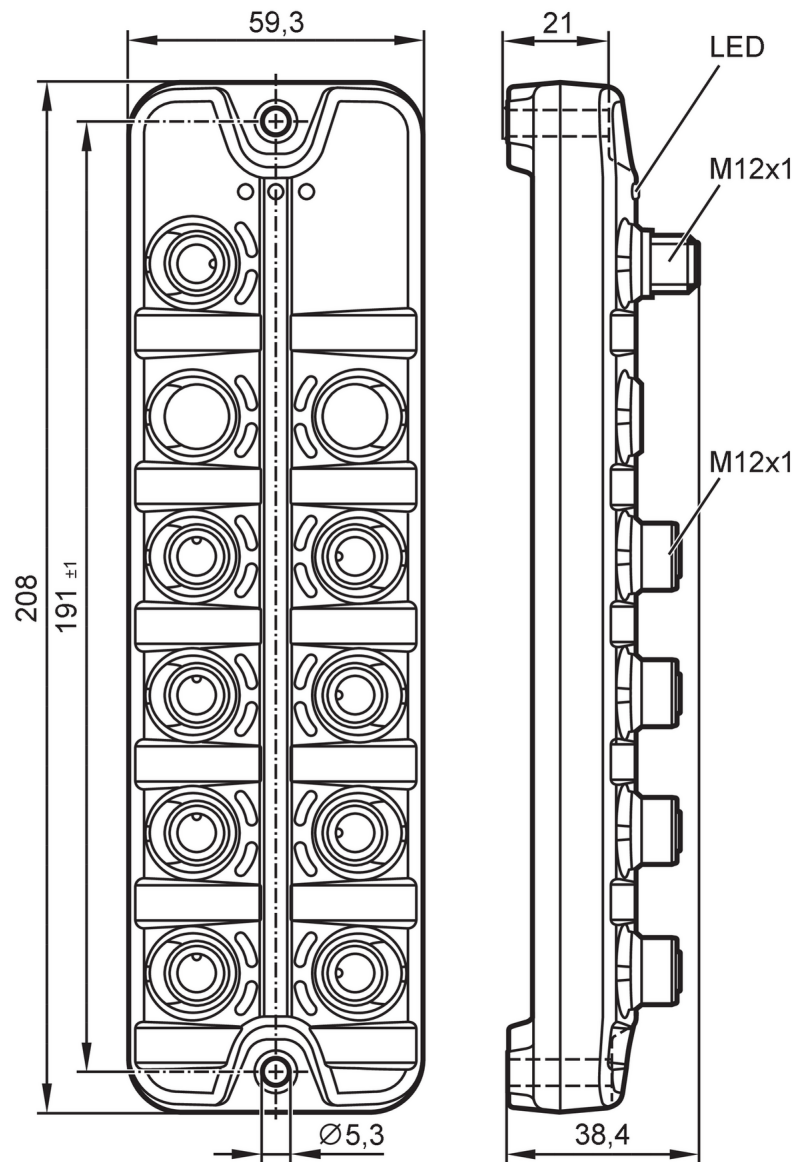


AL2221



IO-Link input/output module

IOL MOD SL 8XD/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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IOL MOD SL 8XDX/DX A M12 IP69K

|                      |      |         |
|----------------------|------|---------|
| 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        | <b>Type of operation</b><br>default                                 | <b>DeviceID</b><br>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                      |
| Pollution degree             |                                                                                | 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 |

# AL2221



## IO-Link input/output module

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

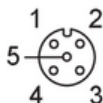
Connector: 1 x M12; coding: A; Contacts: 4



| 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; Contacts: 4; sealing: EPDM



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