



Model Number

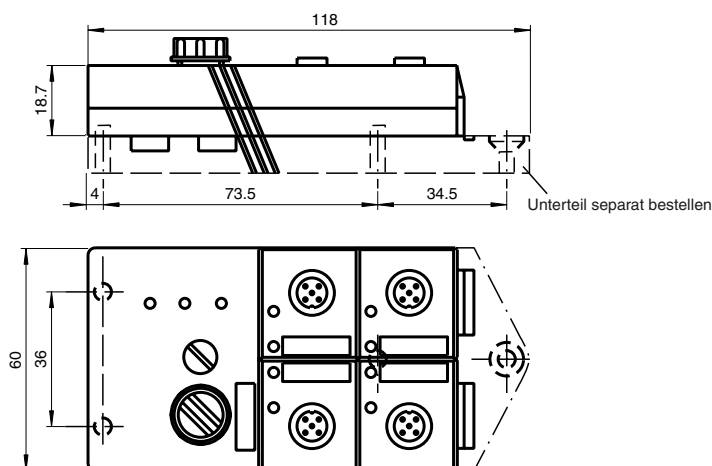
VAA-4E-G2-ZE0

G2 flat module
4 inputs (NPN)

Features

- Connection via flat cable
- Cable piercing technique
- Function display for inputs
- Display of address "0"/Communication error
- LED "power on"
- Addressing jack
- Mechanical coding

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 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 ≤ 40 mA (without sensors) / max. 240 mA

Input

Number/Type 4 inputs for 2- or 3-wire sensors (NPN), DC
Supply from AS-Interface
Voltage 21 ... 31 V
Current loading capacity ≤ 200 mA ($T_B \leq 40^\circ\text{C}$),
≤ 150 mA ($T_B \leq 60^\circ\text{C}$), short-circuit protected
Input current ≤ 8 mA (limited internally)
Switching point
0 (unattenuated) ≤ 1.5 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 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
Connection cable piercing method
flat cable yellow
inputs: M12 round connector
Mass 100 g
Mounting Mounting base

Function

The VAA-4E-G2-ZED is an AS-Interface trigger module with 4 inputs. 2- and 3-wire sensors as well as mechanical contacts (e.g. push buttons) can be connected.

The IP67 flat module is ideal for applications in the field. In addition to the customary electrical coding for AS-Interfaces the module also has a mechanical coding. This prevents any future mix-up of modules during installation. An addressing jack is integrated in the module.

The connections to the sensors are made via M12 x 1 screw connections. To indicate the current switching state there is an LED for each channel fitted to the top of the module. An LED for monitoring the AS-Interface communication and for displaying that the module has the address 0 is also available.

The input circuitry is monitored for short circuit. During a fault the module is disconnected from the AS-Interface triggering a fault indication.

By default the mounting plate U-G3FF is used to connect the AS-Interface. This base enables the user to connect the ribbon cable from both sides. This allows e.g. the laying of 90 degree turns with very tight radiuses (variable ribbon cable layout). If input and output modules are to be used in a mixed installation, the ribbon cable for the external power supply can be inserted into the base of this module. The module does not access this cable. The advantage is that both ribbon cables can in principle be laid parallel without the risk of destroying the module through incorrect connection.

Note:

The mounting plate for the module must be ordered separately.

Accessories

VBP-HH1

AS-Interface handheld

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

Connection cable module/hand-held programming device

U-G3FF

AS-Interface module mounting base