

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Wide-temperature Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

Your advantages

- ✓ Local diagnostic indicators with LEDs
- ✓ Alarm contact for power supply and link status diagnostics
- ✓ The switch also offers cable locking and port blocking
- ✓ QoS-prioritized (Quality of Service) messages
- ✓ Wide operating temperature range (-40°C ... +75°C)
- ✓ 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 457194
GTIN	4046356457194
Weight per Piece (excluding packing)	475.800 g
Custom tariff number	85176200
Country of origin	Taiwan

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

Dimensions

Width	30 mm
Height	130 mm
Depth	100 mm

Ambient conditions

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Technical data

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
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)	62 kPa ... 108 kPa (up to 4160 m above mean sea level)
Air pressure (storage/transport)	62 kPa ... 108 kPa (up to 4160 m above mean sea level)

Interfaces

Interface	Ethernet (RJ45)
No. of ports	4 (RJ45 ports)
Note on the connection method	Auto negotiation and autocrossing
Transmission physics	Ethernet in RJ45 twisted pair
Transmission speed	10/100 Mbps
Interface	Fiber optic interface
No. of ports	1 (SC multi-mode)
Transmission physics	multi-mode fiberglass
Transmission speed	100 Mbps (full duplex)
Transmission length	12.1 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)
	3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600)
	7.1 km (fiberglass with F-G 50/125 0.7 dB/km F1200)
	3.1 km (fiberglass with F-G 50/125 1.6 dB/km F800)
Wavelength	1300 nm

Function

Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact
Additional functions	Autonegotiation
Status and diagnostic indicators	LEDs: U_{S1} , U_{S2} (redundant voltage supply), link and activity per port

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 _{PP} (within the permitted voltage range)
Supply voltage range	9 V DC ... 32 V DC
Typical current consumption	180 mA (at $U_S = 24$ V DC)
Max. current consumption	565 mA (@9 V DC)

General

Mounting type	DIN rail
Type AX	Block design

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Technical data

General

Net weight	475.8 g
Housing material	Aluminum

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Conformance	CE-compliant
ATEX	# II 3 G Ex nA nC IIC T4 Gc
IECEX	Ex nA nC IIC T4 Gc
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D

Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	19170402
eCl@ss 4.0	27250501
eCl@ss 4.1	27250501
eCl@ss 5.0	19030117
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170106
eCl@ss 8.0	19170106
eCl@ss 9.0	19170106

ETIM

ETIM 2.0	EC000734
ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734
ETIM 6.0	EC000734
ETIM 7.0	EC000734

UNSPSC

UNSPSC 6.01	43172901
UNSPSC 7.0901	43201404
UNSPSC 11	43172015

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Classifications

UNSPSC

UNSPSC 12.01	43201410
UNSPSC 13.2	43222612

Approvals

Approvals

Approvals

BV / GL / LR / GL-SW / ABS / BSH / UL Listed / cUL Listed / EAC / GL / cULus Listed

Ex Approvals

IECEX / ATEX / UL Listed / cUL Listed / cULus Listed

Approval details

BV		http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	22935/B1 BV
----	--	---	-------------

GL		https://approvalfinder.dnvgl.com/	86569-10 HH
----	--	---	-------------

LR		http://www.lr.org/en	10/20002
----	--	---	----------

GL-SW			86569-10 HH
-------	--	--	-------------

ABS		http://www.eagle.org/eagleExternalPortalWEB/	14-HG1290743-PDA
-----	--	---	------------------

BSH		http://www.bsh.de/de/index.jsp	627
-----	--	---	-----

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
-----------	--	---	---------------

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
------------	--	---	---------------

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Approvals

EAC		RU *- DE.A*30.B.01735
-----	--	--------------------------

GL	
----	--

cULus Listed	
--------------	--

Accessories

Accessories

Assembly adapter

Mounting plate - FL PA SFNT 5-8 - 2891012



Mounting plate for SFNT switches

End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250

Patch cable, CAT5, assembled, 0.3 m

Patch cable - FL CAT5 PATCH 0,5 - 2832263

Patch cable, CAT5, assembled, 0.5 m

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Accessories

Patch cable - FL CAT5 PATCH 1,0 - 2832276

Patch cable, CAT5, assembled, 1 m

Patch cable - FL CAT5 PATCH 1,5 - 2832221

Patch cable, CAT5, assembled, 1.5 m

Patch cable - FL CAT5 PATCH 2,0 - 2832289

Patch cable, CAT5, assembled, 2 m

Patch cable - FL CAT5 PATCH 3,0 - 2832292

Patch cable, CAT5, assembled, 3 m

Patch cable - FL CAT5 PATCH 5,0 - 2832580

Patch cable, CAT5, assembled, 5 m

Patch cable - FL CAT5 PATCH 7,5 - 2832616

Patch cable, CAT5, assembled, 7.5 m

Patch cable - FL CAT5 PATCH 10,0 - 2832629

Patch cable, CAT5, assembled, 10 m

Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Accessories

Safety locking

Port Guard Security Element - FL SEC PAC 4TX - 2832865

Layer1 security elements for four RJ45 network connections for use with patch boxes and panels

