

## BNI PNT-104-105-Z015 BNI PNT-202-105-Z015 BNI PNT-302-105-Z015 BNI PNT-305-105-Z015 IP67 Modules User's Guide



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#### 1 Notes

1.1.	About this guide	The BNI PNT serves as a decentralized input and output module for connecting to an ProfiNet™ network.		
1.2.	Structure of the guide	The guide is organized so that the chapters build on one another Chapter 2: Basic safety information Chapter 3: Getting started Chapter 4: Technical data Chapter 5: Integration Chapter 6: Webserver Chapter 7: Appendix		
1.3. Typographical The followi Conventions		The follow	wing typographical conventions are used in this Guide.	
	Enumerations	Enumera •   •	tions are shown in list form with bullet points. Entry 1, Entry 2.	
	Actions	Action ins by an arr \$ Procedur (1) \$ (2) \$ (3)	structions are indicated by a preceding triangle. The result of an action is indicated ow. Action instruction 1. Action result. Action instruction 2. es can also be shown as numbers in brackets. Step no. 1 Step no. 2	
	Syntax	Numbers Decimal r Hexadeci prefix "0x	: numbers are shown without additional indicators (e.g. 123), imal numbers are shown with the additional indicator hex (e.g. 00 <sub>hex</sub> ) or with the " (e.g. 0x00)	
	Cross-references			
1.4.	Symbols -	i	Note tip This symbol indicates general notes.	
		⚠	<b>Note</b> This symbol indicates a security notice which most be observed.	
1.5.	Abbreviations	BNI     ; PNT   EMC   FE	Balluff Network Interface Standard input port ProfiNet™ Electromagnetic Compatibility Function ground	

FE Function ground O Standard output port

### 2 Safety

2.1. Intended use	This guide describes The BNI PNT serves as a decentralized input and output module for connecting to an ProfiNet™ network.		
2.2. General safety notes	Installation and startup are to be performed only by trained specialists. Any damage resulting from unauthorized manipulation or improper use voids the manufacturer's guarantee and warranty. The device is in accordance with EMC Class A. Such equipment may generate RF noise. The operator must take precautionary measures accordingly. The device must be powered only using an approved power supply (see chapter 4 "Technical data"). Only approved cable may be used.		
	Operating and testing The operator is responsible for observing local prevailing safety regulations. When defects and non-clearable faults in the device occur, take it out of service and secure against unauthorized use. Approved use in ensured only when the housing is fully installed.		
2.3. Meaning of the warnings	Note! The pictogram used with word "Caution" warns of a possible hazardous situation affecting the health of persons or equipment damage. Ignoring these warnings can result in injury or equipment damage. Always observe the described measures for preventing this danger.		

#### 3 Getting Started

3.1. Module overview



Figure 1 – Overview BNI PNT-xxx-105-Z015

- Mounting hole 1
- PROFINET <sup>™</sup> port 2 2
- Display 3
- Power Supply In 4
- 5 Status LED: Communication / Module
- 6 Port 1
- 7 Pin/Port LED: Signal status
- 8 Port 3
- 9 Port 5
- 10 Port 7

- 11 Port 6 12 Port 4
- 13 Port 2
- 14 Port 0
- 15 Power Supply Out
- 16 Label 17 PROFINET™ port 1
- 18 Grounding connection

#### 3 **Getting Started**

3.2. Mechanical The module is attached using 2 M6 screws and 2 washers. connection Isolation pad as accessory available

3.3. Electrical connection

**Power Supply** 

#### Power supply "IN" (7/8", male)

1 Pin		Function	Description
	1	GND actuator power supply	0 V
<sup>2</sup> ( <b>@</b> <sup>-</sup> <b>)</b>	2	GND Bus- / Sensor power supply	0 V
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	3	Function ground	FE
3	4	Bus- / Sensor power supply	+24 V
4	5	Actuator power supply	+24 V

#### Power supply "OUT" (7/8" female)

$\sim$	Pin	Function	Description
	1	GND actuator power supply	0 V
$\tilde{\mathbf{o}}^{\mathbf{O}}$	2	GND Bus- / Sensor power supply	0 V
5 60	3	Function ground	FE
3	4	Bus- / Sensor power supply	+24 V
4	5	Actuator power supply	+24 V

```
i
```

#### Note

Provide sensor/bus power and actuator power from separate power sources if possible.

Total current <9A per Pin. The total current of all modules may not exceed 9A even when daisy chaining the actuator supply.

