



Model number

VBA-4A-G10-E2J-1M-V15-G

G10 ultra compact module
4 outputs

Features

- Ultra-compact enclosure
- Gold-plated and machined contacts
- One piece housing
- Degree of protection IP68 / IP69K
- Direct connection via cable outlet

Function

The AS-Interface G10 ultra-compact module is suitable for the remote connection of actuators within very limited space. The one-piece enclosure has the protection degree IP68/IP69K.

The AS-Interface flat cable is contacted via pointy, gold-plated contact pins. The exact location of the pins on the lead is ensured by the swivel mechanism. Actuators are connected to the module via M12 sockets.

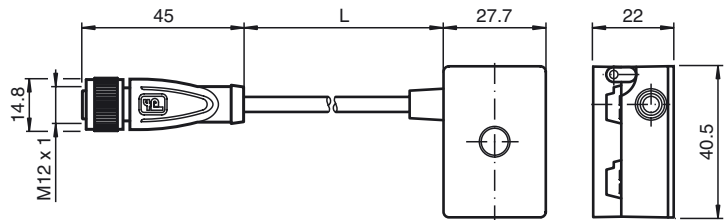
Multiple LEDs indicate the current status of the AS-Interface strand and are used for diagnosis.

Accessories

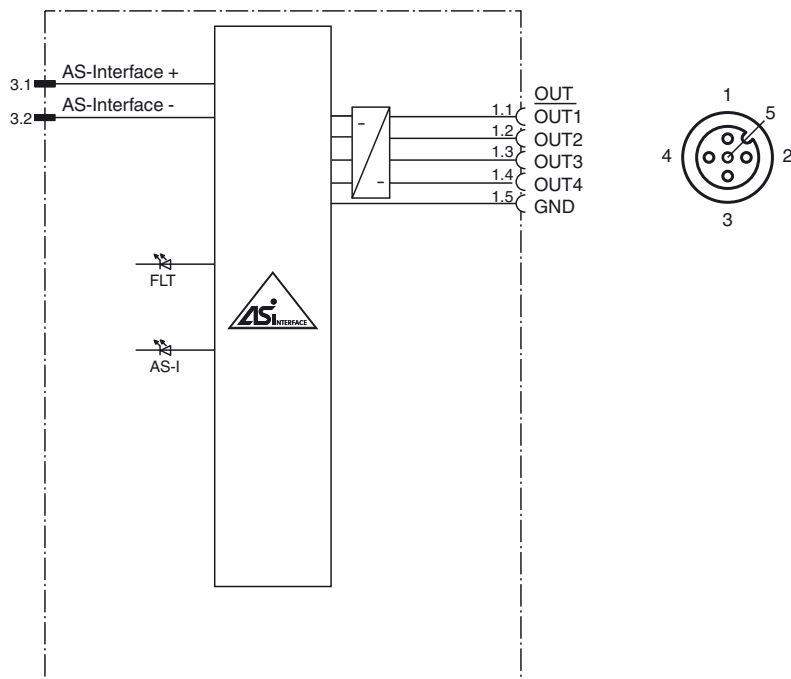
VAZ-PK-FK-0,2M-V1-W

Adapter cable G10 module/hand-held programming device

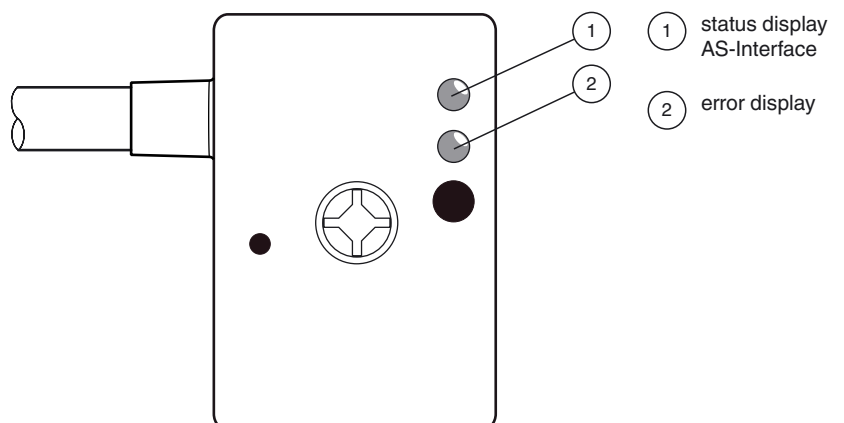
Dimensions



Electrical connection



Indicating / Operating means



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Technical data**General specifications**

| | |
|-------------------------------|--|
| Slave type | A/B slave |
| AS-Interface specification | V3.0 |
| Required master specification | V3.0 |
| UL File Number | E223772 "For use in NFPA 79 Applications only" |
| MTBF | 382 a |

