

FL SWITCH SFN 14TX/2FX - Industrial Ethernet Switch



2891935

<https://www.phoenixcontact.com/us/products/2891935>

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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. 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 | 2891935 |
| Packing unit | 1 pc |
| Sales key | DN19 |
| Product key | DNN113 |
| GTIN | 4046356551601 |
| Weight per piece (including packing) | 1,055.1 g |
| Weight per piece (excluding packing) | 870 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 |

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) 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 SFN |
| Type | Block design |
| MTTF | 32.8 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

Insulation characteristics

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

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| | |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 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 / 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 ² |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Max. current consumption | 700 mA (at 12 V DC) |
| Typical current consumption | 245 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 | 30 ... 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) | -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 |
| 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) |

Approvals

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Conformity/Approvals

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

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Classifications

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

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