

Basic features

| | |
|----------------------------|---|
| Approval/Conformity | CE UKCA cULus WEEE |
| Scope of delivery | Module Part label (21x) Port cover M8 (4x) Grounding strap Lock washer Short guide M4x6 screw |
| Style | Two-row |

Display/Operation

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

Electrical connection

| | |
|------------------------------------|---------------------------------------|
| Connection (COM 1) | M12x1-Male, 4-pin, A-coded |
| Connection slots | 16x M8x1-Female, 3-pin |
| Contact, surface protection | nickel plated 2 µm/gold plated 0.4 µm |

Electrical data

| | |
|---|---------------|
| Configurable inputs/outputs | yes |
| Current consumption without load, max. | 90 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 300 mA |

I/O modules

BNI IOL-302-002-Z046

Order Code: BNI00AU

BALLUFF

Environmental conditions

| | |
|-----------------------------|---|
| Ambient temperature | -5...70 °C |
| Ambient temperature UL max. | 45 °C |
| EN 60068-2-6, Vibration | 5...61 Hz, constant amplitude 1 mm 61...500 Hz, constant acceleration 15 g |
| IP rating | IP67, when threaded in |
| Storage temperature | -25...70 °C |

IO-Link

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

Interface

| | |
|-------------------------|-------------------|
| Cycle time min. | 4.0 ms |
| Digital inputs | 16x PNP, Type 3 |
| Digital outputs | 16x PNP |
| Extension port | yes |
| IO-Link version | 1.1 |
| Interface | IO-Link 1.1 |
| Process data IN | 2 bytes |
| Process data OUT | 2 bytes |
| Process data cycle min. | 4.0 ms |
| Transfer rate | COM2 (38.4 kBaud) |

Remarks

See short guide

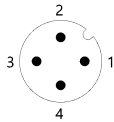
Material

| | |
|--------------------------------------|----------------------------------|
| Gasket, material | FKM 75 |
| Housing material | Zinc, Die casting, nickel-plated |
| Housing material, surface protection | nickel-plated |
| Housing shield | yes |
| Surface protection | Cu 15 µm Ni 15 µm |

Mechanical data

| | |
|-----------------------|--------------------|
| Dimension | 30 x 32.8 x 220 mm |
| Mounting ground strap | M4 internal thread |
| Mounting part | 2-hole screw mount |

Connector Drawings



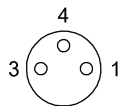
IO-Link

PIN 1: +24V, Controller

PIN 2: +24V, Actuators

PIN 3: GND, reference potential

PIN 4: C/Q, IO-Link DC-Channel



I/O ports

PIN 1: +24V, 0.2A

PIN 3: 0V

PIN 4: In-/Output