







## **Model Number**

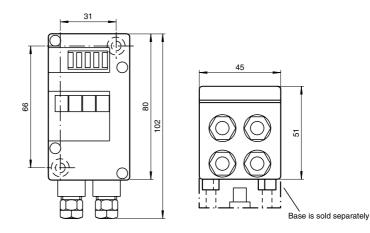
### VAA-2EA-G4-ZE/E2

G4 module IP67 2 inputs (PNP) and 2 electronic outputs

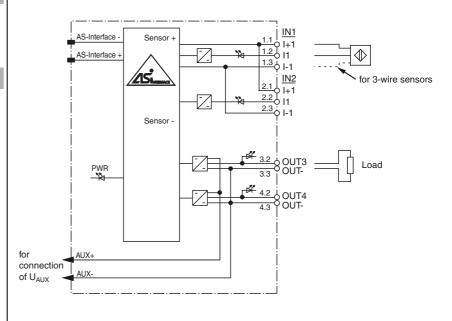
### **Features**

- AS-Interface certificate
- Protection degree IP67
- Flat or round cable connection (via standardised EEMS base, not included in the delivery package)
- · Cable piercing method for flat cable
- Communication monitoring, turn-off
- · Inputs for 2- and 3-wire sensors
- Power supply of outputs from the external auxiliary voltage
- Power supply of inputs from the module
- Function display for bus and inputs
- Monitoring of sensor overloads

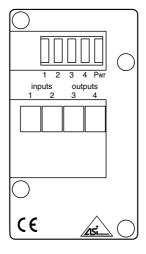
## **Dimensions**



## **Electrical connection**



# **Indicating / Operating means**





•	Technical data			
_	eneral specifications			
	Slave type		Standard slave	
	AS-Interface specification		V2.0	
	Required master specification		≥ V2.0	
	UL File Number		E87056	
ı	ndicators/operating means			
	LED PWR		dual LED green/red green: AS-Interface voltage red: overload sensor supply	
	LED IN		switching state (input); 2 LED yellow	
	LED OUT		Switching state (output); 2 LED yellov	V
E	Electrical specifications			
	Auxiliary voltage (output)	U <sub>AUX</sub>	24 V DC ± 15 % PELV	
	Protection class			
	Rated operational voltage	U <sub>e</sub>	26.5 31.6 V from AS-Interface	A
	Rated operational current	I <sub>e</sub>	≤ 60 mA (without sensors) / max. 240	mA
_ '	nput		0: 1 ( 0 0 : (DNE	N BO
	Number/Type		2 inputs for 2- or 3-wire sensors (PNF from AS-Interface	), DC
	Supply		21 31 V	
	Voltage			
	Current loading capacity		$\leq$ 180 mA (T <sub>B</sub> $\leq$ 40 °C), $\leq$ 140 mA (T <sub>B</sub> $\leq$ 60 °C), short-circuit p	roof
	Input current Switching point		≤ 8 mA (limited internally)	
	0 (unattenuated)		≤ 1.5 mA	
	1 (attenuated)		≥ 4.5 mA	
(	Output		= 1.0 1111	
	Number/Type		2 electronic outputs, PNP	
	Supply		from external auxiliary voltage UALIX	
	Current		1.5 A per output	
	Voltage		≥ (U <sub>AUX</sub> - 0,5 V)	
-	Programming instructions			
	Profile		S-3.F	
	IO code		3	
	ID code		F	
	Data bits (function via AS-Interface		input	output
	D0		IN1	-
	D1		IN2	-
	D2		-	OUT3
	D3	40 "	-	OUT4
	Parameter bits (programmable vi	a AS-I)		
			communication monitoring P0 = 1 (basic setting), monitoring = ON, i.e. if communication fails, the outputs are de-energised P0 = 0, monitoring = OFF, if communication fails, the outputs maintain their condition	
	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)	
I	Mechanical specifications		1000	
	Protection degree		IP67	
	Connection		cable piercing method or terminal cor flat cable yellow/flat cable black or sta inputs/outputs: screwed connection M terminals	andard round cable
	Mass		180 g	
	Mounting		DIN rail or screw mounting	
	Compliance with standards and dives	direc-		
	Standard conformity			
	Protection degree		EN 60529	

## **Function**

The VAA-2EA-G4-ZE/E2 is an AS-Interface coupling module with two inputs and two outputs. Mechanical contacts and 2- and 3-wire sensors can be connected to the inputs. The sensors are supplied via the module. The outputs are electronic outputs, which can be loaded to 24 V DC and 1.5 A per output (total load < 4 A).

The G4 module in IP67 is especially suitable for rough conditions. The connection to sensors and actuators is established via cable glands and cage tension spring terminals thus making the installation especially userfriendly. For pre-addressing the module, it can be directly plugged onto the adapter of the VBP-HH1 handheld programming device. An LED is provided for each channel, on the top of the module, to indicate the current switching status. In the case of communication errors on the bus, the outputs are denergised via an integrated watchdog, which can be disabled by the P0 parameter bit.

The AS-Interface transmission cable and the external 24 V DC supply can be connected through flat cables or round cables. Use the U-G1FF for the AS-Interface flat cable. The connection to both cables is established using the AS-Interface standardised EEMS interface, i. e. the cable piercing method. Use the U-G1PP base for a round cable. The U-G1PP base allows the AS-Interface-cable as well as the external power supply to be connected.

#### **Accessories**

### **VBP-HH1-V3.0**

AS-Interface Handheld

# VAZ-G4-B

Blind plug

#### U-G1FF

AS-Interface module mounting base

## U-G1FFA

AS-Interface module mounting base

### **U-G1PP**

AS-Interface module mounting base