

# FL SWITCH SFN 4TX/FX ST - Industrial Ethernet Switch



2891453

<https://www.phoenixcontact.com/us/products/2891453>

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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
- QoS-prioritized (Quality of Service) messages
- Local diagnostic indicators with LEDs
- The switch also offers cable locking and port blocking
- Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2891453       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN19          |
| Product key                          | DNN113        |
| GTIN                                 | 4046356100816 |
| Weight per piece (including packing) | 417.1 g       |
| Weight per piece (excluding packing) | 265 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | TW            |

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## Technical data

### Dimensions

|        |        |
|--------|--------|
| Width  | 30 mm  |
| Height | 131 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    | ST   |
| Transmission speed   | 100 Mbps (full duplex)                                     |
| Transmission physics | multi-mode fiberglass                                      |
| Transmission length  | 2000 m (Fiberglass 50/125)<br>2000 m (Fiberglass 62.5/125) |
| Wavelength           | 1300 nm  |
| No. of channels      | 1 (ST multi-mode)  |

### Product properties

|                |  |
|----------------|--|
| Product type   | Switch   |
| Product family | Unmanaged Switch SFN   |
| Type           | Block design   |
| MTTF           | 193 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

### Insulation characteristics

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|                                  |   |
|----------------------------------|---|
| Protection class                 | III (IEC 61140, EN 61140, VDE 0140-1)   |
| Switch functions                 |   |
| Basic functions                  | Unmanaged switch / auto negotiation, complies with IEEE 802.3, 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 | 3.36 W  |
| Test section                                    | 500 V DC 1 min                                  |
| Transmission medium                             | Copper  |
|   | FO  |

## Supply

|                             |  |
|-----------------------------|--|
| Supply voltage (DC)         | 24 V DC  |
| Supply voltage range        | 9 V DC ... 32 V DC                                       |
| Residual ripple             | 3.6 V <sub>pp</sub> (within the permitted voltage range) |
| Typical current consumption | 140 mA (at U <sub>S</sub> = 24 V DC)                     |

## Connection data

### Power supply

|                                   |   |
|-----------------------------------|---|
| 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       | 24 ... 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 ... 70 °C                                  |
| Permissible humidity (operation)         | 5 % ... 95 % (non-condensing)                     |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)                     |
| Vibration (operation)                    | in acc. with IEC 60068-2-6: 5g, 150 Hz            |
| Air pressure (operation)                 | 86 kPa ... 108 kPa (up to 1500 m above sea level) |

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|  |   |
|--|---|
| Air pressure (storage/transport)   | 66 kPa ... 108 kPa (up to 3500 m above sea level)   |
| Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37 | Sulfur dioxide (SO <sub>2</sub> ) 10 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , hydrogen sulfide (H <sub>2</sub> S) 1 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , at 25°C and 75% humidity and exposure of four days |

## EMC data

|                               |  |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise immunity                | EN 61000-6-2:2005                          |

## 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 |
|----------------|---|

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## Classifications

### ECLASS

ECLASS-13.0

19170402

### 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                               | 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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