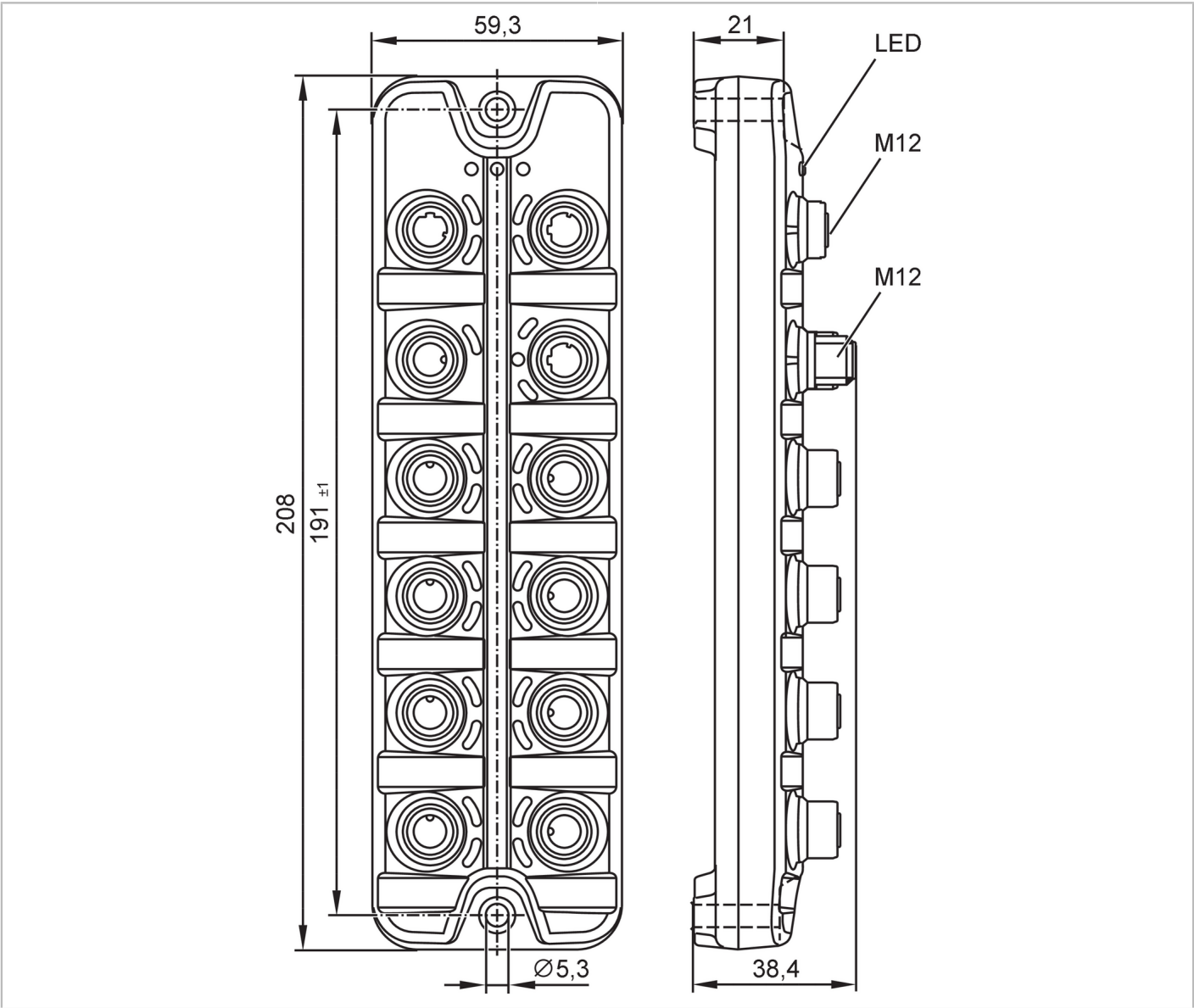


# AL1307



## IO-Link master with Profinet interface

IO-Link Master DL PN 8P IP69K



| Application                        |                                                            |
|------------------------------------|------------------------------------------------------------|
| Application                        | hygienic systems; I/O modules for field applications       |
| Daisy-chain function               | fieldbus interface                                         |
| Electrical data                    |                                                            |
| Operating voltage [V]              | 20...28 DC; (US ; to SELV/PELV)                            |
| Current consumption [mA]           | 300...3900; (US)                                           |
| Protection class                   | III                                                        |
| Sensor supply US                   |                                                            |
| Max. current load total [A]        | 3.6                                                        |
| 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 |



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| Inputs                                          |                                                         |
|-------------------------------------------------|---------------------------------------------------------|
| Number of digital inputs                        | 16; (IO-Link Port Class A: 8 x 2)                       |
| Switching level high [V]                        | 11...28                                                 |
| 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                             |
|                                                 | IO-Link Integration Edition 2                           |
| Note on interfaces                              | CC-C (Conformance Class C) (IRT-Switch)                 |
|                                                 | S2 redundancy                                           |
|                                                 | Netload Class III                                       |
|                                                 | CiR (Configuration in Run)                              |
|                                                 | SNMP (Simple Network Management Protocol)               |
|                                                 | MRP (Media Redundancy Protocol)                         |
|                                                 | Supported network topologies: line                      |
|                                                 | ring                                                    |
| Ethernet - Internet of Things                   |                                                         |
| Transmission standard                           | 10Base-T; 100Base-TX                                    |
| Transmission rate                               | 10 MBit/s; 100 MBit/s                                   |
| Protocol                                        | MQTT JSON                                               |
| Factory settings                                | IP address: 169.254.x.x                                 |
|                                                 | subnet mask: 255.255.0.0                                |
|                                                 | gateway IP address: 0.0.0.0                             |
|                                                 | MAC address: see type label                             |
| Note on interfaces                              | Safety protocol: HTTPS                                  |
| 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                                                |

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|                              |                                                                                       |                         |
|------------------------------|---------------------------------------------------------------------------------------|-------------------------|
| 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                      |

### 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]                   | 76 |

### Mechanical data

|                  |                                                           |                   |
|------------------|-----------------------------------------------------------|-------------------|
| Weight           | [g]                                                       | 429               |
| Housing          | rectangular                                               |                   |
| Type of mounting | Backplane mounting                                        |                   |
| Dimensions       | [mm]                                                      | 208 x 59.3 x 38.4 |
| Material         | housing: PA grey; Socket: stainless steel (1.4404 / 316L) |                   |
| Sealing material | EPDM                                                      |                   |

### Accessories

|                |                                                  |
|----------------|--------------------------------------------------|
| Items supplied | Protective cap: 1 x M12, stainless steel, E12542 |
|----------------|--------------------------------------------------|

### Remarks

|               |                                                 |
|---------------|-------------------------------------------------|
| Remarks       | Further information is available in the manual. |
| Pack quantity | 1 pcs.                                          |

### Electrical connection - Ethernet

Connector: 3 x M12; coding: D; Contacts: 4; sealing: EPDM



### PROFINET X21, X22

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

### IoT X23

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

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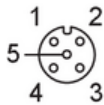


## IO-Link master with Profinet interface

IO-Link Master DL PN 8P IP69K

### Electrical connection - IO-Link

Connector: 8 x M12; coding: A; Contacts: 4; 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              |

### Electrical connection - voltage supply

Connector: 1 x M12; coding: A; Contacts: 4



### X31

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