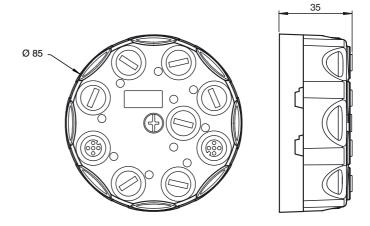




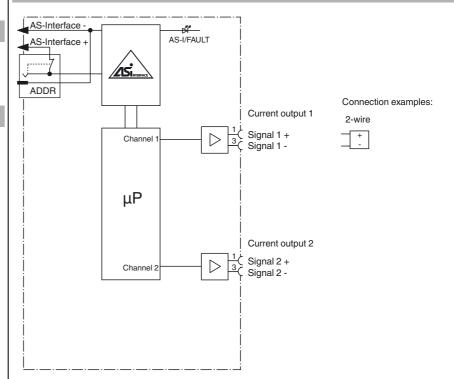




Dimensions



Electrical connection



Model number

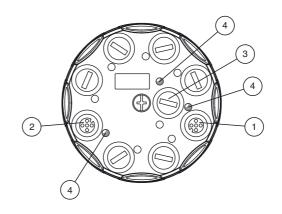
VBA-2A-G11-I-F

G11 analog module 2 analog outputs

Features

- Addressing jack
- Protection degree IP68/IP69K
- · Function display for bus and outputs
- Accuracy ± 0.15 %
- Integrated shielding
- Channel-specific output monitoring
- Communication monitoring

Indicating / Operating means



- Current output 1
- 2 Current output 2
- Addressing socket
- 4 Status indication



Technical data		
General specifications		
Slave type		Standard slave
AS-Interface specification		V3.0
Required master specification		≥ V2.1
UL File Number		E87056
Functional safety related parame	eters	370 a
MTTF _d Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
ndicators/operating means		
LED AS-i/FAULT		Status display; multi-colour LED Green: normal operation Red: communication fault Flashing yellow/red: address 0 Flashing green/red: peripheral fault
LED ANALOG		Status of output signal; yellow LED Yellow: 0 mA ≤ I ≤ 23 mA Yellow flashing: lead breakage or I > 23 mA
Electrical specifications		
Rated operating voltage	U _e	26.5 31.6 V from AS-Interface
Rated operating current	l _e	≤ 100 mA
Protection class		III
Surge protection		U _e : Over voltage category III, safe isolated power supplies (PELV)
Output Number/Type		2 analog outputs (current), 0 20 mA
Supply		from AS-Interface
Load		≤ 600 Ω
Resolution		6 μΑ
Accuracy		0.15 % of full-scale value
Temperature influence		1 μA/K
Programming instructions		•
Profile		S-7.3.5
IO code ID code		7 3
ID1 code		E
ID2 code		5
Data bits (function via AS-Interfac	ce)	The transfer of the data value is based on AS-Interface Profile 7.3 .
Parameter bits (programmable v	ria AS-i)	function
P0		Watchdog: P0=1 (default), watchdog active P0=0, watchdog inactive
P1		not used
P2		Indication of peripheral fault: P2=1 (default), peripheral fault is reported P2=0, peripheral fault is not reported
P3		not used
Ambient conditions		05 70 00 / 10 150 05\
Ambient temperature		-25 70 °C (-13 158 °F) -25 85 °C (-13 185 °F)
Storage temperature Mechanical specifications		-20 00 O (-10 100 F)
Protection degree		IP68 / IP69K
Connection		cable piercing technique, AS-i flat cable Outputs: M12 round connector
Material		
Housing		PBT PC
Mounting screw		Stainless steel 1.4305 / AISI 303
Mass		200 g
Mounting Compliance with standards and yes	directi-	Mounting base
Directive conformity		
EMC Directive 2004/108/EC		EN 50295:1999
Standard conformity		
Noise immunity		EN 61000-6-2:2005, EN 61326-1:2006, IEC 62026-2:2008
Emitted interference		EN 61000-6-4:2007
Protection degree		EN 60529:2000
Fieldbus standard		EN 50295:1999, IEC 62026-2:2008

Function

The analog module VBA-2A-G11-I-F has two analog current outputs (0 mA ... 20 mA). Power is supplied to the outputs through the yellow AS-Interface cable. Analog value conversion and data transfer are provided asynaccording to AS-Interface chronously profile 7.3. The rise time of the analog signals is approx. 2 ms.

If the analog value "0" is returned, lead breakages are not monitored on the respective channel. In this case, peripheral faults are not signaled when there is no active connection to an actuator. If the internal "watchdog" monitoring function is enabled, the output signals are reset to zero if communication with the AS-Interface fails.

The G11 module with IP68/IP69K protection is particularly suitable for demanding field applictions. The connection to the actuators is established via M12 connectors. The module can be preaddressed by connecting it to the handheld programming unit VBP-HH1 via the addressing socket. The connection to the AS-Interface transfer line is established using the AS-Interface flat cable.

Note:

A lead breakage or an output value outside the value range is also transmitted to the AS-Interface master via the 'peripheral fault' function. Communication via the AS-Interface continues.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VAZ-V1-B3

Blind plug for M12 sockets

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

Adapter cable module/hand-held programming device

VAZ-V1-B

Blind plug for M12 sockets

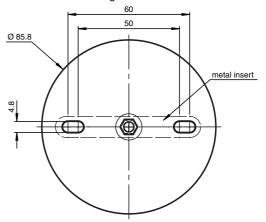
Date of issue: 2014-01-13

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

AS-Interface analog module

Screw the device onto a level mounting surface using two M4 attachment screws. The functional earth of the M12 round connectors is connected with the metal insert in the base via the tightened central screw. This metal insert can be connected to functional earth via the mounting screws to improve the EMC. The mounting screws are not included.



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

3