

# Industrial Ethernet Switch - FL SWITCH SFNB 4TX/FX SM20 - 2891029

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Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, single mode fiberglass, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

## Why buy this product

- Auto negotiation and autocrossing detection simplifies installation and setup
- Local diagnostic indicators with LEDs
- 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 588102

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	28 mm
Height	110 mm
Depth	70 mm

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	86 kPa ... 108 kPa (up to 1500 m above mean sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above mean sea level)

#### Interfaces

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## Technical data

### Interfaces

Interface 1	Ethernet (RJ45)
No. of ports	4 (RJ45 ports)
Connection method	RJ45
Transmission physics	Ethernet in RJ45 twisted pair
Transmission speed	10/100 MBit/s
No. of ports	1 (SC single mode)
Connection method	SC
Transmission physics	Single-mode fiberglass
Transmission speed	100 MBit/s (full duplex)
Transmission length	25 km (fiberglass with F-G 9/125 0.5 dB/km)
Wavelength	1300 nm

### Function

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

### Network expansion parameters

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

### Supply voltage

Supply voltage	24 V DC
Residual ripple	3.6 V <sub>pp</sub> (within the permitted voltage range)
Supply voltage range	12 V DC ... 48 V DC
Typical current consumption	175 mA (at U <sub>S</sub> = 24 V DC)

### General

Mounting type	DIN rail
Type AX	Block design
Net weight	295 g
Housing material	Aluminum

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2

## Classifications

### eCl@ss

eCl@ss 4.0	27250501
eCl@ss 4.1	27250501
eCl@ss 5.0	19030117

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## Classifications

### eCl@ss

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

### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / EAC / cULus Listed

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#### Ex Approvals

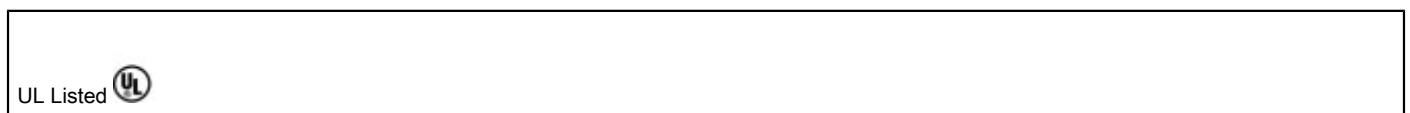
UL Listed / cUL Listed / UL Listed / cUL Listed / UL Listed / cUL Listed / cULus Listed

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#### Approvals submitted

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### Approval details



## Industrial Ethernet Switch - FL SWITCH SFNB 4TX/FX SM20 - 2891029

### Approvals

EAC

EAC

cULus Listed 

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