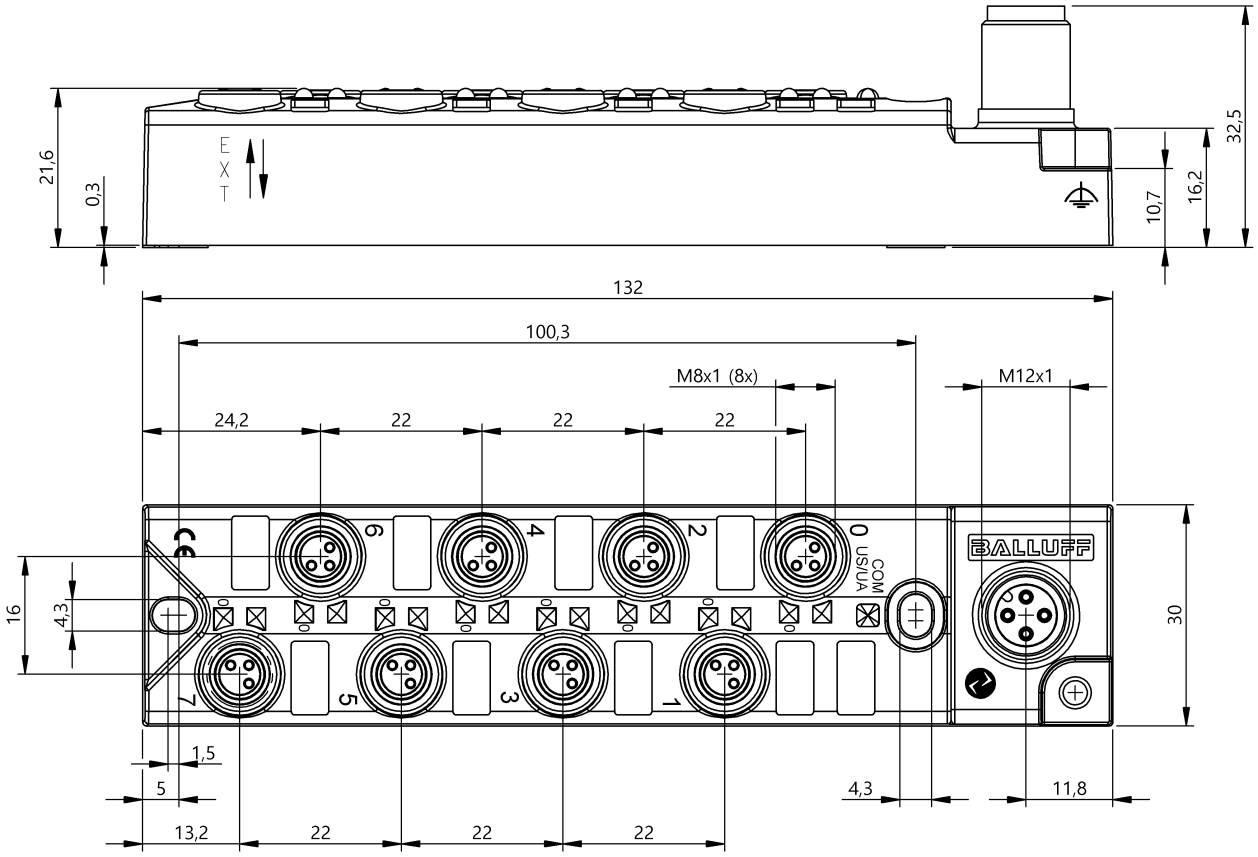
I/O modules

BNI IOL-102-002-Z019
Order Code: BNI0099



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

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	no
Current consumption without load, max.	90 mA
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

BNI IOL-102-002-Z019
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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)	107.6 a

IO-Link

IO-Link Profil IDs	N/A

Interface

Cycle time min.	3.2 ms
Digital inputs	8x PNP, Type 3
Extension port	yes
IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	1 byte
Process data cycle min.	3.2 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	30 x 32.8 x 132 mm
Mounting ground strap	M4 internal thread
Mounting part	2-hole screw mount
Weight	270 g

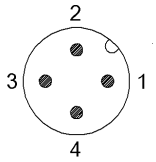
Remarks

See short guide

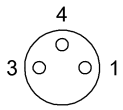
For more information about MTTF and B10d see MTTF / B10d Certificate

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: not used
PIN 3: GND, reference potential
PIN 4: IO-Link



Input Ports
PIN 1: +24V, 0.2A
PIN 3: 0V
PIN 4: Input