

# FL SWITCH SFNT 14TX/2FX - Industrial Ethernet Switch



2891954

<https://www.phoenixcontact.com/us/products/2891954>

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Wide temperature Ethernet switch, 14 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function. Two FO ports in SC format.

## Product description

Standard function Ethernet switch with 14 RJ45 ports and 2 SC-D fiber optic ports for extreme environments (-40°C ... +75°C). Provides automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, 12 V DC ... 48 V DC input voltage, redundant power supply capable with remote alarming.

## Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- 16 ports in a narrow metal housing with redundant input voltage
- Security options with cable locking
- Local diagnostic indicators with LEDs
- Devices are available for the standard temperature range (0 °C ... 60 °C) and wide temperature range (-40 °C ... 75 °C)
- Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2891954                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DN19                           |
| Product key                          | DNN113                         |
| GTIN                                 | 4046356551632                  |
| Weight per piece (including packing) | 1,191.2 g                      |
| Weight per piece (excluding packing) | 1,175.2 g                      |
| Customs tariff number                | 85176200                       |
| Country of origin                    | TW                             |

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## Technical data

### Dimensions

|        |        |
|--------|--------|
| Width  | 70 mm  |
| Height | 135 mm |
| Depth  | 110 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               | 14 (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)<br>7.1 km (fiberglass with F-G 50/125 0.7 dB/km F1200) |
| Wavelength           | 1300 nm                                                                                                       |
| No. of channels      | 2 (SC multi-mode)                                                                                             |

### Product properties

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Product type   | Switch                                                                      |
| Product family | Unmanaged Switch SFNT                                                       |
| Type           | Block design                                                                |
| MTTF           | 39.8 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

#### Insulation characteristics

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|                                  |                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Protection class                 | III (VDE 0106, IEC 60536)                                                                                                |
| Switch functions                 |                                                                                                                          |
| Basic functions                  | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store-and-forward switching mode, includes alarm contacts |
| 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, includes alarm contacts |

## 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 | 8.4 W                                           |
| Test section                                    | 500 V DC 1 min                                  |
| Transmission medium                             | Copper                                          |
|                                                 | FO                                              |

## Supply

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| Supply voltage (DC)         | 24 V DC (redundant)                                            |
| Supply voltage range        | 12 V DC ... 48 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)       |
| Max. current consumption    | 700 mA (at 12 V DC)                                            |
| Typical current consumption | 350 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       | 30 ... 12                                   |
| 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)          |
| Shock                                    | 25g, in accordance with IEC 60068-2-27 |
| Vibration (operation)                    | in acc. with IEC 60068-2-6: 5g, 150 Hz |

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

|                                 |                                            |
|---------------------------------|--------------------------------------------|
| Electromagnetic compatibility   | Conformance with EMC Directive 2004/108/EC |
| Conformance with EMC directives | IEC 61000-6-2                              |
| Noise immunity                  | EN 61000-6-2                               |

### 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, includes alarm contacts |
|-----------------|--------------------------------------------------------------------------------------------------------------------------|

## 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

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43222600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                           |
|-----------------------------------------|---------------------------|
| Fulfills EU RoHS substance requirements | Yes                       |
| Exemption                               | 15(a), 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)                 |
| SCIP                                | 667acaa9-3e2b-41b8-9919-7bde9f0b2cdd |

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