







## **Model Number**

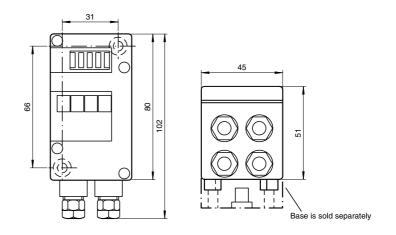
# VAA-4E-G4-Z

G4 module IP67 4 inputs (2-wire)

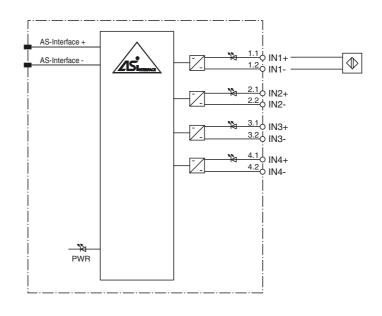
## **Features**

- · AS-Interface certificate
- Protection degree IP67
- Flat or round cable connection (via standardised EMS base, not included in the delivery package)
- · Inputs for 2-wire sensors
- · Function display for bus and inputs
- Lead monitoring of inputs that can be switched off selectively by channel

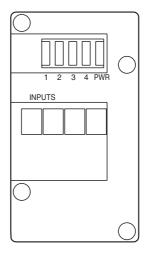
## **Dimensions**



## **Electrical connection**



## **Indicating / Operating means**



Technical data			
General specifications			
Slave type		Standard slave	
AS-Interface specification		V2.0	
Required master specification		≥ V2.0	
UL File Number		E87056	
Indicators/operating means			
LED PWR		AS-Interface voltage; LED g	reen
LED IN		4 dual LED yellow/red yellow: switching state (input) red: lead breakage red and yellow: line short-circuit	
Electrical specifications		red and yellow. line short-ch	Cuit
•		III	
Protection class Rated operational voltage		26.5 31.6 V from AS-Inter	rface
·	U <sub>e</sub> I <sub>e</sub>	≤ 40 mA	nace
•	'e	2 40 IIIA	
Input Number/Time		4 inputs for 0 wire concern	DC.
Number/Type		4 inputs for 2-wire sensors, DC from AS-Interface	
Supply		15 V	
Voltage		12.1	
Input current		≤ 8 mA (limited internally)	
Switching point		< 1.5 mA	
0 (unattenuated) 1 (attenuated)		≥ 4.5 mA	
Lead monitoring		lead breakage: ≤ 0.5 mA	
Lead monitoring		lead short-circuit: ≥ 5 mA	
Programming instructions			
Profile		S-0.F	
IO code		0	
ID code		F	
Data bits (function via AS-Interface)		input	output
D0	-,	IN1	- -
D1		IN2	-
D2		IN3	-
D3		IN4	-
Parameter bits (programmable via AS-i)		function	
P0		lead monitoring IN1 P0 = 1 (basic setting), monitoring deactivated P0 = 0, monitoring activated	
P1		lead monitoring IN2 P1 = 1 (basic setting), monitoring deactivated P1 = 0, monitoring activated	
P2	lead monitoring IN3 P2 = 1 (basic setting), monitoring deactivated P2 = 0, monitoring activated		
P		lead monitoring IN4 P3 = 1 (basic setting), monitoring deactivated P3 = 0, monitoring activated	
Ambient conditions			
Ambient temperature		-25 60 °C (248 333 K)	
Storage temperature		-25 85 °C (248 358 K)	
Mechanical specifications		, , ,	
Protection degree		IP67	
Connection		cable piercing method or terminal compartment flat cable yellow or standard round cable inputs: screwed connection M12 x 1,5 and cage-clamp terminals	
Mass		180 g	
Mounting		DIN rail or screw mounting	
Compliance with standards and ditives	irec-		
Ctandard conformity			
Standard conformity Protection degree		EN 60529	

## **Function**

The VAA-4E-G4-Z AS-Interface coupling module is a field module with 4 inputs. The inputs permit the connection of 2-wire sensors, which can be monitored for lead breakage and short circuit (see note).

The IP67 rated G4 module is especially suitable for rough conditions. Sensors attach to cable glands and cage tension spring terminals. For pre-addressing the module it can be plugged directly onto the adapter of the hand-held programming device VBP-HH1. Both flat and round cables can be used for

the connection of the AS-Interface cable.Use the U-G1F or U-G1FF base for flat cables. The connection to the AS-Interface cable is established via the standardised EMS interface (cable piercing method). The U-G1F base can also be used as IP67 AS-Interface distribution box. Use the U-G1FF base, when modules with outputs are mounted in series with the module. The flat cable for external power supply can be placed in this base since the module does not access the supply

Use the U-G1P or the U-G1PP base for a round cable. These bases have the same functionality as the U-G1F or the U-G1FF bases.

#### Note:

Lead breakage/short circuit monitoring is activated or deactivated per channel, by means of the parameter bits P0 ... P3. All error conditions are linked by an OR-logicoperation. In a failure case, the AS-Interface master indicates an error and the module disconnects from the AS-Interface, while the monitoring function is activated.

#### **Accessories**

## VBP-HH1

AS-Interface handheld

#### VAZ-G4-B

Blind plug

## Matching system components

AS-Interface module mounting base

## U-G1FA

AS-Interface module mounting base

AS-Interface module mounting base