

FL SWITCH SF 8TX - Industrial Ethernet Switch



2832771

<https://www.phoenixcontact.com/us/products/2832771>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Ethernet Switch, 8 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
- Local diagnostic indicators with LEDs
- Security options with cable locking
- Relay contact for alarm processing of voltage states
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	2832771
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN112
GTIN	4017918952204
Weight per piece (including packing)	430 g
Weight per piece (excluding packing)	415 g
Customs tariff number	85176200
Country of origin	TW

FL SWITCH SF 8TX - Industrial Ethernet Switch



2832771

<https://www.phoenixcontact.com/us/products/2832771>

Technical data

Dimensions

Width	135 mm
Height	94.3 mm
Depth	30 mm

Material specifications

Housing material	Aluminum
------------------	----------

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

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	8 (RJ45 ports)

Potential-free signaling contact

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

Product properties

Product type	Switch
Product family	Unmanaged Switch SF
Type	Block design
MTTF	45.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Insulation characteristics

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

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)
Status and diagnostic indicators	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port
Additional functions	Autonegotiation

Security functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3,
-----------------	--

FL SWITCH SF 8TX - Industrial Ethernet Switch



2832771

<https://www.phoenixcontact.com/us/products/2832771>

	store and forward switching mode
--	----------------------------------

Electrical properties

Power consumption	4.8 W (nominal)
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	4.8 W
Test section	500 V DC 1 min
Transmission medium	Copper

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	18.5 V DC ... 30.2 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	200 mA (at U _S = 24 V DC)
	95 mA (at U _S = 24 V DC: ≥VC 14)

Function

Signal contact control voltage	24 V DC (typical)
--------------------------------	-------------------

Connection data

Connection method	RJ45
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)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	2000 m
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

FL SWITCH SF 8TX - Industrial Ethernet Switch



2832771

<https://www.phoenixcontact.com/us/products/2832771>

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 508 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
Noise immunity	EN 55022 (emitted interference) Criterion A
	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
----------------	--

FL SWITCH SF 8TX - Industrial Ethernet Switch




2832771


<https://www.phoenixcontact.com/us/products/2832771>

Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2832771>

 **UL Listed**
Approval ID: FILE E 140324

 **cUL Listed**
Approval ID: FILE E 140324

 **KC**
Approval ID: KCC-REI-PCK- FL28327

 **cUL Listed**
Approval ID: E199827

 **UL Listed**
Approval ID: E199827

FL SWITCH SF 8TX - Industrial Ethernet Switch



2832771

<https://www.phoenixcontact.com/us/products/2832771>

Classifications

ECLASS

ECLASS-13.0

19170402

UNSPSC

UNSPSC 21.0

43222600

FL SWITCH SF 8TX - Industrial Ethernet Switch



2832771

<https://www.phoenixcontact.com/us/products/2832771>

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)
SCIP	b2a753d9-8d21-478c-ad36-43797b446a6b

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com