

# FL SWITCH SFNB 4TX/FX SM20 - Industrial Ethernet Switch



2891029

<https://www.phoenixcontact.com/us/products/2891029>

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.



Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, single mode fiberglass, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

## Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- Local diagnostic indicators with LEDs
- Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

Item number	2891029
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DN19
Product key	DNN113
GTIN	4046356588102
Weight per piece (including packing)	280.8 g
Weight per piece (excluding packing)	297.9 g
Customs tariff number	85176200
Country of origin	TW

# FL SWITCH SFNB 4TX/FX SM20 - Industrial Ethernet Switch



2891029

<https://www.phoenixcontact.com/us/products/2891029>

## Technical data

### Dimensions

Width	28 mm
Height	110 mm
Depth	70 mm

### Notes

Note on application

Note on application	Only for industrial use
---------------------	-------------------------

### Material specifications

Housing material	Aluminum
------------------	----------

### Mounting

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

### Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	4 (RJ45 ports)

Fiber optic interface

Connection method	SC
Transmission speed	100 Mbps (full duplex)
Transmission physics	Single-mode fiberglass
Transmission length	25 km (fiberglass with F-G 9/125 0.5 dB/km)
Wavelength	1310 nm
No. of channels	1 (SC single mode)

### Product properties

Product type	Switch
Product family	Unmanaged Switch SFNB
Type	Block design
MTTF	130.5 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Switch functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3,
-----------------	--

# FL SWITCH SFNB 4TX/FX SM20 - Industrial Ethernet Switch



2891029

<https://www.phoenixcontact.com/us/products/2891029>

	store and forward switching mode
Status and diagnostic indicators	LEDs: U <sub>S</sub> , link and activity per port
Additional functions	Autonegotiation

## Security functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
-----------------	---

## Electrical properties

Local diagnostics	US Supply voltage Green LED
	LNK/ACT Link status/data transmission Green LED
	100 Data transmission speed Yellow LED
Maximum power dissipation for nominal condition	4.2 W
Transmission medium	Copper

## Supply

Supply voltage (DC)	24 V DC
Supply voltage range	12 V DC ... 48 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	175 mA (at U <sub>S</sub> = 24 V DC)

## Connection data

Connection method	Screw connection
pluggable	yes
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	30 ... 12
Stripping length	7 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	86 kPa ... 108 kPa (up to 1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)

## Approvals

### Conformity/Approvals

UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D
------------------	------------------------------------

## EMC data

# FL SWITCH SFNB 4TX/FX SM20 - Industrial Ethernet Switch



2891029

<https://www.phoenixcontact.com/us/products/2891029>

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise immunity	EN 61000-6-2

## Noise emission

Standards/regulations	EN 61000-6-4
-----------------------	--------------

## System properties

### Functionality

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
-----------------	---

## Signaling

Status display	LEDs: U <sub>S</sub> , link and activity per port
----------------	---

# FL SWITCH SFNB 4TX/FX SM20 - Industrial Ethernet Switch



2891029

<https://www.phoenixcontact.com/us/products/2891029>

## Classifications

### ECLASS

ECLASS-13.0

19170402

### ETIM

ETIM 9.0

EC000734

### UNSPSC

UNSPSC 21.0

43222600

# FL SWITCH SFNB 4TX/FX SM20 - Industrial Ethernet Switch



2891029

<https://www.phoenixcontact.com/us/products/2891029>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15(a), 6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-10
	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	89d36862-0586-4d27-958c-7e10f8e88275

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](mailto:info@phoenixcon.com)