

# FL SWITCH SFN 4TX/FX - Industrial Ethernet Switch



2891851

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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 or 100 Mbps (RJ45), autocrossing function

## Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- QoS-prioritized (Quality of Service) messages
- 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	2891851
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN113
GTIN	4046356100809
Weight per piece (including packing)	410.4 g
Weight per piece (excluding packing)	265 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	30 mm
Height	120 mm
Depth	70 mm

### Notes

Note on application

Note on application	Only for industrial use
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### Material specifications

Housing material	Aluminum
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### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet (RJ45)

Number of interfaces	4
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	4 (RJ45 ports)

#### Fiber optic interface

Number of interfaces	1
Connection method	SC
Transmission speed	100 Mbps (full duplex)
Transmission physics	multi-mode fiberglass
Transmission length	2000 m (Fiberglass 50/125) 2000 m (Fiberglass 62.5/125)
Wavelength	1300 nm
No. of channels	1 (SC multi-mode)

### Product properties

Product type	Switch
Product family	Unmanaged Switch SFN
Type	Block design
MTTF	193 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

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## Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Switch functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
Status and diagnostic indicators	LEDs: U <sub>S</sub> , 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
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## 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
	FO

## Supply

Supply voltage (DC)	24 V DC
Supply voltage range	9 V DC ... 32 V DC
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	140 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	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)

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

Sulfur dioxide (SO<sub>2</sub>) 10 ±0.3 cm<sup>3</sup>/m<sup>3</sup>, hydrogen sulfide (H<sub>2</sub>S) 1 ±0.3 cm<sup>3</sup>/m<sup>3</sup>, 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<sub>S</sub>, link and activity per port

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## Classifications

### ECLASS

ECLASS-13.0

19170402

### 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)
SCIP	adb0768e-6621-40eb-9d15-4c5c82063e44

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