#### Grounding





#### Note!

The FE connection from the housing to the machine must be low-impedance and kept as short as possible.

PROFINET Interface

M12, D-coded, female	
	I

	1
• <b>`</b>	2
<u>م</u> کر ک	3
44236	4

Pin	Function
1	Tx+
2	Rx+
3	Tx-
4	Rx-



Unused I/O port socket must be fitted with cover caps to ensure IP67 protection rating.

#### **3 Getting Started**

I/O-Port



Din	Function		
FIII	Input/Output	Output	Input
1	+24V, 200mA	n.c.	+24V, 200mA
2	Input / Output	n.c.	Input
3	GND	GND	GND
4	Input / Output	Output	Input
5	FF	FF	FF



#### Note!

Note!

For the digital sensor inputs follow the input guideline per EN61131-2, type 2.



## Note!

Each output serves a maximum current of 2,0 amperes. Total current of the module has to be lower than 4 amperes per Pin.



Unused I/O port socket must be fitted with cover caps to ensure IP67 protection rating.

#### Port

	Port	
	0-3	4-7
BNI PNT-104-105-Z015	Ing	out
BNI PNT-202-105-Z015	Out	tput
BNI PNT-302-105-Z015	Input /	Output
BNI PNT-305-105-7015	Input Output	

### 4 Technical data

#### 4.1. Dimensions





4.2. Mechanical data	Housing material	Die case zinc, matt nickel plated
	Enclosure rating per IEC 60529	IP 67 (only when plugged-in and threaded-in)
	Supply voltage	7/8" 5-pin (male and female)
	Input ports / Output ports	M12, A-coded (8 x female)
	Dimensions (W x H x D in mm)	68 x 224 x 37.9
	Mounting type	2-hole screw mount
	Ground strap attachment	M4
	Weight	Approx. 670 gr.
4.3. Operating conditions	Operating temperature T <sub>a</sub> Storage temperature	-5 °C 70 °C -25 C 70 °C
	EMC - EN 61000-4-2/3/4/5/6 - EN 55011	- Severity level 2B/3A/4B/2B/3A - Gr.1, CL. B
	Shock/vibration	EN 60068-2-6, EN 60068-2-27 EN 60068-2-29, EN 60068-2-64
	-	
4.4. Electrical data	Supply voltage	1830.2 V DC, per EN 61131-2
	Ripple	<1%
	No-load current at 24 V	130 mA

#### 4 Technical data

#### 4.5. PROFINET

PROFINET port	1 x 10Base-/100Base-Tx
Connection for PROFINET port	M12, D-coded
Cable types per IEEE 802.3	Shielded twisted pair min. STP CAT 5/ STP CAT 5e
Data transmission rate	10/100 Mbit/s
Max. cable length	100 m
Flow control	Half Duplex/Full Duplex (IEEE 802.33x-Pause)

## 4.6. Function indicators



Module status	LED	Status	Function
	110	green	Input power OK
	03	red	Low Input power (<18V)
	114	green	Output power OK
	UA	red	Low Output power (< 18V)
		off	No error
	СE	red	Watchdog timeout; channel, generic or extended
	SF		diagnosis present; system error
		red flashing	DCP signal service is initiated via the bus
		off	No error
	DE	red	No configuration; or low speed physical link; or no
	DF		physical link
		red flashing	No data exchange
	100	off	Bus clock: 10 Mbit/s
	100	yellow	Bus clock: 100 Mbit/s
	LK	green	Data transfer

#### I/O Port

Each port has two two-colour LEDs to indicate the I/O-States

St	atus	Function	Description
off		I/O State	State of the Input or Output Pin is 0
yello	w	I/O State	State of the Input or Output Pin is 1

Status	Port configuration				
Status	Diagnostic Input	Input	Output		
red	Input low	short-circuit between Pin 1 und 3	short-circuit on output Pin		
red flashing	_	_	short-circuit between Pin 1 und 3		

**5.1. Configuration** When project planning ProfiNet<sup>™</sup> devices, a device is mapped as a modular system which consists of a header module and multiple data modules.

**GSDML-File** The device data required for project planning are stored in GSDML files (Generic Station Description Markup Language). The GSDML files are available in 2 languages for downloading over the Internet (www.balluff.com).

The GSDML file provides the possible data modules (inputs or outputs of various data width).

