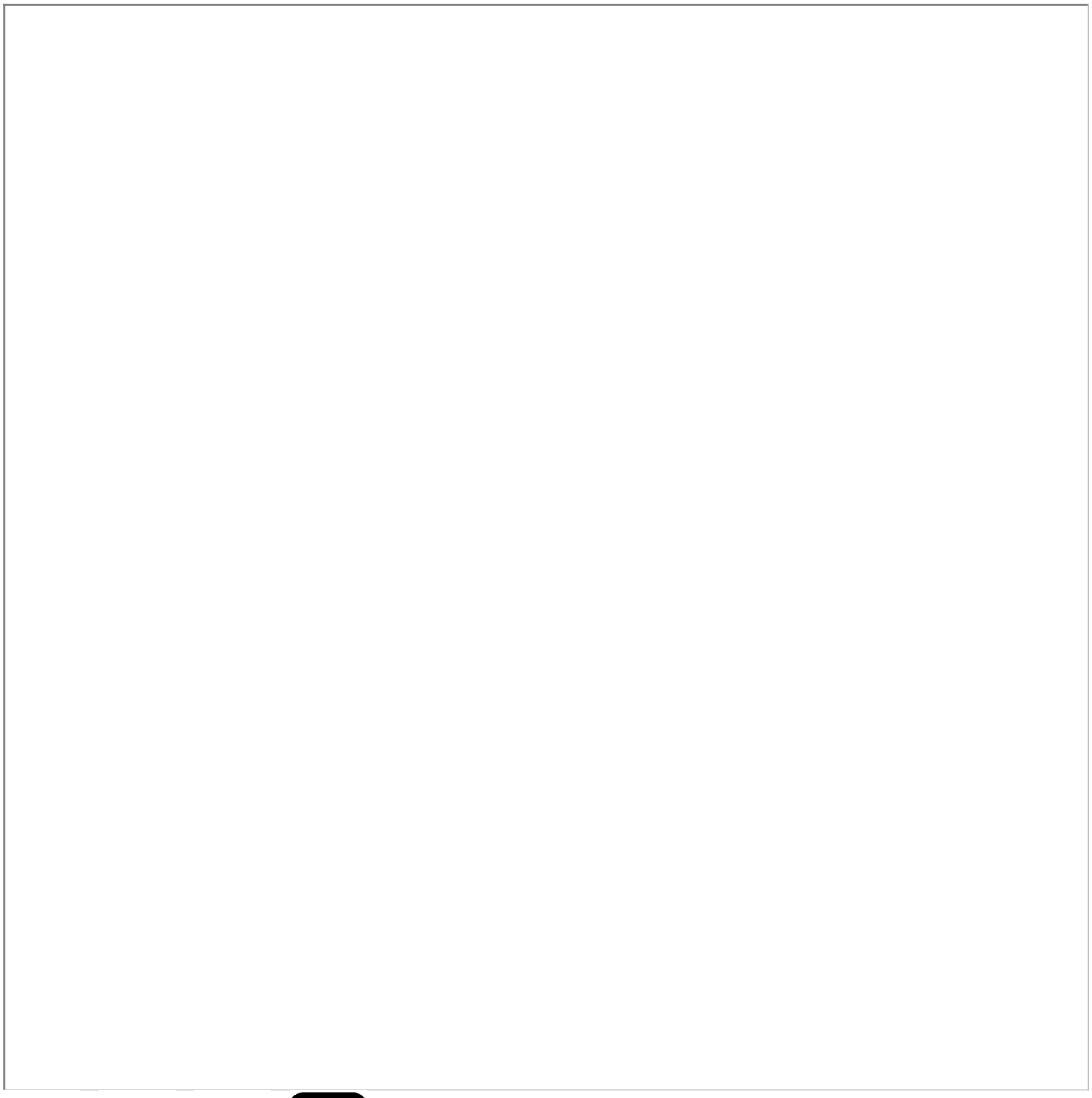
Network Blocks

BNI PNT-538-005-Z063
Order Code: BNI00FY



Basic features

Approval/Conformity	CE UKCA WEEE cULus
Display	no
Safety Hub Support	yes

Scope of delivery	Short guide Part label (20x) Port cover M12 (4x) Grounding strap Lock washer M4x6 screw
Supported web browsers	Google Chrome Mozilla Firefox

Network Blocks

BNI PNT-538-005-Z063
Order Code: BNI00FY

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)	M12x1-Male, 4-pin, T-coded
Connection (supply voltage OUT)	M12x1-Female, 4-pin, T-coded
Connection slots	8x M12x1-Female, 5-pin, A-coded
Contact, surface protection	NiAu

Electrical data

Address range	IPV4
Configurable inputs/outputs	yes
Current sum UA, actuator	12.0 A
Current sum US, sensor	12.0 A
IO-Link function	Master
Operating voltage Ub	18...30.2 VDC
Output current max.	2 A short-circuit proof and overload-proof
Output current max. per port (Class B)	3.5 A
Rated operating voltage Ue DC	24 V
Transfer rate	10/100 Mbit/s

Environmental conditions

Ambient temperature	-5...70 °C
Ambient temperature UL max.	45 °C
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

Functional safety

MTTF (40 °C)	35 a

Interface

Auxiliary interfaces	8x IO-Link
Conformity class	B
Digital inputs	12x PNP, Type 3
Digital outputs	12x PNP
Fast Start-Up (FSU)	yes
IO-Link version	1.1
Interface 01	Profinet
Interface 01, protocol version	I/O
Netload class	III
Port-class	Type A (4x) + Type B (4x)

Material

Gasket, material	FKM 75
Housing material	Die-cast zinc, nickel-plated
Housing shield	yes
Surface protection	Cu 15 µm Ni 15 µm

Mechanical data

Dimension	68 x 31.7 x 224 mm
Mounting ground strap	M4
Mounting part	2-hole screw mount
Weight	750 g

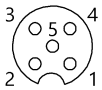
Remarks

See short guide

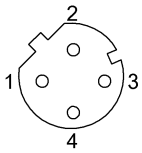
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

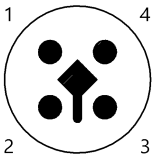
Connector Drawings



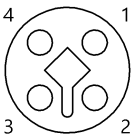
IO-Link
PIN 1: +24V
PIN 2: In-/output/Diagnostics
PIN 3: 0V
PIN 4: IO-Link/In-/Output
PIN 5: n.c.



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



Power IN
PIN 1: +24V, US
PIN 2: N24
PIN 3: GND
PIN 4: P24



Power OUT
PIN 1: +24V, US
PIN 2: N24
PIN 3: GND
PIN 4: P24



IO -Link Class B
PIN 1: +24V
PIN 2: P24
PIN 3: 0V
PIN 4: IO-Link/In-/Output
PIN 5: N24