

FL SWITCH SFNB 5TX-PNE - Industrial Ethernet Switch

1071801
<https://www.phoenixcontact.com/nl/products/1071801>

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Ethernet switch, five TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function. The multicast filter will block PROFINET PTCP-Delay traffic. EtherNet/IP™-based traffic will be prioritized over standard traffic.

Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- QoS-prioritized (Quality of Service) messages
- Local diagnostic indicators with LEDs
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	1071801
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN113
Product key	DNN113
GTIN	4055626752792
Weight per piece (including packing)	277,3 g
Weight per piece (excluding packing)	277,3 g
Customs tariff number	85176200
Country of origin	TW

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Technical data

Dimensions

Width	28 mm
Height	110 mm
Depth	70 mm

Notes

Note on application

Note on application	Only for industrial use
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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	5 (RJ45 ports)

Product properties

Product family	Unmanaged Switch SFNB
Type	Block design
MTTF	360.5 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Switch functions

EtherNet/IP™ supported protocols	EtherNet/IP™
Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
PROFINET conformance class	Conformance Class A
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
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Electrical properties

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

Power supply

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	24 ... 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)

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
	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

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Standards/regulations	EN 61000-6-4
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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
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Classifications

ECLASS

ECLASS-13.0	19170402
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ETIM

ETIM 9.0	EC000734
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UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

EU RoHS

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

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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