

### Basic features

<b>Approval/Conformity</b>	CE UKCA ODVA cULus WEEE
<b>Scope of delivery</b>	Part label (20x) Port cover M12 (4x) Grounding strap Lock washer Short guide M4x6 screw
<b>Style</b>	Two-row

### Display/Operation

<b>Active transmission indicator</b>	Green LED
<b>Data rate indicator</b>	LED yellow
<b>Module supply indicator</b>	Green LED
<b>Sensor supply US indicator</b>	yes
<b>Switching function display</b>	yes

### Electrical connection

<b>Cable type (IEE 802.3)</b>	Shielded twisted pair: min. STP CAT5/STP CAT5e
<b>Connection (COM 1)</b>	UPLINK: M12x1-Male, 4-pin, D-coded
<b>Connection slots</b>	8x M12x1-Female, 4-pin, D-coded
<b>Contact, surface protection</b>	nickel plated 2 μm/gold plated 0.4 μm

### Electrical data

<b>Configurable inputs/outputs</b>	no
<b>Current sum US, sensor</b>	9.0 A
<b>Flow control</b>	Half Duplex/Full Duplex (IEEE 802.3x-Pause)
<b>Input current max. at 24 V</b>	130 mA
<b>Operating voltage U<sub>b</sub></b>	18...30.2 VDC
<b>Rated operating voltage U<sub>e</sub> DC</b>	24 V
<b>Transfer rate</b>	10/100 Mbit/s

Network Switches  
**BNI EIP-950-000-Z009**  
**Order Code: BNI000F**



**Environmental conditions**

<b>Ambient temperature</b>	-5...55 °C
<b>EN 60068-2-6, Vibration</b>	61...500 Hz, constant acceleration 15 g 5...61 Hz, constant amplitude 1 mm
<b>IP rating</b>	IP67, when threaded in
<b>Storage temperature</b>	-25...75 °C

**Functional safety**

<b>MTTF (40 °C)</b>	43 a
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**Interface**

<b>Auxiliary interfaces</b>	8x EtherNet/IP 10Base-T/ 100Base-TX
<b>Interface</b>	Ethernet TCP/IP 10Base-T/ 100Base-TX

**Material**

<b>Gasket, material</b>	FKM 75
<b>Housing material</b>	Zinc, Die casting
<b>Housing shield</b>	yes
<b>Surface protection</b>	Cu 15 µm Ni 15 µm

**Mechanical data**

<b>Dimension</b>	68 x 32.4 x 224 mm
<b>Mounting ground strap</b>	M4
<b>Mounting part</b>	2-hole screw mount

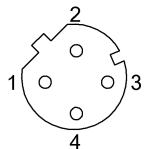
**Remarks**

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**



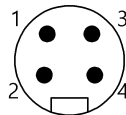
Ethernet (1xUp-, 8xDownlink)

PIN 1: Tx+

PIN 2: Rx+

PIN 3: Tx-

PIN 4: Rx-



PIN 1: +24V

PIN 2: +24V

PIN 3: Function ground

PIN 4: 0V