

FL SWITCH SF 6TX/2FX ST - Industrial Ethernet Switch



2832674

<https://www.phoenixcontact.com/us/products/2832674>

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Ethernet switch, 6 TP RJ45 ports, 2 FO ports, 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
- Relay contact for alarm processing of voltage states
- Security options with cable locking
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2832674 |
| Packing unit | 1 pc |
| Sales key | DN19 |
| Product key | DNN112 |
| Catalog page | Page 299 (C-6-2019) |
| GTIN | 4046356044134 |
| Weight per piece (including packing) | 445 g |
| Weight per piece (excluding packing) | 261 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 | 6 (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 | 2 (ST multi-mode) |

Potential-free signaling contact

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

Product properties

| | |
|----------------|---|
| Type | Block design |
| Product type | Switch |
| Product family | Unmanaged Switch SF |
| MTTF | 47.1 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 _{S1} , U _{S2} (redundant voltage supply), link and activity per port |
| Supported browsers | Internet Explorer 5.5 or higher |
| 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 ² |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Typical current consumption | 240 mA (at U _S = 24 V DC) |

Connection data

| | |
|-----------------------------------|---|
| Connection method | Screw connection |
| 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) | 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 ₂) 10 ±0.3 cm ³ /m ³ , hydrogen sulfide (H ₂ S) 1 ±0.3 cm ³ /m ³ , at 25°C and 75% humidity and exposure of four days |

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EMC data

| | |
|---------------------------------|--|
| 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 |
| | IEC 61000-6-2 EN 55022 (emitted interference) Criterion A |
| Noise immunity | EN 61000-6-2:2005 |
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise emission | EN 61000-6-4 |

System properties

Functionality

| | |
|-----------------|---|
| Basic functions | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode |
|-----------------|---|

System requirements

| | |
|--------------------|---------------------------------|
| Supported browsers | Internet Explorer 5.5 or higher |
|--------------------|---------------------------------|

Signaling

| | |
|----------------|--|
| Status display | LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port |
|----------------|--|

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