# I/O modules, series AES
## R412018263

## 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 |
| Type | 16DO4M12 |
| E/A capable | connection with I/O |
| I/O module version | digital outputs |
| Number of I/O connections | 16 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 | 8-pin |
| Min. ambient temperature | -10 °C |
| Max. ambient temperature | 60 °C |
| Operational voltage electronics | 24 V DC |
| Electronics voltage tolerance | -25% / +25% |
| Max. current per channel | 0.5 A |
| Protection class | IP65 |
| Logic/actuator voltage | Galvanically isolated |
| Diagnosis | Short circuit Undervoltage |

**EMERSON**  1

| 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. | R412018263 |

## 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.

Delivery contents: incl. 2 spring clamp elements and seal
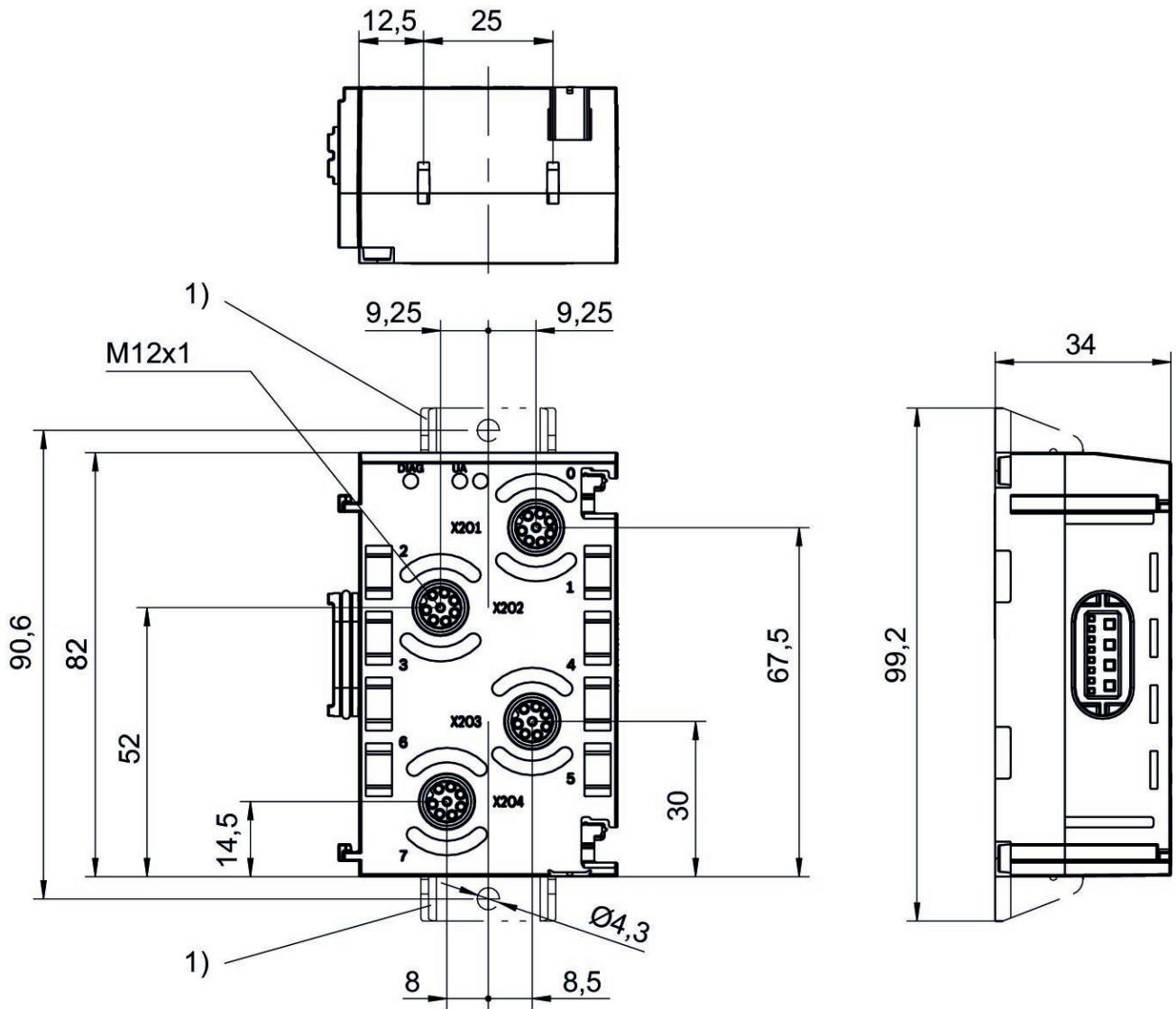
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## Dimensions

1) Retaining bracket (optional)

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## Pin assignments
PNP
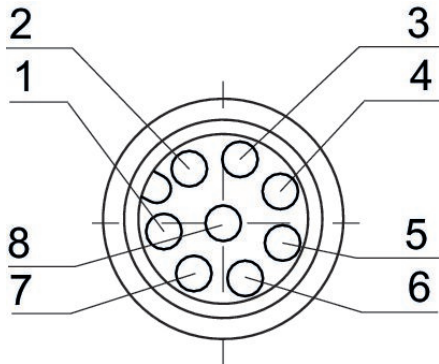
| Pin | Input module | Output module |
|---|---|---|
| 1 | Input signal [X] | Output signal 24 V DC [X] |
| 2 | Input signal [X+1] | Output signal 24 V DC [X+1] |
| 3 | Input signal [X+2] | Output signal 24 V DC [X+2] |
| 4 | Input signal [X+3] | Output signal 24 V DC [X+3] |
| 5 | 24 V DC | - |
| 6 | - | - |
| 7 | 0 V DC | 0 V DC |
| 8 | - | - |
| X = bit value | | |

X = bit value