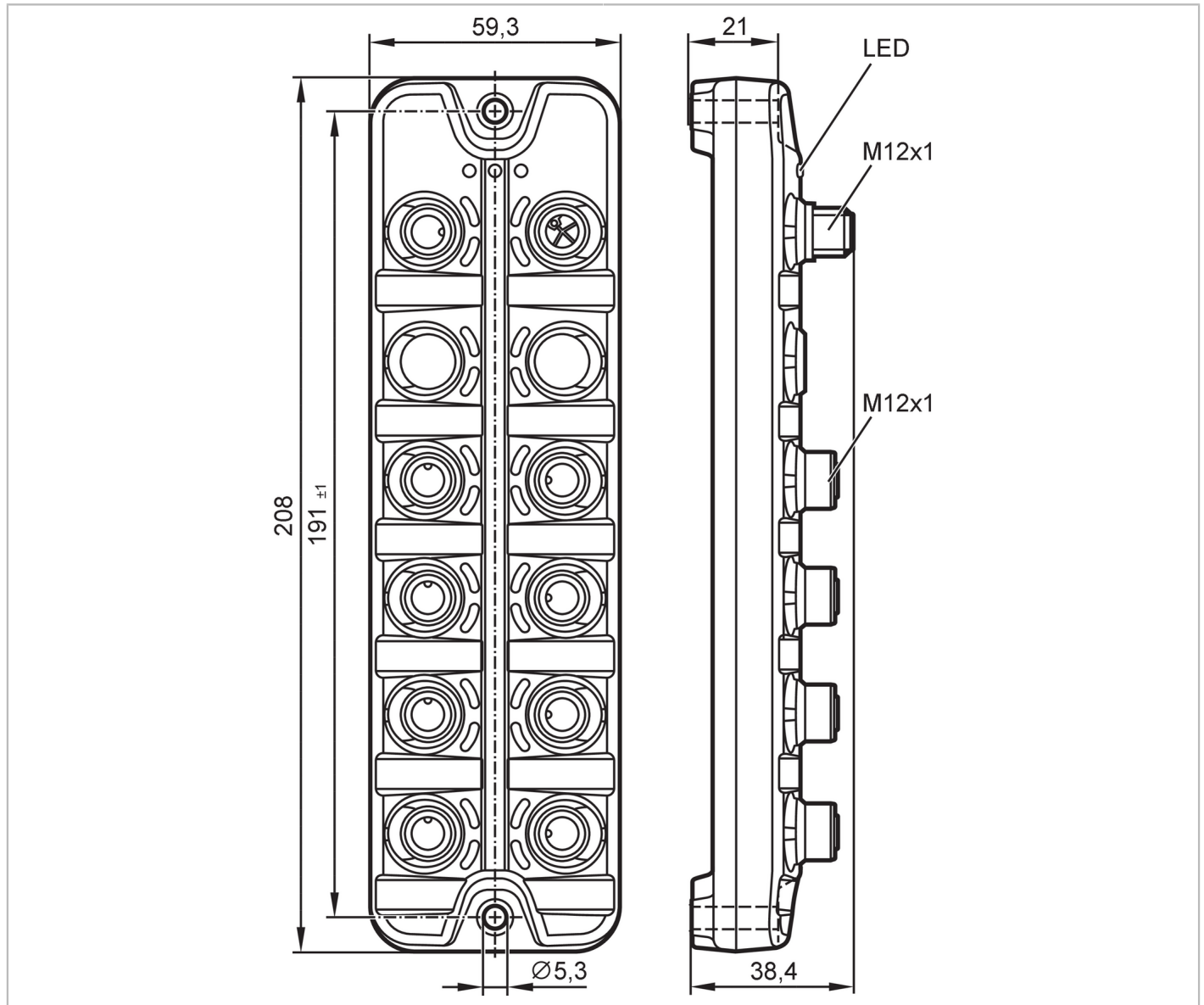


AL2605



IO-Link input/output module

IOL MOD PL 8XMP/DX E M12 IP67



| Electrical data | |
|---|--|
| Operating voltage | [V] 18...30 DC |
| Current consumption | [mA] 50; (US) |
| Protection class | III |
| Additional voltage supply | [V] 18...30 DC; (UA UA _i) |
| Max. current consumption from additional supply | [mA] 16000; (UA; UA _i : 800 mA) |
| Inputs / outputs | |
| Total number of inputs and outputs | 16 |
| Number of inputs and outputs | Number of digital inputs: 16; Number of analog inputs: 8; Number of frequency inputs: 2; Number of digital outputs: 16 |
| Inputs | |
| Number of frequency inputs | 2 |

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IO-Link input/output module

IOL MOD PL 8XMP/DX E M12 IP67

| | | |
|---------------------------------|------|---|
| Number of digital inputs | | 16; (configurable) |
| Input circuit of digital inputs | | PNP; (type 3 (IEC 61131-2)) |
| Sensor supply of the inputs | | AUX (UA, UAi) |
| Voltage supply | [V] | 18...30 |
| Input current High | [mA] | 2...15 |
| Input current low | [mA] | 0...1.5 |
| Switching level high | [V] | 11...28 |
| Switching level low | [V] | 0...5 |
| Number of analog inputs | | 8; (configurable current/voltage input) |
| Analog input (current) | [mA] | 4...20 |
| Analog input (voltage) | [V] | 0...10 |
| Resolution of analog input | | 16 Bit |
| Precision analog input | [%] | 0,3 |

