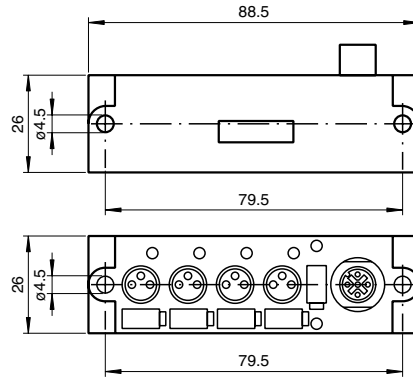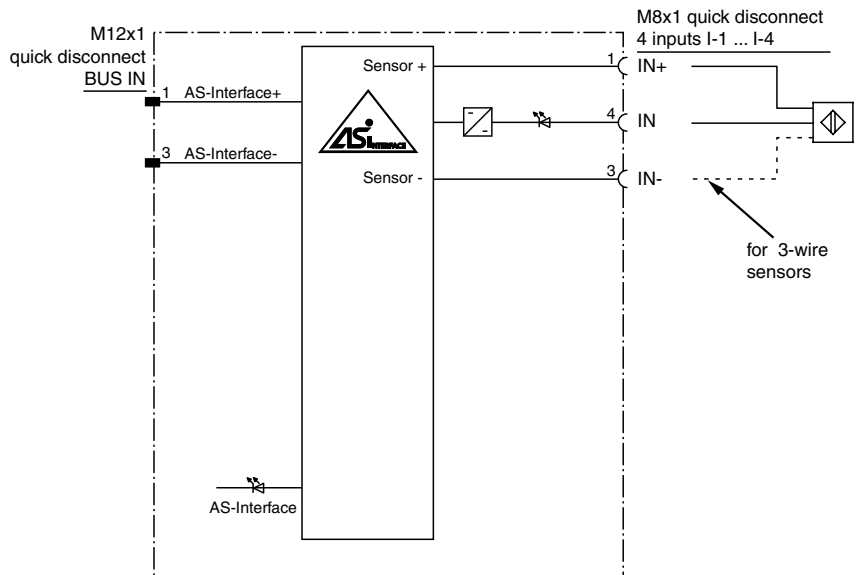## Dimensions

Electrical connection
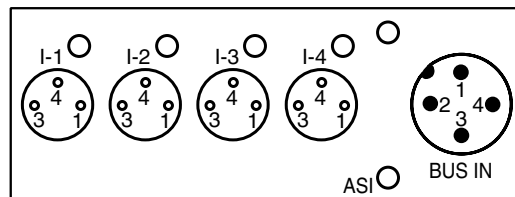

Model Number

VAA-4E-G6-ZE

G6 compact module
4 inputs (PNP)

Features

- AS-Interface certificate
- Compact design, can be mounted in any position
- Protection degree IP67
- Connections via round connector
- Inputs for 2- and 3-wire sensors
- Power supply of inputs from the module
- Function display for bus and inputs

Indicating / Operating means

Subject to reasonable modifications due to technical advances.

Technical data

General specifications

Slave type	Standard slave
AS-Interface specification	V2.0
Required master specification	$\geq$ V2.0
UL File Number	E87056

Indicators/operating means

LED AS-i	AS-Interface voltage; LED green
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	$\leq$ 40 mA (without sensors) / max. 240 mA

Input

Number/Type	4 inputs for 2- or 3-wire sensors (PNP), DC
Supply	from AS-Interface
Voltage	21 ... 31 V
Current loading capacity	$\leq$ 200 mA ($T_B \leq$ 40 °C), $\leq$ 150 mA ($T_B \leq$ 60 °C), short-circuit protected
Input current	$\leq$ 8 mA (limited internally)
Switching point	
0 (unattenuated)	$\leq$ 1.5 mA
1 (attenuated)	$\geq$ 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	not used
P2	not used
P3	not used

Ambient conditions

Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Storage temperature	-20 ... 85 °C (253 ... 358 K)

Mechanical specifications

Protection degree	IP67
Connection	AS-Interface: M12 x 1 round connector sensors: M8 x 1 round connector
Mounting	screw mounting

Compliance with standards and directives

Directive conformity	observe notices on the certificate of conformity.
Standard conformity	
Interference rejection	EN 61000-6-2:2001
Emitted interference	EN 61000-6-4:2001
AS-Interface	EN 50295:1999-10
Input	EN 61131-2
Protection degree	EN 60529

Function

The VAA-4E-G6-ZE is an AS-Interface compact module with 4 inputs. Mechanical contacts and 2- and 3-wire sensors can be connected to the inputs.

Its particularly flat and narrow design makes the IP67 compact module especially suitable for applications in handling machines, robots etc. To achieve this protection class, it features completely encapsulated electronics. The module has the further advantage that it can be mounted in any position.

The connection to the AS-Interface cable is established via an M12 x 1 quick disconnect. Please refer to the technical data for the pin assignments. An advantage of this connection is that a separate base is not required. Address configuration may also be carried out using a standard cable with M12 x 1 quick disconnects.

Sensors attach to M8 x 1 quick disconnects. The current switching state of each channel is indicated by an LED, located on the module's top side. The voltages of the AS-Interface and of the external power supply are also indicated by an LED each.

Accessories

VBP-HH1
AS-Interface handheld

VAZ-2T5-G2
AS-Interface splitter box

VAZ-2T1-FK-1M-PUR-V1-W
AS-Interface splitter box