

Proxy - FL NP PND-4TX IB-LK



2985929

<https://www.phoenixcontact.com/pc/products/2985929>

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Proxy for PROFINET-RT, G4 functionality, INTERBUS proxy for fiber optics with integrated 4-port switch

Product Description

The latest generation of INTERBUS proxies seamlessly integrate a complete INTERBUS system together with all its functions into a higher-level control system with PROFINET functionality. Using GSDML files, the parameterization can be integrated perfectly into the higher-level engineering system.

The devices offer the following features:

- Data exchange, diagnostics, and parameterization are via the PROFINET protocol
- They can be integrated and parameterized in any controller using the PROFINET functionality
- LLDP support for topology detection
- PROFINET update rates ≥ 1 ms

Your advantages

- Can be integrated and parameterized in any controller using the PROFINET functionality
- PROFINET update rates = 1 ms
- Data exchange, diagnostics, and parameterization are via the PROFINET protocol
- LLDP support for topology detection

Commercial Data

Item number	2985929
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	DREBAA
Catalog Page	Page 359 (C-6-2019)
GTIN	4046356131612
Weight per Piece (including packing)	765.7 g
Weight per Piece (excluding packing)	737.6 g
Customs tariff number	85176200
Country of origin	DE

Technical Data

Product properties

Type	Stand-alone
Product type	Gateways/Proxies

Electrical properties

Maximum power dissipation for nominal condition	8.4 W
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Supply

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30.2 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm ²
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	typ. 350 mA

Interfaces

Ethernet

Connection method	RJ45 jack
Transmission speed	10/100 Mbps
Transmission length	100 m
No. of channels	4

INTERBUS (Master)

Bus system	INTERBUS
Connection method	F-SMA connector
Transmission speed	500 kbps / 2 Mbps (can be switched)
Transmission physics	FO
No. of channels	1

System properties

INTERBUS-Master

Amount of process data	512 words
Number of supported devices	max. 512 (Depending on the control class and data direction)
Number of devices with parameter channel	max. 126 (512 words)

INTERBUS-Slave

Amount of process data	512 words
Number of PCP words	512 words

LED signaling

Status display	7-segment display/ diagnostics LEDs
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Software

Functionality

Number of I/O nodes	8192
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Dimensions

Width	128 mm
Height	95 mm
Depth	69 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Vibration (operation)	5g, accordance to IEC 60068-2-6
Air pressure (operation)	80 kPa ... 108 kPa (2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3000 m above sea level)

EMC data

Conformance with EMC directives	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B, 6 kV contact discharge, 8 kV air discharge
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion A, all interfaces 1 kV Criterion B, all interfaces 2 kV
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Transient overvoltage (surge) EN 61000-4-5/IEC 61000-4-5 Criterion B, supply lines DC: 0.5 kV/0.5 kV (symmetrical/asymmetrical), fieldbus cable shield 1 kV
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V
	Noise emission test in accordance with EN 61000-6-4/IEC 61000-6-4 EN 55011 Class A
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Mounting

Mounting type	DIN rail mounting
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Approvals



EAC

Approval ID: RU*DE*08.B.00731/19



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324

cULus Listed

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Classifications

ECLASS

ECLASS-9.0	19170103
ECLASS-10.0.1	19170405
ECLASS-11.0	19170405

ETIM

ETIM 8.0	EC001478
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UNSPSC

UNSPSC 21.0	43222600
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

Memory

Memory - CF FLASH 256MB - 2988780

<https://www.phoenixcontact.com/pc/products/2988780>

Program and configuration memory, plug-in, 256 MB



Memory

Memory - CF FLASH 2GB - 2701185

<https://www.phoenixcontact.com/pc/products/2701185>

Program and configuration memory, plug-in, 2 Gbytes.



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FO connectors

FO connectors - PSM-SET-FSMA/4-HCS - 2799487

<https://www.phoenixcontact.com/pc/products/2799487>

F-SMA plug set for PCF fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve



FO connectors

FO connectors - PSM-SET-FSMA/4-KT - 2799720

<https://www.phoenixcontact.com/pc/products/2799720>

F-SMA plug set for polymer fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve



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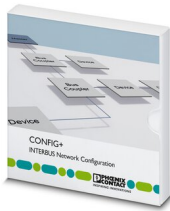
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Configuration and diagnostic software

Configuration and diagnostic software - CONFIG+ OEM - 2700779

<https://www.phoenixcontact.com/pc/products/2700779>

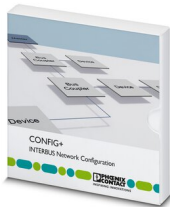


Config+ project license, for configuration and diagnostics of an INTERBUS system. Please enter the project number in the configuration field or get in touch with your contact person in our sales organization.

Configuration and diagnostic software

Configuration and diagnostic software - CONFIG+ DEMO - 2868046

<https://www.phoenixcontact.com/pc/products/2868046>



Config+ Demo version with limited range of functions (unable to save projects). The demo version is available free of charge and does not require a license key. It is part of the AUTOMATIONWORX Software Suite, which you can download under "Downloads".

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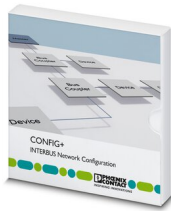
<https://www.phoenixcontact.com/pc/products/2985929>



Configuration and diagnostic software

Configuration and diagnostic software - CONFIG+ - 2868059

<https://www.phoenixcontact.com/pc/products/2868059>

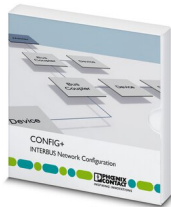


Config+ full version for configuration and diagnostics of an INTERBUS system

Configuration and diagnostic software

Configuration and diagnostic software - CONFIG+ CPY - 2868062

<https://www.phoenixcontact.com/pc/products/2868062>



The Config+ copy license enables the installation and parallel use of the Config+ software on multiple workstations. A single-user full license is also required. It is a workstation license

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Software

Software - AX+ BASIC - 2985068

<https://www.phoenixcontact.com/pc/products/2985068>



Software CD for FDT container for integrating device DTMs (free download)

Programming software

Programming software - AX DTM LIB - 2988065

<https://www.phoenixcontact.com/pc/products/2988065>



DTM library

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User manual

User manual - IBS SYS DIAG DSC UM - 2747280

<https://www.phoenixcontact.com/pc/products/2747280>

User Manual, German, for diagnosis in Generation 4 controller boards



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