

AL1900

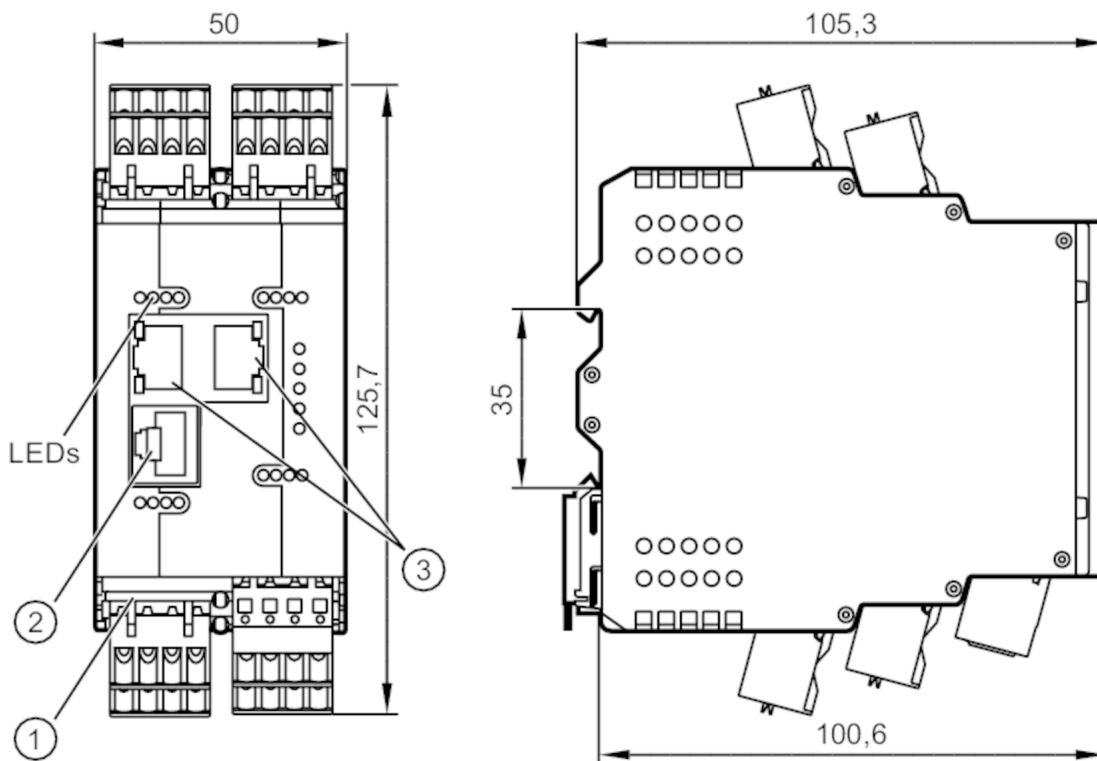


IO-Link master with Profinet interface

IO-Link Master CL PN 8P IP20

Alternative articles: AL1901

When selecting an alternative article and accessories please note that technical data may differ!



- 1 COMBICON-Stecker
- 2 IoT-Port
- 3 PROFINET-IO-Datenschnittstelle



| Application | |
|------------------------------------|---|
| Application | I/O modules for use in the control cabinet |
| 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: 8; Number of digital outputs: 8 |
| Inputs | |
| Number of digital inputs | 8; (IO-Link Port Class A) |
| Switching level high [V] | 11...30 |
| Switching level low [V] | 0...5 |

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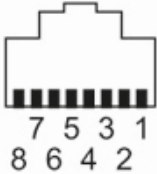
| | |
|---|---|
| Digital inputs protected against short circuits | yes |
| Outputs | |
| Number of digital outputs | 8; (IO-Link Port Class A) |
| Max. current load per output [mA] | 300 |
| Short-circuit proof | yes |
| Interfaces | |
| Communication interface | Ethernet; IO-Link |
| Ethernet - PROFINET | |
| Transmission standard | 100Base-TX |
| Transmission rate | 100 MBit/s |
| Protocol | PROFINET |
| Factory settings | IP address: 0.0.0.0 |
| | subnet mask: 0.0.0.0 |
| | gateway IP address: 0.0.0.0 |
| | MAC address: see type label |
| Note on interfaces | CC-C (Conformance Class C) (IRT-Switch) |
| | Netload Class III |
| | SNMP (Simple Network Management Protocol) |
| | MRP (Media Redundancy Protocol) |
| | Supported network topologies: line ring |
| 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...65 |
| Storage temperature [°C] | -25...85 |
| Max. relative air humidity [%] | 90 |
| Protection | IP 20 |
| Tests / approvals | |
| EMC | EN 61000-6-2 |
| | EN 61000-6-4 |
| MTTF [years] | 78 |

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| Mechanical data | |
|---|---|
| Weight | [g] 330 |
| Material | housing: PA orange |
| Accessories | |
| Items supplied | cage clamps: 9 |
| Remarks | |
| Remarks | Further information is available in the manual. |
| Pack quantity | 1 pcs. |
| Electrical connection | |
| voltage supply X31 | |
| 1 | GND (US) |
| 2 | GND (US) |
| 3 | + 24 V DC (US) |
| 4 | + 24 V DC (US) |
| 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 |
| Electrical connection - Ethernet | |
| Connector: RJ45 | |
|  | |
| Ethernet IP X21, X22 | |
| 1 | TX + |
| 2 | TX - |
| 3 | RX + |
| 4 | not used |
| 5 | not used |
| 6 | RX - |
| 7 | not used |
| 8 | not used |
| IoT X23 | |
| 1 | TX + |
| 2 | TX - |
| 3 | RX x |
| 4 | not used |
| 5 | not used |
| 6 | RX - |
| 7 | not used |
| 8 | not used |