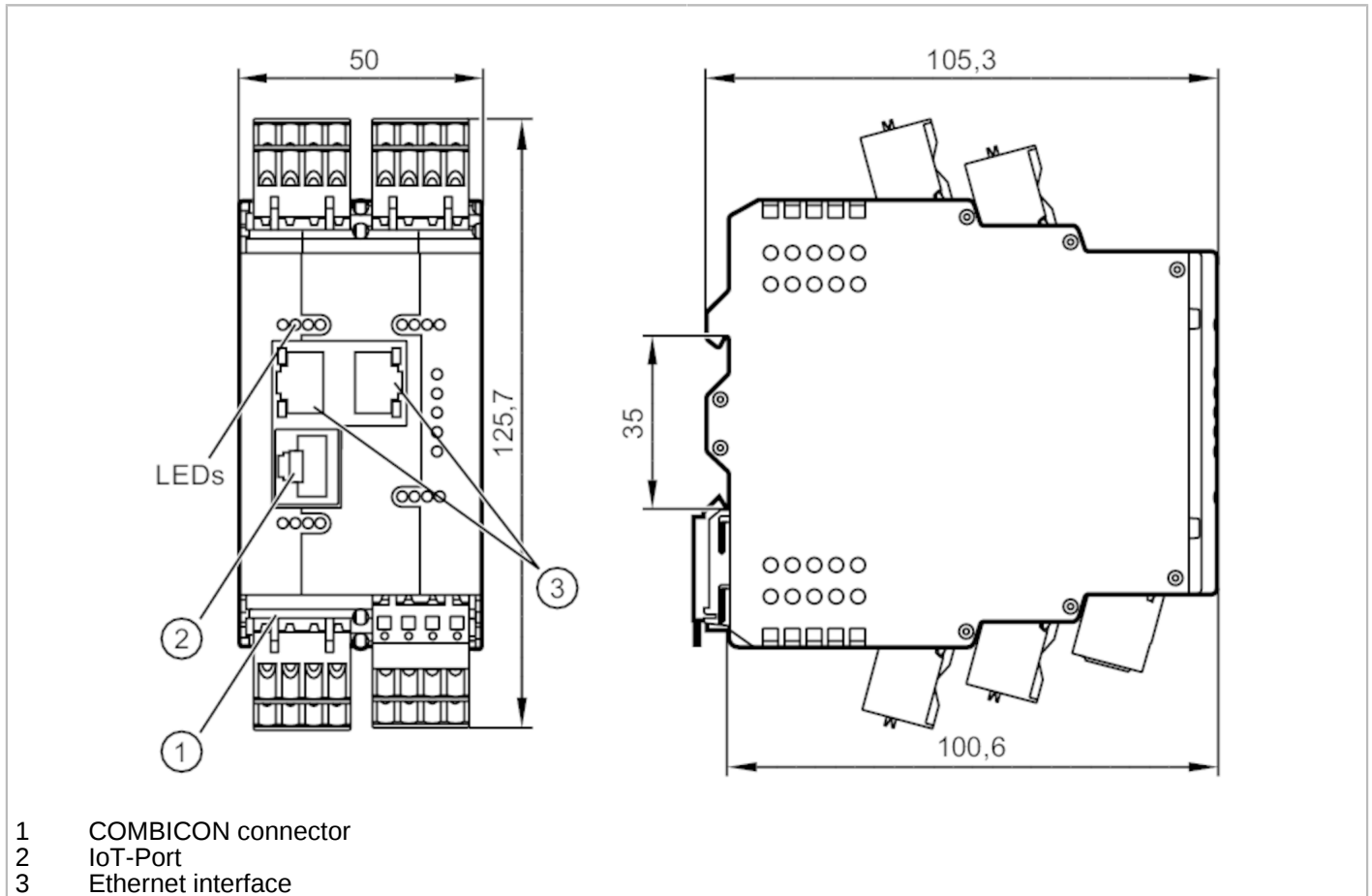


AL1930



IO-Link master with EtherCAT interface

IO-Link Master CL EC 8P IP20



| 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 |
| Digital inputs protected against short circuits | yes |



IO-Link master with EtherCAT interface

IO-Link Master CL EC 8P IP20

| 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 |
| Note on interfaces | Secure protocol: HTTPS |
| Ethernet - EtherCAT | |
| Transmission standard | 10Base-T; 100Base-TX |
| Transmission rate | 10; 100 |
| Protocol | EtherCAT |
| Factory settings | MAC address: see type label |
| Note on interfaces | AoE (ADS over EtherCAT) CoE (CANopen over EtherCAT) |
| Ethernet - Internet of Things | |
| Transmission standard | 10Base-T; 100Base-TX |
| Transmission rate | 10; 100 |
| 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 |
| 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 |
| Mechanical data | |
| Weight [g] | 330.5 |
| Materials | housing: PA |
| Accessories | |
| Items supplied | COMBICON connectors: 9 |
| Remarks | |
| Remarks | For further information please see the operating instructions. |
| Pack quantity | 1 pcs. |



IO-Link master with EtherCAT interface

IO-Link Master CL EC 8P IP20

Electrical connection

voltage supply X31

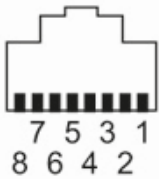
| | |
|---|----------------|
| 1 | GND (US) |
| 2 | GND (US) |
| 3 | + 24 V DC (US) |
| 4 | + 24 V DC (US) |

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



EtherCat 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 |