

### Basic features

|                            |  |
|----------------------------|--|
| <b>Approval/Conformity</b> | cULus<br>CE<br>UKCA<br>WEEE  |
| <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  |

### Display/Operation

|                                      |            |
|--------------------------------------|------------|
| <b>Actuator supply UA, 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-Male, 5-pin, B-coded            |
| <b>Connection (COM 2)</b>              | M12x1-Female, 5-pin, B-coded          |
| <b>Connection (supply voltage IN)</b>  | 7/8"-Male, 5-pin                      |
| <b>Connection (supply voltage OUT)</b> | 7/8"-Female, 5-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>                 | 0 - 125       |
| <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>Operating voltage Ub</b>          | 18...30.2 VDC |
| <b>Output current max.</b>           | 2 A           |
| <b>Rated operating voltage Ue DC</b> | 24 V          |
| <b>Transfer rate</b>                 | 9.6/12 Mbit/s |

Network Blocks  
**BNI PBS-302-101-Z001**  
**Order Code: BNI0047**



**Environmental conditions**

|                                |   |
|--------------------------------|---|
| <b>Ambient temperature</b>     | -5...70 °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   |

**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 |

**Interface**

|                        |                      |
|------------------------|----------------------|
| <b>Digital inputs</b>  | 16x PNP, Type 2      |
| <b>Digital outputs</b> | 16x PNP              |
| <b>Interface</b>       | Profibus DP EN 50170 |

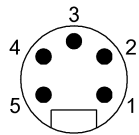
**Mechanical data**

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

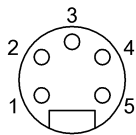
**Remarks**

See short guide

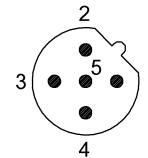
**Connector Drawings**



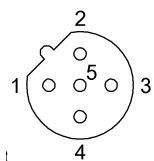
**Power IN**  
 PIN 1: 0V  
 PIN 2: 0V  
 PIN 3: Function ground  
 PIN 4: Sensor and bus supply.  
 PIN 5: Actuator supply



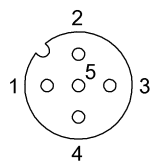
**Power Out**  
 PIN 1: 0V  
 PIN 2: 0V  
 PIN 3: Function ground  
 PIN 4: Sensor and bus supply.  
 PIN 5: Actuator supply



**I/O ports**  
 PIN 1: Supply voltage +  
 PIN 2: A-conductor  
 PIN 3: DGND  
 PIN 4: B-conductor  
 PIN 5: Shield



**I/O ports**  
 PIN 1: Supply voltage +  
 PIN 2: A-conductor  
 PIN 3: DGND  
 PIN 4: B-conductor  
 PIN 5: Shield



**I/O ports**  
 PIN 1: +24V, 0.2A  
 PIN 2: In-/output 2A  
 PIN 3: 0V  
 PIN 4: In-/output 2A  
 PIN 5: Function ground