

FL SWITCH SF 16TX - Industrial Ethernet Switch



2832849

<https://www.phoenixcontact.com/us/products/2832849>

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Ethernet Switch, 16 TP RJ45 ports, 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
- Relay contact for alarm processing of voltage states
- Local diagnostic indicators with LEDs
- Security options with cable locking
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	2832849
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN112
GTIN	4017918952211
Weight per piece (including packing)	570 g
Weight per piece (excluding packing)	374 g
Customs tariff number	85176200
Country of origin	TW

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Technical data

Dimensions

Width	205 mm
Height	94.3 mm
Depth	30 mm

Material specifications

Housing material	Aluminum
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Mounting

Mounting type	DIN rail mounting
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Interfaces

Ethernet (RJ45)

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	16 (RJ45 ports)

Potential-free signaling contact

Connection method	Plug-in/screw connection via COMBICON
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Product properties

Product type	Switch
Product family	Unmanaged Switch SF
Type	Block design
MTTF	50.2 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode

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
Signal contact control voltage	24 V DC (typical)
Signal contact control current	100 mA
Status and diagnostic indicators	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port
Additional functions	Autonegotiation

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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	US1/2 Supply voltage Green LED
	LNK/ACT Link status/data transmission Green LED
	100 Data transmission speed Yellow LED
Maximum power dissipation for nominal condition	7.2 W
Test section	500 V DC 1 min
Transmission medium	Copper

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	18 V DC ... 32 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm ²
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	146 mA (at U _S = 24 V DC)

Function

Signal contact control voltage	24 V DC (typical)
Signal contact control current	100 mA

Connection data

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	2000 m (maximum)
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)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO ₂) 10 ±0.3 cm ³ /m ³ , hydrogen sulfide (H ₂ S) 1 ±0.3 cm ³ /m ³ , at 25°C and 75% humidity and exposure of four days

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Standards and regulations

Free from substances that could impair the application of coating

In acc. with VW specification

Approvals

Conformity/Approvals

UL, USA / Canada

Class I, Div. 2, Groups A, B, C, D T4

UL 61010-2-201 Listed

EMC data

Electromagnetic compatibility

Conformance with EMC Directive 2004/108/EC

Conformance with EMC directives

IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B

IEC 61000-4-3 (immunity to radiated interference) Criterion A

IEC 61000-4-4 (burst) Criterion B

IEC 61000-4-5 (surge) Criterion B

IEC 61000-4-6 (immunity to conducted interference) Criterion A

IEC 61000-4-8 (immunity to magnetic fields) Criterion A

EN 55022 (emitted interference) Criterion A

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_{S1}, U_{S2} (redundant voltage supply), link and activity per port

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Classifications

ECLASS

ECLASS-13.0	19170402
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ETIM

ETIM 8.0	EC000734
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UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15(a), 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)
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com