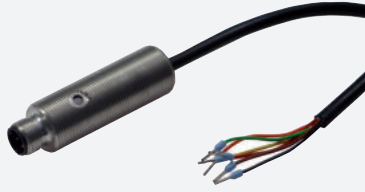


AS-Interface sensor/actuator module

VBA-1E3A-M18-ZE/E2-V1



- A/B node with extended addressing possibility for up to 62 nodes
- Input for 2-wire sensor
- Function display for bus
- For screw mounting in almost all metric threads and PGs
- Unlimited addressing!
- Power supply of the inputs and outputs from the external auxiliary voltage
- Including M25 adapter to M18 x 1 for connection to MOVIMOT

AS-Interface module in M18 stainless steel head ferrule, 1 input/3 outputs

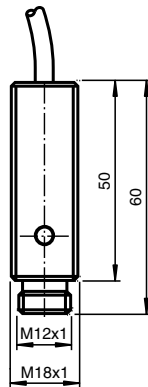


Function

The cylindrical AS-Interface module permits an easy connection of standard actuators to the AS-Interface. The input/output combination of 1:3 makes it particularly suitable for operation with motors (start/stop, forward/reverse, rotational speed 1/2, alarm indication); this means that all other actuators can also be easily connected to the AS-Interface. By means of mechanical adaptor nuts, the AS-Interface slave attaches to PG cable glands as well as metric cable glands. MOVIMOT® from SEW-Eurodrive requires an M25 adaptor with M18 x 1 quick disconnects which is included in the delivery package. The mechanically strong and short design is an advantage of the stainless steel head ferrule in welltried and tested Pepperl+Fuchs quality.

The M12 plug establishes a connection to AS-Interface and to the auxiliary supply. Two LEDs show the voltage supply and AS-Interface communication errors. Using additional auxiliary power does not overload the AS-Interface power supply. Therefore, up to 31 cylinder modules can be connected to the AS-Interface line.

Dimensions



Technical Data

General specifications

Node type	A/B node
AS-Interface specification	V2.1
Required gateway specification	≥ V2.0
Profile	S-9.A.E
IO code	9
ID code	A
ID1 code	7
ID2 code	E

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

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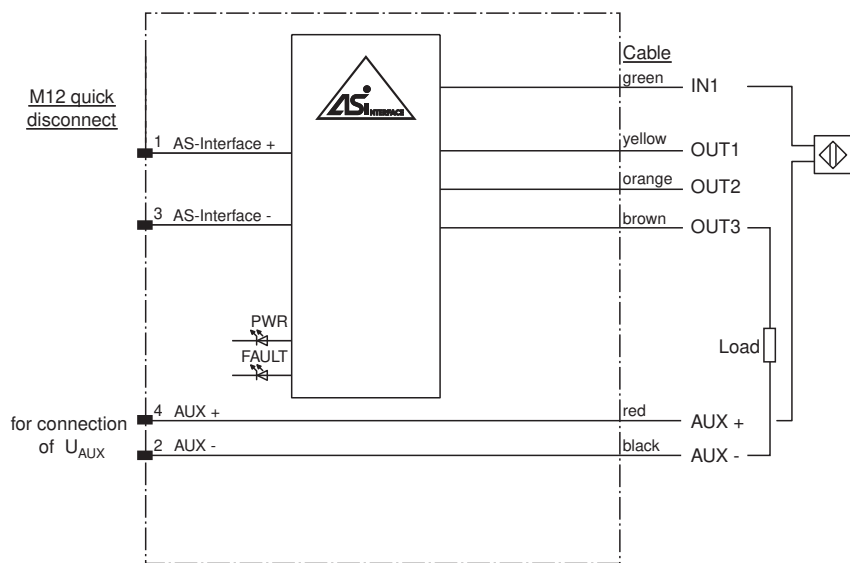
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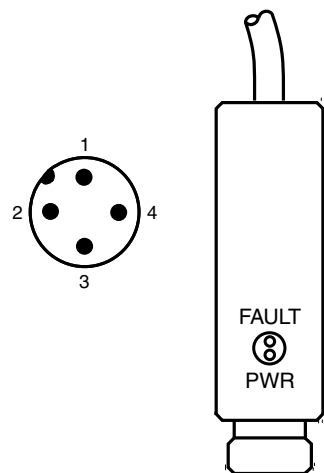
Technical Data

Indicators/operating means		
LED FAULT		communication error / address is 0; LED red
LED PWR		AS-Interface voltage; LED green
Electrical specifications		
Auxiliary voltage (output)	U_{AUX}	24 V DC \pm 15 % PELV , not short-circuit protected
Insulation voltage	U_i	≥ 500 V
Rated operating voltage	U_e	26.5 ... 31.6 V from AS-Interface
Rated operating current	I_e	≤ 30 mA
Input		
Number/Type		1 Input for 2-wire sensor
Supply		from external auxiliary voltage U_{AUX}
Switching point		OFF ≤ 0.8 mA ON ≥ 5 mA
Output		
Number/Type		3 electronic outputs, PNP
Supply		from external auxiliary voltage U_{AUX}
Current		20 mA per output
Standard conformity		
Electromagnetic compatibility		acc. to EN 50081-2 / EN 50082-2
Degree of protection		EN 60529:2000
AS-Interface		EN 62026-2:2013
Ambient conditions		
Ambient temperature		0 ... 70 °C (32 ... 158 °F)
Storage temperature		-25 ... 70 °C (-13 ... 158 °F)
Shock and impact resistance		≤ 15 g at $T \leq 11$ ms, 10 ... 55 Hz, 0,5 mm amplitude
Mechanical specifications		
Degree of protection		IP67 according to EN 60529 The protection class applies only for installation of the module in a connection housing for parts of the module located outside of the connection housing (external M12 connection, inside cable connection). The housing duct must be sealed with a suitable adhesive.
Connection		AS-Interface and auxiliary voltage: M12x1 round connector auxiliary voltage, input and outputs: 20 cm connection cable
Mass		110 g

Connection



Assembly



Programming

Data bits
(function via AS-Interface)

Data bit	Input	Output
D0	-	OUT1
D1	-	OUT2
D2	-	OUT3
D3	IN1	-

Parameter bits
(programmable via AS-Interface)

Parameter bits	Function
P0	not used
P1	not used
P2	not used
P3	not used

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