

Industrial Ethernet Switch - FL SWITCH SFNT 7TX/FX ST - 2891007

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, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST format, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

Your advantages

- ✓ Auto negotiation and autocrossing detection simplifies installation and setup
- ✓ Local diagnostic indicators with LEDs
- ✓ Alarm contact for power supply and link status diagnostics
- ✓ The switch also offers cable locking and port blocking
- ✓ Wide operating temperature range (-40°C ... +75°C)
- ✓ RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps
- ✓ QoS-prioritized (Quality of Service) messages



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 457224
GTIN	4046356457224
Weight per Piece (excluding packing)	640.000 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
	Use in potentially explosive areas is not permitted in China.

Industrial Ethernet Switch - FL SWITCH SFNT 7TX/FX ST - 2891007

Technical data

Dimensions

Width	50 mm
Height	130 mm
Depth	100 mm

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	7 (RJ45 ports)
Note on the connection method	Auto negotiation and autocrossing
Transmission physics	Ethernet in RJ45 twisted pair
Transmission speed	10/100 Mbps
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
Interface	Fiber optic interface
No. of ports	1 (ST 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

Industrial Ethernet Switch - FL SWITCH SFNT 7TX/FX ST - 2891007

Technical data

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
Net weight	470 g
Housing material	Aluminum
MTTF	57.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

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
IECEX	Ex nA nC IIC T4 Gc
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D

Environmental Product Compliance

REACH SVHC	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 11.0	19170402
eCl@ss 4.0	27250500
eCl@ss 4.1	27250500
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170106

Industrial Ethernet Switch - FL SWITCH SFNT 7TX/FX ST - 2891007

Classifications

eCl@ss

eCl@ss 9.0	19170106
------------	----------

ETIM

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

UNSPSC

UNSPSC 6.01	43172901
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43222612
UNSPSC 18.0	43222612
UNSPSC 19.0	43222612
UNSPSC 20.0	43222612
UNSPSC 21.0	43222612

Approvals

Approvals

Approvals

BV / LR / NK / ABS / BSH / UL Listed / cUL Listed / EAC / EAC / DNV GL / cULus Listed

Ex Approvals

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

Approval details

BV		http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	22935/C0 BV
----	---	---	-------------

Industrial Ethernet Switch - FL SWITCH SFNT 7TX/FX ST - 2891007

Approvals

LR		http://www.lr.org/en	LR2002520TA
NK		http://www.classnk.or.jp/hp/en/	TA20175M
ABS		http://www.eagle.org/eagleExternalPortalWEB/	19-HG1928426-PDA
BSH			627
UL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 140324
cUL Listed		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 140324
EAC			RU *- DE.A*08.B.00739
EAC			RU*-DE.*.B.00741/19
DNV GL		https://approvalfinder.dnvgl.com/	TAA00002HR
cULus Listed			