

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

2891047

<https://www.phoenixcontact.com/no/products/2891047>

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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, autocrossing function, reads QoS priority messages, accepts security frames. Conformal coating for harsh environments.

Commercial data

Item number	2891047
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	31NDN1
Product key	DNN113
Catalog page	Page 297 (C-6-2019)
GTIN	4046356651127
Weight per piece (including packing)	637.4 g
Weight per piece (excluding packing)	470 g
Customs tariff number	85176200
Country of origin	TW

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Technical data

Dimensions

Width	50 mm
Height	130 mm
Depth	100 mm

Material specifications

Housing material	Aluminum
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Mounting

Mounting type	DIN rail mounting
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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	7 (RJ45 ports)

Fiber optic interface

Connection method	ST
Transmission speed	100 Mbps (full duplex)
Transmission physics	multi-mode fiberglass
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
No. of channels	1 (ST multi-mode)

Product properties

Type	Block design
Product type	Switch
Product family	Unmanaged Switch SFNT
MTTF	63.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Switch functions

Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact
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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 / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact

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	4.35 W
Transmission medium	Copper
	FO

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	9 V DC ... 32 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)
Max. current consumption	565 mA (@9 V DC)
Typical current consumption	180 mA (at U _S = 24 V DC)

Connection data

Conductor cross section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible	2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 14
Stripping length	7 mm

Environmental and real-life conditions

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)

Approvals

Conformity/Approvals

Conformance	CE-compliant
ATEX	Ⓔ II 3 G Ex nA nC IIC T4 Gc

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EU-type examination certificate	DEMKO 16 ATEX 1617X
IECEEx	Ex nA nC IIC T4 Gc
IECEEx certificate	IECEEx UL 16.0093X
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

EMC data

Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4

System properties

Functionality	
Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact

Signaling

Status display	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port
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Approvals

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EAC

Approval ID: RU *-DE.A*08.B.00739



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324



IECEx

Approval ID: IECEx UL 16.0093X



cUL Listed

Approval ID: FILE E 199827



UL Listed

Approval ID: FILE E 199827



ATEX

Approval ID: DEMKO 16 ATEX 1617X

cULus Listed

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Classifications

ECLASS

ECLASS-12.0	19170402
ECLASS-11.0	19170402

ETIM

ETIM 8.0	EC000734
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UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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