

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



2700651

<https://www.phoenixcontact.com/gb/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	DREBBD
Product key	DREBBD
Catalog page	Page 273 (C-6-2019)
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

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## Technical data

### Product properties

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

### System properties

#### PROFINET

Device function	PROFINET device
Specification	2.2
Conformance Class	B

### Electrical properties

#### Potentials

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

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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 <sub>pp</sub>
Protective circuit	Polarity protection, surge protection; 35 V DC

### Connection data

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

### Dimensions

Width	130 mm
Height	27 mm
Depth	145 mm
Note on dimensions	Housing dimensions

### Characteristics

Safety data: EN ISO 13849

Category	max. 4
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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
	DIN rail mounting


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## Approvals


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 **UL Listed**  
Approval ID: FILE E 140324

 **cUL Listed**  
Approval ID: FILE E 140324

**PROFIBUS**  
Approval ID: Z10443

**PROFIsafe**  
Approval ID: Z20059

 **Functional Safety**  
Approval ID: 968/EZ 650.04/20

 **Functional Safety**  
Approval ID: 968/EZ 650.04/20

**cULus Listed**

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## Classifications

### ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

### ETIM

ETIM 8.0	EC001604
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### UNSPSC

UNSPSC 21.0	32151600
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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

### FL PATCH SAFE CLIP - Port Guard Security Element

2891246

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Security element for FL patch cable

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### FL PATCH GUARD - Port Guard Security Element

2891424

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Lockable security element

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## FL PATCH GUARD KEY - Key

2891521

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Key for lockable security element



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