

AL1000

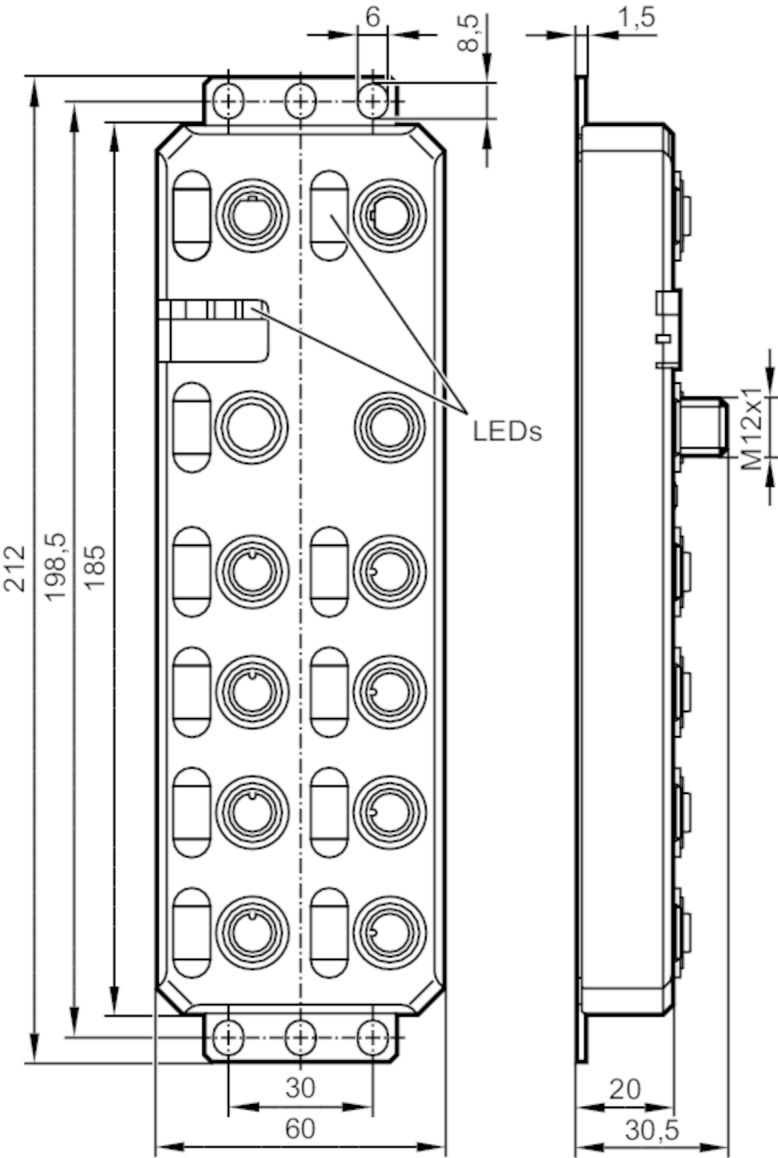


IO-Link master with PROFINET interface

IO-Link Master PL PN 8P IP67

phase-out article

Alternative articles: AL1202  
When selecting an alternative article and accessories please note that technical data may differ!



| Application          |     |                                    |
|----------------------|-----|------------------------------------|
| Application          |     | I/O modules for field applications |
| Daisy-chain function |     | power supply; fieldbus interface   |
| Electrical data      |     |                                    |
| Operating voltage    | [V] | 19...31.2 DC; (US)                 |
| Protection class     |     | III                                |



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|                                                 |                  |                                                                |
|-------------------------------------------------|------------------|----------------------------------------------------------------|
| Additional voltage supply                       | [V]              | 19...31.2 DC; (UA)                                             |
| Actuator supply UA                              |                  |                                                                |
| Current rating per port                         | [A]              | 1.6                                                            |
| Sensor supply US                                |                  |                                                                |
| Current rating per port                         | [A]              | 0.2                                                            |
| <b>Inputs / outputs</b>                         |                  |                                                                |
| Total number of inputs and outputs              |                  | 12; (configurable)                                             |
| Number of inputs and outputs                    |                  | Number of digital inputs: 12; Number of digital outputs: 8     |
| <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]              | 15...30                                                        |
| Switching level low                             | [V]              | -3...5                                                         |
| Digital inputs protected against short circuits |                  | yes                                                            |
| <b>Outputs</b>                                  |                  |                                                                |
| 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]             | 200                                                            |
| Short-circuit proof                             |                  | yes                                                            |
| Actuator supply outputs                         |                  | 24 V DC                                                        |
| <b>Interfaces</b>                               |                  |                                                                |
| Communication interface                         |                  | Ethernet; IO-Link                                              |
| Ethernet - PROFINET                             |                  |                                                                |
| Protocol                                        |                  | PROFINET                                                       |
| 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                                                              |
| <b>Operating conditions</b>                     |                  |                                                                |
| Ambient temperature                             | [°C]             | -25...60                                                       |
| Storage temperature                             | [°C]             | -25...85                                                       |
| Max. relative air humidity                      | [%]              | 95                                                             |
| Protection                                      |                  | IP 65; IP 67                                                   |
| <b>Tests / approvals</b>                        |                  |                                                                |
| EMC                                             | EN 61000-6-2     |                                                                |
|                                                 | EN 61000-4-2 ESD | 6 kV contact discharge / 8 kV air discharge                    |
|                                                 | EN 61000-4-3     |                                                                |
|                                                 | EN 61000-4-4     |                                                                |
|                                                 | EN 61000-4-5     |                                                                |
|                                                 | EN 61000-4-6     |                                                                |
| Shock resistance                                | EN 60068-2-27    | 30 g 11 ms                                                     |
| Vibration resistance                            | EN 60068-2-6     | 5 g                                                            |



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| Mechanical data  |                                                                |
|------------------|----------------------------------------------------------------|
| Weight [g]       | 574                                                            |
| Materials        | housing: PA; 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: M12; coding: D; Sealing: FKM

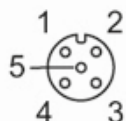


## IN / OUT X21, X22

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

## Electrical connection - Process connection

Connector: 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              |

## 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- |



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### Electrical connection - power supply IN

Connector: M12; coding: T

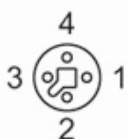


#### X31

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

### Electrical connection - power supply OUT

Connector: M12; coding: T; Sealing: FKM



#### X32

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