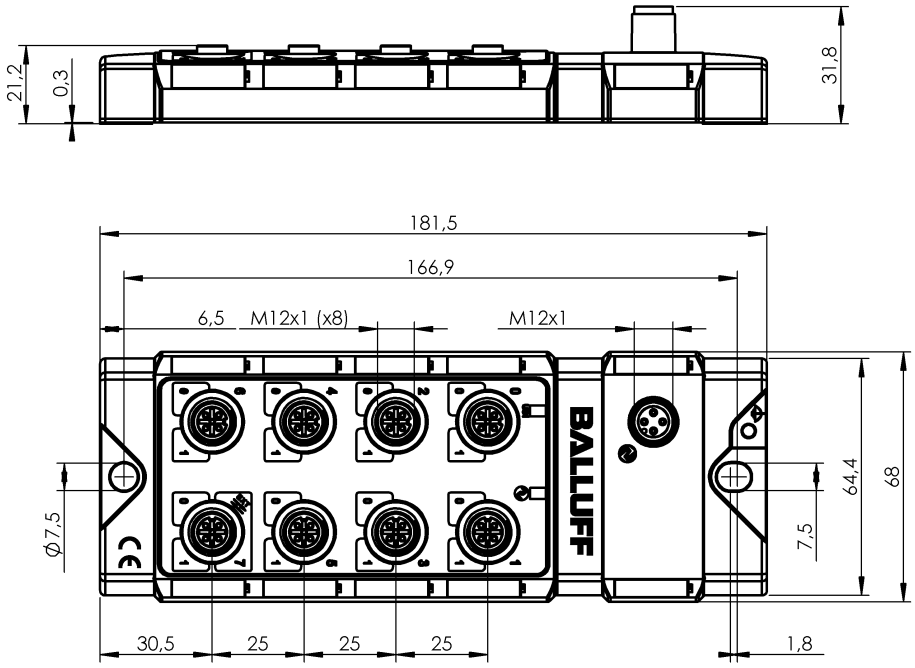
I/O modules

# BNI IOL-104-S02-Z012
Order Code: BNI00CR




## Basic features

| | |
|---|---|
| **Approval/Conformity** | CE<br>UKCA<br>cULus<br>WEEE |
| **Scope of delivery** | Part label (20x)<br>Port cover M12 (4x)<br>Grounding strap<br>Lock washer<br>Short guide<br>M4x6 screw |
| **Style** | Two-row |

## Display/Operation

| | |
|---|---|
| **Actuator supply UA, indicator** | LED green |
| **IO-Link communication indicator** | LED green |
| **Module supply indicator** | LED green |
| **Sensor supply US indicator** | LED green |
| **Switching function display** | LED yellow |

## Electrical connection

| | |
|---|---|
| **Connection (COM 1)** | M12x1-Male, 4-pin, A-coded |
| **Connection slots** | 8x M12x1-Female, 5-pin, A-coded |
| **Contact, surface protection** | nickel plated 2 µm/gold plated 0.4 µm |

## Electrical data

| | |
|---|---|
| **Configurable inputs/outputs** | no |
| **Current consumption without load, max.** | 50 mA |
| **Current sum UA, actuator** | 4 A |
| **Current sum US, sensor** | 4 A |
| **IO-Link function** | Device |
| **IO-Link ports, number** | 1 |
| **Operating voltage Ub** | 18...30.2 VDC |
| **Rated operating voltage Ue DC** | 24 V |

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## Environmental conditions

| | |
|---|---|
| **Ambient temperature** | -25...55 °C |
| **EN 60068-2-27, Shock** | 100 g, 6 ms |
| **EN 60068-2-6, Vibration** | 5…61 Hz, constant amplitude 1 mm<br>61…500 Hz, constant acceleration 15 g |
| **IP rating** | IP67, when threaded in |
| **Storage temperature** | -25...70 °C |

## Functional safety

| | |
|---|---|
| **MTTF (40 °C)** | 46.7 a |

## IO-Link

| | |
|---|---|
| **IO-Link Profil IDs** | N/A |

## Interface

| | |
|---|---|
| **Cycle time min.** | 4.4 ms |
| **Digital inputs** | 16x PNP, Type 3 |
| **Extension port** | yes |
| **IO-Link version** | 1.1 |
| **Interface** | IO-Link 1.1 |
| **Process data IN** | 4 bytes |
| **Process data cycle min.** | 4.4 ms |
| **Single-channel monitoring** | yes |
| **Transfer rate** | COM2 (38.4 kBaud) |

## Material

| | |
|---|---|
| **Gasket, material** | FKM 75 |
| **Housing material** | Die-cast zinc, nickel-plated |
| **Housing shield** | yes |
| **Surface protection** | Cu 15 µm<br>Ni 15 µm |

## Mechanical data

| | |
|---|---|
| **Dimension** | 68 x 31.8 x 181.5 mm |
| **Mounting ground strap** | M4 internal thread |
| **Mounting part** | 2-hole screw mount |
| **Weight** | 608 g |

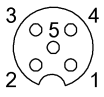
## Remarks

See short guide

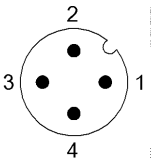
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## Connector Drawings




Input Ports
PIN 1: +24V, 100mA
PIN 2: Input 2
PIN 3: GND
PIN 4: Input 1
PIN 5: Function ground




IO-Link
PIN 1: +24V
PIN 2: not used
PIN 3: GND
PIN 4: C/Q, IO-Link DC-Channel