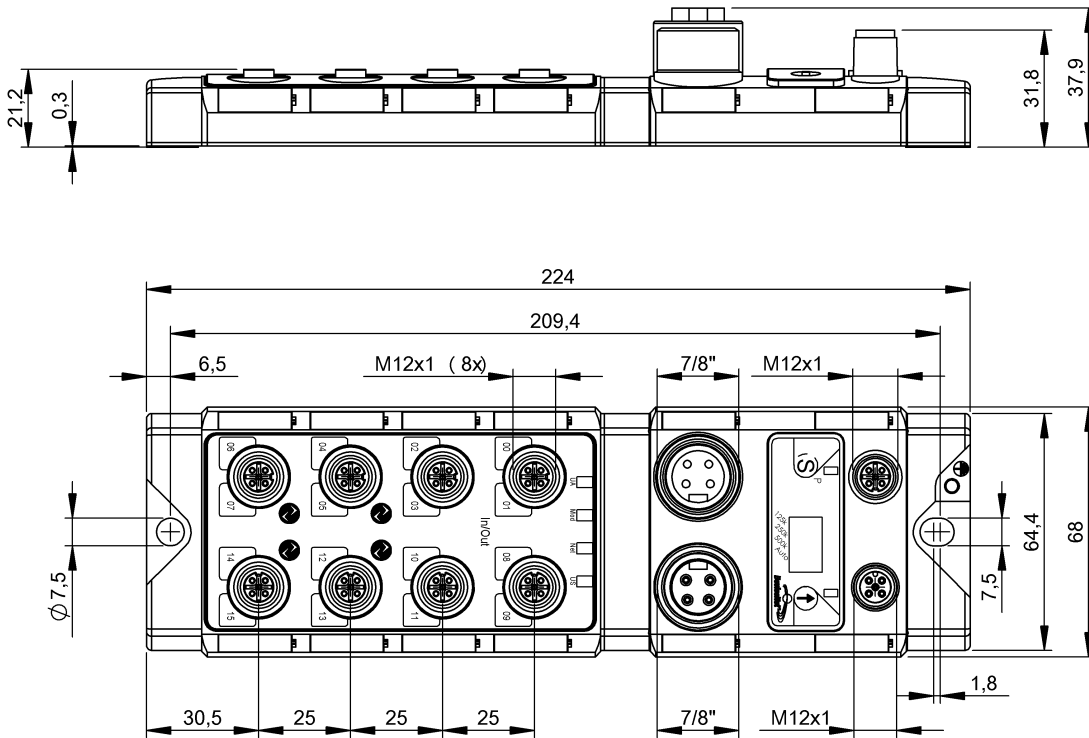


BNI DNT-502-100-Z001 BNI005A



Display/Operation

Actuator supply UA, indicator	LED green
IO-Link communication indicator	LED green
Sensor supply US indicator	LED green
Switching function display	LED yellow

Electrical connection

Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm
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Electrical data

Address range	0 - 63
Configurable inputs/outputs	yes
Current sum UA, actuator	1.6 A
Current sum US, sensor	9.0 A
IO-Link function	Master
IO-Link ports, number	4
MTTF (40 °C)	47 a
Operating voltage Ub	18...30.2 VDC
Output current max.	350 mA
Rated operating voltage Ue DC	24 V
Transfer rate	125...500 kBaud

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
Protection type IEC 60529	IP67 when threaded in
Storage temperature	-25...70 °C

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

General data

Approval/Conformity	CE
Scope of delivery	Part label (20x) Blind plugs M12 (4x) Ground strap Lock washer Short guide M4x6 screw
Style	Two-row

BNI DNT-502-100-Z001 BNI005A

Material

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

Mechanical data

Dimension	68 x 37.9 x 224 mm
Fastening detail	2-hole screw mount
Mounting ground strap	M4

Output/Interface

Auxiliary interfaces	4x IO-Link
Auxiliary interfaces, number	4x IO-Link
Digital inputs	16x PNP, Type 2
Digital outputs	16x PNP
Interface	DeviceNet
IO-Link version	1.1

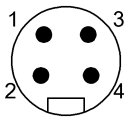
Remarks

Installation instructions See short guide

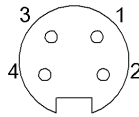
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

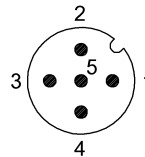
Connector view



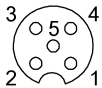
PIN 1: +24V PIN 2: +24V PIN 3: 0V PIN 4: 0V Power IN



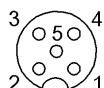
PIN 1: +24V PIN 2: +24V PIN 3: 0V PIN 4: 0V Power Out



Bus in PIN 1: DRAIN PIN 2: 24V CAN PIN 3: GND CAN PIN 4: CAN H PIN 5: CAN L



Bus out PIN 1: DRAIN PIN 2: 24V CAN PIN 3: GND CAN PIN 4: CAN H PIN 5: CAN L



I/O ports PIN 1: +24V, 0.2A PIN 2: In-/output 2A PIN 3: DGND PIN 4: In-/output 2A PIN 5: Function ground



IO-Link PIN 1: +24V, 1.6A PIN 2: In-/output 2A PIN 3: 0V PIN 4: IO-Link/In-/Out 1.6A PIN 5: n.c.