

Basic features

Approval/Conformity	CE UKCA WEEE
Scope of delivery	Part label (12x) Port cover M8 (4x) Short guide
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 M8x1-Female, 3-pin
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm

Electrical data

Configurable inputs/outputs	no
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

Environmental conditions

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

Functional safety

MTTF (40 °C)	115 a
---------------------	-------

IO-Link

IO-Link Profil IDs	N/A
---------------------------	-----

I/O modules
BNI IOL-102-S01-K019
Order Code: BNI001Y

BALLUFF

Interface

Cycle time min.	2.5 ms
Digital inputs	8x PNP, Type 2
IO-Link version	1
Interface	IO-Link 1.0
Process data IN	2 bytes
Process data cycle min.	2.5 ms
Single-channel monitoring	yes
Transfer rate	COM2 (38.4 kBaud)

Material

Gasket, material	FKM 75
Housing material	PBT, GF
Housing shield	no

Mechanical data

Dimension	30 x 24 x 129.5 mm
Mounting part	2-hole screw mount

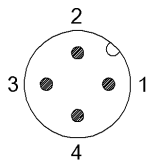
Remarks

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



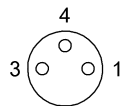
IO-Link

PIN 1: +24V

PIN 2: not used

PIN 3: GND, reference potential

PIN 4: IO-Link



Input Ports

PIN 1: +24V, 0.2A

PIN 3: 0V

PIN 4: Input