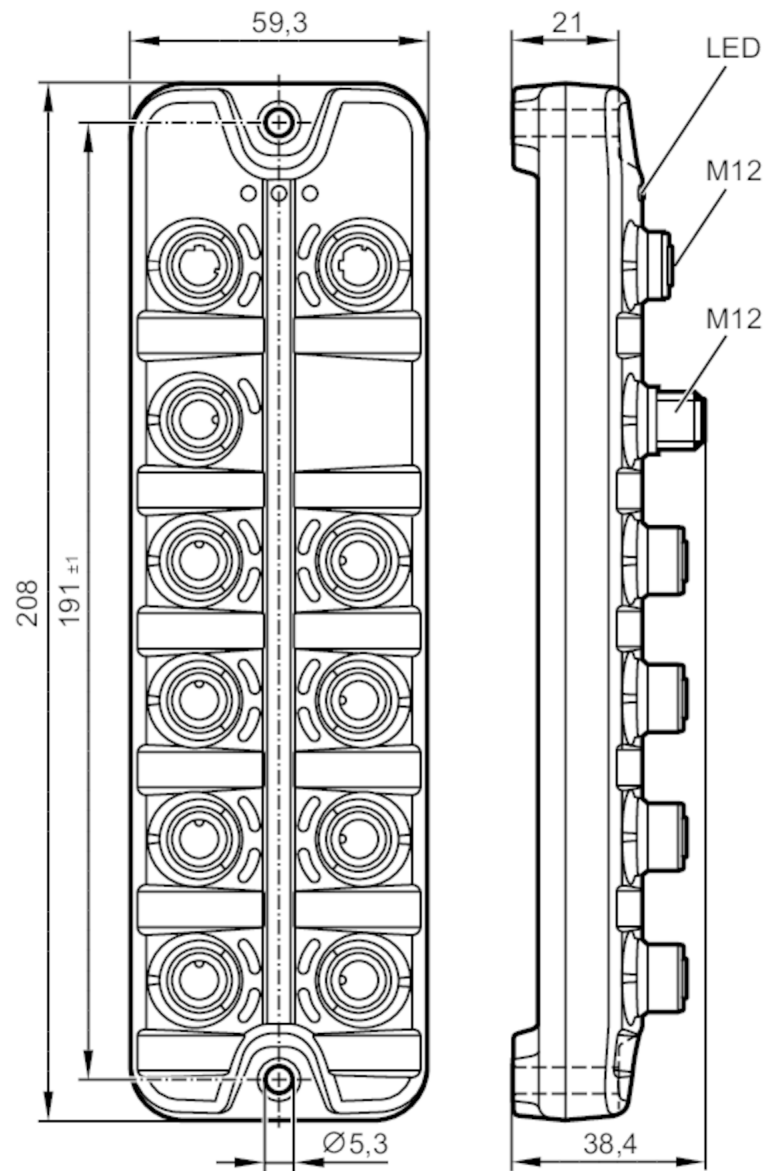


# AL1103



## 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]               | 300                                                                                   |                         |
| Short-circuit proof                             | yes                                                                                   |                         |
| Interfaces                                      |                                                                                       |                         |
| Communication interface                         | Ethernet; IO-Link                                                                     |                         |
| Ethernet - PROFINET                             |                                                                                       |                         |
| Transmission standard                           | 100Base-TX                                                                            |                         |
| Transmission rate                               | 100 MBit/s                                                                            |                         |
| Protocol                                        | PROFINET                                                                              |                         |
| 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                                                           |                         |
|                                                 | CC-C (Conformance Class C) (IRT-Switch)                                               |                         |
| Note on interfaces                              | Netload Class III                                                                     |                         |
|                                                 | SNMP (Simple Network Management Protocol)                                             |                         |
|                                                 | MRP (Media Redundancy Protocol)                                                       |                         |
|                                                 | Supported network topologies: line                                                    |                         |
|                                                 | ring                                                                                  |                         |
| IO-Link Master                                  |                                                                                       |                         |
| Transmission type                               | COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)                               |                         |
| 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) |                         |
| Protection rating (NEMA 250)                    | 6P                                                                                    |                         |
| Pollution degree                                | 2                                                                                     |                         |
| Chemical media                                  | ISO 16750-5                                                                           | HLP, CC, DB, DC, DD, CA |
|                                                 | NEMA 250 5.13.1                                                                       | AA                      |



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| 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                 | [ANN]                     | 78 |

| Mechanical data  |                                                           |     |
|------------------|-----------------------------------------------------------|-----|
| Weight           | [g]                                                       | 410 |
| Materials        | housing: PA grey; socket: stainless steel (1.4404 / 316L) |     |
| Sealing material | EPDM                                                      |     |

| Аксессуары     |                                                  |
|----------------|--------------------------------------------------|
| Items 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 - Ethernet

Connector: M12; coding: D; Sealing: EPDM

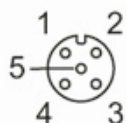


## IN / OUT X21, X22

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

## Electrical connection - Process connection

Connector: M12; coding: A; Sealing: EPDM



## IO-Link Port Class A X01...X08

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

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## IO-Link master with PROFINET interface

IO-Link Master SL PN 8P IP69K

### Electrical connection - подача напруги

Connector: M12; coding: A



| X31 |                |
|-----|----------------|
| 1   | + 24 V DC (US) |
| 2   | not used       |
| 3   | GND (US)       |
| 4   | not used       |