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

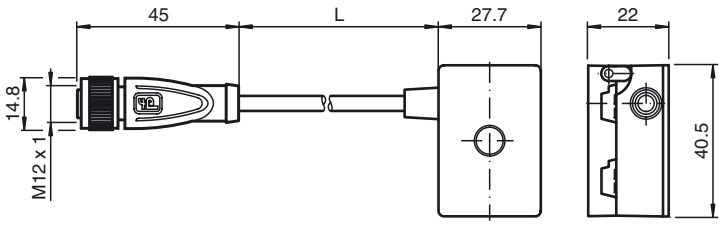
VAZ-CLAMP-40MM
Stack light terminal base with cover plate

VAZ-CLAMP-70MM
Stack light terminal base with cover plate

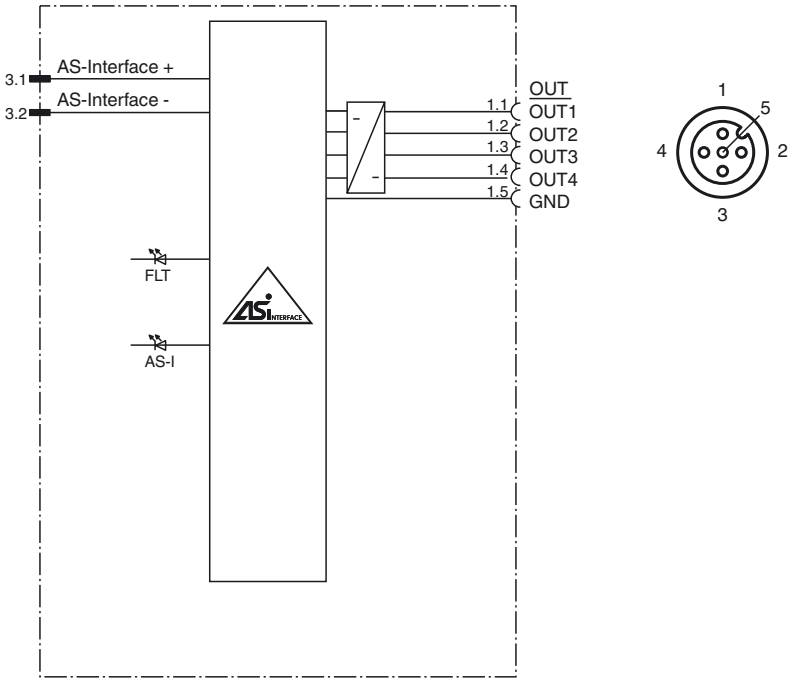
VAZ-CLAMP-70MM-0,3M-V15-G
Signal tower connection element with end cover and M12 connection

VAZ-CLAMP-70MM-90°
Stack light terminal base with cover plate

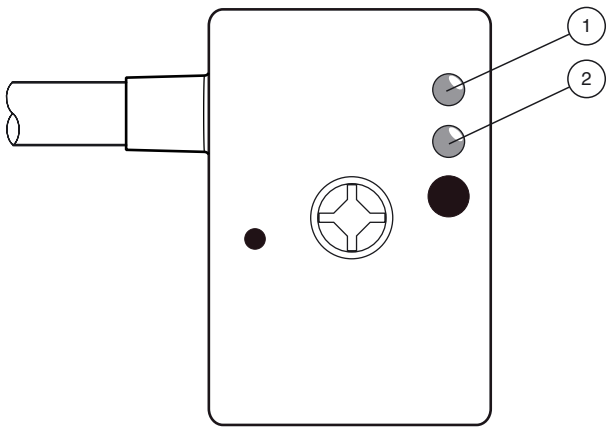
Dimensions



Electrical connection



Indicating / Operating means



1 status display AS-Interface
2 error display

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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

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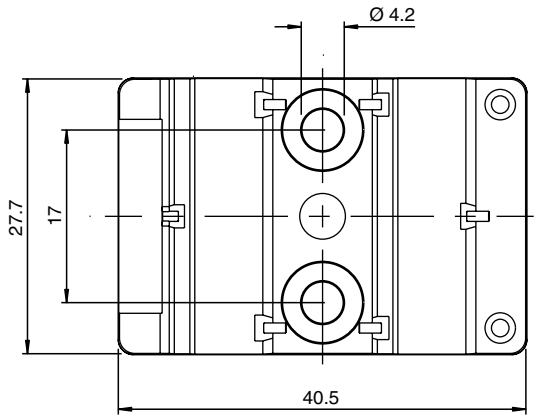
Cores		5 x 0.34 mm^2
Length	L	1 m
Mass		81 g
Tightening torque, fastening screws		1.65 Nm
Tightening torque, cable gland		0.4 Nm
Approvals and certificates		
UL approval		cULus Listed, Type 1 enclosure

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 attachement screws are not included.



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