







Model number

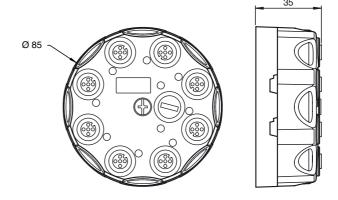
VAA-4E4A-G11-ZAJ/EA2L-F

G11 module 4 inputs and 4 outputs

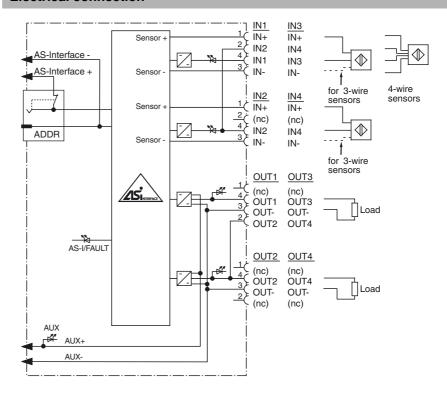
Features

- · Inputs for 2-, 3-, and 4-wire sensors
- Power supply of outputs from the external auxiliary voltage
- · Supply of sensors from AS-Interface
- Function display for bus, external auxiliary voltage, in- and outputs
- Red LED per channel, lights up in the event of output overload
- Communication monitoring
- Switchable lead breakage detection (outputs)
- Cable piercing method with gold plated contact pins
- Degree of protection IP68 / IP69K
- AS-Interface POWER24

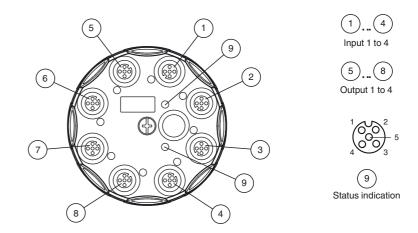
Dimensions



Electrical connection



Indicating / Operating means



Function

The VAA-4E4A-G11-ZAJ/EA2L-F is an AS-Interface switch-on module with 4 inputs and 4 outputs. Both 2, 3 and 4-wire sensors as well as mechanical contacts can be connected to the 4 positive switching electronic inputs. The 4 electronic outputs are overload and short-circuit protected.

The housing with a central screw enables fast mounting on the base plate.

The connection to the sensors/actuators is via an M12x1 plug-in connection on the top side of the device. The AS-Interface flat cable and external power supply are connected to the underside of the module via insulation piercing technology.

The inputs and the connected sensors are powered by the internal power supply of the module (from the AS-Interface). The outputs and the connected actuators are powered by an external voltage source (AUX).

The current switching state of each input and output is indicated via an IN or OUT LED. The OUT LED also indicates an overload or a lead breakage at the associated output. The AS-i/FAULT LED indicates the status of the AS-Interface (normal operation, communication error, peripheral fault, address 0). The AUX LED indicates the external power supply. The switch-on module is compatible with AS-Interface POWER24.

Note:

The device is equipped with a communication monitor, which deactivates the outputs if the AS-Interface does not communicate with the module for more than 40 ms. The communication monitor can be deactivated via the parameter P0. Filters that suppress pulses with a duration of 2 ms or less at the inputs can be activated via the parameter P1.

The parameter P2 activates a lead breakage detection system for the outputs. This function detects and reports a missing load, providing the relevant output is deactivated. The associated OUT LED and the 'peripheral fault' function display the signal transmitted to the AS-Interface master. An overload of the input supply or the outputs is also reported to the AS-Interface master via the 'peripheral fault' function. Communication via the AS-Interface continues even if a peripheral fault is set.

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

VAZ-FK-S-BK-SEAL

AS-Interface flat cable seal

P1 = 1 input filter off (default settings)

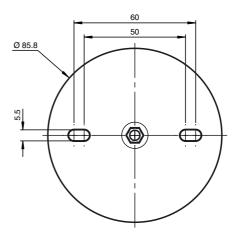
P2	Lead breakage outputs P2 = 0 lead breakage on P2 = 1 lead breakage off (default settings)
P3	not used
Ambient conditions	
Ambient temperature	-25 70 °C (-13 158 °F)
Storage temperature	-25 85 °C (-13 185 °F)
Relative humidity	85 % , noncondensing
Climatic conditions	For indoor use only
Altitude	≤ 2000 m above MSL
Shock and impact resistance	30 g, 11 ms in 6 spatial directions 3 shocks 10 g, 16 ms in 6 spatial directions 1000 shocks
Vibration resistance	0.75 mm 10 57 Hz , 5 g 57 150 Hz, 20 cycles
Pollution degree	3
Mechanical specifications	
Degree of protection	IP68 / IP69K
Connection	AS-Interface/U _{AUX} : AS-Interface flat cable Inputs/outputs: M12 round connector
Material	
Housing	PBT PC
Mounting screw	Stainless steel 1.4305 / AISI 303
Mass	200 g
Tightening torque, housing screws	1.8 Nm
Tightening torque, cable gland	0.4 Nm
Mounting	Mounting plate

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.

Mounting instructions

Screw the device onto a level mounting surface using two M5 attachment screws. The attachement screws are not included.



Screw a blind plug onto spare connections to ensure the protection category.