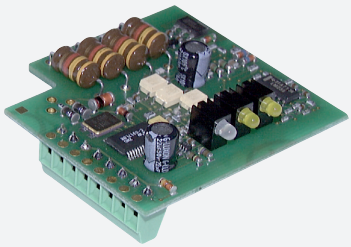


AS-Interface printed circuit board
VBA-2E1A-CB-N/E2-S

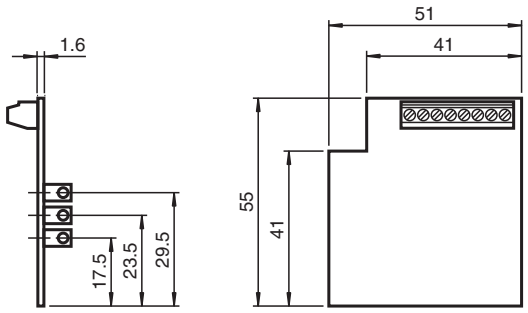
- A/B node with extended addressing possibility for up to 62 nodes
- Communication monitoring
- Inputs according to NAMUR in acc. with EN 60947-5-6
- Power supply of inputs and the output from AS-Interface
- Function display for bus and inputs
- Lead breakage and short-circuit monitoring of the output
- Connection via screw terminals

Printed circuit board module2 NAMUR inputs and 1 electronic output

Function

The AS-Interface I/O Module VBA-2E1A-CB-N/E2-S is an AS-Interface printed circuit board module with 2 inputs and one output. NAMUR sensors can be connected to the inputs. The printed circuit board module is designed for the integration into a customer-specific electronics. The current switching state of each input channel is indicated by a yellow LED. The electronic output has an overload limit as well as a lead breakage and short circuit monitoring.
Another LED indicates operating voltage and communication or peripheral failures (short-circuit, lead breakage). In case of a peripheral failure the communication via AS-Interface continues.
The printed circuit board is powered completely via AS-Interface. The inputs and the output are short-circuit and overload-proof. Screw terminals are used for connection.

Dimensions



Technical Data

General specifications		
Node type		A/B node
Indicators/operating means		
LED PWR/FAULT		dual LED green/red LED 1 green: AS-Interface voltage OK LED 1 red: communication error or address is 0 LED 1 green/red flashing: short-circuit or lead breakage
LED IN		2 LEDs yellow; LED 2 yellow illuminated: switching state IN1 ON, otherwise OFF LED 3 yellow illuminated: switching state IN2 ON, otherwise OFF
Electrical specifications		
Rated operating voltage	U_e	26.5 ... 31.6 V from AS-Interface

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Technical Data

Rated operating current	I_e	≤ 40 mA (without sensors) / max. 150 mA
Protection class		III
Input		
Number/Type		2 inputs for NAMUR Sensors
Supply		from AS-Interface
Voltage		8 V
Input current		≤ 8 mA (limited internally)
Switching point		OFF ≤ 1.2 mA ON ≥ 2.1 mA according to DIN EN 60947-5-6
Output		
Number/Type		1 electronic output, switched low, overload and short-circuit proof, lead breakage and short-circuit monitored
Supply		from AS-Interface
Voltage		21 ... 31 V
Current		max. 100 mA
Standard conformity		
Degree of protection		EN 60529:2000
AS-Interface		EN 62026-2:2013
Programming instructions		
Profile		S-D.A.E
IO code		D
ID code		A
ID1 code		7
ID2 code		E
Data bits (function via AS-Interface)		**Input**Output
D0		- OUT1
D1		- -
D2		IN1 -
D3		IN2 -
Parameter bits (programmable via AS-i)		**function**
P0		not used
P1		not used
P2		not used
P3		not used
Ambient conditions		
Ambient temperature		-25 ... 60 °C (-13 ... 140 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Degree of protection		IP20 (completely fitted) according to EN 60529
Connection		screw terminal strip max. conductor cross section 1 mm²
Mass		20 g

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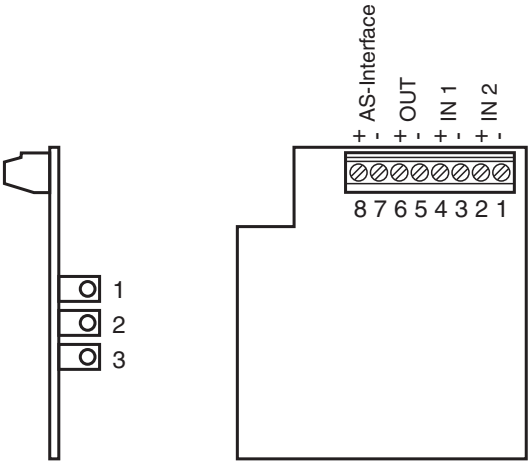
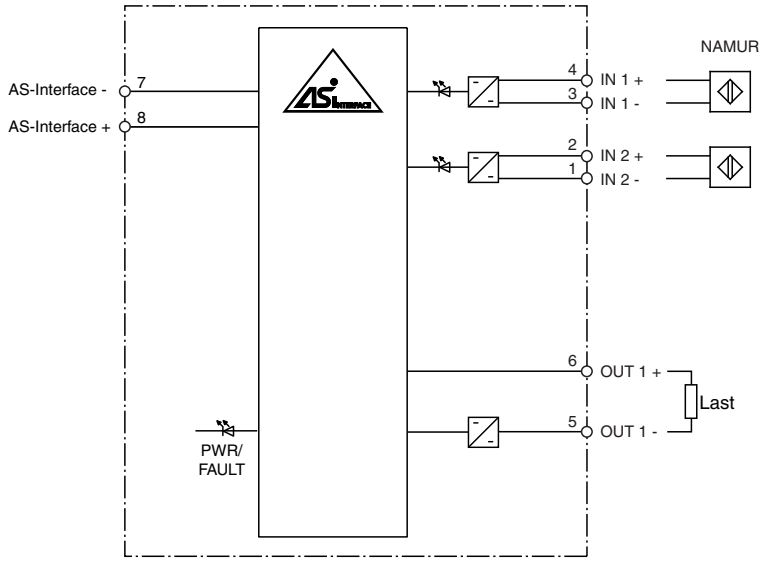
Assembly



Connection



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