	Module	Order number	I address	Q ad	Diagnostic address:	Comment
R	BNIPNT3021052015	BN10052			8186*	
	FN-IO				8185*	
-	port 1 - M12				8184*	
	port.2 · M12				8183*	
	Digital I/O Process Dat**				8182*	0
	Input Pin4		1			
	Input Pin2		0			
	Output Pin4			1		
	Output Pin2			0		
	Station diagnostic		2			
	Periphery error		3			
	Sensor supply short cir~		4			
	Actuator warning Pin2		5			
	Actuator warning Pin4		6			
	Actuator shutdown Pin2		7			
-	Actuator shutdown Pin4		8			
and a second	Restart Pin2			2		

#### 5 Integration

Integrating the module to configuration

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0) UR						Fin	ď	
	<u>^</u>					- <u>-</u>		1
CPU 319-3 PN/	DP					Ero	ofile: Standard	
MPI/UP	#					100		
PNJO	E	themet(2): PR	OFINET	O-System (100)				
P1 Port 1	_		1				PROFINET IO	
· · · · · · · · · · · · · · · · · · ·			-			T	Additional Field [	Devices
			🚡 (1) B	NIPNT			T 🛱 🦳 1/0	
	<b>_</b>						🕂 🦳 Balluff	
	i bie		1.31				🗄 🦲 Balluff - I	IO-Link
							😑 🧰 Balluff - S	Standard I/O
							🗄 🧰 BNI	PNT-104-105-2015
							🖻 🧰 BNI	PNT-302-105-Z015
81							E 💼 E	BNI PNT-302-105-Z015
(1) BNIPNT302105Z015	Order number	l address	Q ad	Diagnostic address:	Comment	]		Actuator shutdown P Actuator warning Pir Actuator warning Pir
(1) BNIPNT3021052015     Module     BNIPNT3021052015	Order number	I address	Q ad	Diagnostic address:	Comment			Actuator shutdown F Actuator warning Pir Actuator warning Pir Digital I/O Process E
(1) BNIPNT3021052015     Module     BNIPNT3021052015     FW40     FW40     FW40	Order number	I address	Q ad	Diagnostic address: 8186* 8185*	Comment			Actuator shutdown F Actuator warning Pir Actuator warning Pir Digital I/O Process I Input Pin2
(1) BNIPNT3021052015     Module     BNIPNT3021052015     FN-I0     FN-I0     port 1 - M12     ort 2 - M12	Order number BNI0052	I address	Q ad	Diagnostic address: 8186* 8185* 8184* 8184* 9182*	Comment			Actuator shutdown F Actuator warning Pir Actuator warning Pir Digital I/O Process [ Input Pin2 Input Pin4
(1) BNIPNT3021052015 Module BNIPNT3021052015 PN/D Aport 1 - M12 Aport 2 - M12 Drift/UR Exercise D. 4"	Order number	I address	Q ad	Diagnostic address: 8185* 8185* 8183* 8183* 8183* 8183* 8183*	Comment			Actuator shutdown F Actuator warning Pir Actuator warning Pir Digital I/O Process I Input Pin2 Input Pin4 Output Pin2
(1) BNIPNT 3021052015 Module BNIPNT 3021052015 PN/D port 2-M12 Digital //D Process Dat** Inst. Find.	Order number BN10052	I address	Q ad	Diagnostic address: <b>8185</b> * 8184* 8183* 8183* 8182*				Actuator shutdown F Actuator warning Pir Actuator warning Pir Digital 1/0 Process D Input Pin2 Input Pin4 Output Pin4 Output Pin4 Output Pin4
(1) BNIPNT3021052015 Module BNIPNT3021052015 PV/0 Pv01 - M12 Digital //0 Process Dar** Input Pm4 Input Pm2	Order number BN10052 BN1005 B	l address	Q ad	Diagnostic address: 8185* 8184* 8184* 8183** 8182**	Comment			Actuator shutdown F Actuator warning Pir Actuator warning Pir Digital I/O Process D Input Pin2 Input Pin4 Output Pin2 Output Pin2 Output Pin4 Periphery error Destut Pin2
(1) BNIPNT3021052015 Module BMIPNT3021052015 PN/00 port 1-M12 Digital/10 Process Dar** Input Pin4 Input Pin4 Dubus Pin4	Order number BN10052 BN10052	l address 1 1 0	Q ad	Diagnostic address: <b>87.86°</b> <b>87.84°</b> <b>87.83°</b> <b>87.83°</b> <b>87.83°</b>	Comment			Actuator shutdown F Actuator warning Fir Digital I/O Process I Input Fin2 Input Fin2 Output Fin3 Output Fin4 Periphery error Restart Fin2 Doubte fin4
(1) BNIPNT3021052015 Module BNIPNT3021052015 PN/C A port 1- MT2 A port 2- MT2 Digital/IC Process Dat" Input Pin2 Output Pin4 Output Pin2	Order number BNI0052	l address 1 1 0	Q ad	Diagnostic address: 8786* 8785* 8784* 8783* 8783* 8782* 8782*	Comment			Actuator shutdown F Actuator warning Fir Digital I/O Process D Input Fin2 Unput Fin4 Output Fin4 Output Fin4 Periphery error Restart Fin2 Restart Fin4 Searce republished
