

Basic features

Approval/Conformity	CE UKCA WEEE cULus
Scope of delivery	Part label (12x) Port cover M12 (4x) Short guide
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	8x M12x1-Female, 5-pin, A-coded

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	-5...55 °C
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C

Functional safety

MTTF (40 °C)	62 a
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IO-Link

IO-Link Profil IDs	N/A
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I/O modules
BNI IOL-302-000-K006-C01
Order Code: BNI005U

BALLUFF

Interface

Additional function	Identification 2 bytes
Cycle time min.	4.0 ms
Digital inputs	16x PNP, Type 3
Digital outputs	16x PNP
IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	4 bytes
Process data OUT	2 bytes
Process data cycle min.	4.0 ms
Transfer rate	COM2 (38.4 kBaud)

Material

Gasket, material	FKM 75
Housing material	PA, Transparent
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

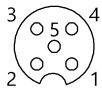
Remarks

See short guide

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

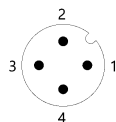
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

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