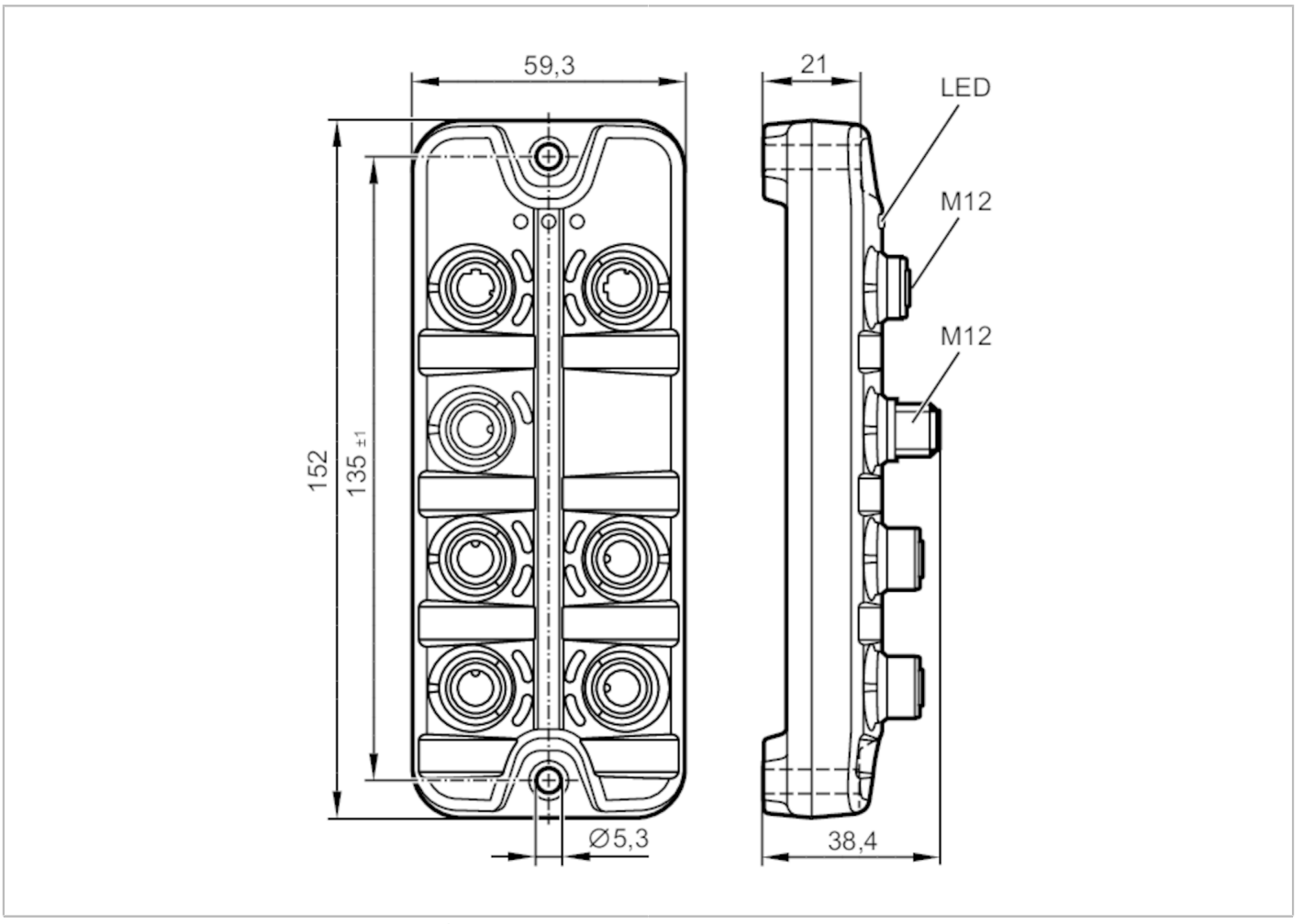
# AL1100

## IO-Link master with PROFINET interface

IO-Link Master SL PN 4P 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 |
| **Inputs / outputs** | | |
| Total number of inputs and outputs | | 8;  (configurable) |
| Number of inputs and outputs | | Number of digital inputs: 8; Number of digital outputs: 4 |
| **Inputs** | | |
| Number of digital inputs | | 8;  (IO-Link Port Class A: 4 x 2) |
| Switching level high | [V] | 11...30 |
| Switching level low | [V] | 0...5 |

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| | | | |
|---|---|---|---|
| Digital inputs protected against short circuits | | | yes |
| **Outputs** | | | |
| Number of digital outputs | | | 4;  (IO-Link Port Class A: 4 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 |
| Note on interfaces | | | CC-C (Conformance Class C) (IRT-Switch) |
| | | | 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 | | | 4 |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | | -25...60 |
| Storage temperature | [°C] | | -25...85 |
| Max. relative air humidity | [%] | | 90 |
| Protection | | | IP 65; IP 66; IP 67 |
| Protection rating (NEMA 250) | | | 6P |
| Pollution degree | | | 2 |
| Chemical media | | ISO 16750-5 | AA, BA, BD, 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] | | 96 |
| **Mechanical data** | | | |
| Weight | [g] | | 297.9 |
| Materials | | | housing: PA orange; socket: brass nickel-plated |

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| | |
|---|---|
| Sealing material | FKM |

### Remarks

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

### Electrical connection - Ethernet

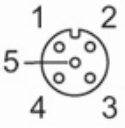
Connector: 2 x M12; coding: D; Sealing: FKM

IN / OUT X21, X22

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

### Electrical connection - Process connection

Connector: 4 x M12; coding: A; Sealing: FKM




IO-Link Port Class A X01...X04

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

### Electrical connection - power supply

Connector: 1 x M12; coding: A

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