(1) BNIPNT3021052015 Module BNIPNT3021052015 PN/0 PN/0 Data 2-M12 Data 2-M12 Data 2-M12 Data Pin2 Input Pin4 Dutput Pin2 Dutput Pin4 Dutput Pin2 Station diagnostic	Order number BN/0052	1 address 1 1 0 2 2	Q ad 1	Diagnostic address: Ø106* Ø184* Ø183* Ø182* Ø182*	Comment			Actuator shutdown F Actuator warning Fir Actuator warning Fir Digital I/O Process D Input Fin2 Output Fin4 Output Fin2 Output Fin4 Periphery error Restat Fin2 Restat Fin4 Sensor supply short
(1) BNIPNT3021052015 Module BMIPNT3021052015 PRV/0 2001 1 - M12 Dogit / PR Process Dar** Input Pin4 Input Pin4 Dulput Pin4	Order number BN/0052	1 address 1 1 0 2 3	Q ad	Diagnostic address: <i>0106*</i> <i>0105*</i> <i>0104*</i> <i>0183*</i> <i>0183*</i> <i>0182*</i>	Comment		9 <b>(</b> 11) Link	Actuator shutdown F Actuator warning Pir Actuator warning Pir Digital I/O Process I Input Pin4 Output Pin4 Output Pin4 Periphery error Restart Pin4 Sensor supply short Station diagnostic
(1) BNIPNT3021052015 Module BMIPNT3021052015 PN/ID PM/	Order number  BNU052  Under number  BNU052  Under number  BNU052  Under number BNU052  Under	1 address	Q ad	Diagnostic address: 8186* 8184* 8184* 8182** 8182**	Comment		B _ 10 Link F _ Gateway	Actuator shutdown F Actuator warning Pir Actuator warning Pir Digital I/O Process IC Input Pin2 Input Pin2 Output Pin2 Output Pin4 Periphety error Restart Pin2 Restart Pin4 Sensor supply short Station diagnostic
(1) BNIPNT3021052015 Module BNIPNT3021052015 PN/0 PN/0 PN/2 Data 2-M12 Data 2-M12 Data 2-M12 Data 2-M12 Data Pin4 Input Pin4 Dutput Pin4	Order number BNI/0052	1 address 1 1 0 2 3 4 5	Q ad	Diagnostic address: 8186* 8185* 8183* 8182* 8182*	Comment		⊕ _ 10 Link ⊕ _ 10 Link ⊕ _ 14M	Actuator shufdown F Actuator waning Pin Actuator waning Pin Diglal I/O Phocess [ Input Pin4 Urput Pin4 Urput Pin4 Urput Pin4 Urput Pin4 Urput Pin4 Duput Pin2 Restat Pin2 Restat Pin4 Sensor supply short. Station diagnostic
(1) BNIPNT3021052015 Module BNIPNT3021052015 PN/00 2007 1 · M12 Dogit / PR Process Dar** Input Pin4 Input Pin4 Dutput Pin4 Dutput Pin4 Dutput Pin4 Dutput Pin4 Dutput Pin4 Dutput Pin4 Cutput Pin4 Cut	Order number BNH0052	1 address 1 0 2 3 4 5 6	Q ad	Diagnostic address: <b>8186*</b> 8185* 8184* 8182* 8182* 8182*	Comment		⊕ 10 Link ⊕ 10 Link ⊕ Rateway ⊕ HMI ⊕ 10	Actuator warning Pir Actuator warning Pir Digital I/O Process Di Input PirA Uuput PirA Output PirA Periphery enor Restat PirA Sensor supply enor Sensor supply enor Sensor supply enor
(1) BNIPNT3021052015 Module BNIPNT3021052105 PN/0 Port 1-MT2 Port 2-MT2 Data/T/O Process Dat" Input Pin4 Dutput Pin4 Dutput Pin2 Dutput Pin4 Dutput Pin2 Dutput Pin2 Station disgnostic Periphery error Sensor suppl shott cit" Actuator warning Pin2 Actuator shutdown Pin2	Drder number <i>DH10052</i>	1 address 1 0 2 3 4 5 6 7	Q ad	Diagnostic address: <b>8186*</b> 8183* 8182* 8182*	Comment		€ 10 Link Gateway HMI F_ 10	Actuator shufdown? Actuator warning Pir Digital 1/0 Process Input Pira2 Input Pira2 Urput Pira4 Output Pira4 Output Pira4 Periphery error Restart Pira4 Seraror supply short Station diagnostic
(1) BNIPNT3021052015 Module BMIPNT3021052015 PRV0 PRV0 Part 1-M12 Data 2-M12 Data 2	Order number           BNI/0052           -	1 address 1 1 0 2 3 4 5 6 7 8	Q ad	Diagnostic address: 8186* 8185* 8183* 8182* 81	Comment		€ 10 Link € 10 Link € 10 Gateway ₩ 140 ₩ 140	Actuator shufdown F Actuator waning Pin Digital 1/O Proces C Input Pin4 Duput Pin4 Duput Pin4 Duput Pin2 Duput Pin2 Duput Pin2 Duput Pin2 Duput Pin2 Restat Pin2 Restat Pin4 Sensor supply short. Station diagnostic
(1) BNIPNT3021052015 Module BMIPNT3021052015 PRV/0 port 1-M12 Dptr1/PR2020052015 Upptr1/PR2020052015 Dptr1/PR2020052015 Dptr1/PR2020052015 Dutput Prn2 Dutput Prn2 Dutput Prn4 Dutput Prn4 Dutput Prn4 Dutput Prn4 Dutput Prn4 Dutput Prn4 Dutput Prn4 Dutput Prn4 Actuator shutdown Prn2 Actuator shutdown Prn4 Actuator shutdown Prn4 Restat Prn2	Drder number BNH0052	1 address 1 0 2 3 4 5 6 7 8 8	Q ad	Diagnostic address: <b>9186*</b> 8185* 8184* 8182* 8182* 	Comment		€ ID Link € Gateway € HMI € IV0 etat FM4 IV0 PA S 4 6 MI PAI	Actuator shardform / Actuator warning Pin Actuator warning Pin Digital I/O Process U Input Pin2 Input Pin4 Output Pin4 Output Pin4 Periphery error Restat Pin4 Sensor suppl short of Station diagnostic

