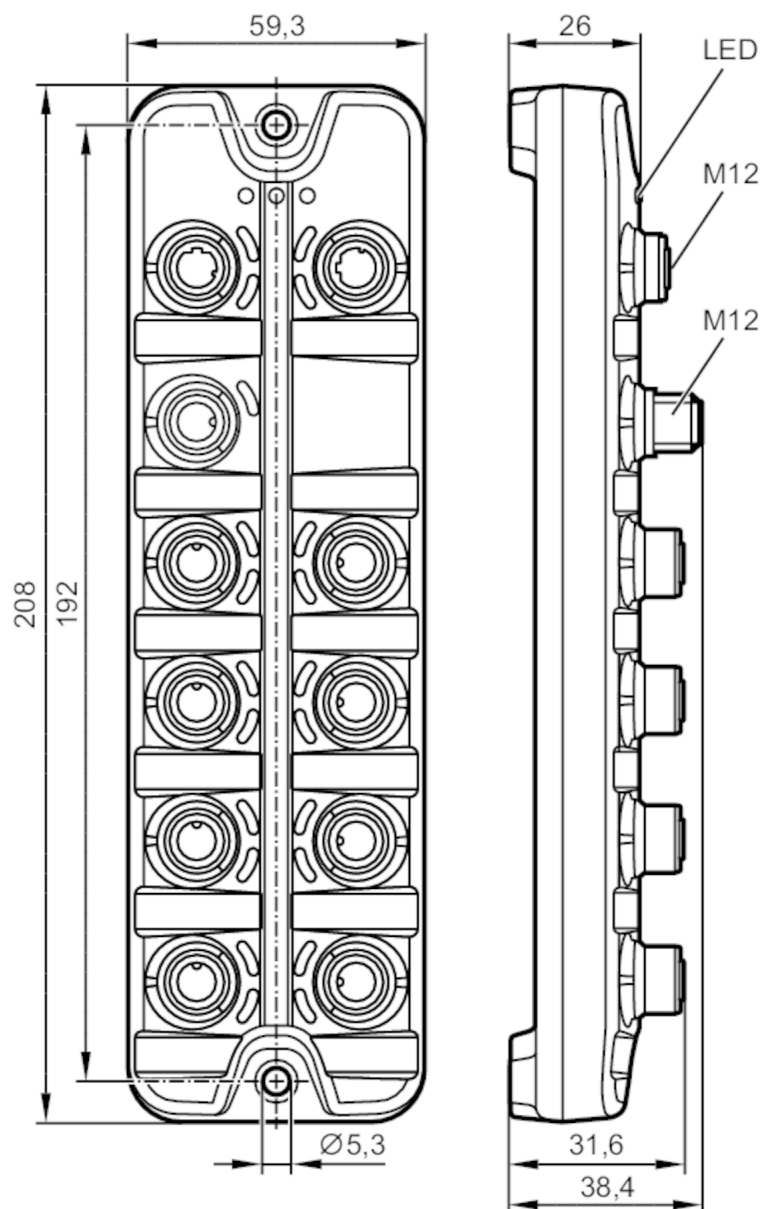


# AL1103



## IO-Link master with PROFINET interface

IO-Link Master SL PN 8P IP69K



### Application

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Application          | hygienic systems; I/O modules for field applications |
| Daisy-chain function | fieldbus interface                                   |

### Electrical data

|                     |      |                                |
|---------------------|------|--------------------------------|
| Operating voltage   | [V]  | 20...30 DC; (US; to SELV/PELV) |
| Current consumption | [mA] | 300...3900; (US)               |
| Protection class    |      | III                            |

### sensor supply US

|                         |     |     |
|-------------------------|-----|-----|
| Max. current load total | [A] | 3.6 |
|-------------------------|-----|-----|



