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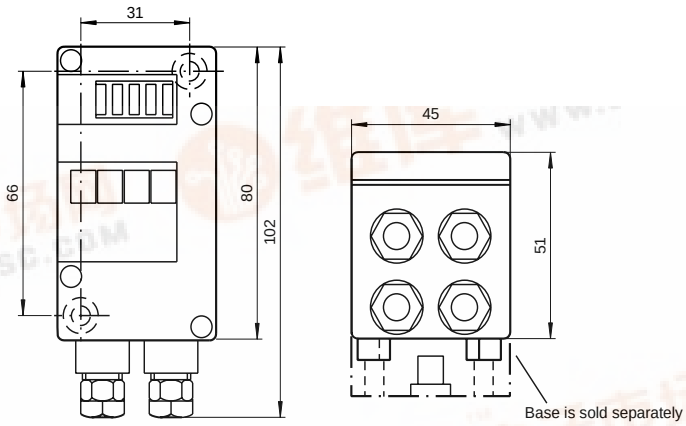
AS-i sensor module

Dimensions

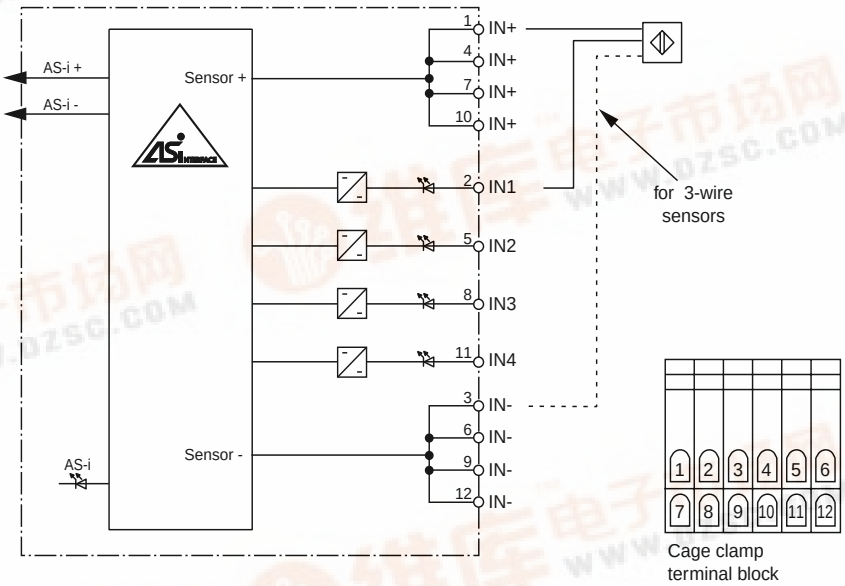


Model number

VAA-4E-G4-ZE

G4 PG module IP67
4 inputs (PNP)

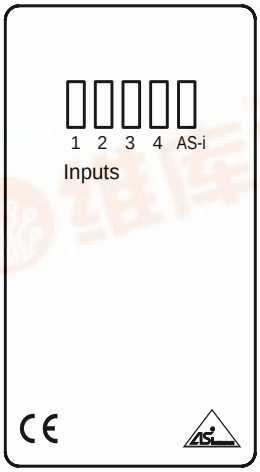
Electrical connection



Features

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

Indication/operating means



Coupling Modules

Date of Issue 22.01.2002

Technical data

VAA-4E-G4-ZE

General specifications	
Slave type	Standard slave
Indicators/operating means	
LED AS-i	dual LED green/red green: AS-i voltage red: communication error or address 0 green/red flashing: overload sensor supply
LED IN	switching state (input); 4 LED yellow
Electrical specifications	
Rated operational voltage U_e	26.5 ... 31.6 V from AS-Interface
Rated operational current I_e	≤ 40 mA (without sensors)
Input	
Number/Type	4 inputs for 2- or 3-wire sensors (PNP), DC
Supply	from AS-Interface
Current loading capacity	≤ 150 mA (T_B ≤ 40 °C), ≤ 120 mA (T_B ≤ 60 °C), short-circuit proof
Switching point	OFF ≤ 1 mA ON ≥ 4.5 mA
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 or standard round cable inputs: PG7 screwed connection and cage-clamp terminals
Mass	180 g
Mounting	top hat section rail or screw mounting
Programming instructions	
Profile	S-0.0
IO code	0
ID code	0
Programming instructions (bit configuration)	
Data bits (function via AS-Interface)	**input output**
D0	IN1 -
D1	IN2 -
D2	IN3 -
D3	IN4 -
Parameter bits (programmable via AS-i)	**function**
P0	not used
P1	not used
P2	not used
P3	not used

Function

The VAA-4E-G4-ZE AS-Interface coupling module is a G4-PG module with 4 inputs. Mechanical contacts and 2- and 3-wire sensors can be connected to the inputs. The sensors are supplied via the module.
The IP67 rated G4 PG module is especially suitable for rough conditions. Sensors 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.
Both flat and round cables can be used for the connection of the AS-i transmission line. Use the U-G1F base or the U-G1FF base for the AS-i flat cable. The connection to the AS-i cable is established via the standardised EMS interface (cable piercing method). The U-G1F base can also be used as IP67 AS-i distribution box. The U-G1FF base should be used, when modules with outputs are mounted in series with the module. The flat cable for external power supply can be placed in this base. The module does not access the supply line.
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.

Matching system components

U-G1F

Base for connection to flat cable (EMS; AS-i only)

U-G1FA

Base with addressing jack for connection to flat cable (EMS; AS-i only)

U-G1P

Base for connection to round cable (EMS; AS-i only)

Accessories

VAZ-G4-B

Blind plug PG7

VBP-HH1

Hand-held programming device

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