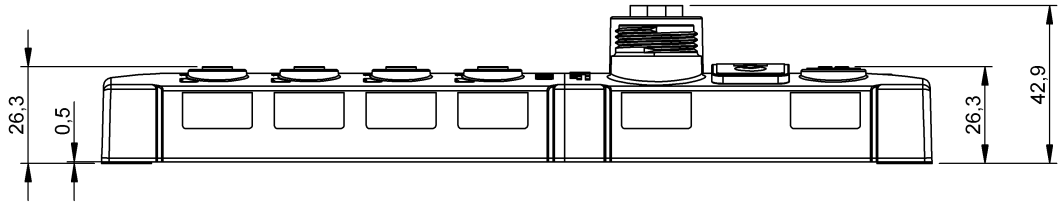
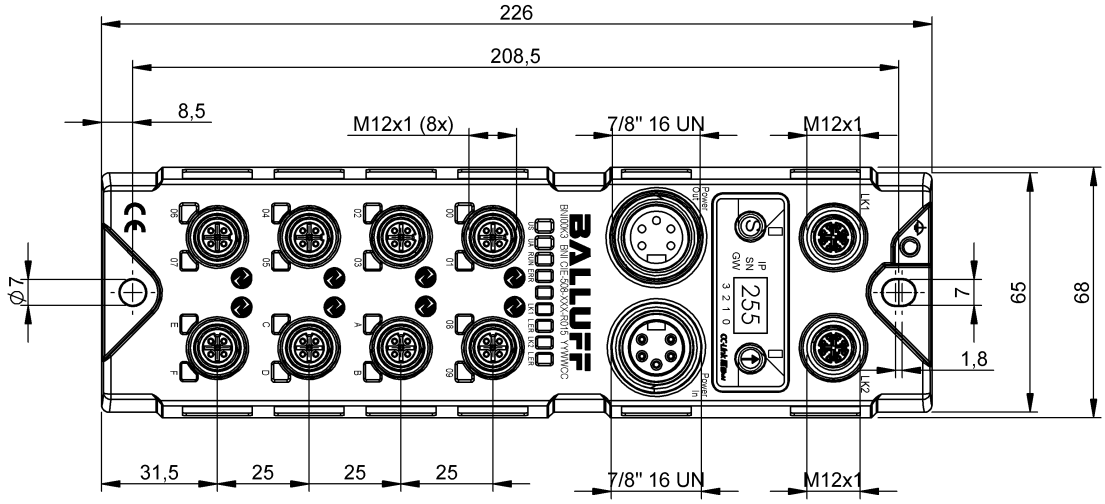
Network Blocks

BNI CIE-508-105-R015
Order Code: BNI00K3





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	Two-row

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, 8-pin, X-coded
Connection (COM 2)	M12x1-Female, 8-pin, X-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	0 - 120
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
Operating voltage Ub	18...30.2 VDC
Output current max.	2 A
Rated operating voltage Ue DC	24 V

Environmental conditions

Ambient temperature	-5...70 °C
Ambient temperature UL max.	50 °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)	36 a

Interface

Auxiliary interfaces	8x IO-Link
Digital inputs	16x PNP, Type 3
Digital outputs	16x PNP
IO-Link version	1.1
Interface 01	CC-Link IE Field
Interface 01, protocol version	V0
Port-class	Type A

Material

Gasket, material	FKM 75
Housing material	PPS, black
Housing shield	yes

Mechanical data

Dimension	68 x 42.9 x 226 mm
Mounting ground strap	M4
Mounting part	2-hole screw mount
Weight	670 g

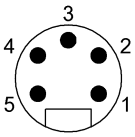
Remarks

See short guide

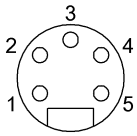
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

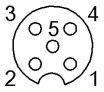
Connector Drawings



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



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



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.



Bus In/Out
PIN 1: D1+
PIN 2: D1-
PIN 3: D2+
PIN 4: D2-
PIN 5: D4+
PIN 6: D4-
PIN 7: D3-
PIN 8: D3+