VBA-4E-G12-ZAJ



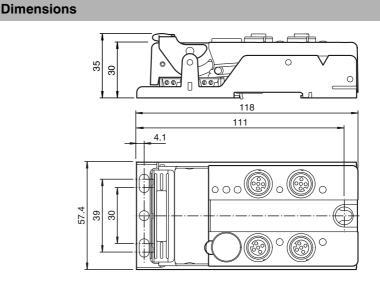
Model number

VBA-4E-G12-ZAJ

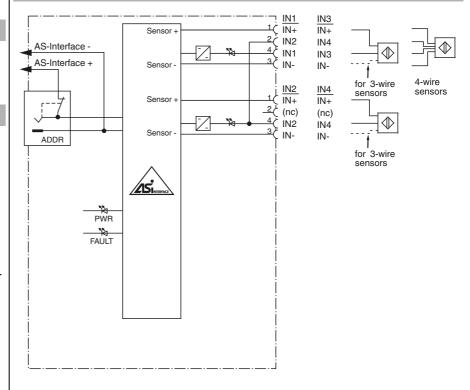
G12 flat module 4 inputs (PNP)

Features

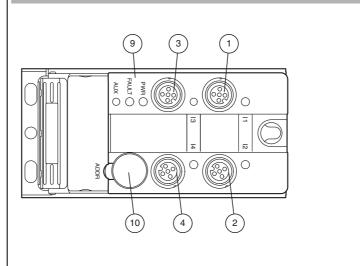
- · A/B slave with extended addressing possibility for up to 62 slaves
- One-piece housing with stainless • steel base
- Installation without tools •
- Metal threaded inserts with SPEED-• CON technology
- Flat cable connection with cable pier-• cing technique, variable flat cable guide
- Communication monitoring •
- Inputs for 2-, 3-, and 4-wire sensors •
- **DIN** rail mounting •
- AS-Interface certificate



