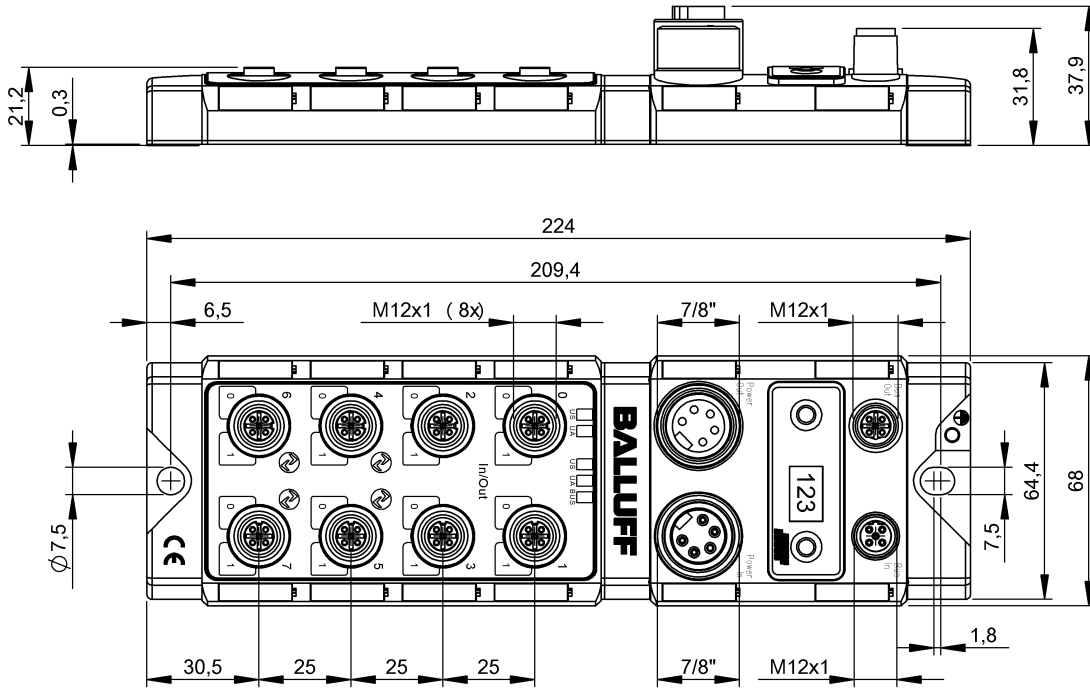


BNI PBS-502-101-Z001
BNI005R



Display/Operation

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

Electrical connection

Connection (COM 1)	Bus out: M12x1-Female, 5-pole, B-coded
Connection (COM 2)	Bus in: M12x1-Connector, 5-pole, B-coded
Connection (supply voltage IN)	7/8"-Connector, 5-pole
Connection (supply voltage OUT)	7/8"-Female, 5-pole
Connection slots	8x M12x1-Female, 5-pole, A-coded
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm

Electrical data

Address range	0 - 126
Configurable inputs/outputs	yes
Current sum UA, actuator	9.0 A
Current sum US, sensor	9.0 A
MTTF (40 °C)	34 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

Environmental conditions

Ambient temperature	-5...70 °C
EN 60068-2-6, Vibration	5...61 Hz, constant amplitude 1 mm 61...500 Hz, constant acceleration 15 g
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 CSA
Scope of delivery	Part label (20x) Blind plugs M12 (4x) Ground strap

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Style	Lock washer Short guide M4x6 screw Two-row
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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

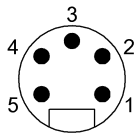
Auxiliary interfaces	4x IO-Link
Auxiliary interfaces, number	4x IO-Link
Digital inputs	16x PNP, Type 2
Digital outputs	16x PNP
Interface	Profibus Profibus DP EN 50170

Remarks

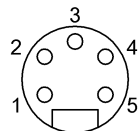
Installation instructions See short guide
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

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

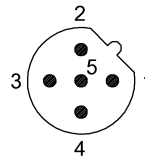
Connector view



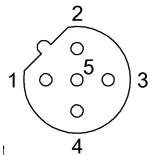
PIN 1: 0V PIN 2: 0V PIN 3: Function ground PIN 4: Sensor and bus supply. PIN 5: Actuator supply Power IN



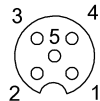
PIN 1: 0V PIN 2: 0V PIN 3: Function ground PIN 4: Sensor and bus supply. PIN 5: Actuator supply Power Out



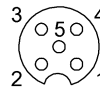
PIN 1: Supply voltage + PIN 2: A-conductor PIN 3: DGND PIN 4: B-conductor PIN 5: Shield



PIN 1: Supply voltage + PIN 2: A-conductor PIN 3: DGND PIN 4: B-conductor PIN 5: Shield



I/O ports PIN 1: +24V, 0.2A PIN 2: In-/output/Diagnostics PIN 3: 0V PIN 4: In-/Output PIN 5: Function ground



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