

FL SWITCH SFNB 4TX/FX ST - Industrial Ethernet Switch



2891028

<https://www.phoenixcontact.com/us/products/2891028>

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Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST-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 | 2891028 |
| Packing unit | 1 pc |
| Sales key | DN19 |
| Product key | DNN113 |
| GTIN | 4046356588096 |
| Weight per piece (including packing) | 275.2 g |
| Weight per piece (excluding packing) | 270 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 |

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 | ST |
| 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 (ST multi-mode) |

Product properties

| | |
|----------------|------------------------------------------------------------------------------|
| Product type | Switch |
| Product family | Unmanaged Switch SFNB |
| Type | Block design |
| 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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| | |
|-----------------|-------------------------------------------------------------------------------------------------|
| 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 ² |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Typical current consumption | 175 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 |
| Noise immunity | EN 61000-6-2 |

Noise emission

| | |
|-----------------------|--------------|
| 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

ETIM

ETIM 9.0

EC000734

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 |

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) |
|-------------------------------------|----------------------|

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