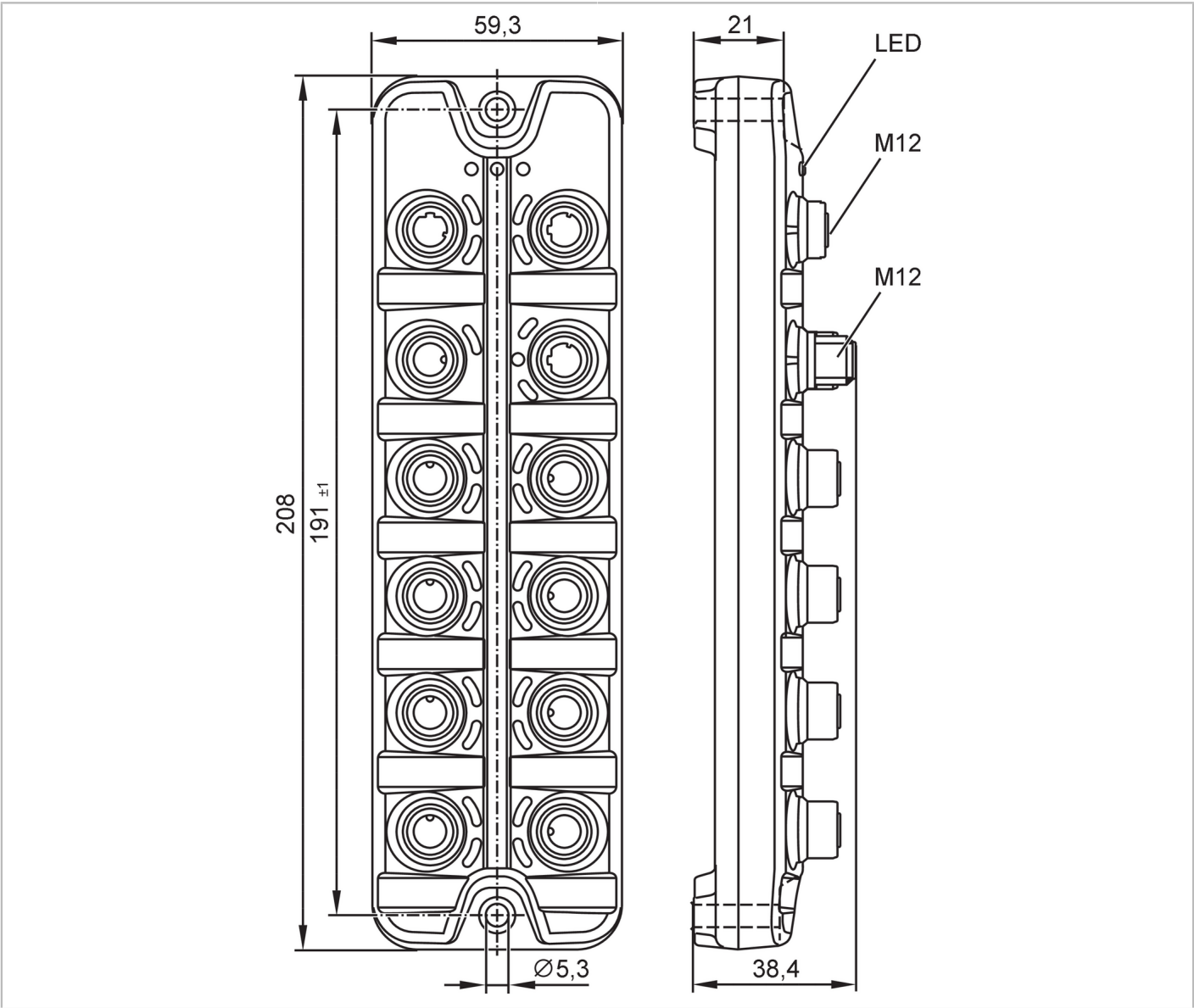


# AL1372



## IO-Link master with POWERLINK interface

IO-Link Master DL PLI 8P IP67



IO-Link



### 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

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...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]            | 300                                                     |
| Short-circuit proof                             |                 | yes                                                     |
| Interfaces                                      |                 |                                                         |
| Communication interface                         |                 | Ethernet; IO-Link                                       |
| Ethernet - POWERLINK                            |                 |                                                         |
| Transmission standard                           |                 | 10Base-T; 100Base-TX                                    |
| Transmission rate                               |                 | 10 MBit/s; 100 MBit/s                                   |
| Protocol                                        |                 | POWERLINK                                               |
| Factory settings                                |                 | IP address: 192.168.100.1                               |
|                                                 |                 | subnet mask: 255.255.255.0                              |
|                                                 |                 | gateway IP address: 0.0.0.0                             |
|                                                 |                 | MAC address: see type label                             |
| 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                                                |
| 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    |                                                         |



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|                      |                           |    |
|----------------------|---------------------------|----|
| 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]         |                           | 78 |

Mechanical data

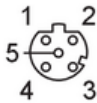
|                  |                                                 |
|------------------|-------------------------------------------------|
| Weight [g]       | 409.8                                           |
| Housing          | rectangular                                     |
| Type of mounting | Backplane mounting                              |
| Dimensions [mm]  | 208 x 59.3 x 38.4                               |
| Material         | housing: PA orange; Socket: brass nickel-plated |
| Sealing material | FKM                                             |

Remarks

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

Electrical connection - Ethernet

Connector: 2 x M12; coding: D; Contacts: 4; sealing: FKM



Powerlink X21, X22

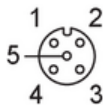
|   |          |
|---|----------|
| 1 | TX +     |
| 2 | RX +     |
| 3 | TX -     |
| 4 | RX -     |
| 5 | not used |

IoT X23

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

Electrical connection - IO-Link

Connector: 8 x M12; coding: A; Contacts: 4; sealing: FKM



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



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## IO-Link master with POWERLINK interface

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

### Electrical connection - voltage supply IN

Connector: 1 x M12

### Electrical connection - voltage supply OUT

Connector: 1 x M12; sealing: FKM