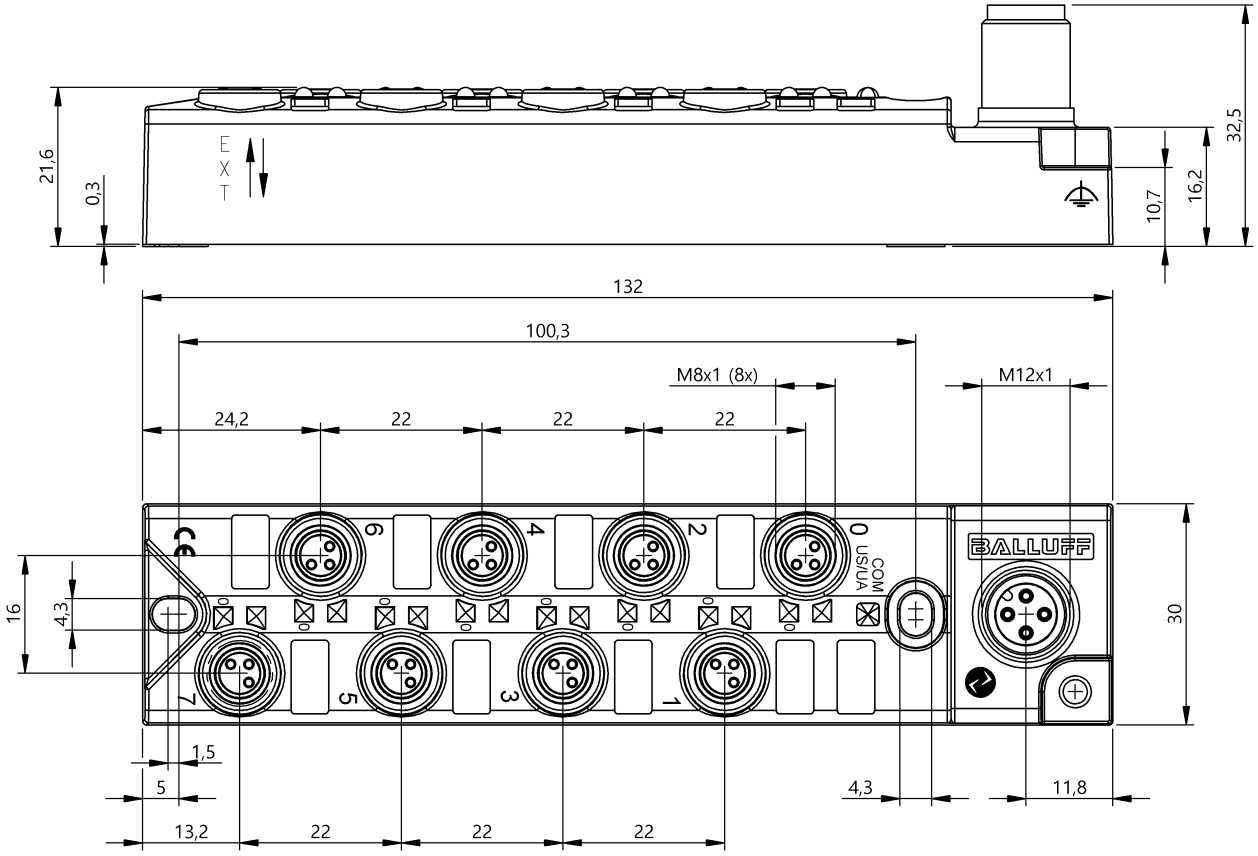
I/O modules

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



Basic features

Approval/Conformity	CE cULus EAC 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	Green LED
IO-Link communication indicator	Green LED
Module supply indicator	Green LED
Sensor supply US indicator	Green LED
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

Material

Gasket, material	FKM 75
Housing material	Zinc, Die casting, 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

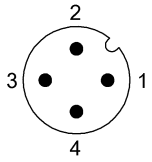
Output/Interface

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)

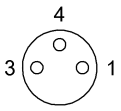
Remarks

See short guide

Connector Drawings



IO-Link
PIN 1: +24V, 1.5A Controller
PIN 2: +24V, 1.6A 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