

# FL SWITCH SF 4TX/3FX ST - Industrial Ethernet Switch



2832603

<https://www.phoenixcontact.com/us/products/2832603>

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Ethernet switch, 4 TP RJ45 ports, 3 FO ports, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), auto crossing function

## Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- Relay contact for alarm processing of voltage states
- Security options with cable locking
- Local diagnostic indicators with LEDs
- Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2832603       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN19          |
| Product key                          | DNN112        |
| GTIN                                 | 4046356044097 |
| Weight per piece (including packing) | 430.3 g       |
| Weight per piece (excluding packing) | 265 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | TW            |

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## Technical data

### Dimensions

|        |          |
|--------|----------|
| Width  | 135 mm   |
| Height | 115.3 mm |
| Depth  | 30 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  | 6400 m (fiberglass with F-G 50/125 0.7 dB/km F1200) |
| Wavelength           | 1300 nm   |
| No. of channels      | 3 (ST multi-mode)                                   |

#### Potential-free signaling contact

|                   |                                       |
|-------------------|---------------------------------------|
| Connection method | Plug-in/screw connection via COMBICON |
|-------------------|---------------------------------------|

### Product properties

|                |  |
|----------------|--|
| Product type   | Switch   |
| Product family | Unmanaged Switch SF                                    |
| Type           | Block design   |
| MTTF           | 100.7 Years (MIL-HDBK-217F standard, temperature 25°C) |

#### Insulation characteristics

|                  |                                       |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

#### Switch functions

|                 |  |
|-----------------|--|
| Basic functions | Unmanaged switch / auto negotiation, complies with IEEE 802.3, |
|-----------------|--|

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|                                  |   |
|----------------------------------|---|
|                                  | store and forward switching mode  |
| Status and diagnostic indicators | LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), 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                               | US1/2 Supply voltage Green LED                  |
|   | LNK/ACT Link status/data transmission Green LED |
|   | 100 Data transmission speed Yellow LED          |
| Maximum power dissipation for nominal condition | 5.76 W  |
| Test section                                    | 500 V DC 1 min                                  |
| Transmission medium                             | Copper  |
|   | FO  |

## Supply

|                             |  |
|-----------------------------|--|
| Supply voltage (DC)         | 24 V DC (redundant)  |
| Supply voltage range        | 18.5 V DC ... 30.2 V DC  |
| Power supply connection     | Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup> |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range)       |
| Typical current consumption | 240 mA (at U <sub>S</sub> = 24 V DC)                           |

## Connection data

|                                   |   |
|-----------------------------------|---|
| Connection method                 | Screw connection                            |
| 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 ... 55 °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)  |
| 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 |

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## 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 61000-6-2 IEC 61000-4-3 (immunity to radiated interference) Criterion A  |
|                                 | IEC 61000-6-2 IEC 61000-4-4 (burst) Criterion A                              |
|                                 | IEC 61000-6-2 IEC 61000-4-5 (surge) Criterion A                              |
|                                 | IEC 61000-6-2 IEC 61000-4-6 (immunity to conducted interference) Criterion A |
|                                 | IEC 61000-6-2 IEC 61000-4-8 (immunity to magnetic fields) Criterion A        |
| Noise immunity                  | IEC 61000-6-2 EN 55022 (emitted interference) Criterion A                    |
|                                 | 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>S1</sub> , U <sub>S2</sub> (redundant voltage supply), 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                               | 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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