

Basic features

Approval/Conformity	CE EAC WEEE
Scope of delivery	Short guide

Display/Operation

IO-Link communication indicator	Green LED
Module supply indicator	Green LED

Electrical connection

Connection (COM 1)	M12x1-Male, 4-pin, A-coded
Connection slots	M12x1-Female, 4-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.	30 mA
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

Environmental conditions

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

Functional safety

MTTF (40 °C)	418 a
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Material

Gasket, material	FKM 75
Housing material	PA
Housing shield	no

I/O modules

BNI IOL-712-000-K023

Order Code: BNI0041

BALLUFF

Mechanical data

Dimension 14.2 x 50.4 x 40 mm

Range/Distance

Resolution ≤ 14 bits

Output/Interface

Analog inputs	Analog, current (0...20 mA)
Cycle time min.	3 ms
IO-Link version	1
Interface	IO-Link 1.0
Process data IN	2 bytes
Process data cycle min.	3 ms
Transfer rate	COM2 (38.4 kBaud)

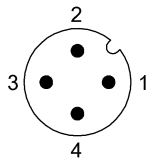
Remarks

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



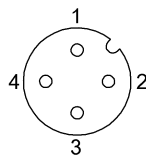
IO-Link

PIN 1: +24V, 1.4A

PIN 2: n.c.

PIN 3: GND, reference potential

PIN 4: C/Q, IO-Link



Analog input port

PIN 1: +24V, 1.5A

PIN 2: Analog input/Current

PIN 3: GND

PIN 4: n.c.