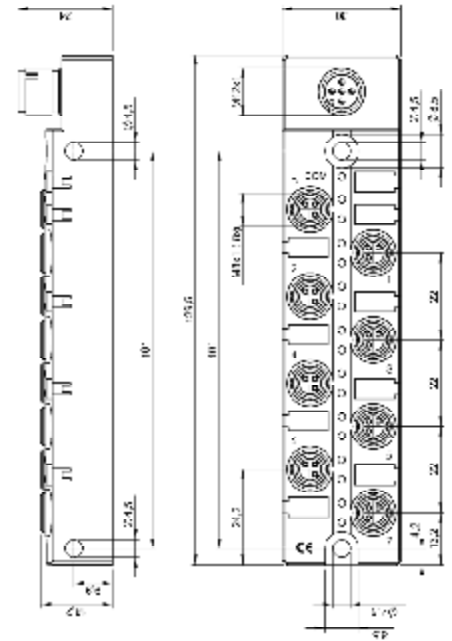


	BNI IOL-104-000-K021	BNI IOL-104-S01-K021
Housing material	Plastic	
IO-Link port	M12, A coded, male	
I ports	M8, female, 3-pole	
Enclosure rating per IEC 60529	IP 67 (only when plugged and threaded in)	
Dimensions (W x H x D in mm)	30 x 128 x 16	
Weight	96,6 gr.	



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

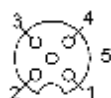
The Modul BNI IOL ...modules are attached using 2 M4 screws.

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

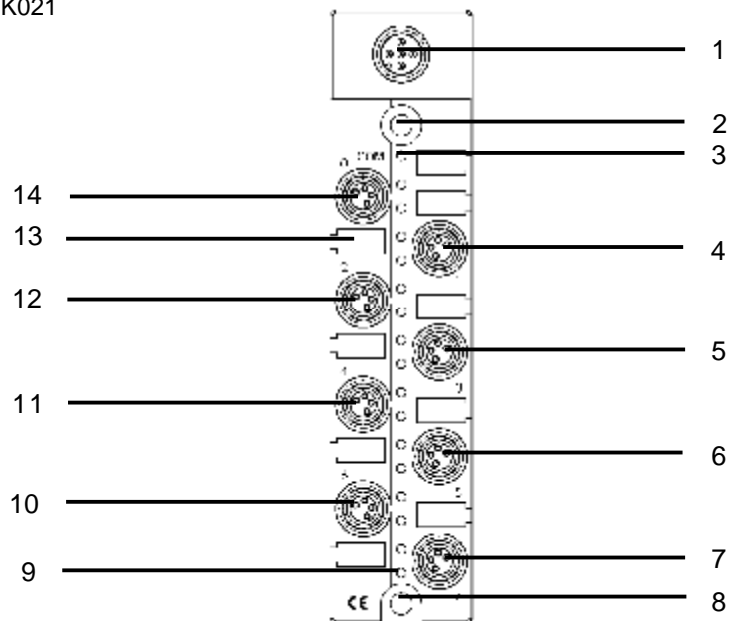
Connecting the Sensor Hub

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

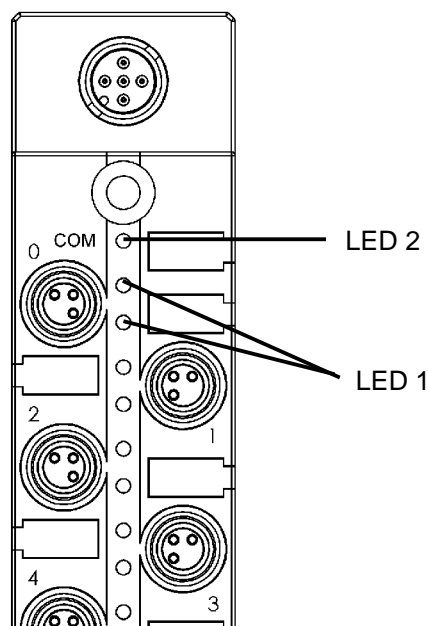
Connection Overview 8 Port Module

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