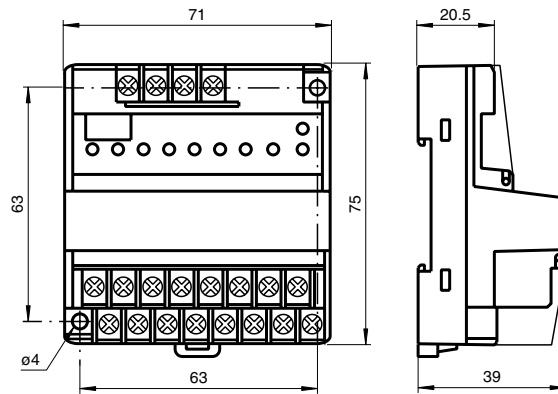
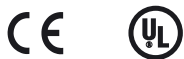
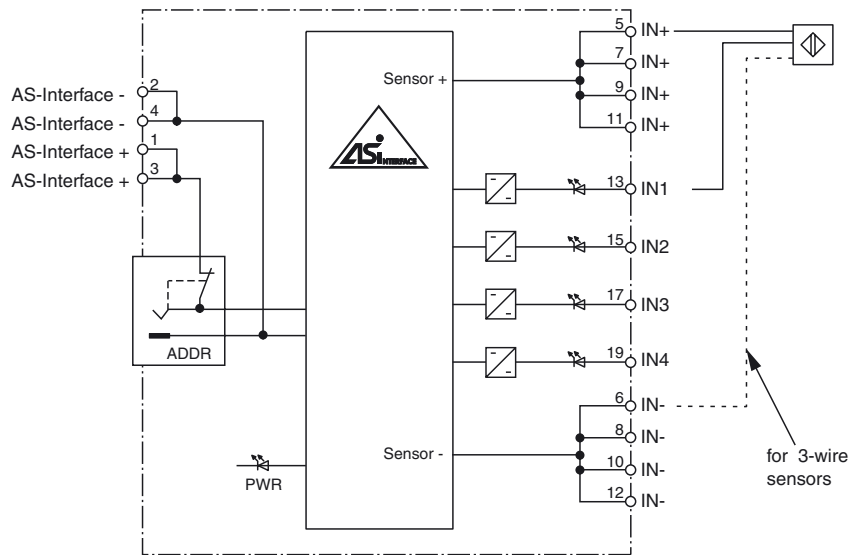




Dimensions



Electrical connection



Model Number

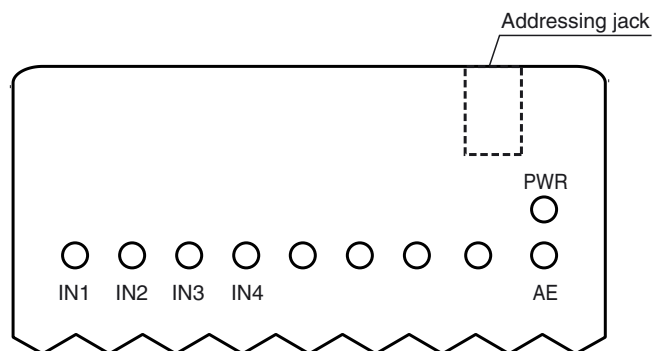
VAA-4E-K3-ZE

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



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

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

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 (basic setting)
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 according to EN 60529
Connection	terminal connection ≤ 2.5 mm ²
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 mm².

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
AS-Interface handheld

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