

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

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Wide-temperature Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

Why buy this product

- Local diagnostic indicators with LEDs
- Alarm contact for power supply and link status diagnostics
- The switch also offers cable locking and port blocking
- QoS-prioritized (Quality of Service) messages
- Wide operating temperature range (-40°C ... +75°C)
- RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps

Ethernet

Key Commercial Data

| | |
|--------------|---------------------|
| Packing unit | 1 STK |
| GTIN | 4 046356 457194 |

Technical data

Dimensions

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

Ambient conditions

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|--|--|
| 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) |

Interfaces

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Interfaces

| | |
|---------------------------|--|
| Interface 1 | Ethernet (RJ45) |
| No. of ports | 4 (RJ45 ports) |
| Connection method | RJ45 |
| Note on connection method | Auto negotiation and autocrossing |
| Transmission physics | Ethernet in RJ45 twisted pair |
| Transmission speed | 10/100 MBit/s |
| Interface 2 | Fiber optic interface |
| No. of ports | 1 (SC multi-mode) |
| Connection method | SC |
| Transmission physics | multi-mode fiberglass |
| Transmission speed | 100 MBit/s (full duplex) |
| Transmission length | 12.1 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000) |
| | 3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600) |
| | 7.1 km (fiberglass with F-G 50/125 0.7 dB/km F1200) |
| | 3.1 km (fiberglass with F-G 50/125 1.6 dB/km F800) |
| Wavelength | 1300 nm |

Function

| | |
|----------------------------------|--|
| 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, alarm (power and link down) |

Network expansion parameters

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|---|--|
| Cascading depth | Network, linear, and star structure: any |
| Maximum conductor length (twisted pair) | 100 m |

Supply voltage

| | |
|-----------------------------|--|
| Supply voltage | 24 V DC (redundant) |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Supply voltage range | 9 V DC ... 32 V DC |
| Typical current consumption | 180 mA (at U _S = 24 V DC) |
| Max. current consumption | 565 mA (@9 V DC) |

General

| | |
|------------------|--------------|
| Mounting type | DIN rail |
| Type AX | Block design |
| Net weight | 280 g |
| Housing material | Aluminum |

Standards and Regulations

| | |
|-------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Test section | Supply voltage/functional earth ground 500 V 1 min. |
| Noise emission | EN 61000-6-4 |

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Standards and Regulations

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

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250501 |
| eCl@ss 4.1 | 27250501 |
| eCl@ss 5.0 | 19030117 |
| eCl@ss 5.1 | 19030117 |
| eCl@ss 6.0 | 19170106 |
| eCl@ss 7.0 | 19170106 |
| eCl@ss 8.0 | 19170106 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000734 |
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172901 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201410 |
| UNSPSC 13.2 | 43201410 |

Approvals

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LR / GL / DNV / ABS / GL-SW / BSH / UL Listed / cUL Listed / EAC / BV / GL / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

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