

# FL SWITCH SFN 6TX/2FX ST - Industrial Ethernet Switch



2891411

<https://www.phoenixcontact.com/us/products/2891411>

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, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

## Your advantages

- QoS-prioritized (Quality of Service) messages
- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- Local diagnostic indicators with LEDs
- The switch also offers cable locking and port blocking
- Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

Item number	2891411
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN19
Product key	DNN113
GTIN	4046356100861
Weight per piece (including packing)	504.5 g
Weight per piece (excluding packing)	365 g
Customs tariff number	85176200
Country of origin	TW

# FL SWITCH SFN 6TX/2FX ST - Industrial Ethernet Switch



2891411

<https://www.phoenixcontact.com/us/products/2891411>

## Technical data

### Dimensions

Width	50 mm
Height	120 mm
Depth	70 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	6 (RJ45 ports)

#### Fiber optic interface

Connection method	ST
Transmission speed	100 Mbps (full duplex)
Transmission physics	multi-mode fiberglass
Transmission length	2000 m (Fiberglass 50/125) 2000 m (Fiberglass 62.5/125)
Wavelength	1300 nm
No. of channels	2 (ST multi-mode)

### Product properties

Product type	Switch
Product family	Unmanaged Switch SFN
Type	Block design
MTTF	56.8 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
-----------------	---

# FL SWITCH SFN 6TX/2FX ST - Industrial Ethernet Switch



2891411

<https://www.phoenixcontact.com/us/products/2891411>

Status and diagnostic indicators	LEDs: U <sub>S</sub> , link and activity per port
Additional functions	Autonegotiation
Security functions	
Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode

## 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	5.54 W
Test section	500 V DC 1 min
Transmission medium	Copper
	FO

## Supply

Supply voltage (DC)	24 V DC
Supply voltage range	9 V DC ... 32 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	230 mA (at U <sub>S</sub> = 24 V DC)

## Connection data

### Power supply

Connection method	Screw connection
pluggable	yes
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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 ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
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 <sub>2</sub> ) 10 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , hydrogen sulfide (H <sub>2</sub> S) 1 ±0.3 cm <sup>3</sup> /m <sup>3</sup> , at 25 °C and 75% humidity and exposure of four days

# FL SWITCH SFN 6TX/2FX ST - Industrial Ethernet Switch



2891411

<https://www.phoenixcontact.com/us/products/2891411>

## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
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 <sub>S</sub> , link and activity per port
----------------	---

# FL SWITCH SFN 6TX/2FX ST - Industrial Ethernet Switch



2891411

<https://www.phoenixcontact.com/us/products/2891411>

## Classifications

### ECLASS

ECLASS-13.0

19170402

### ETIM

ETIM 9.0

EC000734

### UNSPSC

UNSPSC 21.0

43222600

# FL SWITCH SFN 6TX/2FX ST - Industrial Ethernet Switch



2891411

<https://www.phoenixcontact.com/us/products/2891411>

## 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)
-------------------------------------	----------------------

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](mailto:info@phoenixcon.com)