

BNI PBS-XXX-10X-Z001

Mechanical version

Z001 - Material: Die-cast zinc, matte nickel plated
Bus connection: 1x M12x1 internal thread, 1x M12x1 external thread
Supply voltage: 7/8 male thread
IO ports: 8x M12x1 internal thread

Variants

101 – display version
102 – display version

Function

104 – IP67 IO modules, 16x standard inputs
302 – IP67 IO modules, 16x external outputs
502 – IP67 IO modules, 4x IO-Link ports, 4x standard I/O ports


Communication protocol

PBS - Profibus

Basic Type Designation

BNI - Balluff Network Interface

General information

| | | |
|--|---------------------|-----------------------|
|  <p>UL CERTIFIED SAFETY US-CA E319845 Prog.Cntrl.</p> | File | E319845 Vol. 1 Sec. 1 |
| | Enclosure rating | Type 1 |
| | Ambient temperature | 45° C |

Attention:

Please clean only with dry cloth or cloth dampened only with water!
Ensure correct connection and use an isolated or SELV power supply

Power Ratings

| Model | Nominal Rating Voltage | Type | Current Ratings |
|---|------------------------|----------------|---|
| All | 24 Vdc | Power Input | 130 mA maximum consumption 9 A including all output loads |
| All | 24 Vdc | Power Output | 8.8 A maximum |
| BNI PBS-104-XXX-Z001; BNI PBS-302-XXX-Z001; BNI PBS-502-XXX-Z001; | 24 Vdc | Digital Input | 30 mA max./point |
| BNI PBS-302-XXX-Z001; BNI PBS-502-XXX-Z001; | 24 Vdc | Digital Output | 0.5 A/point Pilot Duty 2 A/point Resistive/General use 8.8 A or less per unit |

Cord Sizes

| Cord conductor size, AWG | Overcurrent protection maximum ampere rating, Amps | Maximum load, Amps |
|--------------------------|--|--------------------|
| 14 | 12 | 9 |
| 16 | 8 | 8 |
| 18 | 5.6 | 5.6 |
| 20 | 5 | 4 |
| 22 | 3 | 2.4 |
| 24 | 2 | 1.6 |
| 26 | 1 | 0.8 |
| 28 | 0.8 | 0.6 |
| 30 | 0.5 | 0.4 |

Communication cord assembly – Listed or R/C (CYJV2) cord assembly with threaded male or female A, B, or D-coded M12 connector, rated 24 V minimum, 1 A minimum.R/C (AVLV2) marked or specified in UL style page as suitable for external interconnection cord, rated 28 AWG minimum, 300 V minimum.

In/Out cord assembly – Listed or R/C (CYJV2) cord assembly with threaded male A-coded M12 connector rated 24 V minimum, 2 A minimum.R/C (AVLV2) marked or specified in UL style page as suitable for external interconnection cord, rated 300 V minimum, 24 AWG minimum unless marked with maximum load current and overcurrent protection for the cord in accordance with table above.

Additional information can be found in the corresponding manual on our webpage <http://www.balluff.com>

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