

## Industrial Ethernet Switch - FL SWITCH SFN 15TX/FX - 2891934

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Ethernet switch, 15 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function. One FO port in SC format.

### Product Description

Standard function Ethernet switch with 15 RJ45 ports and 1 SC-D fiber optic port. 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.

### Product Features

- Devices are available for standard temperature range (0°C ... +60°C) and wide temperature range (-40°C ... +75°C)
- 16 ports in narrow metal housing with redundant input voltage
- Auto negotiation and autocrossing detection simplifies installation and setup
- Local diagnostic indicators with LEDs
- Security options with cable locking
- RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	1260.0 g
Custom tariff number	85176200
Country of origin	Taiwan

### Technical data

#### Dimensions

Width	70 mm
Height	135 mm
Depth	110 mm

#### Ambient conditions

Degree of protection	IP20
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## Technical data

### Ambient conditions

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)
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

Interface 1	Ethernet (RJ45)
No. of ports	15 (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
Transmission length	100 m (per segment)
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)
	7.1 km (fiberglass with F-G 50/125 0.7 dB/km F1200)
Wavelength	1300 nm

### Function

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store-and-forward switching mode, includes alarm contacts
Status and diagnostic indicators	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port, voltage alarm

### 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 (redundant)
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	350 mA (at U <sub>S</sub> = 24 V DC)
Max. current consumption	700 mA (at 12 V DC)

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## Technical data

### General

Mounting type	DIN rail
Type AX	Block design
Net weight	870 g
Housing material	Aluminum

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Developed in acc. with standard	IEC 61000-6.2
Test section	500 V DC 1 min.
Shock	25g, in accordance with IEC 60068-2-27
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Vibration (operation)	In acc. with IEC 60068-2-6: 5g, 150 Hz

## Classifications

### eCl@ss

eCl@ss 4.0	24010504
eCl@ss 4.1	24010504
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 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43201410

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## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / cULus Listed

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#### Ex Approvals


UL Listed / cUL Listed / cULus Listed


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#### Approvals submitted

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### Approval details

UL Listed 

cUL Listed 

cULus Listed 

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