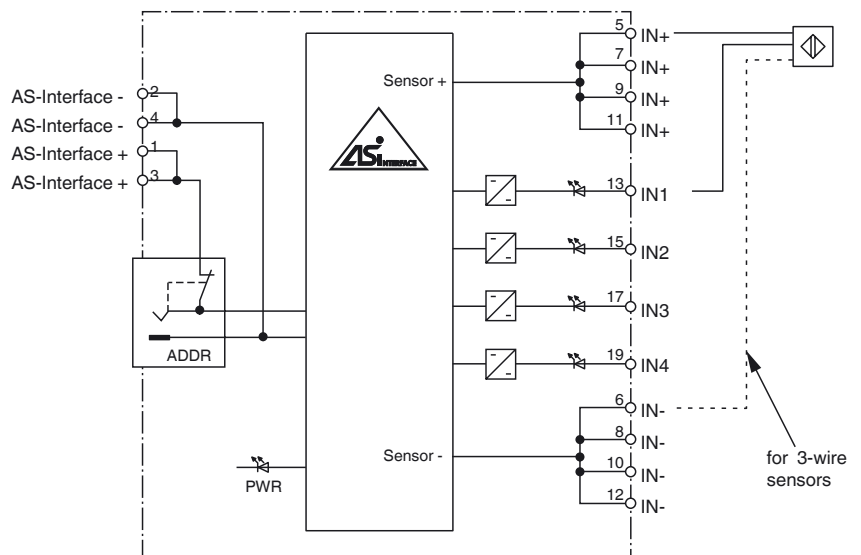




Dimensions



Electrical connection



Model number

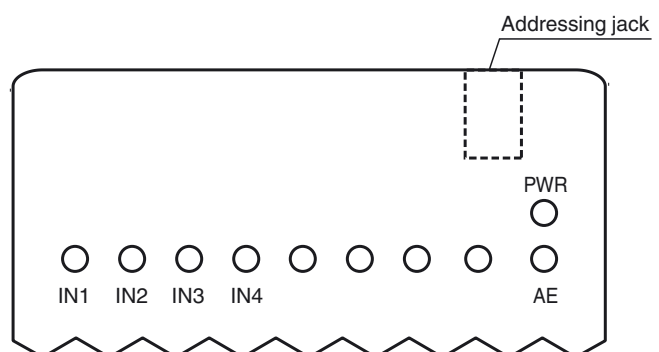
VAA-4E-K3-ZE

Junction box module  
4 inputs (PNP)

Features

- AS-Interface certificate
- Inputs for 2- and 3-wire sensors
- Addressing jack
- Power supply of inputs from the module
- Function display for bus and inputs
- Monitoring of sensor overloads
- Connectable input filter

Indicating / Operating means



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**Technical data****General specifications**

Slave type	Standard slave
UL File Number	E87056

**Indicators/operating means**

LED PWR	dual LED green/red green: AS-Interface voltage red: communication error or address 0 green/red flashing: overload sensor supply
LED IN	switching state (input); 4 LED yellow

**Electrical specifications**

Rated operating voltage	$U_e$	26.5 ... 31.6 V from AS-Interface
Rated operating current	$I_e$	≤ 50 mA (without sensors) / max. 220 mA
Protection class		III

**Input**

Number/Type	4 inputs for 2- or 3-wire sensors (PNP), DC
Supply	from AS-Interface
Current loading capacity	≤ 170 mA, short-circuit protected
Input current	≤ 8 mA (limited internally)
Switching point	
0 (unattenuated)	≤ 1 mA
1 (attenuated)	≥ 4.5 mA

**Programming instructions**

Profile	S-0.0
IO code	0
ID code	0

Data bits (function via AS-Interface)	input	output
D0	IN1	-
D1	IN2	-
D2	IN3	-
D3	IN4	-

**Parameter bits (programmable via AS-i)**

function	
P0	not used
P1	Input filter P1 = 0 input filter on, pulse suppression ≤ 2 ms P1 = 1 input filter off (default settings)
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 according to EN 60529
Connection	terminal connection ≤ 2.5 mm <sup>2</sup>
Mass	110 g
Mounting	DIN rail or screw mounting

**Function**

The VAA-4E-K3-ZE AS-Interface coupling module is a junction box module with 4 inputs. The inputs permit the connection of 2- and 3-wire sensors and of mechanical contacts (e. g. push buttons).

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-4E-K3-ZE is installed by snapping it onto the 35 mm DIN rail per EN 50022.

Screw terminals connect the inputs and the AS-Interface cable. These permit the connection of conductors of up to 2.5 mm<sup>2</sup>.

The sensors connected to the module are supplied with power through the AS-Interface (see connection diagram). The module monitors the total current for the sensors. If an overload (overload sensor) occurs, the module disconnects from the AS-Interface and indicates this status by a flashing red/green LED.

This does not apply to Z sensors.

This PWR LED also indicates whether the device is working properly or whether it has detected an error. In the case of communication failure/address of zero, the LED lights up red, whereas for normal communication it lights up green.

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

An input filter, that ignores pulses of up to 5 ms on the input line, can be activated by the parameter P1.

**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