

Basic features

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

Display/Operation

Actuator supply UA, indicator	Green LED
Sensor supply US indicator	Green LED
Switching function display	LED yellow

Electrical connection

Connection (COM 1)	M12x1-Male, 5-pin, B-coded
Connection (COM 2)	M12x1-Female, 5-pin, B-coded
Connection (supply voltage IN)	7/8"-Male, 5-pin
Connection slots	4x M12x1-Female, 5-pin, A-coded
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm

Electrical data

Address range	0 - 99
Configurable inputs/outputs	yes
Current sum UA, actuator	9.0 A
Current sum US, sensor	9.0 A
Operating voltage Ub	18...30.2 VDC
Output current max.	2 A
Rated operating voltage Ue DC	24 V
Transfer rate	9.6/12 Mbit/s

Network Blocks
BNI PBS-507-002-Z011
Order Code: BNI004N

BALLUFF

Environmental conditions

Ambient temperature	-5...70 °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

Functional safety

MTTF (40 °C)	43 a
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Interface

Auxiliary interfaces	4x IO-Link
Digital inputs	8x PNP, Type 2
Digital outputs	8x PNP
IO-Link version	1.1
Interface	Profibus DP EN 50170
Port-class	Type A

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.

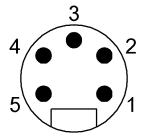
Material

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

Mechanical data

Dimension	37 x 32.4 x 224 mm
Mounting ground strap	M4
Mounting part	2-hole screw mount

Connector Drawings



Power IN

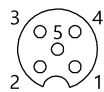
PIN 1: 0V

PIN 2: 0V

PIN 3: Function ground

PIN 4: Sensor and bus supply.

PIN 5: Actuator supply



IO-Link

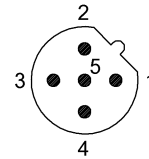
PIN 1: +24V

PIN 2: In-/output/Diagnostics

PIN 3: 0V

PIN 4: IO-Link/In-/Output

PIN 5: n.c.



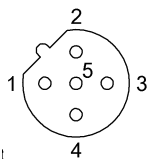
PIN 1: Supply voltage +

PIN 2: A-conductor

PIN 3: DGND

PIN 4: B-conductor

PIN 5: Shield



PIN 1: Supply voltage +

PIN 2: A-conductor

PIN 3: DGND

PIN 4: B-conductor

PIN 5: Shield