# FL SWITCH SFN 7TX/FX ST - Industrial Ethernet Switch

2891110

https://www.phoenixcontact.com/us/products/2891110

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Ethernet Switch, 7 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

- QoS-prioritized (Quality of Service) messages
- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- 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 | 2891110 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DN19 |
| Product key | DNN113 |
| GTIN | 4046356100847 |
| Weight per piece (including packing) | 501 g |
| Weight per piece (excluding packing) | 365 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |

## Technical data

### Dimensions

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|---|---|
| Width | 50 mm |
| Height | 120 mm |
| Depth | 70 mm |

### Material specifications

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|---|---|
| Housing material | Aluminum |

### Mounting

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|---|---|
| Mounting type | DIN rail mounting |

### Interfaces

Ethernet (RJ45)

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|---|---|
| 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 | 7 (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) |
| | 2000 m (Fiberglass 62.5/125) |
| Wavelength | 1300 nm |
| No. of channels | 1 (ST multi-mode) |

### Product properties

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|---|---|
| Product type | Switch |
| Product family | Unmanaged Switch SFN |
| Type | Block design |
| MTTF | 67.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

Insulation characteristics

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

Switch functions

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|---|---|
| Status and diagnostic indicators | LEDs: $U_S$, link and activity per port |
| Basic functions | Unmanaged switch / auto negotiation, complies with IEEE 802.3, |

| | |
|---|---|
| | store and forward switching mode |
| Additional functions | Autonegotiation |

## 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 | 4.56 W |
| Test section | 500 V DC 1 min |
| Transmission medium | Copper |
| | FO |

Supply

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|---|---|
| Supply voltage (DC) | 24 V DC |
| Supply voltage range | 9 V DC ... 32 V DC |
| Power supply connection | Via COMBICON, max. conductor cross-section 2.5 mm² |
| Residual ripple | 3.6 $V_{PP}$ (within the permitted voltage range) |
| Typical current consumption | 190 mA (at $U_S$ = 24 V DC) |
| Ground connection | Via DIN rail |

## Connection data

Power supply

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|---|---|
| Connection method | Pluggable COMBICON screw connections |
| Conductor cross-section, rigid | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section, flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG | 24 ... 12 |
| Stripping length | 7 mm |

## Environmental and real-life conditions

Ambient conditions

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|---|---|
| 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) |
| 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 ($SO_2$) 10 ±0.3 $cm^3/m^3$, hydrogen sulfide ($H_2S$) 1 ±0.3 $cm^3/m^3$, at 25°C and 75% humidity and exposure of four days |

## Standards and regulations

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|---|---|
| Free from substances that could impair the application of coating | In acc. with VW specification |

## EMC data

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|---|---|
| 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 61000-6-2:2005 |

Noise emission

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|---|---|
| Standards/regulations | EN 61000-6-4 |

## Signaling

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|---|---|
| Status display | LEDs: $U_S$, link and activity per port |

## Classifications

### ETIM

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|---|---|
| ETIM 9.0 | EC000734 |

### UNSPSC

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| UNSPSC 21.0 | 43222600 |

## Environmental product compliance

EU RoHS

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

China RoHS

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|---|---|
| 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

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

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