

## Basic features

<b>Approval/Conformity</b>	CE UKCA WEEE cULus
<b>Scope of delivery</b>	Part label (12x) Port cover M12 (4x) Short guide
<b>Style</b>	Two-row

## Display/Operation

<b>Actuator supply UA, indicator</b>	Green LED
<b>IO-Link communication indicator</b>	Green LED
<b>Module supply indicator</b>	Green LED
<b>Sensor supply US indicator</b>	Green LED
<b>Switching function display</b>	LED yellow

## Electrical connection

<b>Connection (COM 1)</b>	M12x1-Male, 4-pin, A-coded
<b>Connection slots</b>	8x M12x1-Female, 5-pin, A-coded

## Electrical data

<b>Configurable inputs/outputs</b>	yes
<b>Current consumption without load, max.</b>	65 mA
<b>Current sum UA, actuator</b>	4 A
<b>Current sum US, sensor</b>	4 A
<b>IO-Link function</b>	Device
<b>IO-Link ports, number</b>	1
<b>Operating voltage Ub</b>	18...30.2 VDC
<b>Rated operating voltage Ue DC</b>	24 V
<b>Switching current</b>	16x 200 mA

## Environmental conditions

<b>Ambient temperature</b>	-5...55 °C
<b>IP rating</b>	IP67, when threaded in
<b>Storage temperature</b>	-25...70 °C

## IO-Link

<b>IO-Link Profil IDs</b>	N/A
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I/O modules  
**BNI IOL-311-S02-K006-C01**  
**Order Code: BNI00AW**



**Interface**

<b>Additional function</b>	Identification 2 bytes
<b>Cycle time min.</b>	6.0 ms
<b>Digital inputs</b>	16x NPN, Type 3
<b>Digital outputs</b>	16x NPN
<b>Extension port</b>	yes
<b>IO-Link version</b>	1.1
<b>Interface</b>	IO-Link 1.1
<b>Process data IN</b>	10 bytes
<b>Process data OUT</b>	2 bytes
<b>Process data cycle min.</b>	6.0 ms
<b>Single-channel monitoring</b>	yes

**Transfer rate**

COM2 (38.4 kBaud)

**Material**

<b>Gasket, material</b>	FKM 75
<b>Housing material</b>	PA, Transparent
<b>Housing shield</b>	no

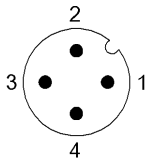
**Mechanical data**

<b>Dimension</b>	50 x 30.8 x 115 mm
<b>Mounting ground strap</b>	M5 screw with spring washer
<b>Mounting part</b>	3-hole screw mount

**Remarks**

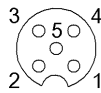
See short guide

**Connector Drawings**



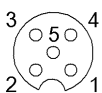
**IO-Link**

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



**Digital In-/Output Port**

- PIN 1: +24V
- PIN 2: Digital IO NPN
- PIN 3: GND, reference potential
- PIN 4: Digital IO NPN
- PIN 5: Function ground



**Extension port**

- PIN 1: +24V
- PIN 2: Digital IO NPN/+24V, AUX
- PIN 3: GND, reference potential
- PIN 4: Digital IO NPN/IO-Link
- PIN 5: Function ground