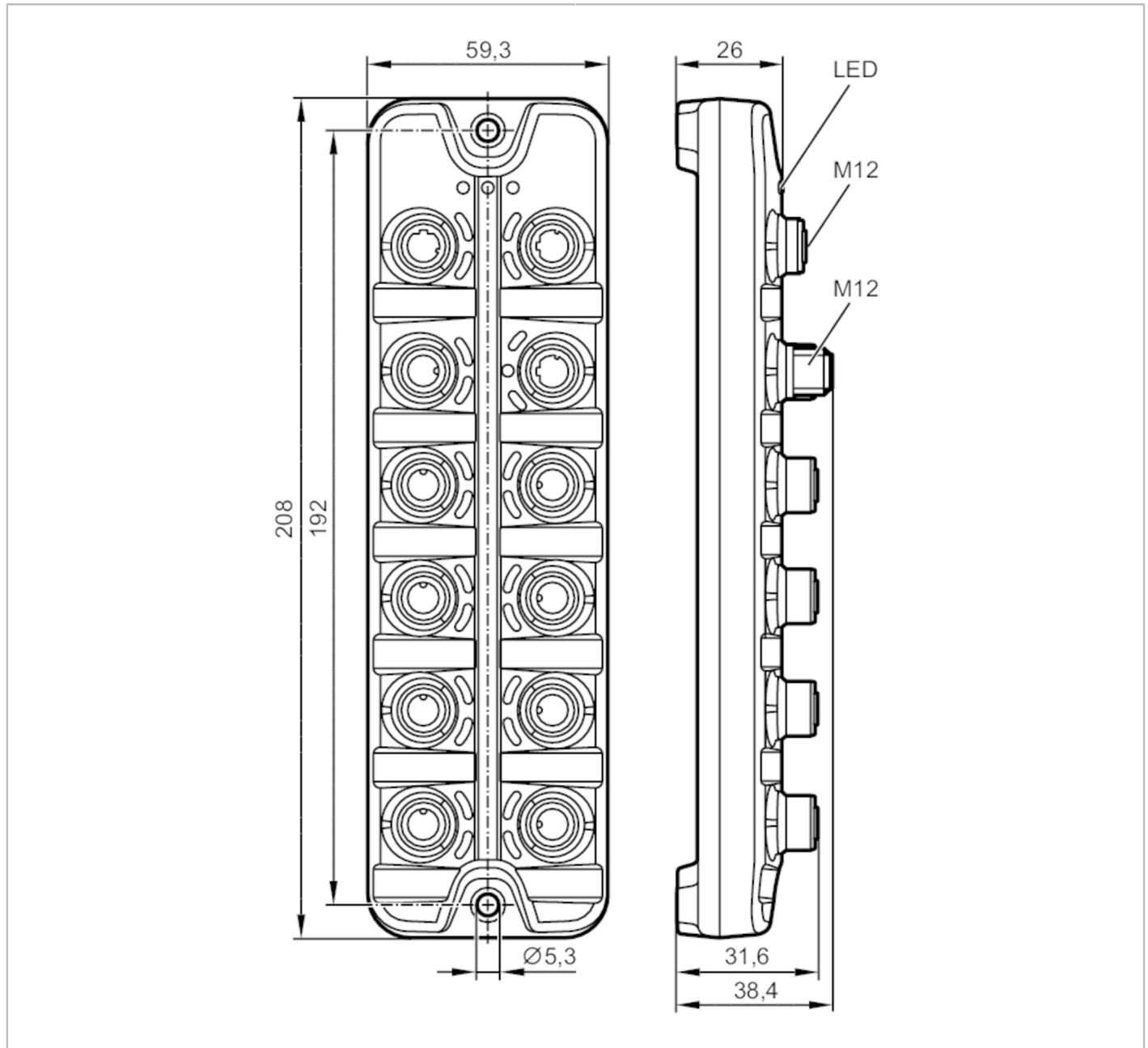


# AL1302



## IO-Link master with PROFINET interface

IO-Link Master DL PN 8P IP67



| Application                 |                                    |
|-----------------------------|------------------------------------|
| Application                 | 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 - Internet of Things                   |  |
| Transmission standard                           | 10Base-T; 100Base-TX                                       |
| Transmission rate                               | 10; 100  |
| Protocol  | TCP/IP 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                                |
| Ethernet - PROFINET                             |  |
| 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  |
| Degree of soiling                               | 2  |

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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 [years]         |                           | 90 |

| Mechanical data |  |       |
|-----------------|--|-------|
| Weight [g]      |  | 380.2 |
| Materials       | housing: PA; socket: brass nickel-plated |       |

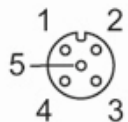
| Remarks       |  |        |
|---------------|--|--------|
| Remarks       | For further information please see the operating instructions. |        |
| Pack quantity |  | 1 pcs. |

### Electrical connection - Process connection

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

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

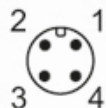
Connector: M12

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## IO-Link master with PROFINET interface

IO-Link Master DL PN 8P IP67



### Electrical connection - Ethernet

#### 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 |

Connector: M12