Outputs

| | | | |
|---------------------------------|--|-----------------------------|------------|
| Number of digital outputs | | 16; (configurable) | |
| Max. current load per output | [mA] | 2000 | |
| Max. current load outputs total | [A] | 16 | |
| Short-circuit protection | | yes | |
| Actuator supply outputs | | AUX (UA) | |
| Number of PWM outputs | | 8; (acyclic enhanced modus) | |
| Number of PWM-I outputs | | 2; (acyclic enhanced modus) | |
| PMW/PWM-I output | max. current PWM-I output | [mA] | 2000 |
| | available factors for the controller | [PID] | Kp, Ki, Kd |
| | currently requested resolution | [mA] | 1 |
| | Accuracy PWM-I Ausgang | [%] | 2,2 |
| | range of the PWM output pulse/pause ratio | [%] | 0...1000 |
| | switch-on time resolution | ‰] | 1 |
| | PWM/PWM-I frequency range | [Hz] | 20...1000 |
| | number of configurable frequencies | | 2 |
| | number of PWM outputs with optional dither | | 8 |
| | dither level | ‰] | 1...250 |
| dither number | | 1...20 | |

Measuring/setting range

| | | |
|---------------|------|----------|
| Sampling rate | [Hz] | 0...3000 |
|---------------|------|----------|

Interfaces

| | | |
|----------------------------|------|--------------------|
| Communication interface | | IO-Link |
| Transmission type | | COM3 (230,4 kBaud) |
| IO-Link revision | | 1.1 |
| SDCI standard | | IEC 61131-9 |
| SIO mode | | no |
| Required master port class | | A |
| Min. process cycle time | [ms] | 4 |

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IO-Link input/output module

IOL MOD PL 8XMP/DX E M12 IP67

| Supported DeviceIDs | Type of operation | DeviceID |
|---------------------|--|----------|
| | Acyclic enhanced parametrisation | 1449 |
| | Acyclic parametrisation | 1316 |
| | Factory setting: parametrisation via Pdout | 1315 |

Note

Parameter setting can be changed from “cyclic” to “acyclic” and “acyclic enhanced”
For further information please see the IODD PDF file at “Downloads”

Acyclic enhanced parametrisation

| | | |
|----------|--------------|------------------------------|
| Profiles | Common - I&D | Identification and Diagnosis |
| | Function | Multiple switching signal |

Acyclic parametrisation

| | | |
|----------|--------------|------------------------------|
| Profiles | Common - I&D | Identification and Diagnosis |
|----------|--------------|------------------------------|

Factory setting: parametrisation via Pdout

| | | |
|----------|--------------|------------------------------|
| Profiles | Common - I&D | Identification and Diagnosis |
|----------|--------------|------------------------------|

Operating conditions

| | | |
|------------------------------|-----------------|-------------------------------------|
| Ambient temperature | [°C] | -25...60 |
| Storage temperature | [°C] | -25...70 |
| Max. relative air humidity | [%] | 90 |
| Max. height above sea level | [m] | 2000 |
| Protection | | IP 65; IP 67 |
| Protection rating (NEMA 250) | | 6P |
| Degree of soiling | | 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 61000-6-3 | |
| | IEC 61131-9 | |
| Shock resistance | DIN EN 60068-2-27 | |
| Vibration resistance | DIN EN 60068-2-64 | |
| | DIN EN 60068-2-6 | |
| MTTF | [years] | 35 |

Mechanical data

| | | |
|-------------------|------|---|
| Weight | [g] | 394 |
| 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 |
| Tightening torque | [Nm] | < 0.8 |

Displays / operating elements

| | | |
|---------|----------|------------------|
| Display | Power | 4 x LED, green |
| | fault | 3 x LED, red |
| | Function | 16 x LED, yellow |

Accessories

| | |
|------------------------|--------------------------------|
| Accessories (optional) | protective cap for M12 sockets |
|------------------------|--------------------------------|

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IO-Link input/output module

IOL MOD PL 8XMP/DX E M12 IP67

Remarks

Pack quantity 1 pcs.

Electrical connection - AUX

Connector: 1 x M12; coding: L; Contacts: 5



X31

| | |
|----|-------------|
| 1: | L+ (UAi) |
| 2: | L- (UA/UAi) |
| 3: | n.c. |
| 4: | L+ (UA) |
| 5: | FE |

Electrical connection - IO-Link

Connector: 1 x M12; coding: A; Contacts: 4

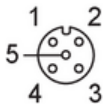


X1

| | |
|----|--------------|
| 1: | L+ (US) |
| 2: | n.c. |
| 3: | L- (US) |
| 4: | DATA IO-Link |

Electrical connection - inputs / outputs

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



X1.0...X1.7

| | |
|----|---------------------------|
| 1: | L+ (UA/UAi) Sensor supply |
| 2: | MP2 DI2, DO2 |
| 3: | L- (UA/UAi) Sensor supply |
| 4: | MP1 DI1, DO1 |
| 5: | FE |