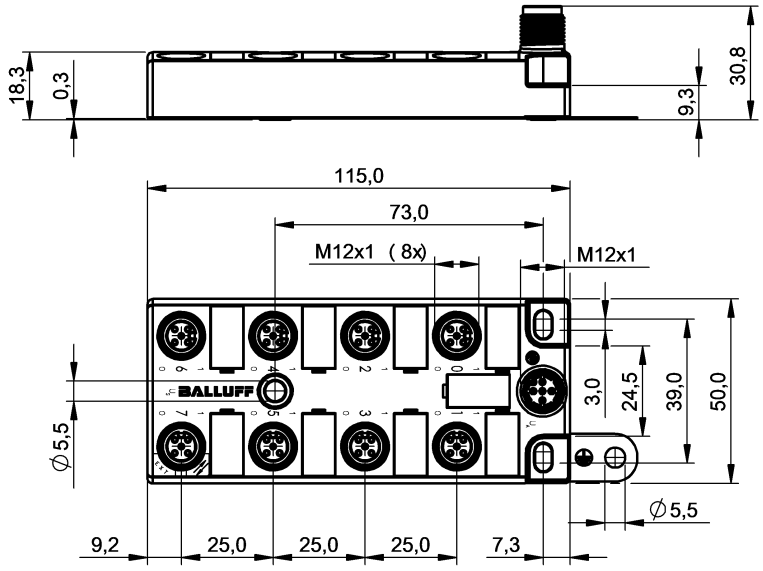
I/O modules

# BNI IOL-302-002-K006-C11

Order Code: BNI00M9




## Basic features

| | |
|---|---|
| Approval/Conformity | CE<br>UKCA<br>WEEE<br>cULus |
| Scope of delivery | Part label (12x)<br>Port cover M12 (4x)<br>Short guide |
| 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 | CuSnZn3 |

## Electrical data

| | |
|---|---|
| Configurable inputs/outputs | yes |
| Current consumption without load, max. | 65 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 |
| Switching current | 16x 350 mA |

## Environmental conditions

| | |
|---|---|
| Ambient temperature | -20...70 °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) | 58.5 a |

## IO-Link

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

I/O modules

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## Interface

| | |
|---|---|
| **Cycle time min.** | 3.5 ms |
| **Digital inputs** | 16x PNP, Type 3 |
| **Digital outputs** | 16x PNP |
| **Extension port** | yes |
| **IO-Link version** | 1.1.4 |
| **Interface** | IO-Link 1.1.4 |
| **Process data IN** | 2 bytes |
| **Process data OUT** | 2 bytes |
| **Process data cycle min.** | 3.5 ms |
| **Transfer rate** | COM2 (38.4 kBaud) |

## Material

| | |
|---|---|
| **Gasket, material** | FKM 75 |
| **Housing material** | PA, Transparent, Nickel-plated earthing lug (Sn2..4 µm) |
| **Housing shield** | no |

## Mechanical data

| | |
|---|---|
| **Dimension** | 50 x 30.8 x 115 mm |
| **Mounting ground strap** | M5 screw with spring washer |
| **Mounting part** | 3-hole screw mount |
| **Weight** | 105 g |

## Remarks

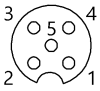
C11: automatically configurable port direction of inputs and outputs. Identical software to basic type part number.

See short guide

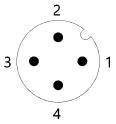
For more information about MTTF and B10d see MTTF / B10d Certificate

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




Digital In-/Output Port
PIN 1: +24V
PIN 2: Input/Output 2
PIN 3: 0V / GND
PIN 4: Input/Output 1
PIN 5: Function ground




IO-Link
PIN 1: +24V, Controller
PIN 2: +24V, Actuators
PIN 3: GND, reference potential
PIN 4: C/Q, IO-Link DC-Channel