







Model Number

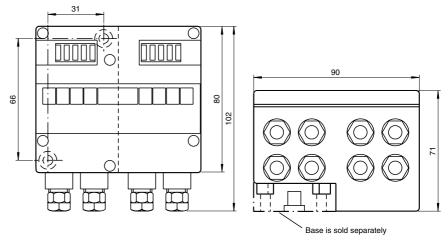
VAA-4EA-G4-ZE/E2

G4 module IP65 4 inputs (PNP) and 4 electronic outputs

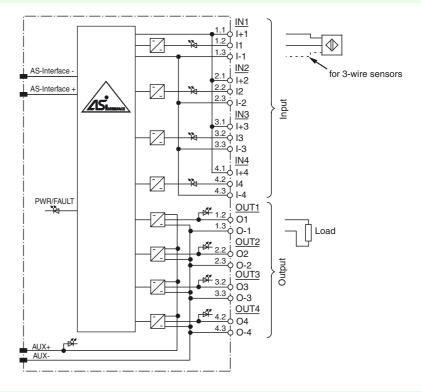
Features

- AS-Interface certificate
- Protection degree IP65
- 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, ext. auxiliary voltage, inputs and outputs
- Monitoring of sensor overloads

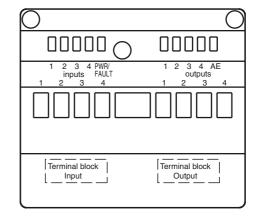
Dimensions



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 Indicators/operating means		E87056	
LED PWR/FAULT		dual LED green/red green: AS-Interface voltage red: overload sensor supply	
LED IN		switching state (input); 4 LE	D yellow
		switching state (output); 4 LED yellow	
LED AE		ext. auxiliary voltage U _{AUX} ;	LED green
Electrical specifications			
Auxiliary voltage (output)	U _{AUX}	24 V DC ± 15 % PELV	
Protection class Rated operational voltage	U _e	26.5 31.6 V from AS-Inter	rface
Rated operational current	l _e	≤ 60 mA (without sensors) /	
Input	'e	2 00 mm (without 30m30r3) /	max. 240 mx
Number/Type		4 inputs for 2- or 3-wire sens	sors (PNP) DC
Supply		from AS-Interface	
1-1- 3		21 31 V	
Current loading capacity		\leq 180 mA ($T_B \leq$ 40 °C), \leq 140 mA ($T_B \leq$ 60 °C), short-circuit proof	
Input current		≤ 8 mA (limited internally)	
Switching point			
0 (unattenuated)		≤ 1.5 mA	
1 (attenuated)		≥ 4.5 mA	
Output		4 -la-turnia autouta DND	
Number/Type Supply		4 electronic outputs, PNP from external auxiliary voltage U _{ALIX}	
Supply Current		2 A per output, 4 A total	
Voltage		≥ (U _{AUX} - 0,5 V)	
Programming instructions		- (-AOX -,,	
Profile		S-7.F	
IO code		7	
ID code		F	
Data bits (function via AS-Interfac	e)	input	output
D0		IN1	OUT1
D1		IN2	OUT2
D2		IN3	OUT3
D3 Parameter bits (programmable via	. AC :\	IN4	OUT4
" "		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)	
Mechanical specifications			
Protection degree		IP65	
		cable piercing method or terminal compartment flat cable yellow/flat cable black or standard round cable inputs/outputs: screwed connection M12 x 1,5 and cage clamp terminals	
Mass		350 g	
Mounting		DIN rail or screw mounting	
Compliance with standards and ditives	lirec-		
Standard conformity		EN 00500	
Protection degree		EN 60529	

Function

The VAA-4EA-G4-ZE/E2 is an AS-Interface coupling module with four inputs and four 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 2 A per output (total load < 4 A).

The G4 module is especially suitable for rough conditions. Sensors and actuators attach to cable glands and cage tension spring terminals thus making the installation especially user-friendly. For pre-addressing the module it can be plugged directly onto the adapter of the hand-held programming device VBP-HH1.

The current switching state of each channel is indicated by an LED, located on the module's top side. In the case of communication errors on the bus, the outputs are de-energised via an integrated watchdog, which can be deactivated by the parameter bit P0.

Both flat and round cables can be used for the AS-Interface transmission line and the external 24 V DC power supply. Use the U-G1FF base for the AS-Interface flat cable. The AS-Interface standardised EEMS interface, uses the cable piercing method to connect both the yellow and black flat cables.

Use the U-G1PP base for the round cable. The AS-Interface cable as well as the external power supply may be connected within this base.

Accessories

VBP-HH1

AS-Interface handheld

VAZ-G4-B

Blind plug

Matching system components

U-G1FF

AS-Interface module mounting base

U-G1FFA

AS-Interface module mounting base

U-G1PP

AS-Interface module mounting base