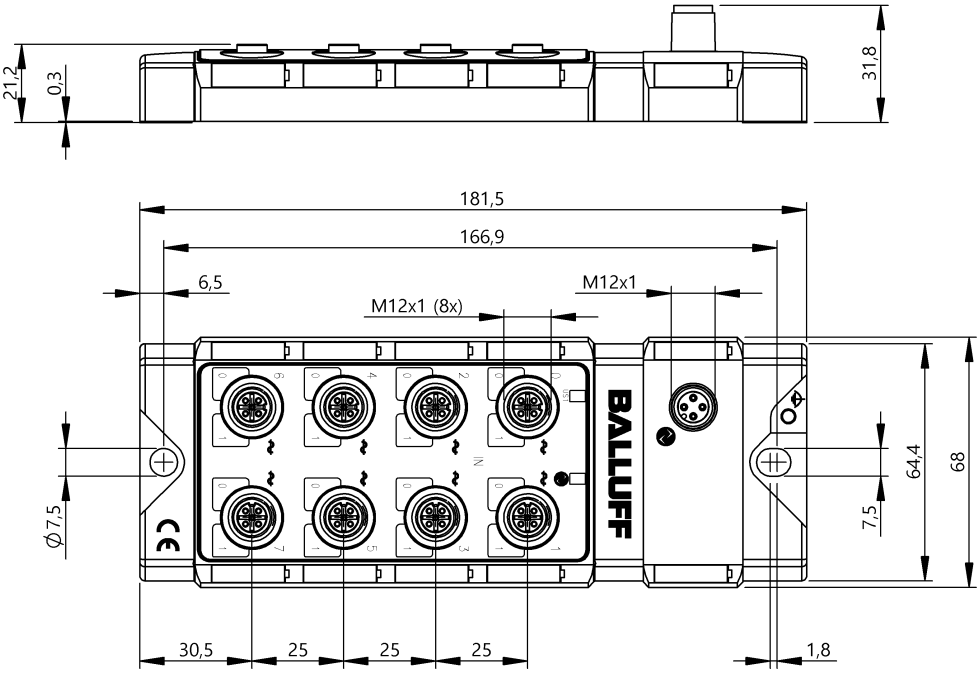
I/O modules

BNI IOL-719-002-Z012
Order Code: BNI00AJ



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Scope of delivery	Part label (20x) Port cover M12 (4x) Grounding strap Lock washer Short guide M4x6 screw
Style	Two-row

Display/Operation

IO-Link communication indicator	LED green
Module supply indicator	LED green
Switching function display	LED yellow

Electrical connection

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

Electrical data

Configurable inputs/outputs	no
Current consumption without load, max.	80 mA
Current sum UA, actuator	4 A
Current sum US, sensor	4 A
IO-Link function	Device
IO-Link ports, number	1
Operating voltage Ub	18...30.2 VDC
Rated operating voltage Ue DC	24 V

Environmental conditions

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

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Functional safety

MTTF (40 °C)	31 a

IO-Link

IO-Link Profil IDs	N/A

Interface

Analog inputs	8x Analog, voltage/analog, current/analog, temperature (0…10 V/-10…10 V/0…5 V/-5…5 V/5…10 V/4…20 mA/0…20 mA/Pt100/Pt1000/Thermocouple Type J/Thermocouple Type K)
Cycle time min.	55 ms
IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	22 bytes
Process data OUT	1 byte
Process data cycle min.	55 ms
Transfer rate	COM2 (38.4 kBaud)

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 31.8 x 181.5 mm
Mounting ground strap	M4 internal thread
Mounting part	2-hole screw mount
Weight	613 g

Range/Distance

Resolution	≤ 16 Bit Adjustable

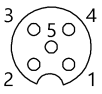
Remarks

See short guide

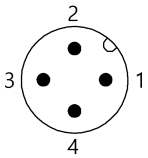
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Analog input port
PIN 1: +24V, 150mA
PIN 2: Input 2
PIN 3: GND
PIN 4: Input 1
PIN 5: n.c.



IO-Link
PIN 1: +24V
PIN 2: n.c.
PIN 3: GND
PIN 4: C/Q, IO-Link DC-Channel