Electrical connection



Indicating / Operating means





9 Status indication (10)

Addressing socket

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F PEPPERL+FUCHS

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

AS-Interface sensor module

VBA-4E-G12-ZAJ

| Technical data | | Function |
|---|---|--|
| General specifications | | |
| Slave type | A/B slave | The VBA-4E-G12-Z*J is an AS-Interface trig- |
| AS-Interface specification | V3.0 | ger module with 4 inputs. 2- and 3-wire sen- |
| Required master specification | ≥ V2.1 | sors as well as mechanical contacts can be |
| UL File Number | E87056 | connected to the plus switching electronic |
| Functional safety related parameters | | inputs. The solid housing permits fast mounting wit- |
| MTTF _d | 410 a | hout tools as well as easy removal without |
| Mission Time (T _M) | 20 a | tools. The stainless steel shell and the cast |
| Diagnostic Coverage (DC) | 0 % | housing ensure durability and a high protec- |
| Indicators/operating means | | tion category. |
| LED FAULT | error display; LED red red: communication error or address is 0 red flashing: overload of sensor supply | The connection to the AS-Interface cable is achieved via penetration technology in the |
| LED PWR | AS-Interface voltage; green LED green: voltage OK flashing green: address 0 | integrated flat cable. The insert for the flat cables can be turned in two orientations. All connections to inputs are implemented via |
| LED IN | switching state (input); 4 LED yellow | metal inserts for high stability. The connection |
| Electrical specifications | | to the sensors is achieved via a M12 x 1 cir- |
| Rated operating voltage Ue | 26.5 31.6 V from AS-Interface | cular connector with SPEEDCON quick |
| Rated operating current Ie | \leq 40 mA (without sensors) / max. 240 mA | locking option. |
| Protection class | III | The inputs and the connected sensors are |
| Input | | supplied via the internal power supply of the |
| Number/Type | 4 inputs for 2- or 3-wire sensors (PNP), DC | module (from AS-Interface). |
| | option 2 inputs for 4-wire sensors (PNP), DC | To indicate the current switching state there is |
| Supply | from AS-Interface | an LED for each channel fitted to the top of |
| Voltage Current loading capacity | 21 31 V ≤ 200 mA, overload and short-circuit protected | the module. An LED to indicate the AS-Interface voltage |
| Input current | \leq 8 mA (limited internally) | and that the module has an address of 0 is |
| Switching point | according to DIN EN 61131-2 (Type 2) | available, another indicates errors in the AS- |
| 0 (unattenuated) | $\leq 2 \text{ mA}$ | Interface communication as well as periphery |
| 1 (attenuated) | ≥ 6 mA | faults. |
| Signal delay | < 1 ms (input/AS-Interface) | This module can be mounted in any position |
| Programming instructions | | using three screws or can be snapped onto |
| Profile | S-0.A.2 | the DIN rail using the stainless steel holder. |
| IO code | 0 | |
| ID code | A | Accessories |
| ID1 code | 7 | |
| ID2 code | 2 | VBP-HH1-V3.0-KIT |
| | | |
| Data bits (function via AS-Interface) | input output | AS-Interface Handheld with accessory |
| Data bits (function via AS-Interface) D0 | IN1 - | |
| Data bits (function via AS-Interface) D0 D1 | IN1 - IN2 - | VAZ-V1-B3 |
| Data bits (function via AS-Interface) D0 D1 D2 | IN1 - IN2 - IN3 - | VAZ-V1-B3 Blind plug for M12 sockets |
| Data bits (function via AS-Interface) D0 D1 D2 D3 | IN1 - IN2 - IN3 - IN4 - | VAZ-V1-B3 Blind plug for M12 sockets VBP-HH1-V3.0 |
| Data bits (function via AS-Interface) D0 D1 D2 | IN1 - IN2 - IN3 - IN4 - | VAZ-V1-B3 Blind plug for M12 sockets |
| Data bits (function via AS-Interface) D0 D1 D2 D3 Parameter bits (programmable via AS-i | IN1 - IN2 - IN3 - IN4 - | VAZ-V1-B3 Blind plug for M12 sockets VBP-HH1-V3.0 AS-Interface Handheld VAZ-PK-1,5M-V1-G Adapter cable module/hand-held pro- |
| Data bits (function via AS-Interface) D0 D1 D2 D3 Parameter bits (programmable via AS-i P0 | IN1 - IN2 - IN3 - IN4 - of tunction - not used - Input filter P1 = 0 input filter on, pulse suppression ≤ 2 ms | VAZ-V1-B3 Blind plug for M12 sockets VBP-HH1-V3.0 AS-Interface Handheld VAZ-PK-1,5M-V1-G |
| Data bits (function via AS-Interface) D0 D1 D2 D3 Parameter bits (programmable via AS-i P0 P1 | $\begin{tabular}{cccc} IN1 & - & & \\ IN2 & - & & \\ IN3 & - & & \\ IN4 & - & & \\ \end{tabular}$ | VAZ-V1-B3 Blind plug for M12 sockets VBP-HH1-V3.0 AS-Interface Handheld VAZ-PK-1,5M-V1-G Adapter cable module/hand-held pro- gramming device |
| Data bits (function via AS-Interface) D0 D1 D2 D3 Parameter bits (programmable via AS-in P0 P1 P2 | IN1 - IN2 - IN2 - IN3 - IN4 - Inution not used Input filter P1 = 0 input filter on, pulse suppression $\leq 2 \text{ ms}$ P1 = 1 input filter off (basic setting) Synchronous mode P2 = 0 synchronous mode on P2 = 1 synchronous mode off (basic setting) | VAZ-V1-B3 Blind plug for M12 sockets VBP-HH1-V3.0 AS-Interface Handheld VAZ-PK-1,5M-V1-G Adapter cable module/hand-held pro- gramming device VAZ-CLIP-G12 |
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

www.pepperl-fuchs.com

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USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Fieldbus standard

EN 50295, IEC 62026-2

Notes

For 4-wire sensors, it is only possible to use plug-in slot IN1 or IN3 for inputs 1+2 or 3+4 (jumpered internally).

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.

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
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www.pepperl-fuchs.com fa-info@us.pepperl

