

FL SWITCH SFNT 5TX-C - Industrial Ethernet Switch



2891043

<https://www.phoenixcontact.com/us/products/2891043>

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Wide-temperature Ethernet switch, 5 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames. Conformal coating for harsh environments.

One port is located on the bottom

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2891043 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN19 |
| Product key | DNN113 |
| GTIN | 4046356651080 |
| Weight per piece (including packing) | 496.2 g |
| Weight per piece (excluding packing) | 275 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 30 mm |
| Height | 130 mm |
| Depth | 100 mm |

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Utilization restriction

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

Material specifications

| | |
|------------------|----------|
| 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 |
| No. of channels | 5 (RJ45 ports) |

Product properties

| | |
|----------------|--|
| Product type | Switch |
| Product family | Unmanaged Switch SFNT |
| Type | Block design |
| MTTF | 118.2 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

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 | 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 W |
| Transmission medium | Copper |

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) |
| Max. current consumption | 345 mA (@9 V DC) |
| Typical current consumption | 125 mA (at U _S = 24 V DC) |

Connection data

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|-----------------------------------|---|
| 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 ... 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

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

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| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
|-------------------------------|--|

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| | |
|----------------|--------------|
| Noise immunity | EN 61000-6-2 |
|----------------|--------------|

Noise emission

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

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

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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

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

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com