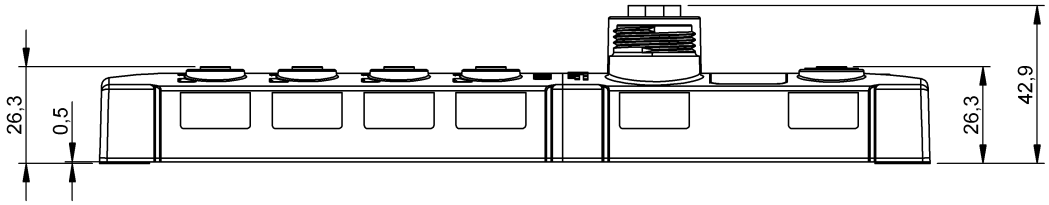
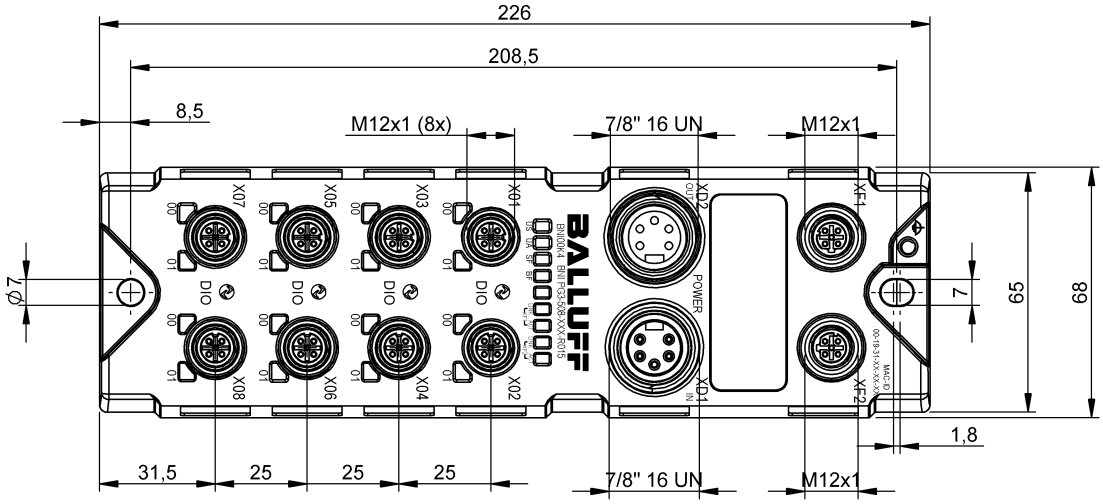
Network Blocks

BNI PG3-508-0C5-R015
Order Code: BNI00K4





Basic features

Approval/Conformity	CE WEEE UKCA cULus KC
Display	no
Safety Hub Support	yes
Scope of delivery	Part label (10x) Port cover M12 (4x) Grounding strap Lock washer Short guide M4x6 screw
Style	Two-row
Supported web browsers	Google Chrome Mozilla Firefox

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

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

Electrical data

Address range	IPV4
Configurable inputs/outputs	yes
Current sum UA, actuator	9.0 A
Current sum US, sensor	9.0 A
IO-Link function	Master
IO-Link ports, number	8
Input current max. at 24 V	130 mA
Operating voltage Ub	18...30.2 VDC
Output current max.	2 A short-circuit proof and overload-proof
Output current max. per port (Class A)	4 A
Rated operating voltage Ue DC	24 V
Transfer rate	10/100 Mbit/s

Environmental conditions

Ambient temperature	-25...70 °C
Ambient temperature UL max.	50 °C
EN 60068-2-27, Continuous shock	100 g, 2 ms
EN 60068-2-27, Shock	100 g, 6 ms
EN 60068-2-6, Vibration	5…61 Hz, constant amplitude 1 mm 61…500 Hz, constant acceleration 15 g
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C
Weld-splatter-resistant	Yes

Functional safety

MTTF (40 °C)	49 a

Interface

Auxiliary interfaces	8x IO-Link
Conformity class	B
Digital inputs	16x PNP, Type 3
Digital outputs	16x PNP
Fast Start-Up (FSU)	yes
IO-Link version	1.1.3
Interface 01	Profinet
Interface 01, protocol version	I/O
Interface IIoT	REST API, MQTT parsed
Netload class	III
Port-class	Type A

Material

Gasket, material	FKM 75
Housing material	Plastic
Housing shield	yes

Mechanical data

Dimension	68 x 42.9 x 226 mm
Mounting ground strap	M4
Mounting part	2-hole screw mount
Weight	683 g

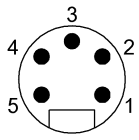
Remarks

See short guide

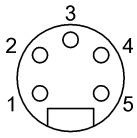
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

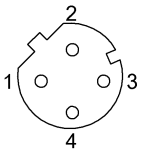
Connector Drawings



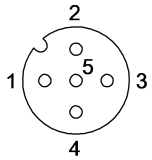
Power IN
PIN 1: 0V
PIN 2: 0V
PIN 3: Function ground
PIN 4: Sensor and bus supply.
PIN 5: Actuator supply



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



Profinet Port
PIN 1: TD+
PIN 2: RD+
PIN 3: TD-
PIN 4: RD-



IO -Link Class A
PIN 1: L+ (US+)
PIN 2: I/Q (DI/DO)
PIN 3: L- (US-)
PIN 4: C/Q (SIO/IO-Link)
PIN 5: n.c.