R412018281

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 Industrial Version I/O modules 2AO2M12-E Type

connection with I/O E/A capable

I/O module version analog inputs/outputs

Number of I/O connections 2 outputs Power plug IN type Internal Signal connection E/A type Socket

Signal connection E/A thread size M12x1 Signal connection E/A number of poles 5-pin

Signal connection E/A coding A-coded

Analog outputs $0 - 10 V / \pm 10 V$

0 ... 20 mA 4 ... 20 mA

Min. ambient temperature -10 °C 60°C Max. ambient temperature Operational voltage electronics 24 V DC Electronics voltage tolerance -25% / +25%

Protection class **IP65**

Total current of sensors max. 0,5 A

R412018281

AVENTICS Series AES Field bus modules

Logic/actuator voltage

Diagnosis

Short circuit

Generic emission standard in accordance with norm

Generic immunity standard in accordance with

EN 61000-6-2

norm

Weight 0.11 kg

Material

Housing material Polyamide fiber-glass reinforced

Part No. R412018281

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.

Delivery contents: incl. 2 spring clamp elements and seal

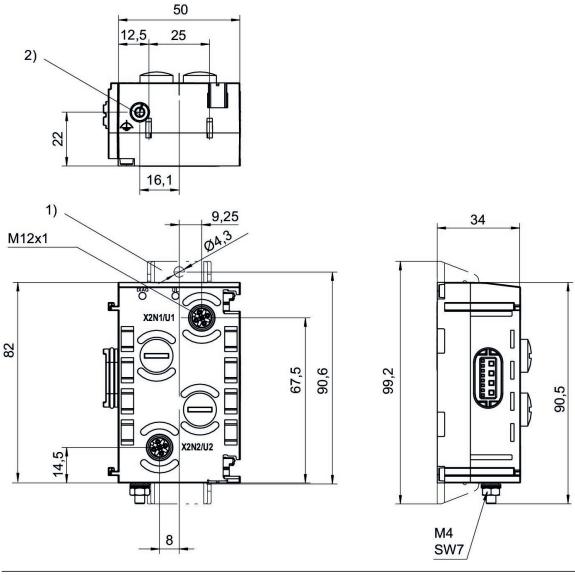
freely selectable signals, configurable

R412018281

Dimensions

AVENTICS Series AES Field bus modules

2023-08-31



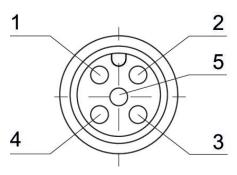
¹⁾ Retaining bracket (optional) 2) Ground

R412018281

AVENTICS Series AES Field bus modules

Pin assignments Socket (female)

2023-08-31



Pin	Socket (female) X2N1 - X2N2 2AI2M12-E	Socket (female) X2U1 - X2U4 4AI4M12-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, connected internally with ground screw 2)