

FL SWITCH SFNB 4TX/FX - Industrial Ethernet Switch



2891027

<https://www.phoenixcontact.com/us/products/2891027>

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Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, 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	2891027
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN19
Product key	DNN113
Catalog page	Page 289 (C-6-2019)
GTIN	4046356588089
Weight per piece (including packing)	276.2 g
Weight per piece (excluding packing)	270 g
Customs tariff number	85176200
Country of origin	TW

Technical data

Dimensions

Width	28 mm
Height	110 mm
Depth	70 mm

Material specifications

Housing material	Aluminum
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Mounting

Mounting type	DIN rail mounting
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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	multi-mode fiberglass
Transmission length	12.1 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)
Wavelength	1300 nm
No. of channels	1 (SC multi-mode)

Product properties

Type	Block design
Product type	Switch
Product family	Unmanaged Switch SFNB
MTTF	144.5 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
Status and diagnostic indicators	LEDs: U _S , link and activity per port
Additional functions	Autonegotiation

Security functions

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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)
Typical current consumption	185 mA (at U _S = 24 V DC)

Connection data

Connection method	Screw 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	30 ... 12
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °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
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EMC data

Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4

System properties

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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

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