







Model number

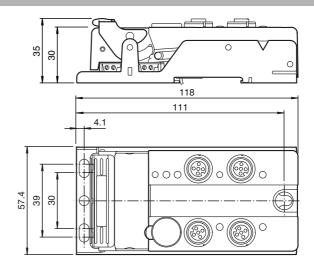
VAA-4A-G12-EA2L

G12 flat module 4 electronic outputs (PNP)

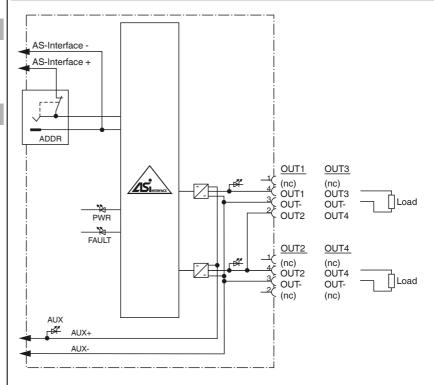
Features

- One-piece housing with stainless steel base
- Installation without tools
- Metal threaded inserts with SPEED-CON technology
- Flat cable connection with cable piercing technique, variable flat cable guide
- Red LED per channel, lights up in the event of output overload
- Communication monitoring, configurable
- DIN rail mounting
- AS-Interface certificate

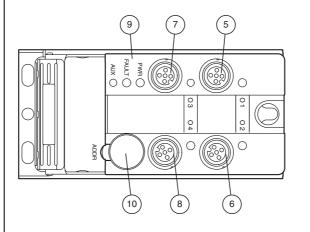
Dimensions



Electrical connection



Indicating / Operating means





Output 1 to 4



Status indication

(10)

Addressing socket

Standard slave

error display: LED red

green: voltage OK flashing green: address 0

green: voltage OK

red: reverse voltage

Yellow: output active

Red: output overload

U_{AUX} 24 V DC ± 15 % PELV

≤ 40 mA

red: communication error or address is 0

red flashing: Output supply overload

AS-Interface voltage; green LED

26.5 ... 31.6 V from AS-Interface

4 electronic outputs, PNP from external auxiliary voltage UAUX

2 A per output 6 A total (TB \leq 40 °C)

4 A total (TB ≤ 70 °C)

input

communication monitoring

maintain their condition

P2 = 0 synchronous mode on

-25 ... 70 °C (-13 ... 158 °F)

-25 ... 85 °C (-13 ... 185 °F)

Cable piercing method flat cable yellow/flat cable black inputs/outputs: M12 round connector

Synchronous mode

fails, the outputs are de-energised

≥ (U_{AUX} - 0.5 V)

S-8.1

8

1

F

F

function

not used

not used

PBT

200 q

Mounting base

V3.0

≥ V2.1

230 a

20 a

0 %

E87056

Technical data General specifications

AS-Interface specification

Diagnostic Coverage (DC)

Indicators/operating means

Required master specification

Functional safety related parameters

Slave type

 $MTTF_d$

LED FAULT

LED PWR

I FD AUX

LED OUT

Electrical specifications

Auxiliary voltage (output)

Rated operating voltage

Rated operating current

Programming instructions

Data bits (function via AS-Interface)

Parameter bits (programmable via AS-i)

Protection class

Number/Type

Output

Supply

Current

Voltage

Profile

IO code

ID code

ID1 code

ID2 code

DO

D1 D2

D3

PO

P1

P2

Р3

Material Housing

Mass

ves

Mounting

Directive conformity

Standard conformity

Noise immunity

Ambient conditions

Ambient temperature

Storage temperature

Vibration resistance

Mechanical specifications Degree of protection Connection

Shock and impact resistance

UL File Number

Mission Time (T_M)

ext. auxiliary voltage UAUX; dual LED green/red Switching status (output); 4 yellow/red LEDs output OUT1 OUT2 OUT3 OUT4 P0 = 1 (basic setting), monitoring = ON, i.e. if communication P0 = 0, monitoring = OFF, if communication fails, the outputs P2 = 1 synchronous mode off (basic setting) 30 g, 11 ms in 6 spatial directions 3 shocks 10 g, 16 ms in 6 spatial directions 1000 shocks 0.75~mm~10~...~57~Hz , 5~g~57~...~150~Hz , 20~cycles

Function

The VAA-4A-G12-EA2L is an AS-Interface trigger module with 4 outputs. The outputs are electronic outputs which can be energized with max. 24 V DC and 2 A per output.

The solid housing permits fast mounting without tools, as well as easy removal without tools. The stainless steel shell and the cast housing ensure durability and a high type of protection.

The connection to the AS-Interface cable and to the external power supply is achieved via penetration technology in the integrated flat cable. The insert for the flat cables can be turned in 2 orientations.

All connections to the outputs are implemented via metal inserts for high stability. The connection to the actuators is achieved via an M12 x 1 circular connector with SPEEDCON quick locking option.

The supply of the outputs and the connected actuators is achieved via an external current source (AUX).

To indicate the current switching state, there is a LED for each channel fitted onto the top of the module. The outputs are protected against overload and short circuit, an output overload is indicated via one LED per chan-

A LED is available to indicate the AS-Interface voltage and that the module has an address 0. Another LED indicates errors in the AS-Interface communication, as well as periphery faults. A separate LED indicates the external power supply (AUX).

This module can be mounted in any position with 3 screws, or snapped onto the DIN rail, using the stainless steel holder.

An output overload is reported to the AS-Interface master via the function "periphery fault". The communication with the AS-Interface remains intact.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VAZ-V1-B3

Blind plug for M12 sockets

VBP-HH1-V3.0

AS-Interface Handheld

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

Adapter cable module/hand-held programming device

PEPPERL+FUCHS

VAZ-CLIP-G12

lock for G12 module

EMC Directive 2004/108/EC

Compliance with standards and directi-

EN 61000-6-2:2005. EN 61000-6-4:2007. EN 50295:1999

EN 61000-6-2:2005, EN 50295:1999



Emitted interference EN 61000-6-4:2007

Degree of protection EN 60529

Fieldbus standard EN 50295, IEC 62026-2

Notes

Do not connect inputs and outputs, which are supplied via the module from AS-interface or via auxiliary power, with power supply and signal circuits with external potentials.

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