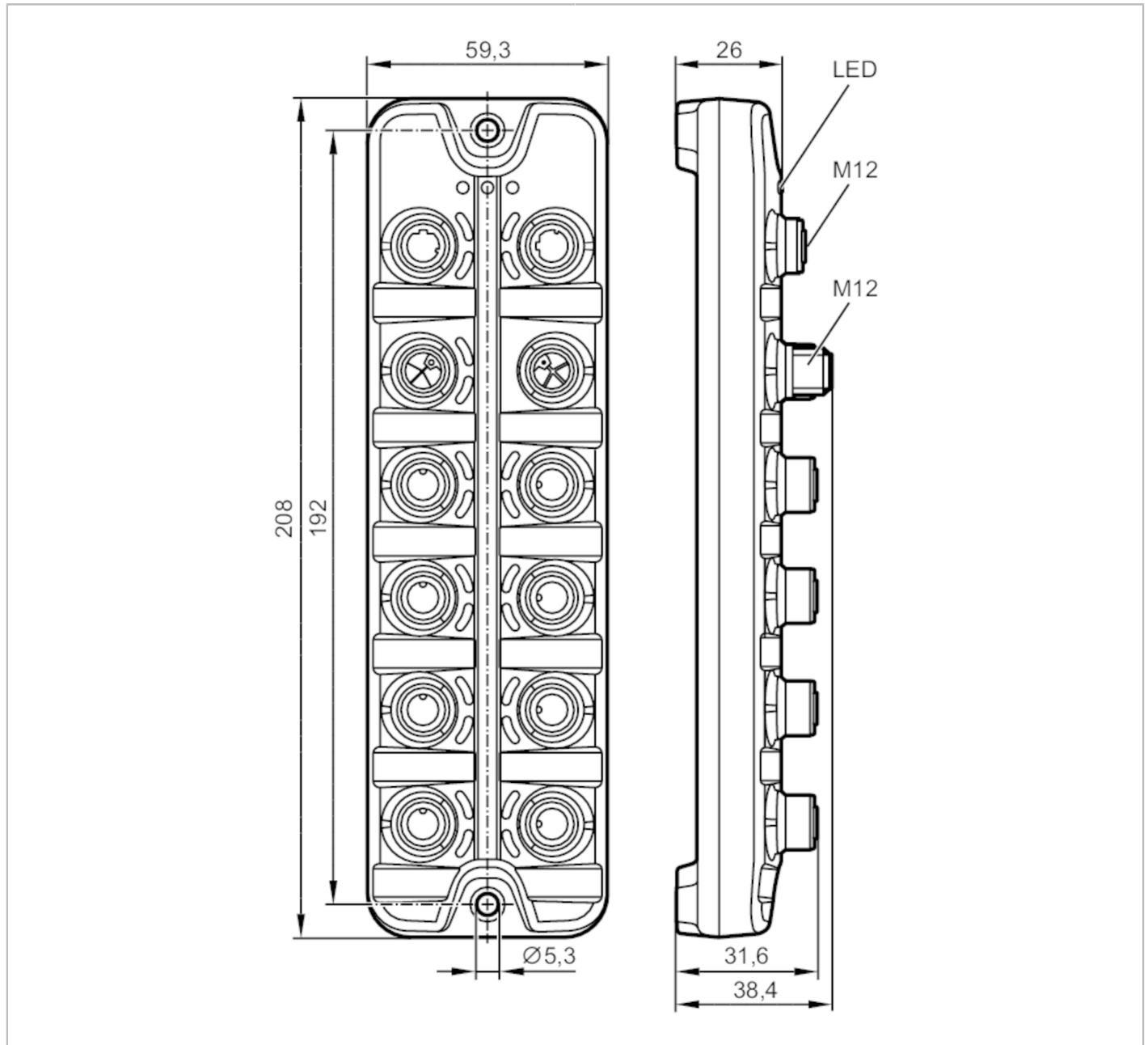


# AL1422



## IO-Link master with EtherNet/IP interface

IO-Link Master PFL EIP 8P IP67



### Application

|                      |                                    |
|----------------------|------------------------------------|
| Application          | I/O modules for field applications |
| Daisy-chain 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)               |



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|   |  |
|---|--|
| <b>Actuator supply UA</b>                       |  |
| Max. current load total [A]                     | 8  |
| Current rating per port [A]                     | 2; (adjustable: 0...2; Factory setting: 2)                     |
| <b>Sensor supply US</b>                         |  |
| Max. current load total [A]                     | 3.6  |
| Current rating per port [A]                     | 2; (adjustable: 0...2; Factory setting: 0,45)                  |
| <b>Inputs / outputs</b>                         |  |
| Total number of inputs and outputs              | 24; (configurable)   |
| Number of inputs and outputs                    | Number of digital inputs: 12; Number of digital outputs: 12    |
| <b>Inputs</b>                                   |  |
| 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  |
| <b>Outputs</b>                                  |  |
| Number of digital outputs                       | 12; (IO-Link Port Class A: 4 x 1; IO-Link Port Class B: 4 x 2) |
| Short-circuit proof                             | yes  |
| <b>Actuator supply UA</b>                       |  |
| Max. current load per output [mA]               | 2000   |
| <b>Sensor supply US</b>                         |  |
| Max. current load per output [mA]               | 2000   |
| <b>Interfaces</b>                               |  |
| Communication interface                         | Ethernet; IO-Link  |
| <b>Ethernet</b>                                 |  |
| Transmission standard                           | 10Base-T; 100Base-TX   |
| Transmission rate                               | 10; 100  |
| 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                              | Supported network topologies; line; ring; DLR                  |
| <b>IO-Link Master</b>                           |  |
| Transmission type                               | COM 1 / COM 2 / COM 3  |
| IO-Link revision                                | 1.1  |
| Number of ports class A                         | 4  |
| Number of ports class B                         | 4  |



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| 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                   |

| 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  |

| Mechanical data |     |  |
|-----------------|-----|--|
| Weight          | [g] | 412.2                                    |
| Materials       |     | housing: PA; socket: brass nickel-plated |

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

### Electrical connection

#### Electrical connection - Ethernet

| IN / OUT XF1, XF2 |          |
|-------------------|----------|
| 1                 | TX +     |
| 2                 | RX +     |
| 3                 | TX -     |
| 4                 | RX -     |
| 5                 | not used |

Connector: M12



#### Electrical connection - Process connection

| IO-Link Port Class B X1...X4 |                         |
|------------------------------|-------------------------|
| 1                            | Sensor supply (US) L +  |
| 2                            | digital output (UA) L+  |
| 3                            | Sensor supply (US) L-   |
| 4                            | C/Q IO-Link             |
| 5                            | actuator supply (UA) L- |



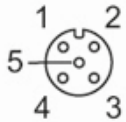
## IO-Link master with EtherNet/IP interface

IO-Link Master PFL EIP 8P IP67

### IO-Link Port Class A X5...X8

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

Connector: M12



### Electrical connection - voltage supply IN

#### XD1

|   |                      |
|---|----------------------|
| 1 | + 24 V DC (US) brown |
| 2 | GND (UA) white       |
| 3 | GND (US) blue        |
| 4 | + 24 V DC (UA) black |
| 5 | FE grey              |

Connector: M12



### Electrical connection - voltage supply OUT

#### XD2

|   |                      |
|---|----------------------|
| 1 | + 24 V DC (US) brown |
| 2 | GND (UA) white       |
| 3 | GND (US) blue        |
| 4 | + 24 V DC (UA) black |
| 5 | FE grey              |

Connector: M12

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