

- ProfiNet
- Intelligent functions



General attributes

Approvals / Conformity

Device description file

Enclosure Type per IEC 60529
Indicator actuators supply UA
Indicator IO-Link comm.
Indicator sensors supply US
Indicator switching function
Mounting instruction
Scope of delivery

Transmission protocol
MTTF

Electrical attributes

Address range
Bus system
Configurable in-/outputs
Current sum US (Sensor)
Eff. operating voltage Ue DC
Inputs
IO-Link
IO-Link Specification
Number of auxiliary interfaces
Number of inputs
Number of outputs 2A
Operating voltage UB max. DC [V]

CE
UL Listed
GSDML-V2.2-Balluff-BNI-PNT-508-105-JJJMMTT.xml
IP67 (when connected)
Yes, LED green
Yes, LED green
Yes, LED green
Yes, LED yellow
See short guide
20x labels
Short guide
Screw M4x6
4x plugs M12
Circlip
Ground strap
ProfiNet
40 a

IPV4
ProfiNet
Yes
9.0 A
24 V
PNP, Type 2
Master
1.1
8x IO-Link
16
16
30.2 V

Operating voltage UB min. DC [V]
Switching output
Transfer rate

Transfer rate max.
Transfer rate min.

Mechanical attributes

Ambient temperature Ta max.
Ambient temperature Ta min.
Height
Housing material
Housing shield
Length
Mounting ground strap
Mounting type
Number of plug-in positions
Storage temperature max.
Storage temperature min.
Style
Surface protection
Width

18 V
PNP
COM2 (38.4 kBaud)
COM1 (4.8 kBaud)
COM3 (230.4 kBaud)
100 Mbit/s
10 Mbit/s

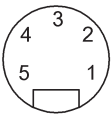
70 °C
-5 °C
37.9 mm
GD-ZnAl4Cu1 (die-cast zinc)
Yes
224.0 mm
M4
2-hole screw mounting
8
70 °C
-25 °C
Two-row
Cu 15 µ / Ni 15 µ
68.0 mm

Remarks

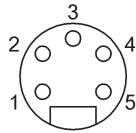
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

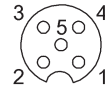
BNI PNT-508-105-Z015
BNI005H



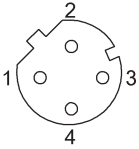
PIN 1: 0V
PIN 2: 0V
PIN 3: Function ground
PIN 4: Sensor and bus supply.
PIN 5: Actuator supply
Power In



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



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



PIN 1: TD+
PIN 2: RD+
PIN 3: TD-
PIN 4: RD-
Profinet Port