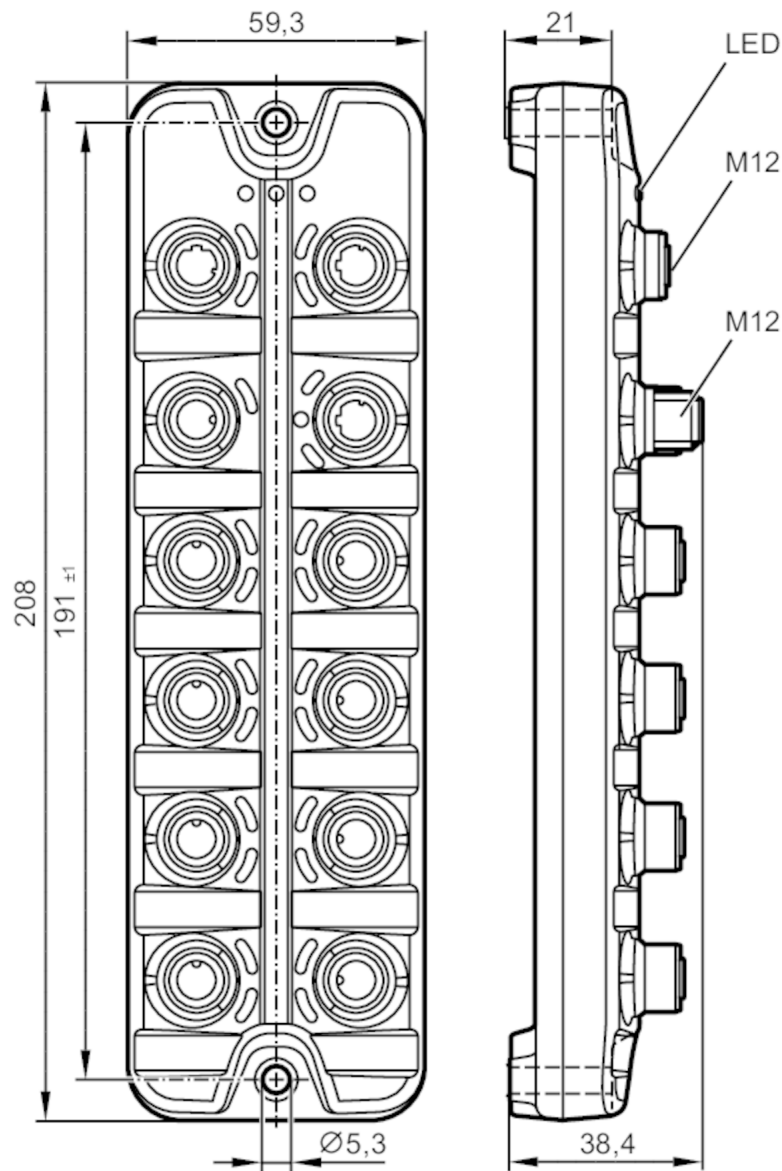


AL1332



IO-Link master with EtherCAT interface

IO-Link Master DL EC 8P 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 |



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| 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 |
| 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 - EtherCAT | |
| Transmission standard | 100Base-TX |
| Transmission rate | 100 MBit/s |
| Protocol | EtherCAT |
| Factory settings | MAC address: see type label |
| Note on interfaces | AoE (ADS over EtherCAT) |
| | CoE (CANopen over EtherCAT) |
| | EoE (Ethernet over EtherCAT) |
| | FoE (File Access over EtherCAT) |
| 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 | Secure 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 |



IO-Link master with EtherCAT interface

IO-Link Master DL EC 8P IP67

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

Mechanical data

| | |
|------------------|---|
| Weight [g] | 404 |
| 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: M12; coding: D; Sealing: FKM



EtherCAT X21, X22

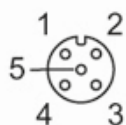
| | |
|---|----------|
| 1 | TX + |
| 2 | RX + |
| 3 | TX - |
| 4 | RX - |
| 5 | not used |

IoT X23

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

Electrical connection - Process connection

Connector: M12; coding: A; Sealing: FKM





IO-Link master with EtherCAT interface

IO-Link Master DL EC 8P IP67

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 - power supply

Connector: M12; coding: A



X31

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