Indicators/operating means

| | |
|-----------|--|
| LED FAULT | error display; LED red red: communication error or address is 0 red flashing: Output supply overload |
| LED AS-i | AS-Interface voltage; LED green |

Electrical specifications

| | | |
|-------------------------|---------|--|
| Rated operating voltage | U_e | 18.5 ... 31.6 V from AS-Interface |
| Rated operating current | I_e | ≤ 40 mA / max. 150 mA |
| Protection class | | III |
| Surge protection | U_e : | Over voltage category III, safe isolated power supplies (PELV) |

Output

| | |
|--------------------------|--|
| Number/Type | 4 electronic outputs, PNP, overload and short-circuit proof |
| Supply | from AS-Interface |
| Voltage | ≥ (U_e - 7.0 V) |
| Current loading capacity | ≤ 100 mA Total current, overload and short-circuit protected |

Directive conformity

| | |
|-------------------------------|-----------------|
| Electromagnetic compatibility | |
| Directive 2014/30/EU | EN 62026-2:2013 |

Standard conformity

| | |
|----------------------|-----------------------------------|
| Degree of protection | EN 60529:2000 |
| Fieldbus standard | EN 62026-2:2013 |
| Electrical safety | IEC 61140:2004 |
| Emitted interference | EN 61000-6-4:2011 |
| AS-Interface | EN 62026-2:2013 |
| Noise immunity | EN 61000-6-2:2005 EN 62026-2:2013 |

Programming instructions

| | |
|----------|---------|
| Profile | S-7.A.7 |
| IO code | 7 |
| ID code | A |
| ID1 code | 7 |
| ID2 code | 7 |

| Data bits (function via AS-Interface) | input | output |
|---------------------------------------|-------|--------|
| D0 | - | OUT1 |
| D1 | - | OUT2 |
| D2 | - | OUT3 |
| D3 | - | OUT4 |

Parameter bits (programmable via AS-i) function

| | |
|----|---|
| P0 | communication monitoring P0 = 1 (default settings), 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 | Synchronous mode P2 = 0 synchronous mode on P2 = 1 synchronous mode off (default settings) |
| P3 | not used |

Ambient conditions

| | |
|-----------------------------|---|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -25 ... 80 °C (-13 ... 176 °F) |
| Shock and impact resistance | 30 g, 11 ms in 6 spatial directions 3 shocks 10 g, 16 ms in 6 spatial directions 1000 shocks |
| Vibration resistance | 0.75 mm 10 ... 57 Hz, 5 g 57 ... 150 Hz, 20 cycles |

Mechanical specifications

| | |
|----------------------|--|
| Degree of protection | housing: IP67 IP67 / IP68 / IP69K with flat cable VAZ-FK-S* M12 socket: IP67/IP68/IP69K |
| Connection | AS-Interface: AS-Interface flat cable Outputs & matching connector: M12 connector, 5-pin, A-coded, acc. to IEC 61076-2-101:2012 |

Material

| | |
|-----------------|-----------------------------------|
| Contacts | CuSn / Au |
| Housing | PBT PC |
| Body | black PUR |
| Cable | PUR |
| Mounting screw | Stainless steel 1.4305 / AISI 303 |
| Cable | |
| Sheath diameter | Ø4.8 mm |
| Color | black |

| | | |
|-------------------------------------|---|--------------------------------|
| Cores | | 5 x 0.34 mm ² |
| Length | L | 1 m |
| Mass | | 81 g |
| Tightening torque, fastening screws | | 1.65 Nm |
| Tightening torque, cable gland | | 0.4 Nm |
| Approvals and certificates | | |
| UL approval | | cULus Listed, Type 1 enclosure |

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.

Mounting instructions

You may screw the device onto a level mounting surface using two M4 attachment screws. The attachment screws are not included.

