







ECOLAB

Model number

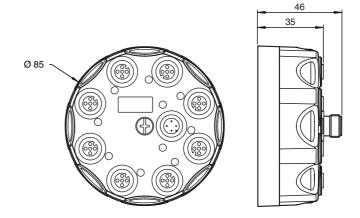
VBA-4E4A-G11-ZAJ/EA2L-V1

G11 module 4 inputs and 4 outputs

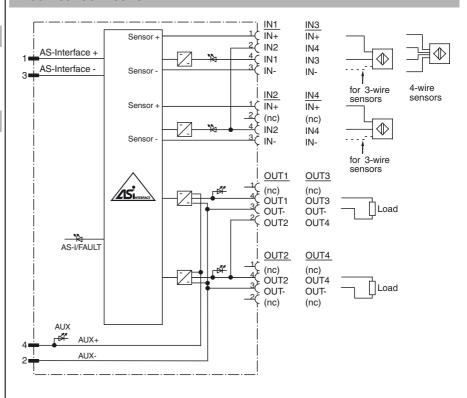
Features

- 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)
- Degree of protection IP68 / IP69K
- AS-Interface POWER24

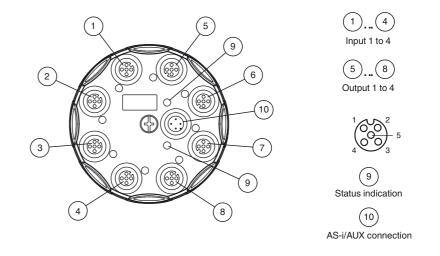
Dimensions



Electrical connection



Indicating / Operating means



Function

The V*A-4E4A-G11-ZAJ/EA2L-V1 AS-Interface I/O module with 4 inputs and 4 outputs, 2, 3 and 4 wire sensors can also be connected as mechanical contacts to the 4 sourcing electronic inputs. The 4 electronic outputs are overload and short-circuit protec-

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

Connection to the AS-Interface cable, to the external power supply and to the sensors/actuators is via M12x1 plug-in connections on the top side of the device.

The inputs and the connected sensors are powered by the internal 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 ASi/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 I/O module is compatible with AS-Interface POWER24.

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 connected via the parameter P1.

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 remains established 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

221518_eng.xml 2016-07-11

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} : M12 round connector 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
Compliance with standards and directives	
Directive conformity	
EMC Directive 2004/108/EC	EN 61000-6-2:2005, EN 61000-6-4:2007, EN 50295:1999
Standard conformity	
Noise immunity	EN 61000-6-2:2005, EN 61326-1:2006, EN 50295:1999
Emitted interference	EN 61000-6-4:2007
Input	EN 61131-2:2007
Degree of protection	EN 60529:2000

Notes

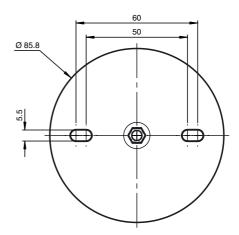
Do not connect inputs and outputs, which are supplied via the module from AS-interface or via auxiliary power, with power supply and signal circuits with external potentials.

EN 50295:1999, IEC 62026-2:2006

Mounting instructions

Fieldbus standard

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.