

## Basic features

|                               |  |
|-------------------------------|--|
| <b>Approval/Conformity</b>    | CE<br>UKCA<br>cULus<br>ODVA<br>WEEE  |
| <b>Display</b>                | yes  |
| <b>Scope of delivery</b>      | Part label (20x)<br>Port cover M12 (4x)<br>Grounding strap<br>Lock washer<br>Short guide<br>M4x6 screw |
| <b>Style</b>                  | Two-row  |
| <b>Supported web browsers</b> | Google Chrome<br>Mozilla Firefox   |

## Display/Operation

|  |            |
|--|------------|
| <b>Actuator supply UA, indicator</b>   | Green LED  |
| <b>IO-Link communication indicator</b> | Green LED  |
| <b>Sensor supply US indicator</b>      | Green LED  |
| <b>Switching function display</b>      | LED yellow |

## Electrical connection

|  |                                       |
|--|---------------------------------------|
| <b>Connection (COM 1)</b>              | M12x1-Female, 4-pin, D-coded          |
| <b>Connection (COM 2)</b>              | M12x1-Female, 4-pin, D-coded          |
| <b>Connection (supply voltage IN)</b>  | 7/8"-Male, 4-pin                      |
| <b>Connection (supply voltage OUT)</b> | 7/8"-Female, 4-pin                    |
| <b>Connection slots</b>                | 8x M12x1-Female, 5-pin, A-coded       |
| <b>Contact, surface protection</b>     | nickel plated 2 µm/gold plated 0.4 µm |

## Electrical data

|                                      |  |
|--------------------------------------|--|
| <b>Address range</b>                 | IPV4                                       |
| <b>Configurable inputs/outputs</b>   | yes  |
| <b>Current sum UA, actuator</b>      | 9.0 A                                      |
| <b>Current sum US, sensor</b>        | 9.0 A                                      |
| <b>IO-Link function</b>              | Master                                     |
| <b>Operating voltage Ub</b>          | 18...30.2 VDC                              |
| <b>Output current max.</b>           | 2 A short-circuit proof and overload-proof |
| <b>Output current max., note</b>     | short-circuit proof and overload-proof     |
| <b>Rated operating voltage Ue DC</b> | 24 V                                       |
| <b>Transfer rate</b>                 | 10/100 Mbit/s                              |

Network Blocks  
**BNI EIP-508-105-Z015**  
**Order Code: BNI006A**



**Environmental conditions**

|                                    |   |
|------------------------------------|---|
| <b>Ambient temperature</b>         | -5...70 °C  |
| <b>Ambient temperature UL max.</b> | 45 °C   |
| <b>EN 60068-2-6, Vibration</b>     | 5...61 Hz, constant amplitude 1 mm<br>61...500 Hz, constant acceleration 15 g |
| <b>IP rating</b>                   | IP67, when threaded in  |
| <b>Storage temperature</b>         | -25...70 °C   |

**Functional safety**

|                     |      |
|---------------------|------|
| <b>MTTF (40 °C)</b> | 49 a |
|---------------------|------|

**Interface**

|                             |                 |
|-----------------------------|-----------------|
| <b>Auxiliary interfaces</b> | 8x IO-Link      |
| <b>Digital inputs</b>       | 16x PNP, Type 3 |
| <b>Digital outputs</b>      | 16x PNP         |
| <b>IO-Link version</b>      | 1.1             |
| <b>Interface</b>            | Ethernet/IP     |
| <b>Port-class</b>           | Type A          |
| <b>Quick Connect</b>        | Class A         |

**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<br>Ni 15 µm |

**Mechanical data**

|                              |                    |
|------------------------------|--------------------|
| <b>Dimension</b>             | 68 x 37.9 x 224 mm |
| <b>Mounting ground strap</b> | M4                 |
| <b>Mounting part</b>         | 2-hole screw mount |

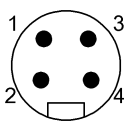
**Remarks**

See short guide

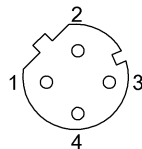
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

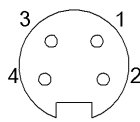
**Connector Drawings**



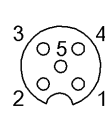
**Power IN**  
 PIN 1: +24V  
 PIN 2: +24V  
 PIN 3: 0V  
 PIN 4: 0V



**Ethernet IP**  
 PIN 1: Tx+  
 PIN 2: Rx+  
 PIN 3: Tx-  
 PIN 4: Rx-



**Power Out**  
 PIN 1: +24V  
 PIN 2: +24V  
 PIN 3: 0V  
 PIN 4: 0V



**IO-Link**  
 PIN 1: +24V, 1.6A  
 PIN 2: In-/output 2A  
 PIN 3: 0V  
 PIN 4: IO-Link/In-/Out 1.6A  
 PIN 5: n.c.