PHŒNIX CONTACT

Proxy - FL NP PND-4TX IB-LK - 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

☑ LLDP support for topology detection

☑ Data exchange, diagnostics, and parameterization are via the PROFINET protocol

☑ PROFINET update rates = 1 ms

☑ Can be integrated and parameterized in any controller using the PROFINET functionality

RoHS   INTERBUS   PROFI NET®

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 131612
GTIN	4046356131612
Weight per Piece (excluding packing)	737.000 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Proxy - FL NP PND-4TX IB-LK - 2985929

Technical data

Dimensions

Width	128 mm
Height	95 mm
Depth	69 mm

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)
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)

Interfaces

Interface	Ethernet
No. of ports	4
Transmission speed	10/100 Mbps
Transmission length	100 m

PROFINET

Device function	PROFINET-Proxy
Specification	PROFINET-IO RT, Spec. 2.2
Update rate	min. 1 ms

Function

PROFINET device function	PROFINET-Proxy
PROFINET specification	PROFINET-IO RT, Spec. 2.2
PROFINET conformance class	B
Status and diagnostic indicators	7-segment display/ diagnostics LEDs
Number of supported devices	max. 512 (Depending on the control class and data direction)
Amount of process data	512 words
Number of devices with parameter channel	max. 126 (512 words)

Supply voltage

Supply voltage	24 V DC
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Supply voltage range	18.5 V DC ... 30.2 V DC
Typical current consumption	typ. 350 mA

General

Mounting type	DIN rail mounting
Type AX	Stand-Alone
Net weight	737 g

Standards and Regulations

Proxy - FL NP PND-4TX IB-LK - 2985929

Technical data

Standards and Regulations

Noise emission	EN 55011 / Class A
Vibration (storage/transport)	5g
Free from substances that could impair the application of coating	Yes
Vibration (operation)	5g, accordance to IEC 60068-2-6

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 4.0	27250500
eCl@ss 4.1	27250500
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170103
eCl@ss 8.0	19170103
eCl@ss 9.0	19170103

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001478
ETIM 5.0	EC001478
ETIM 6.0	EC001478
ETIM 7.0	EC001478

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43222609
UNSPSC 18.0	43222609
UNSPSC 19.0	43222609
UNSPSC 20.0	43222609
UNSPSC 21.0	43222609

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Approvals

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UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed	(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cUL Listed	c(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

EAC	EAC	RU*DE*08.B.00731/19

cULus Listed	c(UL)us LISTED

Accessories

Accessories

Configuration and diagnostics

Software - CONFIG+ OEM - 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.

Proxy - FL NP PND-4TX IB-LK - 2985929

Accessories

Software - CONFIG+ DEMO - 2868046

Config+ demo version with restricted range of function (it is not possible to save projects)

Software - CONFIG+ - 2868059

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

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Software - CONFIG+ CPY - 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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Device parameterization

Software - AX+ BASIC - 2985068

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

Documentation

User manual - IBS SYS DIAG DSC UM - 2747280

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

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Parameterization memory

Proxy - FL NP PND-4TX IB-LK - 2985929

Accessories

Memory - CF FLASH 256MB - 2988780

Program and configuration memory, plug-in, 256 MB

Memory - CF FLASH 2GB - 2701185

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

Programming

Software - AX DTM LIB - 2988065

DTM library

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

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

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

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