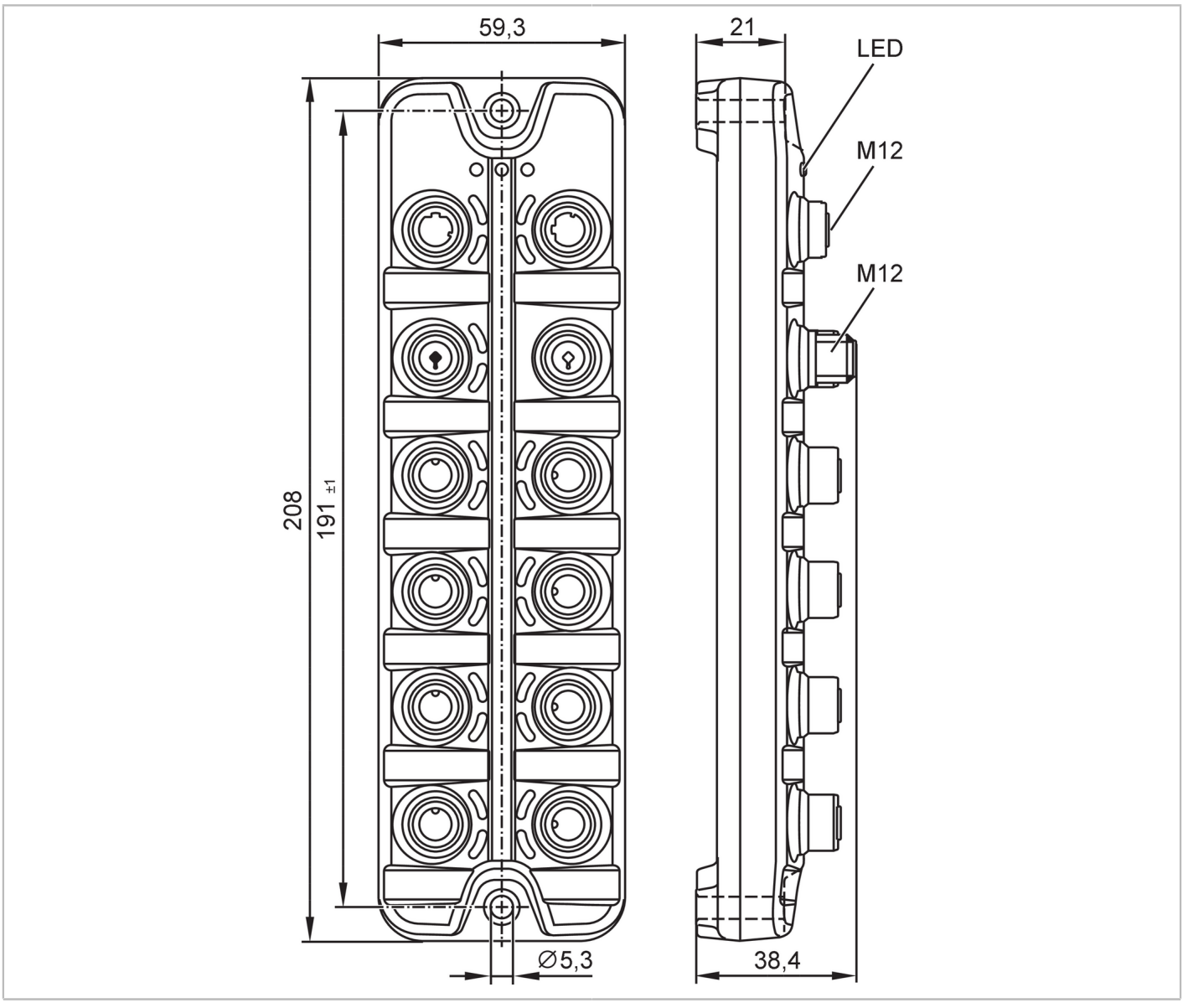
# AL1222

## IO-Link master with EtherNet/IP interface

**IO-Link Master PL EIP 8P IP67**

phase-out article




| | | |
|---|---|---|
| **Application** | | |
| Application | | I/O modules for field applications |
| Loop-through function | | voltage supply; fieldbus interface |
| **Electrical data** | | |
| Operating voltage | [V] | 20...30 DC;  (US ; to SELV/PELV) |
| Current consumption | [mA] | 300...3900;  (US) |
| Protection class | | III |
| Additional voltage supply | [V] | 20...30 DC;  (UA) |
| Actuator supply UA | | |
| Max. current load total | [A] | 3.6 |

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| | | | |
|---|---|---|---|
| Sensor supply US | | | |
| Max. current load total | [A] | 3.6 | |
| **Inputs / outputs** | | | |
| Total number of inputs and outputs | | 12; (configurable) | |
| Number of inputs and outputs | | Number of digital inputs: 12; Number of digital outputs: 8 | |
| **Inputs** | | | |
| Number of digital inputs | | 12; (IO-Link Port Class A: 4 x 2; IO-Link Port Class B: 4 x 1) | |
| 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: 4 x 1; IO-Link Port Class B: 4 x 1) | |
| Max. current load per output | [mA] | 300 | |
| Short-circuit proof | | yes | |
| **Interfaces** | | | |
| Communication interface | | Ethernet; IO-Link | |
| Ethernet - EtherNet/IP | | | |
| Transmission standard | | 10Base-T; 100Base-TX | |
| Transmission rate | | 10 MBit/s; 100 MBit/s | |
| Protocol | | EtherNet/IP | |
| Factory settings | | IP address: 192.168.1.250 | |
| | | subnet mask: 255.255.255.0 | |
| | | gateway IP address: 0.0.0.0 | |
| | | MAC address: see type label | |
| Note on interfaces | | DHCP, BOOTP, static | |
| | | DLR (Device Level Ring) | |
| | | 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 | |
| Number of ports class B | | 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 |

# AL1222

## IO-Link master with EtherNet/IP interface

IO-Link Master PL EIP 8P IP67

| 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] | 63 | |

| Mechanical data | | |
|---|---|---|
| Weight | [g] | 418.3 |
| Housing | | rectangular |
| Type of mounting | | backplane mounting |
| Dimensions | [mm] | 208 x 59.3 x 38.4 |
| Materials | | housing: PA orange; socket: brass nickel-plated |
| 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; Contacts: 4; Sealing: FKM

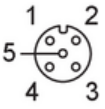



IN / OUT X21, X22

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

### Electrical connection - IO-Link

Connector: 8 x M12; coding: A; Contacts: 5; 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 |

IO-Link Port Class B X05...X08

| | |
|---|---|
| 1 | Sensor supply (US) L + |
| 2 | actuator supply (UA) L+ |
| 3 | Sensor supply (US) L- |
| 4 | C/Q IO-Link |
| 5 | actuator supply (UA) L- |

# AL1222

## IO-Link master with EtherNet/IP interface

**IO-Link Master PL EIP 8P IP67**

### Electrical connection - voltage supply IN

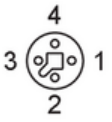
Connector: 1 x M12; coding: T; Contacts: 4




| X31 | |
|---|---|
| 1 | + 24 V DC (US) brown |
| 2 | GND (UA) white |
| 3 | GND (US) blue |
| 4 | + 24 V DC (UA) black |

### Electrical connection - voltage supply OUT

Connector: 1 x M12; coding: T; Contacts: 4; Sealing: FKM




| X32 | |
|---|---|
| 1 | + 24 V DC (US) brown |
| 2 | GND (UA) white |
| 3 | GND (US) blue |
| 4 | + 24 V DC (UA) black |