

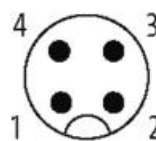
**IO-Link / analog converter**

AI U 0 ... 10V, M12, straight

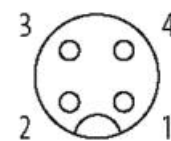
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AI U 0...10V, M12

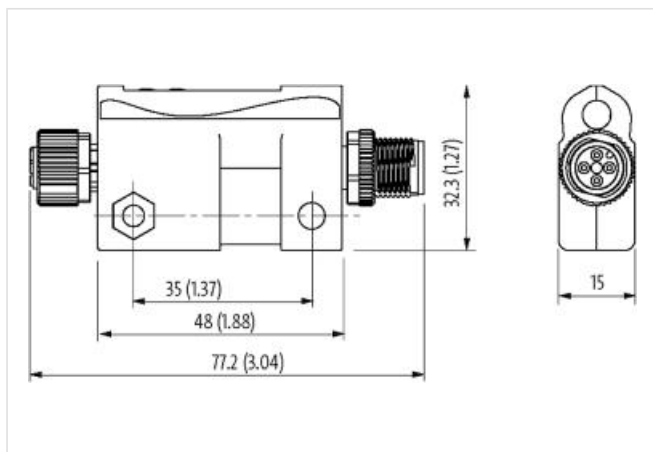
16Bit, IP65/67, IO-Link V1.1, Class A

**[Link to Product](#)****Illustration****Male**

PIN 1: +24 V (L+)  
PIN 2: n.c.  
PIN 3: GND  
PIN 4: C/Q, IO-Link

**Female**

PIN 1: +Us  
PIN 2: A+  
PIN 3: GND (Analog Us)  
PIN 4: A-



Product may differ from Image

**General data**

|                    |                                                 |
|--------------------|-------------------------------------------------|
| Temperature range  | -30...+70 °C (storage temperature -40...+85 °C) |
| Material (housing) | Plastic                                         |
| Labeling           | Laser labelled                                  |
| Protection         | IP65/IP67                                       |
| Dimensions H×W×D   | 32.3×77.2×15 mm                                 |

**Module supply**

The information in this brochure has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2022-11-13

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|                                               |                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Operating voltage                             | 24 V DC (18...30 V DC)                                                                                                                  |
| Current consumption                           | max. 19 mA                                                                                                                              |
| <b>Input</b>                                  |                                                                                                                                         |
| Input resistor (analog)                       | > 100 kΩ                                                                                                                                |
| Invers-polarity protection                    | yes, permanently                                                                                                                        |
| Sensor supply US                              | 24 V DC (EN 61131-2), max. 200 mA                                                                                                       |
| Over voltage protection                       | 30 V DC                                                                                                                                 |
| Accuracy                                      | 0.10% (25 °C)                                                                                                                           |
| Conversion time (analog)                      | max. 5 ms                                                                                                                               |
| Resolution (analog)                           | 15 Bit + sign                                                                                                                           |
| Valency                                       | 179.4 μV                                                                                                                                |
| Input range (analog)                          | 0...10 V                                                                                                                                |
| Temperature drift                             | 45 ppm/K                                                                                                                                |
| Input filter                                  | yes, mean value formation, parameterizable N = 0...64                                                                                   |
| <b>IO-Link</b>                                |                                                                                                                                         |
| Data width                                    | 16 Bit / 2 Byte                                                                                                                         |
| Specification                                 | IO-Link V1.1                                                                                                                            |
| Port Class                                    | A                                                                                                                                       |
| Data format                                   | Siemens S7                                                                                                                              |
| Operating modes                               | COM2 (38.4 kbit/s)                                                                                                                      |
| Cycle time                                    | min. 2.3 ms                                                                                                                             |
| <b>Parameterization</b>                       |                                                                                                                                         |
| Mean value filter                             | 1 Byte                                                                                                                                  |
| upper limit                                   | 2 Byte                                                                                                                                  |
| lower limit                                   | 2 Byte                                                                                                                                  |
| Measured value                                | preset                                                                                                                                  |
| Diagnostics                                   | lower limit, upper limit, over heated, supply over voltage, supply under voltage, defective device, sensor supply over current, overrun |
| <b>Connections</b>                            |                                                                                                                                         |
| IO-Link                                       | M12 (male) 3-pole, A-coded                                                                                                              |
| Analog input                                  | M12 (female) 4-pole, A-coded, shielded                                                                                                  |
| <b>Protection</b>                             |                                                                                                                                         |
| Short-circuit protection sensor               | yes, permanently                                                                                                                        |
| feed back resistance                          | yes, permanently                                                                                                                        |
| Reverse polarity protection module            | yes, permanently                                                                                                                        |
| Over voltage protection                       | 30 V DC                                                                                                                                 |
| <b>Product article number of manufacturer</b> |                                                                                                                                         |
| 5000-00501-1200000                            |                                                                                                                                         |
| <b>Diagnostic</b>                             |                                                                                                                                         |
| Communication status                          | via LED and IO-Link                                                                                                                     |
| Diagnostic via LED                            | yes                                                                                                                                     |
| Diagnostic via IO-Link                        | yes                                                                                                                                     |
| Monitoring - under voltage                    | yes                                                                                                                                     |
| Monitoring - over voltage                     | yes                                                                                                                                     |
| Monitoring - temperature                      | yes                                                                                                                                     |
| Underride and overrun                         | yes                                                                                                                                     |
| Monitoring - limit                            | yes                                                                                                                                     |
| Short-circuit and overload                    | yes                                                                                                                                     |