

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



2700651

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

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
---------------------	-------------------------

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
-------------------------------------------------	------------

Potentials

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

Potentials

Supply voltage	24 V DC
----------------	---------

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

2700651

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

Note on dimensions	Housing dimensions
--------------------	--------------------

Material specifications

Color	Steel/stainless steel color
-------	-----------------------------

Characteristics

Safety data: EN ISO 13849

Performance level (PL)	max. e
------------------------	--------

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)
------------------	---------------------------------------

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

2700651

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

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

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



2700651

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

Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604
-----------	----------

UNSPSC

UNSPSC 21.0	32151600
-------------	----------

2700651

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

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

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com