

FL PN/PN SDIO-2TX/2TX - Safety Gateway



2700651

<https://www.phoenixcontact.com/us/products/2700651>

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Safe PROFINET gateway, IP20 protection, for connecting two PROFINET systems, up to 128 byte standard I/O process data via PROFINET, up to 11 byte safe I/O process data via PROFIsafe



Product description

The function of the safe FL PN/PN SDIO-2TX/2TX PROFINET gateway is to copy safety-related and non-safety-related I/O data from a PROFINET system 1 to a PROFINET system 2, and vice versa.

Your advantages

- Can be used specifically for safety functions across all control systems
- Control-independent use supported
- Supports redundant power supply
- Coupling of safe and standard I/O data
- Supports safety functions up to SIL 3, PL e, Cat. 4
- Industrial gateway for connecting two PROFINET/PROFIsafe networks

Commercial data

Item number	2700651
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR14
Product key	DREBBD
GTIN	4046356621243
Weight per piece (including packing)	731.1 g
Weight per piece (excluding packing)	727.5 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Gateways/Proxies
Type	Block design
Operating mode	PROFINET/PROFIsafe

System properties

PROFINET

Device function	PROFINET device
Specification	2.2
Conformance Class	B

Electrical properties

Maximum power dissipation for nominal condition	typ. 4.5 W
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Potentials

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30 V DC

Potentials

Supply voltage	24 V DC
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Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18.5 V DC ... 30 V DC (including ripple)
Current consumption	max. 250 mA
Ripple	3.6 V _{pp}
Protective circuit	Polarity protection, surge protection; 35 V DC

Connection data

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	26 ... 12

Dimensions

Width	130 mm
Height	27 mm
Depth	145 mm

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Note on dimensions	Housing dimensions
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Material specifications

Color	Steel/stainless steel color
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Characteristics

Safety data: EN ISO 13849

Performance level (PL)	max. e
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 108 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 85 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting
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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2700651>



UL Listed

Approval ID: E140324



cUL Listed

Approval ID: E140324

PROFIBUS

Approval ID: Z10443

PROFIsafe

Approval ID: Z20059

PROFINET

Approval ID: Z10443

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Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604
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UNSPSC

UNSPSC 21.0	32151600
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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	401981d7-2ae9-47ee-8722-e7b607efbd46

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