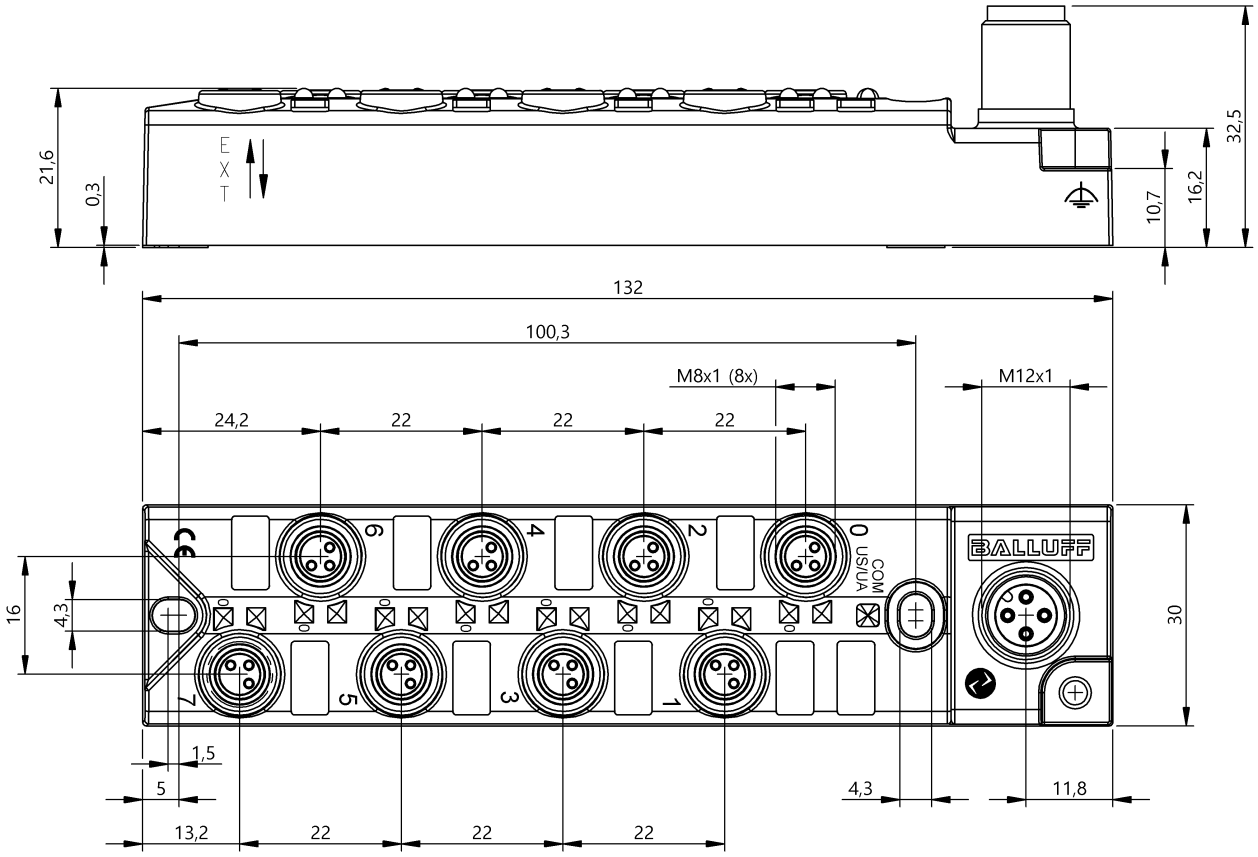
I/O modules

BNI IOL-309-002-Z019
Order Code: BNI0093



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Scope of delivery	Module Port cover M8 (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
Module supply indicator	LED green
Sensor supply US indicator	LED green
Switching function display	LED yellow

Electrical connection

Connection (COM 1)	M12x1-Male, 4-pin, A-coded
Connection slots	8x M8x1-Female, 3-pin
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm

Electrical data

Configurable inputs/outputs	yes
Current consumption without load, max.	90 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
Switching current	8x 300 mA

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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)	66.1 a

IO-Link

IO-Link Profil IDs	N/A

Interface

Cycle time min.	3.5 ms
Digital inputs	8x PNP, Type 3
Digital outputs	8x PNP
Extension port	yes
IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	1 byte
Process data OUT	1 byte
Process data cycle min.	3.5 ms
Transfer rate	COM2 (38.4 kBaud)

Material

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

Mechanical data

Dimension	30 x 32.8 x 132 mm
Mounting ground strap	M4 internal thread
Mounting part	2-hole screw mount
Weight	268 g

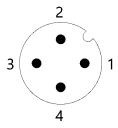
Remarks

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



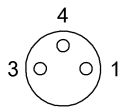
IO-Link

PIN 1: +24V, Controller

PIN 2: +24V, Actuators

PIN 3: GND, reference potential

PIN 4: C/Q, IO-Link DC-Channel



I/O ports

PIN 1: +24V, 0.2A

PIN 3: 0V

PIN 4: In-/Output