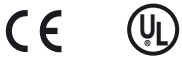
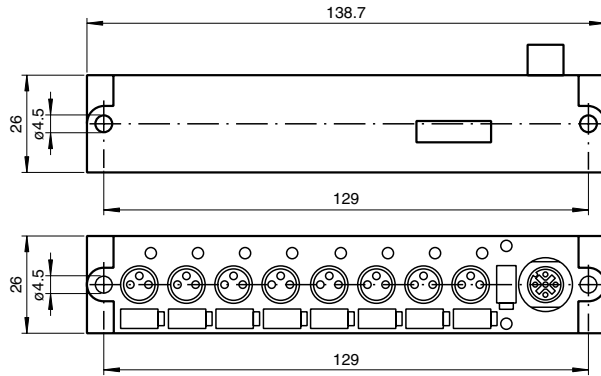




Dimensions



Model Number

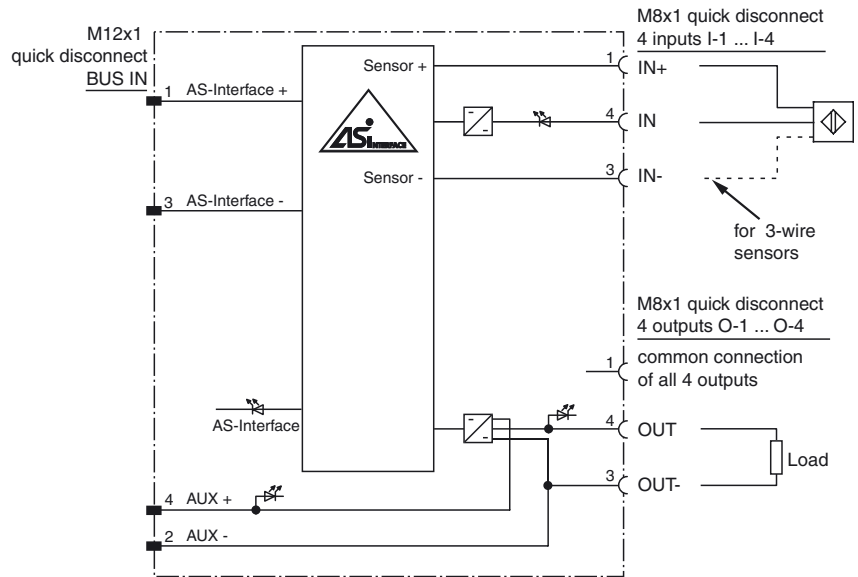
VAA-4EA-G6-ZE/E2

G6 compact module
4 inputs (PNP) and 4 electronic outputs

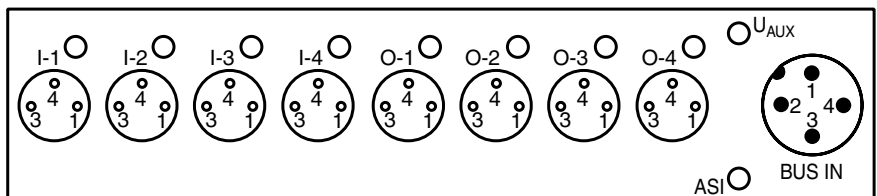
Features

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

Electrical connection



Indicating / Operating means



Release date: 2006-05-26 11:26 Date of issue: 2006-07-26 052123_ENG.xml

Technical data

General specifications

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

Indicators/operating means

LED U _{AUX}	ext. auxiliary voltage U _{AUX} ; LED green
LED AS-i	AS-Interface voltage; LED green
LED IN	switching state (input); 4 LED yellow
LED OUT	switching state (output); 4 LED yellow

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	≤ 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	≤ 200 mA (T _B ≤ 40 °C), ≤ 150 mA (T _B ≤ 60 °C), short-circuit protected
Input current	≤ 8 mA (limited internally)
Switching point	
0 (unattenuated)	≤ 1.5 mA
1 (attenuated)	≥ 4.5 mA

Output

Number/Type	4 electronic outputs, PNP
Supply	from external auxiliary voltage U _{AUX}
Current	0.5 A per output, 2 A total (T _B ≤ 40 °C), 0.4 A per output, 1.6 A total (T _B ≤ 60 °C)
Voltage	≥ (U _{AUX} - 0.5 V)

Programming instructions

Profile	S-7.0
IO code	7
ID code	0

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	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 and auxiliary voltage: M12 x 1 round connector sensors/actuators: 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-4EA-G6-ZE/E2 is an AS-Interface compact module with 4 inputs and 4 outputs. Mechanical contacts and 2- and 3-wire sensors can be connected to the inputs. The outputs are sourcing electronic outputs, which can be loaded to 24 V DC and 0.5 A per output.

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

The connection to the AS-Interface cable and the external power supply 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. A standard cable with M12 x 1 quick disconnects can also be used for addressing.

The sensors/actuators are connected via 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.

The outputs are de-energised (watchdog), whenever communication on the AS-Interface cable is interrupted.

Accessories

VBP-HH1

AS-Interface handheld

VAZ-2T5-G2

AS-Interface splitter box

VAZ-2T1-FK-1M-PUR-V1-W

AS-Interface splitter box