#### **Object properties**

Properties - Digital I/O Process Data 16 Bit - (R-/S1)

	Value	1
—🗉 Global diagnosis	enable	
— Low sensor undervoltage detection	Report	1
E Low actuator undervoltage detection	Report	1515
- Port functions		
- E Function Port 0 Pin 4	NO input	
- E Function Port 1 Pin 4	NO input	
-E Function Port 2 Pin 4	NO input	
-E Function Port 3 Pin 4	NO input	
- E Function Port 4 Pin 4	NO input	
- E Function Port 5 Pin 4	NO input	
-E Function Port 6 Pin 4	NO input	
- 🗐 Function Port 7 Pin 4	NO input	
- E Function Port 0 Pin 2	NO input	
- E Function Port 1 Pin 2	NO input	
- 🗐 Function Port 2 Pin 2	NO input	
- 🗐 Function Port 3 Pin 2	NO input	
-E Function Port 4 Pin 2	NO input	
- E Function Port 5 Pin 2	NO input	
-E Function Port 6 Pin 2	NO input	
E Function Port 7 Pin 2	NO input	25925
📇 Safe state		
—🗐 Safe state Port 0 Pin 4	0	
—🗐 Safe state Port 1 Pin 4	0	-
–Ĩ≌Ĩ Safe state Port 2 Pin 4	0	

