FL NP PND-4TX IB-LK - Proxy

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
Sales key	DR14
Product key	DREBAA
GTIN	4046356131612
Weight per piece (including packing)	749.1 g
Weight per piece (excluding packing)	737.6 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Gateways/Proxies
Type	Stand-alone

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

Functionality

Number of I/O nodes	8192

Electrical properties

Maximum power dissipation for nominal condition	8.4 W

Supply

Supply voltage (DC)	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 mm²
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

Signaling

Status display	7-segment display/ diagnostics LEDs

Dimensions

Width	128 mm
Height	95 mm
Depth	69 mm

Material specifications

Color	Steel/stainless steel color

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 mean sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3000 m above sea level)

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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 fieldsEN 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 kVCriterion 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 interferenceEN 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

Mounting

Mounting type	DIN rail mounting

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2985929

UL Listed
Approval ID: E140324

cUL Listed
Approval ID: E140324

Classifications

ECLASS

ECLASS-13.0	19170405
ECLASS-15.0	19170405

ETIM

ETIM 10.0	EC001478

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	da564de6-1d72-467f-bf2f-ea77d7e93ba3

EF3.1 Climate Change

CO2e kg	31.611 kg CO2e

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