

FL SWITCH SFN 6GT/2SX - Industrial Ethernet Switch



2891398

<https://www.phoenixcontact.com/us/products/2891398>

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 RJ45 ports, 10/100/1000 Mbps on all RJ45 ports, 2 multi-mode SC-D ports, 1 Gbps full duplex, auto negotiation (RJ45), autocrossing function, with signal contact and QoS, extended temperature range

Your advantages

- Jumbo frame support (frame size up to 9600 bytes/frame)
- All ports offer transmission speeds of 1000 Mbps
- Relay contact for alarm processing of voltage states
- 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	2891398
Packing unit	1 pc
Sales key	DN19
Product key	DNN113
GTIN	4046356101196
Weight per piece (including packing)	552.2 g
Weight per piece (excluding packing)	425 g
Customs tariff number	85176200
Country of origin	TW

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	10/100/1000 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
No. of channels	6 (RJ45 ports)

Fiber optic interface

Connection method	SC
Transmission speed	1000 Mbps (full duplex)
Transmission physics	multi-mode fiberglass
Transmission length	220 m (Fiberglass 62.5/125) 550 m (Fiberglass 50/125)
Wavelength	850 nm
No. of channels	2 (SC multi-mode)

Potential-free signaling contact

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

Product properties

Product type	Switch
Product family	Unmanaged Switch SFN
Type	Block design
MTTF	36.4 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 6GT/2SX - Industrial Ethernet Switch



2891398

<https://www.phoenixcontact.com/us/products/2891398>

Signal contact control voltage	Monitoring of the redundant supply voltage
PROFINET conformance class	Conformance Class A
Status and diagnostic indicators	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port
Additional functions	Autonegotiation
	Jumbo frames (max. 9,600 bytes)

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
	100/ACT Link status/data transmission Yellow LED
	1000/ACT Link status/data transmission Yellow LED
Maximum power dissipation for nominal condition	8.4 W
Test section	500 V DC 1 min
Transmission medium	Copper
	FO

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	9 V DC ... 32 V DC
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	350 mA (at U _S = 24 V DC)

Function

Signal contact control voltage	Monitoring of the redundant supply voltage
--------------------------------	--

Connection data

Power supply

Connection method	Pluggable COMBICON screw connections
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)	-25 °C ... 75 °C
Ambient temperature (storage/transport)	-35 °C ... 85 °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

FL SWITCH SFN 6GT/2SX - Industrial Ethernet Switch



2891398

<https://www.phoenixcontact.com/us/products/2891398>

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

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

FL SWITCH SFN 6GT/2SX - Industrial Ethernet Switch



2891398

<https://www.phoenixcontact.com/us/products/2891398>

Classifications

UNSPSC

UNSPSC 21.0	43222612
-------------	----------

2891398

<https://www.phoenixcontact.com/us/products/2891398>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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