

FL SWITCH SFNT 6TX/2FX-C - Industrial Ethernet Switch



2891048

<https://www.phoenixcontact.com/us/products/2891048>

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Wide-temperature Ethernet switch, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, autocrossing function, reads QoS priority messages, accepts security frames. Conformal coating for harsh environments.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2891048 |
| Packing unit | 1 pc |
| Sales key | DN19 |
| Product key | DNN113 |
| GTIN | 4046356651134 |
| Weight per piece (including packing) | 650 g |
| Weight per piece (excluding packing) | 659 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |

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Technical data

Dimensions

| | |
|--------|--------|
| Width | 50 mm |
| Height | 130 mm |
| Depth | 100 mm |

Notes

Utilization restriction

| | |
|------------|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---|

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 | SC |
| 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) 3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600) 7.1 km (fiberglass with F-G 50/125 0.7 dB/km F1200) 3.1 km (fiberglass with F-G 50/125 1.6 dB/km F800) |
| Wavelength | 1300 nm |
| No. of channels | 2 (SC multi-mode) |

Product properties

| | |
|----------------|---|
| Product type | Switch |
| Product family | Unmanaged Switch SFNT |
| Type | Block design |
| MTTF | 53.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

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Switch functions

| | |
|----------------------------------|--|
| Basic functions | Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact |
| Status and diagnostic indicators | LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port |
| Additional functions | Autonegotiation |

Security functions

| | |
|-----------------|--|
| Basic functions | Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact |
|-----------------|--|

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 | 6 W |
| Transmission medium | Copper |
| | FO |

Supply

| | |
|-----------------------------|--|
| Supply voltage (DC) | 24 V DC (redundant) |
| Supply voltage range | 9 V DC ... 32 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 | 250 mA (at U _S = 24 V DC) |

Connection data

| | |
|-----------------------------------|---|
| Conductor cross-section, rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section, flexible | 2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 14 |
| Stripping length | 7 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 75 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Air pressure (operation) | 62 kPa ... 108 kPa (up to 4160 m above mean sea level) |
| Air pressure (storage/transport) | 62 kPa ... 108 kPa (up to 4160 m above mean sea level) |

Approvals

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Conformity/Approvals

| | |
|---------------------------------|------------------------------------|
| Conformance | CE-compliant |
| ATEX | Ⓜ II 3 G Ex nA nC IIC T4 Gc |
| EU-type examination certificate | DEMKO 16 ATEX 1617X |
| IECEX | Ex nA nC IIC T4 Gc |
| IECEX certificate | IECEX UL 16.0093X |
| 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 |
|-----------------------|--------------|

System properties

Functionality

| | |
|-----------------|--|
| Basic functions | Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact |
|-----------------|--|

Signaling

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

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Classifications

UNSPSC

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