



Model Number

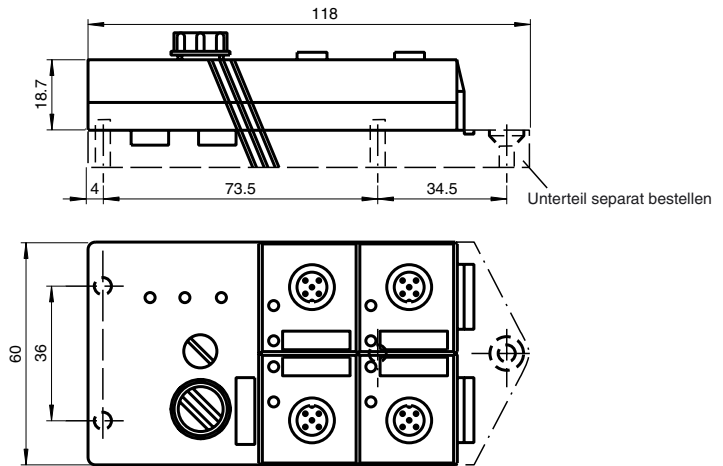
VAA-2EA-G2-ZE0/E0

G2 flat module
2 inputs/2 outputs

Features

- Connection via flat cable
- Cable piercing technique
- Function display for bus, inputs and outputs
- LED for monitoring communication
- Variable flat cable design
- Addressing jack
- Display of address "0"/Communication error
- Display of "external auxiliary power"
- PE connection possible
- Power supply of inputs from the module

Dimensions



Technical data

General specifications

Slave type Standard slave

Indicators/operating means

LED CONFIG ERR	communication error / address is 0; LED red
LED U AS-i	AS-Interface voltage/sensor overload; LED green/LED red
LED AUX	ext. auxiliary voltage U _{AUX} ; LED green
LED IN	switching state (input); 2 LED yellow
LED OUT	switching state (output); 2 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	≤ 30 mA (without sensors) / max. 180 mA

Input

Number/Type	2 inputs for 2- or 3-wire sensors (NPN), DC
Supply	from AS-Interface
Voltage	21 ... 31 V
Current loading capacity	≤ 150 mA (T _B ≤ 40 °C), ≤ 120 mA (T _B ≤ 60 °C), short-circuit proof
Input current	≤ 8 mA (limited internally)
Switching point	
0 (unattenuated)	≤ 1.5 mA
1 (attenuated)	≥ 4.5 mA

Output

Number/Type	2 electronic outputs, NPN
Supply	from external auxiliary voltage U _{AUX}
Current	0.5 A per output
Voltage	≥ (U _{AUX} - 0.5 V)

Programming instructions

Profile	S-3.F
IO code	3
ID code	F

Data bits (function via AS-Interface)	input	output
D0	IN1	-
D1	IN2	-
D2	-	OUT3
D3	-	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	IP67 according to EN 60529
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Connection	cable piercing method flat cable yellow/flat cable black inputs/outputs: M12 round connector
Mass	100 g
Mounting	Mounting base

Function

The VAA-2EA-G2-ZE0/E0 is an AS-Interface connecting module with 2 inputs and 2 outputs. Mechanical contacts and 2- and 3-wire sensors can be connected to the inputs. The outputs are electronic outputs that may in total be loaded with a maximum of 24 V DC and 0,5 A per output.

The IP67 flat module is ideally suited for use in the field. In addition to the usual electrical coding for AS-Interface, the module has a mechanical coding. The modules can no longer be mixed up during installation. An addressing jack is integrated in the module.

The connection to the sensors/actuators is established via M12 x 1 screw connections. An LED is provided for each channel, on the top of the module, to indicate the current switching status. There is also a LED that functions as a monitoring device of the AS-Interface communication and the indication when the module has an address of zero. If an AS-Interface communication error occurs, the outputs are de-energized.

The input is monitored for short circuits. LEDs are also provided to indicate AS-Interface voltage and external power supply.

The U-G3FF mounting base is used as a standard for connections to the AS-Interface flat cable and the external 24 V DC supply. This lower section allows for contact with the flat cable from both sides. This means, for example, that 90° curves can be laid with very tight radii (variable flat cable guide).

Note:

The mounting base for the module is sold separately.

Accessories

VBP-HH1

AS-Interface handheld

VAZ-PK-1,5M-V1-G

Connection cable module/hand-held programming device

Matching system components

U-G3FF

AS-Interface module mounting base