

Basic features

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

Display/Operation

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	8x M12x1-Female, 5-pin, A-coded
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm

Electrical data

Burst	4A
Configurable inputs/outputs	no
Current consumption without load, max.	90 mA
ESD	3A
IO-Link function	Device
IO-Link ports, number	1
Operating voltage U_b	18...30.2 VDC
Rated operating voltage U_e DC	24 V

I/O modules
BNI IOL-104-S01-Z012-C02
Order Code: BNI005P



Environmental conditions

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

Material

Gasket, material	FKM 75
Housing material	Zinc, Die casting
Housing shield	yes
Surface protection	Cu 15 µm Ni 15 µm

Mechanical data

Dimension	68 x 31.8 x 181.5 mm
Mounting	2-hole screw mount
Mounting ground strap	M4 internal thread

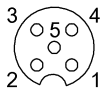
Output/Interface

Additional function	Identification 4 bytes
Cycle time min.	3.0 ms
Digital inputs	16x PNP, Type 2
IO-Link version	1
Interface	IO-Link 1.0
Process data IN	8 bytes
Process data cycle min.	24 ms
Single-channel monitoring	yes
Transfer rate	COM2 (38.4 kBaud)

Remarks

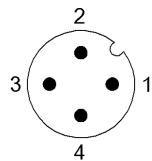
See short guide

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: n.c.
- PIN 3: GND
- PIN 4: C/Q, IO-Link DC-Channel