

Basic features

Approval/Conformity	CE UKCA cULus 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

Configurable inputs/outputs	no
Current consumption without load, max.	90 mA
Current sum US, sensor	4 A
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-C01

Order Code: BNI003T

BALLUFF

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
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C

IO-Link

IO-Link Profil IDs	N/A
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Interface

Additional function	Identification 2 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	6 bytes
Process data cycle min.	18 ms
Single-channel monitoring	yes
Transfer rate	COM2 (38.4 kBaud)

Material

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

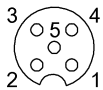
Mechanical data

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

Remarks

See short guide

Connector Drawings



Input Ports

PIN 1: +24V, 100mA

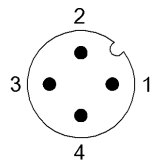
PIN 2: Input 2

PIN 3: GND

PIN 4:

Input 1

PIN 5: Function ground



IO-Link

PIN 1: +24V

PIN 2: not used

PIN 3: GND

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