

Bus coupler, series AES

R412018223

AVENTICS
Series AES
Field bus
modules

2023-08-31

AVENTICS Series AES Field bus modules

The AVENTICS Series AES fieldbus connection can be integrated into all AVENTICS fieldbus-compatible valve systems or can also be configured as a stand-alone solution. AES connects your AVENTICS valve system to all relevant fieldbus protocols and offers the integration of I/O-modules and enables optimized decentralized wiring of sensors. The integration of the Digital Twin enables users to be IIoT ready and use the AES to solve their interoperability challenges.



Technical data

Industry

Version

Note

Fieldbus protocol

E/A capable

Number of I/O connections

Power plug IN type

Power plug IN size

Power plug IN number of pole

Power plug IN coding

Fieldbus design

Min. ambient temperature

Max. ambient temperature

Number of solenoid coils max.

Max. number of valve positions

Operational voltage electronics

Electronics voltage tolerance

Current consumption electronics

Operating voltage, actuators

Industrial

Bus coupler

Do not use in new constructions!

PROFINET IO

connection with I/O

512 inputs / 512 outputs

Plug

M12x1

4-pin

A-coded

D-design

-10 °C

60 °C

128

64

24 V DC

-25% / +25%

0.1 A

24 V DC

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Total output for valves	4 A
Protection class	IP65
Cycle time at 256 bits	< 1 ms
Logic/actuator voltage	Galvanically isolated
Diagnosis	System error Undervoltage
I/O module extension max.	10
Generic emission standard in accordance with norm	EN 61000-6-4
Generic immunity standard in accordance with norm	EN 61000-6-2
Communication port Type	Socket
Communication port, Thread size	M12x1
Communication port, Number of poles	4-pin
Communication port, Coding	D-coded
Communication port 2	Socket
Communication port 2	M12x1
Communication port 2	4-pin
Communication port 2	D-coded
Weight	0.175 kg

Material

Housing material	Polyamide fiber-glass reinforced
Part No.	R412018223

Technical information

You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

Voltage and short-circuit monitoring per LED.

During cyclical data transfer, the bus coupler can send 512 bits of input data to the controller and receive 512 bits of output data from the controller.

Scope of delivery: Incl. mounting screws 3x

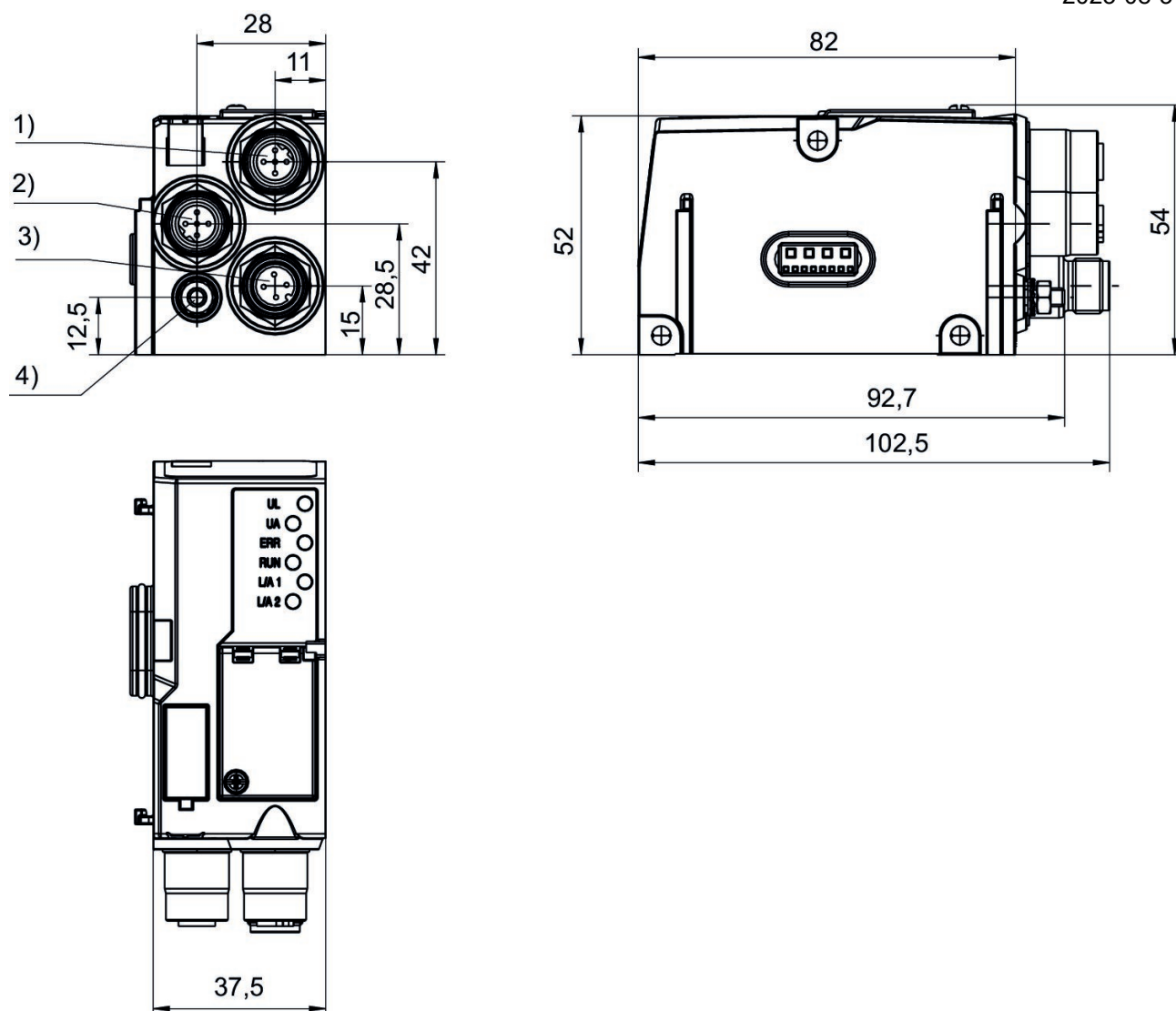
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Dimensions



1) Fieldbus connection 2) Fieldbus connection 3) Power supply 4) Functional ground