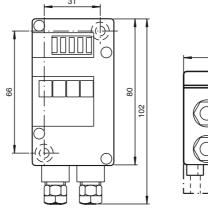
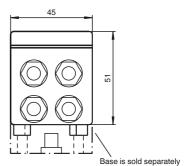
62

Dimensions





Model number

VBA-4E-G4-ZE

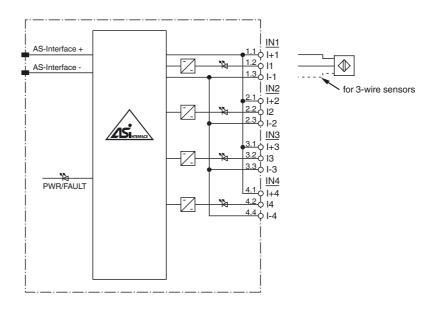
G4 module IP67 4 inputs (PNP)

Features

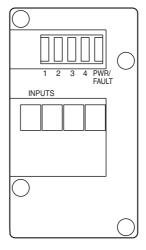
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- Degree of protection IP67
- A/B slave with extended addressing possibility for up to 62 slaves
- Flat or round cable connection (via standardized EMS base, not included with delivery)
- Cable piercing method for flat cable
- Inputs for 2- and 3-wire sensors
- Power supply of inputs from the module
- Function display for bus and inputs
- LED indicator for overload on sensor supply

Electrical connection



Indicating / Operating means



Technical data General specifications Slave type A/B slave AS-Interface specification V2.1 ≥ V2.0 Required master specification UL File Number E223772 Indicators/operating means LED PWR/FAULT dual LED green/red green: AS-Interface voltage red: communication error or address 0 green/red flashing: overload sensor supply LED IN switching state (input); 4 LED yellow **Electrical specifications** Rated operating voltage 26.5 ... 31.6 V from AS-Interface Rated operating current I_{e} ≤ 40 mA (without sensors) / max. 190 mA Protection class Surge protection Ue: Over voltage category III, safe isolated power supplies (PELV) Input Number/Type 4 inputs for 2- or 3-wire sensors (PNP), DC Supply from AS-Interface Voltage 21 ... 31 V Current loading capacity \leq 150 mA (T_B \leq 40 °C), ≤ 120 mA (T_B ≤ 60 °C), short-circuit protected ≤ 8 mA (limited internally) Input current according to DIN EN 61131-2 (Type 2) Switching point 0 (unattenuated) < 2 mA 1 (attenuated) \geq 4 mA **Directive conformity** Electromagnetic compatibility Directive 2014/30/EU EN 62026-2:2013 EN 61000-6-2:2001 EN 61000-6-4:2001 Standard conformity Degree of protection FN 60529:2000 EN 61131-2:2007 Input Emitted interference EN 61000-6-4:2001 EN 62026-2:2013 AS-Interface EN 61000-6-2:2001 Noise immunity **Programming instructions** Profile S-0.A.0 IO code 0 ID code Α ID1 code 7 ID2 code 0 Data bits (function via AS-Interface) input output D0 IN₁ D1 IN2 D2 IN3 IN4 Parameter bits (programmable via AS-i) function PO not used P1 not used P2 not used P3 not used **Ambient conditions** Ambient temperature -25 ... 60 °C (-13 ... 140 °F) -25 ... 85 °C (-13 ... 185 °F) Storage temperature Relative humidity 85 % . noncondensing Climatic conditions For indoor use only Altitude ≤ 2000 m above MSL Pollution degree **Mechanical specifications** Degree of protection Connection cable piercing method or terminal compartment yellow flat cable or standard round cable inputs: M12 x 1.5 cable gland and cage tension spring terminals Material Housing PA 6 GF30 Mass 180 g Tightening torque, housing screws 0.8 Nm Mounting DIN rail or screw mounting

Notes

Do not connect inputs and outputs, which are supplied via the module from AS-interface or via auxiliary power, with power supply and signal circuits with external potentials.

Function

The VBA-4E-G4-ZE AS-Interface coupling module is a G4 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 module is especially suitable for rough conditions. Sensors 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 hand-held programming device VBP-HH1

The current switching state of each channel is indicated by an LED, located on the module's

Both flat and round cables can be used for the connection of the AS-Interface transmission line. Use the U-G1F base or the U-G1FF base for the AS-Interface flat cable. The standardized EMS interface, uses the cable piercing method to connect the AS-Interface cable. The U-G1F base can also be used as IP67 AS-Interface 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.

Note:

An overloading of the internal input supply is signalled to the AS-Interface master via the "Peripheral fault" function. Communication via the AS-Interface remains intact.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VBP-HH1-V3.0

AS-Interface Handheld

VAZ-G4-B

Blind plug PG7

VAZ-G4-B1

Blind plug M12

Matching system components

AS-Interface module mounting base for connection to flat cable (AS-Interface)

AS-Interface module mounting base for connection to round cable (AS-Interface)

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