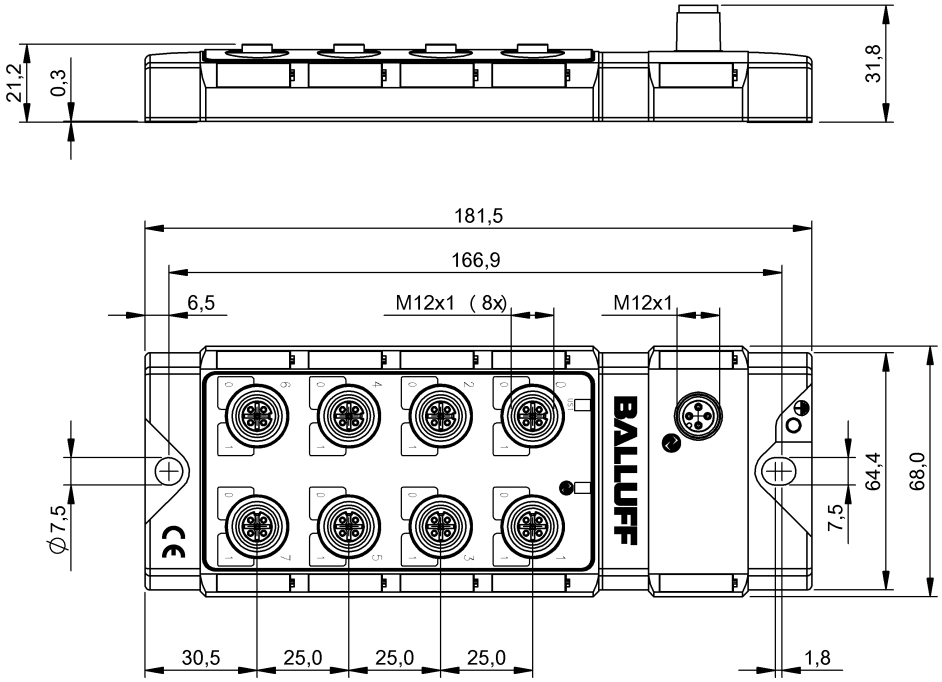
I/O modules

BNI IOL-104-S01-Z012-C01
Order Code: BNI003T



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
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 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.	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

I/O modules

BNI IOL-104-S01-Z012-C01
Order Code: BNI003T

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	61…500 Hz, constant acceleration 15 g 5…61 Hz, constant amplitude 1 mm
IP rating	IP67, when threaded in
Storage temperature	-25...70 °C

IO-Link

IO-Link Profil IDs	N/A

Interface

Additional function	Identification 2 bytes
Cycle time min.	3.0 ms
Digital inputs	16x PNP, Type 2
IO-Link version	1
Interface	IO-Link 1.0
Process data IN	6 bytes
Process data cycle min.	18 ms
Single-channel monitoring	yes
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

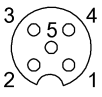
Mechanical data

Dimension	68 x 31.8 x 181.5 mm
Mounting ground strap	M4 internal thread
Mounting part	2-hole screw mount
Weight	695 g

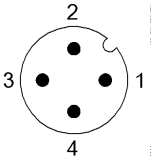
Remarks

See short guide

Connector Drawings



Input Ports
PIN 1: +24V, 100mA
PIN 2: Input 2
PIN 3: GND
PIN 4: Input 1
PIN 5: Function ground



IO-Link
PIN 1: +24V
PIN 2: not used
PIN 3: GND
PIN 4: C/Q, IO-Link DC-Channel