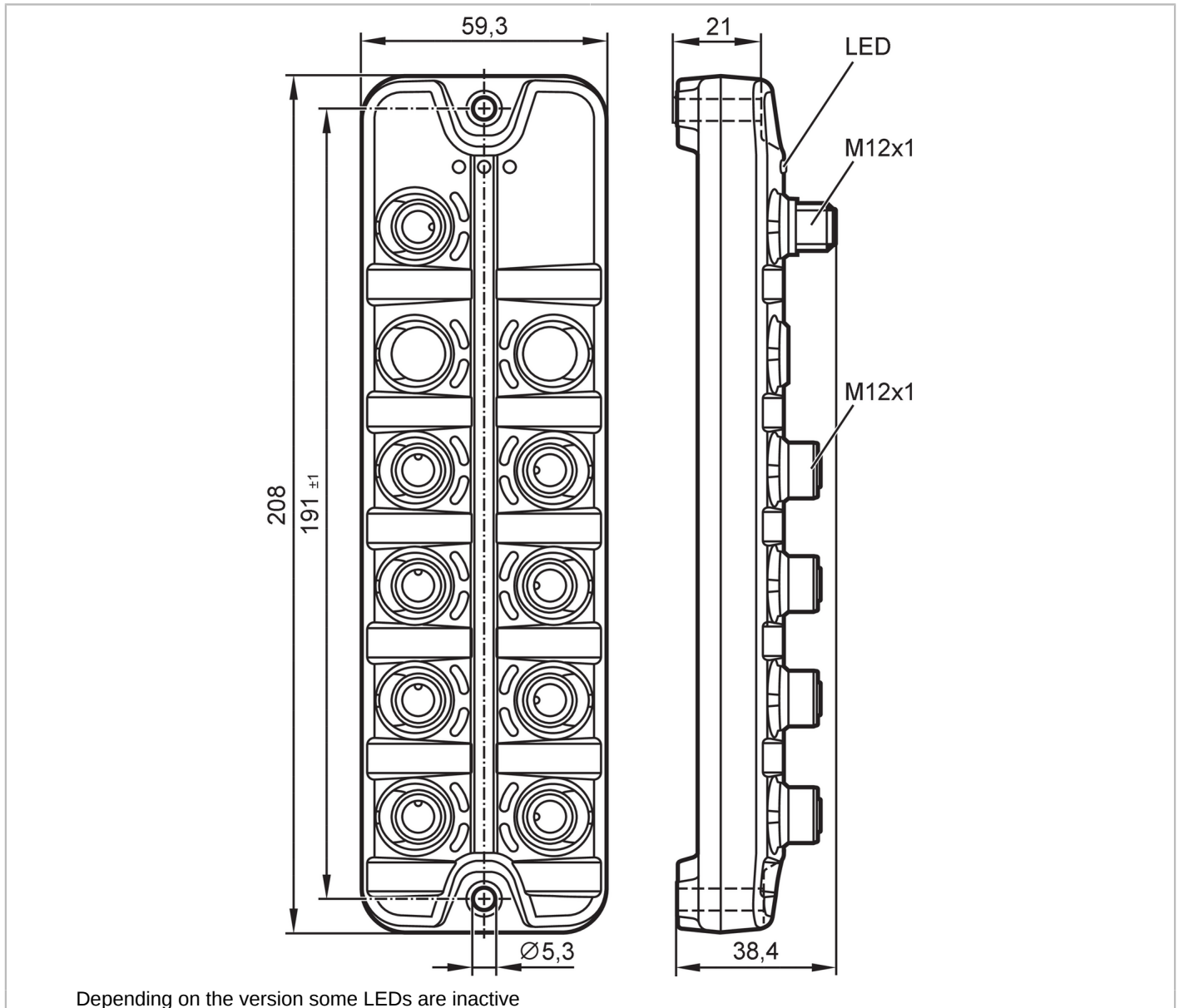


AL2221



IO-Link input/output module

IOL MOD SL 8XDX/DX A M12 IP69K



Depending on the version some LEDs are inactive



| Electrical data | |
|------------------------------------|---|
| Operating voltage [V] | 18...30 DC |
| Current consumption [mA] | 1100; (US) |
| Protection class | III |
| Inputs / outputs | |
| Total number of inputs and outputs | 16 |
| Number of inputs and outputs | Number of digital inputs: 16; Number of digital outputs: 16 |
| Inputs | |
| Number of digital inputs | 16; (configurable) |
| Input circuit of digital inputs | PNP; (type 3 (IEC 61131-2)) |
| Sensor supply of the inputs | US |

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| | | |
|----------------------|------|---------|
| 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 |

| Outputs | |
|---------------------------------|--------------------|
| Number of digital outputs | 16; (configurable) |
| Max. current load per output | [mA] 1000 |
| Max. current load outputs total | [A] 1 |
| Short-circuit protection | yes |
| Actuator supply outputs | US |

| Interfaces | | | | | |
|----------------------------|---|-------------------|----------|---------|------|
| Communication interface | IO-Link | | | | |
| Transmission type | COM3 (230,4 kBaud) | | | | |
| IO-Link revision | 1.1 | | | | |
| SDCI standard | IEC 61131-9 | | | | |
| Profiles | Common - I&D Identification and Diagnosis | | | | |
| SIO mode | no | | | | |
| Required master port class | A | | | | |
| Min. process cycle time | [ms] 4 | | | | |
| Supported DeviceIDs | <table><thead><tr><th>Type of operation</th><th>DeviceID</th></tr></thead><tbody><tr><td>default</td><td>1314</td></tr></tbody></table> | Type of operation | DeviceID | default | 1314 |
| Type of operation | DeviceID | | | | |
| default | 1314 | | | | |
| Note | For further information please see the IODD PDF file at "Downloads" | | | | |

| 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; IP 69K; (operation with stainless steel protective caps: IP 69K) |
| Protection rating (NEMA 250) | 6P |
| Degree of soiling | 2 |
| Chemical media | ISO 16750-5 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] 46 | |

| Mechanical data | |
|-----------------|-------------|
| Weight | [g] 454.235 |
| Housing | rectangular |

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IOL MOD SL 8XDX/DX A M12 IP69K

| | |
|------------------|---|
| Type of mounting | Backplane mounting |
| Dimensions [mm] | 208 x 59.3 x 38.4 |
| Material | housing: PA grey; Socket: stainless steel (1.4404 / 316L) |
| Sealing material | EPDM |

Displays / operating elements

| | | |
|---------|----------|-----------------|
| Display | Power | 1 x LED, green |
| | fault | 1 x LED, red |
| | Function | 1 x LED, yellow |

Accessories

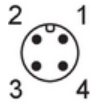
| | |
|------------------------|--------------------------------|
| Accessories (optional) | protective cap for M12 sockets |
|------------------------|--------------------------------|

Remarks

| | |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection - IO-Link

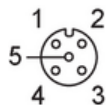
Connector: 1 x M12; coding: A



| X1 | |
|----|----------------|
| 1 | + 24 V DC (US) |
| 2 | not used |
| 3 | GND (US) |
| 4 | IO-Link |

Electrical connection - inputs / outputs

Connector: 8 x M12; coding: A; sealing: EPDM



| X1.0...X1.7 | |
|-------------|----------------|
| 1 | + 24 V DC (US) |
| 2 | I/O2 |
| 3 | GND (US) |
| 4 | I/O1 |
| 5 | not used |