R412018278

AVENTICS Series AES Field bus modules

2023-08-31

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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
Туре
E/A capable
I/O module version
Number of I/O connections
Power plug IN type
Signal connection E/A type
Signal connection E/A thread size
Signal connection E/A number of poles
Signal connection E/A coding
Analog inputs

Min. ambient temperature Max. ambient temperature Operational voltage electronics Electronics voltage tolerance Protection class Industrial I/O modules 4AI4M12-E connection with I/O analog inputs/outputs 4 inputs Internal Socket M12x1 5-pin A-coded 0 ... 10 V 2 - 10 V 0 ... 20 mA 4 ... 20 mA -10 °C 60 °C 24 V DC -25% / +25% IP65



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		modules
Total current of sensors max.	0,5 A	0000 00 04
Logic/actuator voltage	Galvanically isolated	2023-08-31
Diagnosis	Short circuit	
Generic emission standard in accordance with norm	EN 61000-6-4	
Generic immunity standard in accordance with norm	EN 61000-6-2	
Weight	0.11 kg	
Material		
Housing material	Polyamide fiber-glass reinforced	
Part No.	R412018278	

Technical information

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

The total current of all outputs (including valves) must not exceed 4 A in the overall system. Voltage and short-circuit monitoring per LED.

The input channels have an input resistance of 120 ohms in the current range and 100 kiloohms in the voltage range.

The output channels can drive a maximum ohmic load of 450 ohms in the current range. The minimum resistance in the voltage range is 1 kiloohm.

The input circuit uses an 8-bit conversion.

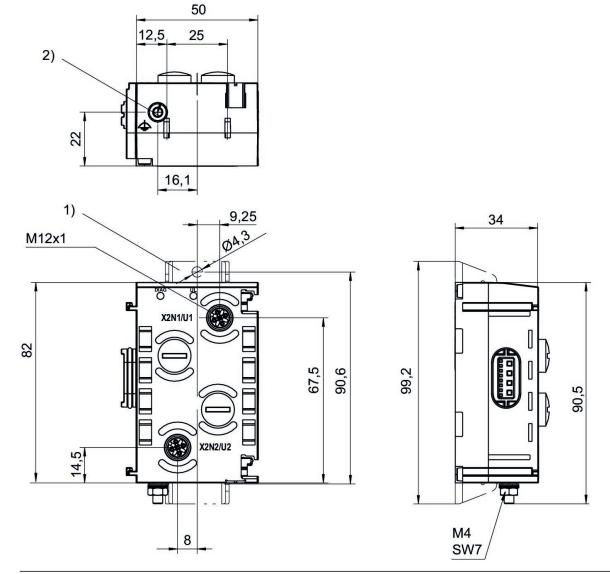


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Dimensions

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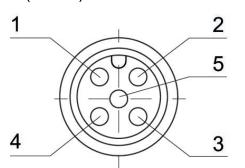
1) Retaining bracket (optional) 2) Ground



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Pin assignments

Socket (female)



Pin	Socket (female) X2N1 - X2N2 2AI2M12-E	Socket (female) X2U1 - X2U4 4Al4M12-E	Socket (female) X2U1 - X2U2 2AO2M12-E
1	24 V DC	24 V DC	not assigned
2	Input signal (dif- ferential input, positive signal)	Input signal (dif- ferential input, positive signal)	Output signal
3	0 V DC	0 V DC	0 V DC
4	Input signal (dif- ferential input, negative signal, or connected ex- ternally to 0 V (pin 3))	Input signal (0 V, connected to pin 3 internally)	not assigned
5	Shield, connect- ed internally with ground screw 2)	Shield, connect- ed internally with ground screw 2)	Shield, connect- ed internally with ground screw 2)

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