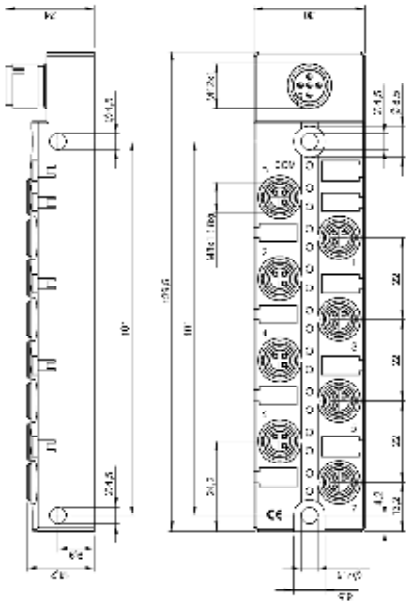
Balluff Network Interface / IO-Link Sensor hub M8 BNI IOL-104..K021

	BNI IOL-104-000-K021	BNI IOL-104-S01-K021
Housing material	Plastic	
IO-Link port	M12, A coded, male	
I ports	M8, female, 3-pole	
Enclosure rating per IEC 60529	IP 67 (only when plugged and threaded in)	
Dimensions (W x H x D in mm)		30 x 128 x 16
Weight	96,6 gr.	



Operating voltage	18...30.2 V DC, per EN 61131-2
Ripple	< 1%
Current draw without load	<= 40 mA

Operating temperature	-5 °C ... 55 °C
Storage temperature	-25 C ... 70 °C
EMC EN 61000-4-2/3/4/5/6	- Severity level 4A/3A/4B/2A/3A
Vibration / Shock	EN 60068-2-6, EN 60068-2-27 EN 60068-2-29, EN 60068-2-64

Data transmission rate	COM2 (38,4 kBaud)
Frame type	1
Minimal cycle time	2.5 ms
Process data cycle time	10 ms, at minimal cycle time
Process data length	3 Bytes

Sensor-Interface Standard input port (M8, female)

Pin	Requirement
1	+24V, 100mA
2	Input
3	0 V, GND
4	Input

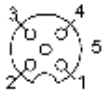
Module versions

Sensor hub version	Digital I port
BNI IOL-104-000-K021	16
BNI IOL-104-S01-K021	16 with single channel monitoring

Mechanical Connection The Modul BNI IOL …modules are attached using 2 M4 screws.

Electrical Connection The Sensor hub modules require no separate supply voltage connection. Power is provided through the IO-Link interface by the host IO-Link Master.

IO-Link interface IO-Link (M12, A coded, male)



Pin	
1	Power supply controller, +24V, max 1.1A
2	-
3	GND
4	C/Q, IO-Link Data transmission channel
5	FE, Function earth

Connecting the Sensor Hub
- Ø Connection protection ground to FE terminal, if present.
- Ø Connect the incoming IO-Link line to the Sensor Hub.

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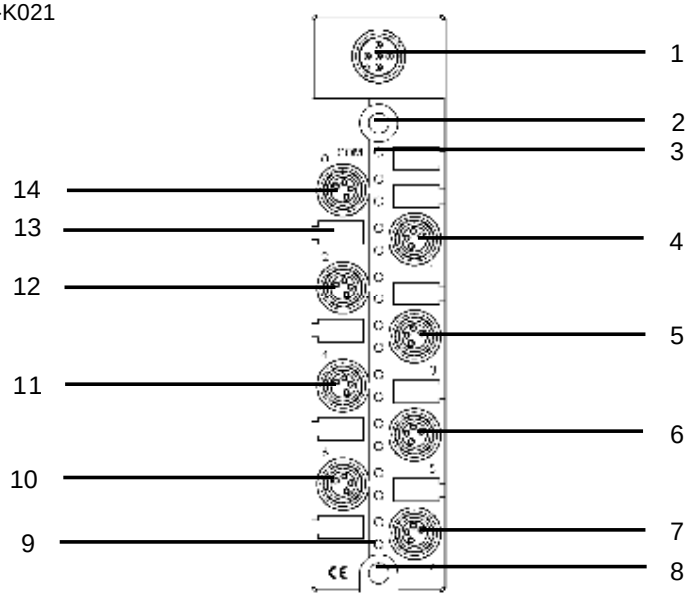
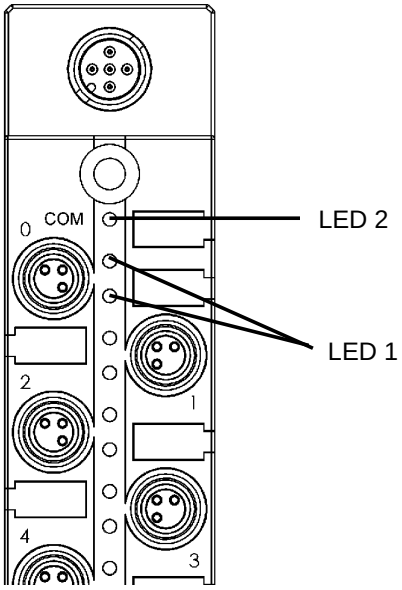
Connection Overview 8 Port Module

Figure: 3-1: BNI IOL-104-000-K021 / BNI IOL-104-S01-K021

1 IO-Link interface
2 Mounting hole
3 Status LED: Communication / module
4 Standard input port 1
5 Standard input port 3
6 Standard input port 5
7 Standard input port 7
8 Mounting hole
9 Port LED: Standard input port 6, Pin 4
10 Standard input port 6
11 Standard input port 4
12 Standard input port 2
13 Label
14 Standard input port 0



LED 2, Communication / module supply



Indication	Function
Green	No communication, supply ok
Green, slow flashing	Communication ok, supply ok
Green, fast flashing	Communication fault, supply undervoltage / overload
Off	Communication ok, supply undervoltage / overload

Note! For the digital sensor inputs follow the input guideline per EN61131-2, type 2.
Note: A standard 3 wire sensor cable is used for connection to the host IO-Link master.
Note! Unused I/O port socket must be fitted with cover caps to ensure IP67 protection rating

Balluff GmbH
Schurwaldstrasse 9
73765 Neuhausen a.d.F.
Germany
Tel. +49 7158 173-0
Fax +49 7158 5010
balluff@balluff.de

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