Model number

VAA-4EA-G4-ZE/E2

G4 PG module IP67 4 inputs (PNP) and 4 electronic outputs





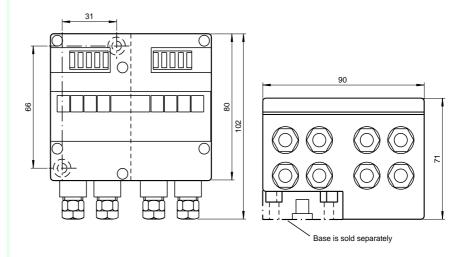




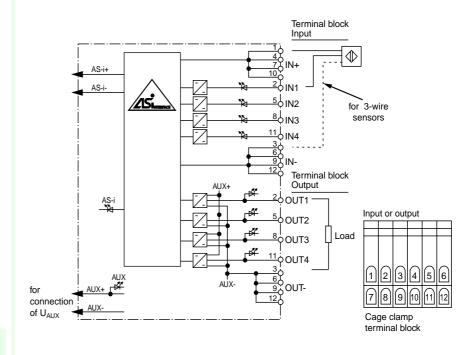
Features

- 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, turnoff
- 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

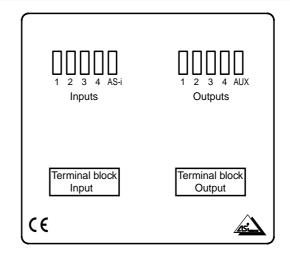
Dimensions



Electrical connection



Indication/operating means



Technical data

General specifications	
Slave type	Standard slave
Indicators/operating means	Standard Slave
LED AS-i	dual LED green/red
LLD AO 1	green: AS-i voltage
	red: communication error or address 0
LED ALIV	green/red flashing: overload sensor supply
LED AUX	ext. auxiliary voltage U _{AUX} ; LED green
LED IN	switching state (input); 4 LED yellow
LED OUT	switching state (output); 4 LED yellow
Electrical specifications	04.V.DQ 45.9/ DELV
Auxiliary voltage U _{AUX}	24 V DC ± 15 % PELV (protection class 3 in accordance with VDE 0106/IEC 364-4-41)
Rated operational voltage U _e	26.5 31.6 V from AS-Interface
Rated operational current I _e	≤ 60 mA (without sensors)
Input	_ = = (
Number/Type	4 inputs for 2- or 3-wire sensors (PNP), DC
Supply	from AS-Interface
Current loading capacity	≤ 180 mA (T _B ≤ 40 °C),
Janon loading dapating	\leq 140 mA (T _B \leq 40 °C), short-circuit-proof
Switching point	OFF ≤ 1.5 mA
3111	ON ≥ 4.5 mA
Output	
Number/Type	4 electronic outputs, PNP
Voltage	ext. auxiliary voltage U _{AUX} - 0.5 V
Current	2 A per output, 4 A total
Ambient conditions	
Ambient temperature	-25 60 °C (248 333 K)
Storage temperature	-25 85 °C (248 358 K)
Mechanical specifications	,
Protection degree	IP67 according to EN 60529
Connection type	cable piercing method or terminal compartment flat cable yellow/flat cable black or standard
	round cable inputs/outputs: PG7 screwed connection and cage clamp terminals
Mass	350 g
Mounting	top hat section rail or screw mounting
Programming instructions	
Profile	S-7.F
IO code	7
ID code	F
Programming instructions (bit configuration)	
Data bits (function via AS-Interface)	input output
D0	IN1 OUT1
D1	IN2 OUT2
D2	IN3 OUT3
D3	IN4 OUT4
D3 Parameter bits (programmable via AS-i)	IN4 OUT4 function
	function communication monitoring P0 = 1 (basic setting), monitoring = ON, i.e. if communication fails, the outputs are de-energised P0 = 0, monitoring = OFF, if communication
Parameter bits (programmable via AS-i) P0	function 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
Parameter bits (programmable via AS-i) P0 P1	function communication monitoring P0 = 1 (basic setting), monitoring = ON, i.e. if communication fails, the outputs are de-ener- gised P0 = 0, monitoring = OFF, if communication fails, the outputs maintain their condition not used
Parameter bits (programmable via AS-i) P0	function 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

VAA-4EA-G4-ZE/E2

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 <

The IP67 rated G4-PG module is especially suitable for rough conditions. Sensors and actuators attach to PG 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-i transmission line and the external 24 V DC power supply. Use the U-G1FF base for the AS-i 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-i-cable as well as the external power supply may be connected within this base.

Matching system components

Base for connection to flat cable (EEMS; AS-i and external auxiliary voltage)

U-G1FFA

Base with addressing jack for connection to flat cable (EEMS; AS-i and external auxiliary voltage)

U-G1PP

Base for connection to round cable (EEMS; AS-i and external auxiliary voltage)

Accessories

VAZ-G4-B

Blind plug PG7

VBP-HH1

Hand-held programming device