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| Inputs / outputs                                |                                                                                       |  |
|-------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Total number of inputs and outputs              | 16; (configurable)                                                                    |  |
| Number of inputs and outputs                    | Number of digital inputs: 16; Number of digital outputs: 8                            |  |
| Inputs                                          |                                                                                       |  |
| Number of digital inputs                        | 16; (IO-Link Port Class A: 8 x 2)                                                     |  |
| Switching level high [V]                        | 11...30                                                                               |  |
| Switching level low [V]                         | 0...5                                                                                 |  |
| Digital inputs protected against short circuits | yes                                                                                   |  |
| Outputs                                         |                                                                                       |  |
| Number of digital outputs                       | 8; (IO-Link Port Class A: 8 x 1)                                                      |  |
| Max. current load per output [mA]               | 200                                                                                   |  |
| Short-circuit proof                             | yes                                                                                   |  |
| Interfaces                                      |                                                                                       |  |
| Communication interface                         | Ethernet; IO-Link                                                                     |  |
| Ethernet                                        |                                                                                       |  |
| Transmission standard                           | 10Base-T; 100Base-TX                                                                  |  |
| Transmission rate                               | 10; 100                                                                               |  |
| Protocol                                        | PROFINET IO                                                                           |  |
| Factory settings                                | IP address: 0.0.0.0                                                                   |  |
|                                                 | subnet mask: 0.0.0.0                                                                  |  |
|                                                 | gateway IP address: 0.0.0.0                                                           |  |
|                                                 | MAC address: see type label                                                           |  |
| IO-Link Master                                  |                                                                                       |  |
| Transmission type                               | COM 1 / COM 2 / COM 3                                                                 |  |
| IO-Link revision                                | 1.1                                                                                   |  |
| Number of ports class A                         | 8                                                                                     |  |
| Operating conditions                            |                                                                                       |  |
| Ambient temperature [°C]                        | -25...60                                                                              |  |
| Storage temperature [°C]                        | -25...85                                                                              |  |
| Max. relative air humidity [%]                  | 90                                                                                    |  |
| Protection                                      | IP 65; IP 66; IP 67; IP 69K; (operation with stainless steel protective caps: IP 69K) |  |
| Degree of soiling                               | 2                                                                                     |  |
| Tests / approvals                               |                                                                                       |  |
| EMC                                             | EN 61000-6-2                                                                          |  |
|                                                 | EN 61000-6-4                                                                          |  |
| Shock resistance                                | DIN EN 60068-2-27                                                                     |  |
| Vibration resistance                            | DIN EN 60068-2-64 2009-04                                                             |  |
|                                                 | DIN EN 60068-2-6 2008-10                                                              |  |
| MTTF [years]                                    | 90                                                                                    |  |
| Mechanical data                                 |                                                                                       |  |
| Weight [g]                                      | 385                                                                                   |  |
| Materials                                       | housing: PA grey; socket: stainless steel (1.4404 / 316L)                             |  |

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### Accessories

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Accessories (supplied) | Protective cap: 1 x M12, stainless steel, E12542 |
|------------------------|--------------------------------------------------|

### Remarks

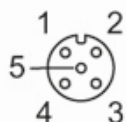
|               |                                                                |
|---------------|----------------------------------------------------------------|
| Remarks       | For further information please see the operating instructions. |
| Pack quantity | 1 pcs.                                                         |

### Electrical connection - Process connection

#### IO-Link Port Class A X01...X04

- |   |                          |
|---|--------------------------|
| 1 | Sensorversorgung (US) L+ |
| 2 | digital input            |
| 3 | Sensorversorgung (US) L- |
| 4 | C/Q IO-Link              |
| 5 | not used                 |

Connector: M12



### Electrical connection - voltage supply

#### X31

- |   |                |
|---|----------------|
| 1 | + 24 V DC (US) |
| 2 | not used       |
| 3 | GND (US)       |
| 4 | not used       |

Connector: M12



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## IO-Link master with PROFINET interface

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### Electrical connection - Ethernet

#### IN / OUT X21, X22

|   |          |
|---|----------|
| 1 | TX +     |
| 2 | RX +     |
| 3 | TX -     |
| 4 | RX -     |
| 5 | not used |

Connector: M12

