

FL SWITCH SFN 6GT/2LX - Industrial Ethernet Switch



2891987

<https://www.phoenixcontact.com/us/products/2891987>

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Ethernet switch, 6 RJ45 ports, 10/100/1000 Mbps on all RJ45 ports, 2 single mode SC-D ports with high range, 1 Gbps full duplex, auto negotiation (RJ45), autocrossing function, with signal contact and QoS, extended temperature range

Your advantages

- Jumbo frame support (frame size up to 9600 bytes/frame)
- All ports offer transmission speeds of 1000 Mbps
- Local diagnostic indicators with LEDs
- Relay contact for alarm processing of voltage states
- The switch also offers cable locking and port blocking
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2891987 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN19 |
| Product key | DNN113 |
| GTIN | 4046356101202 |
| Weight per piece (including packing) | 478.5 g |
| Weight per piece (excluding packing) | 435 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 50 mm |
| Height | 120 mm |
| Depth | 70 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 | 10/100/1000 Mbps |
| Transmission physics | Ethernet in RJ45 twisted pair |
| No. of channels | 6 (RJ45 ports) |

Fiber optic interface

| | |
|----------------------|----------------------------|
| Connection method | SC |
| Transmission speed | 1000 Mbps (full duplex) |
| Transmission physics | Single-mode fiberglass |
| Transmission length | 10000 m (Fiberglass 9/125) |
| Wavelength | 1310 nm |
| No. of channels | 2 (SC single mode) |

Potential-free signaling contact

| | |
|-------------------|---------------------------------------|
| Connection method | Plug-in/screw connection via COMBICON |
|-------------------|---------------------------------------|

Product properties

| | |
|----------------|---|
| Product type | Switch |
| Product family | Unmanaged Switch SFN |
| Type | Block design |
| MTTF | 24.3 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

| | |
|--------------------------------|---|
| Basic functions | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode |
| Signal contact control voltage | Monitoring of the redundant supply voltage |

| | |
|----------------------------------|--|
| PROFINET conformance class | Conformance Class A |
| Status and diagnostic indicators | LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port |
| Additional functions | Autonegotiation |
| | Jumbo frames (max. 9,600 bytes) |

Security functions

| | |
|-----------------|---|
| Basic functions | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode |
|-----------------|---|

Electrical properties

| | |
|---|---|
| Local diagnostics | US1/2 Supply voltage Green LED |
| | 100/ACT Link status/data transmission Yellow LED |
| | 1000/ACT Link status/data transmission 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 | 9 V DC ... 32 V DC |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Typical current consumption | 360 mA (at U _S = 24 V DC) |

Function

| | |
|--------------------------------|--|
| Signal contact control voltage | Monitoring of the redundant supply voltage |
|--------------------------------|--|

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 | 24 ... 14 |
| Stripping length | 7 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 75 °C |
| Ambient temperature (storage/transport) | -35 °C ... 85 °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) |

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Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37

Sulfur dioxide (SO₂) 10 ±0.3 cm³/m³, hydrogen sulfide (H₂S) 1 ±0.3 cm³/m³, 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

System properties

Functionality

Basic functions

Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode

Signaling

Status display

LEDs: U_{S1}, U_{S2} (redundant voltage supply), link and activity per port

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43222612 |
|-------------|----------|

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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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