# FL SWITCH SFN 8TX - Industrial Ethernet Switch

2891929

https://www.phoenixcontact.com/us/products/2891929

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function

## Product description

Standard function Ethernet switch with eight RJ45 ports. Provides automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, 9 V DC ... 32 V DC input voltage, redundant power supply capable with remote alarming.

## Your advantages

- QoS-prioritized (Quality of Service) messages
- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- The switch also offers cable locking and port blocking
- Local diagnostic indicators with LEDs
- Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

| | |
|---|---|
| Item number | 2891929 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN19 |
| Product key | DNN113 |
| GTIN | 4046356100823 |
| Weight per piece (including packing) | 491.5 g |
| Weight per piece (excluding packing) | 490 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |

# Technical data

## Dimensions

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

## Notes

Note on application

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

## 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 |
| No. of channels | 8 (RJ45 ports) |

## Product properties

| | |
|---|---|
| Product type | Switch |
| Product family | Unmanaged Switch SFN |
| Type | Block design |
| MTTF | 67.4 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

| | |
|---|---|
| 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 | 3.36 W |
| Test section | 500 V DC 1 min |
| Transmission medium | Copper |

Supply

| | |
|---|---|
| Supply voltage (DC) | 24 V DC |
| Supply voltage range | 9 V DC ... 32 V DC |
| Residual ripple | 3.6 $V_{PP}$ (within the permitted voltage range) |
| Typical current consumption | 48 mA (at $U_S$ = 24 V DC) |

## Connection data

| | |
|---|---|
| Connection method | Screw connection |
| 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

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

## EMC data

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise immunity | EN 61000-6-2:2005 |

Noise emission

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

## Signaling

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

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2891929

**KC**
Approval ID: KCC-REI-PCK- FL28919

**cULus Listed**
Approval ID: E238705

**cUL Listed**
Approval ID: FILE E 196811

**UL Listed**
Approval ID: FILE E 196811

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 19170402 |
| ECLASS-15.0 | 19170402 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000734 |

### UNSPSC

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

## 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) |
| SCIP | c8fd0b4d-9c33-460d-afb7-d98894bb4ab6 |

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

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