

# Industrial Ethernet Switch - FL SWITCH SFN 16TX - 2891933

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Ethernet switch, 16 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

## Product description


Standard function Ethernet switch with 16 RJ45 ports. 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.

## Why buy this product

- ✓ 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
- ✓ Security options with cable locking
- ✓ Local diagnostic indicators with LEDs
- ✓ RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps



## Key commercial data

Packing unit	1 pc
GTIN	 4 046356 551588
Weight per Piece (excluding packing)	1037.0 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
Ambient temperature (operation)	0 °C ... 60 °C

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## Technical data

### Ambient conditions

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)
Noise immunity	EN 61000-6-2

### Interfaces

Interface 1	Ethernet (RJ45)
No. of ports	16 (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)

### 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 24 V DC)
Max. current consumption	700 mA (at 12 V DC)

### General

Mounting type	DIN rail
Type AX	Block design
Weight	870 g
Housing material	Aluminum
Noise emission	EN 61000-6-4

### Conformity with EMC directives

Developed in acc. with standard	IEC 61000-6.2
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## 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

## 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
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## Approvals

cUL Listed 

cULus Listed 

## Accessories

### Accessories

#### End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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#### Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250



Patch cable, CAT5, assembled, 0.3 m

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Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

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Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1.0 m

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### Accessories

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Patch cable - FL CAT5 PATCH 1,5 - 2832221



Patch cable, CAT5, assembled, 1.5 m

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Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2.0 m

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Patch cable - FL CAT5 PATCH 3,0 - 2832292



Patch cable, CAT5, assembled, 3.0 m

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Patch cable - FL CAT5 PATCH 5,0 - 2832580



Patch cable, CAT5, assembled, 5.0 m

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Patch cable - FL CAT5 PATCH 7,5 - 2832616



Patch cable, CAT5, assembled, 7.5 m

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## Industrial Ethernet Switch - FL SWITCH SFN 16TX - 2891933

### Accessories

Patch cable - FL CAT5 PATCH 10,0 - 2832629



Patch cable, CAT5, assembled, 10.0 m

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