×

General		
Short description:	BNIPNT3021052015	
Short detemption.	Standard I/O module for industrial ethernet; PROFINE	T 10-Device; firmware '
Order No. / firmware:	RNI0052 / V1 0	
Family:	Balluff - Standard I/O	
Device name:	BNIPNT302105Z015	
GSD file:	GSDML-V2.2-Balluf-BNI-PNT-302-105-20110706.xml	
	Change Release Number	
Node in PROFINET	IO System	
Device number:	1 PROFINET-IO-System	(100)
IP address:	192.168.0.4 Ethernet	
Massign In: dudies		
Comment:		
		1
		Cancel
OK		
OK Properties - Ether	net interface BNIPNT302105Z015	
OK Properties - Ether General Paramet	rnet interface BNIPNT302105Z015	
OK Properties - Ether General Paramet	rnet interface BNIPNT302105Z015 ers	
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OK Properties - Ether General Paramet IP address:	ers	
OK Properties - Ether General Paramet JP address: Subnet mask:	rnet interface BNIPNT302105Z015 ers	
OK Properties - Ether General Paramet IP address: Subnet mask:	rnet interface BNIPNT302105Z015 ers	ter
OK Properties - Ether General Paramet JP address: Subnet mask:	rnet interface BNIPNT3021052015 ers 192.168.0.4 255.255.255.0 Gateway Do not use rou C Use router Address:	
OK Properties - Ether General Paramet IP address: Subnet mask: Subnet:	rnet interface BNIPNT302105Z015 ers	ter
OK Properties - Ether General Paramet JP address: Subnet mask: Subnet: Subnet:	rnet interface BNIPNT302105Z015 ers 192.168.0.4 255.255.255.0 Gateway Do not use rou Cuse router Address:	ter <u>N</u> ew,
OK  Properties - Ether  General Paramet  IP address: Subnet mask:  Subnet:  not networked Ethernet[1) Ethernet(2)	rnet interface BNIPNT302105Z015 ers	ter
OK  Properties - Ether General Paramet  JP address: Subnet mask:  Subnet: Ethernet[1] Ethernet[2]	rnet interface BNIPNT302105Z015 ers	ter

ΟK

Help

Cancel

#### **5** Integration

Finish Hardware configuration





Scanning the system	Assign device name	
	Available devices:	Selection of the Device names
	IP address MAC address Device type Device name	ssign name flashing test ation (seconds): 3 • ashing <u>on</u> Elashing off
	Show only devices of the same type Show only devices without names Update Export Close	MAC ID of the Device
Succesfully integrated in the system	Assign device name Device name: BNIPNT3021052015  Device type: Balluff - Standard I/O Available devices:	MAC ID of the Device
	IP address     MAC address     Device type     Device name     A       192.168.0.4     00-19-31-30-44-75     Balluff - Standard I/O     bnipnt3021052019     Node       Duration     File     File     File	ssign name a flashing test ation (seconds): 3 • ashing on Flashing off
	Show only devices of the same type  Show only devices without names Update Export	Assigned Device name
		Help

#### 6 Webserver

6.1.	General	The module includes an internal webserver to get detailed information about the current state. Also you can use it to configurate the module. First make sure that a correct integration into your network has been done. To get a connection to the webserver enter the IP address of the module to your browser address bar. A welcome page with a list of all Balluff ProfiNet Network-interfaces is shown. Please use Internet Explorer 7 or higher.
6.2.	Home	By click on "play"-button "Home" active. You can get some information about the configuration and network-activity of the module. At the top of the window you can see the navigation bar which allows you to switch between the different webpages, just click on the corresponding text.
6.3.	Diagnostic Process	On this page you can get some information about the module's current process data by having a look at the Leds.
6.4.	Diagnostic Module	On this page you can see the current module and network status like you can see it on the module itself.
6.5.	Configurations	You can change module position and module information. This can only be used by entering a username and a password: Username: Balluff Password: BNIPNT

### 7 Appendix

7.1. Included material	<ul> <li>The BNI PNT consists of the following components:</li> <li>Standard I/O Module</li> <li>4 blind plugs M12</li> <li>Ground strap</li> <li>Screw M4x6</li> <li>20 labels</li> </ul>	
7.2. Order code		BNI PNT-302-105-Z015
	Balluff Network Interface	
	Functions	
	104 = IP 67 Standard Input Module	
	202 = IP 67 Standard Output Module	
	302 = IP 67 Standard I/O Module 305 = IP 67 Standard I/O Module	
	Variants 105 = Display version, 2-port switch	
	Mechanical version	
	Z015 = Material: Die-cast zinc housing	
	Uplink: 2 x M12x1 internal thread	
	Power: 7/8" external thread and 7/8" internal thread	

Sensor Ports: 8 x M12x1 internal thread

#### 7.3. Order Information

Product ordering code	Order code
BNI PNT-104-105-Z015	BNI0053
BNI PNT-202-105-Z015	BNI005F
BNI PNT-302-105-Z015	BNI0052
BNI PNT-305-105-Z015	BNI005K

#### Notes

Notes

# www.balluff.com

Balluff GmbH Schurwaldstrasse 9 73765 Neuhausen a.d.F. Germany Tel. +49 7158 173-0 Fax +49 7158 5010 balluff@balluff.de