

FL SWITCH SFNB 5TX - Industrial Ethernet Switch



2891001

<https://www.phoenixcontact.com/us/products/2891001>

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, 5 TP RJ45 ports, 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
- Local diagnostic indicators with LEDs
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	2891001
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN113
GTIN	4046356457163
Weight per piece (including packing)	271 g
Weight per piece (excluding packing)	263 g
Customs tariff number	85176200
Country of origin	TW

FL SWITCH SFNB 5TX - Industrial Ethernet Switch



2891001

<https://www.phoenixcontact.com/us/products/2891001>

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	5 (RJ45 ports)

Product properties

Product type	Switch
Product family	Unmanaged Switch SFNB
Type	Block design
MTTF	173.5 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Switch functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
MAC address table	1k
Status and diagnostic indicators	LEDs: U _S , 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	4.44 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 ²
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Max. current consumption	345 mA (at 12 V DC)
Typical current consumption	185 mA (at U _S = 24 V DC)

Connection data

Connection method	Screw connection
pluggable	yes
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	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

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion B
	IEC 61000-4-5 (surge) Criterion B

FL SWITCH SFNB 5TX - Industrial Ethernet Switch



2891001

<https://www.phoenixcontact.com/us/products/2891001>

	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-4-8 (immunity to magnetic fields) Criterion A
	EN 55022 (emitted interference) Criterion A
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 _S , link and activity per port
----------------	---

FL SWITCH SFNB 5TX - Industrial Ethernet Switch



2891001

<https://www.phoenixcontact.com/us/products/2891001>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2891001>



IECEE CB Scheme

Approval ID: DK-88783-M1-UL



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705



KC

Approval ID: KCC-REI-PCK-FL289100



cUL Listed

Approval ID: E199827



UL Listed

Approval ID: E199827

FL SWITCH SFNB 5TX - Industrial Ethernet Switch



2891001

<https://www.phoenixcontact.com/us/products/2891001>

Classifications

ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

ETIM

ETIM 10.0	EC000734
-----------	----------

UNSPSC

UNSPSC 21.0	43222600
-------------	----------

2891001

<https://www.phoenixcontact.com/us/products/2891001>

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	d7fb5d8e-21b7-48b1-8d08-ce67c6815f60

EF3.1 Climate Change

CO2e kg	11.27 kg CO2e
---------	---------------

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