

FL SWITCH SFNT 5GT - Industrial Ethernet Switch



2891390

<https://www.phoenixcontact.com/us/products/2891390>

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Wide-temperature Ethernet switch, five TP RJ45 ports, automatic detection of data transmission speed of 10/100/1000 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames.

Product description

The FL SWITCH SFN 5GT supports the auto negotiation function at the twisted-pair ports and offers transmission speeds of 10/100/1000 Mbps. Mixed operation for the connection of segments with different data transmission speeds is also supported.

Switching properties

-Multi-address function

The switch can store up to 8192 MAC addresses in its address table.

-Quality of service

In case of heavy traffic, packets tagged with higher priority 802.1Q or Differentiated Services values will be given preference. The switch has four internal priority queues.

-Multicast filtering

The multicast filter will block PROFINET PTCP-Delay traffic. This is accomplished by filtering frames with the destination MAC address in the range 01-80-C2-00-00-02 through 01-80-C2-00-00-0F. Note that the filter blocks LLDP traffic because PTCP-Delay uses the same MAC address, 01-80-C2-00-00-0E.

-Alarm contact

The switch provides contacts (R1, R2) for remote alarms if a failure is detected. Alarms are triggered if one or both power supplies fail. An alarm can be triggered if a port link is lost. Individual port alarms can be enabled via a DIP switch located on the bottom of the switch. The alarm relay is a normally closed type. When there are no faults, the contact is held open. When a fault occurs, the relay is de-energized to close the contact.

-Link monitor DIP switch

To enable an alarm for a port, move the appropriate slider to the ON position. To disable an alarm, move the appropriate slider to the OFF position.

Power connection is via a removable COMBICON connector. US1 and US2 are 24 V DC and GND is 0 V DC. FE symbol is functional earth.

Your advantages

- All ports offer transmission speeds of 1000 Mbps
- Wide operating temperature range of -40 °C ... 75 °C
- Jumbo frame support (frame size up to 10,240 bytes/frame)
- QoS-prioritized (Quality of Service) messages
- Alarm contact for power supply and link status diagnostics
- The switch also offers cable locking and port blocking

Commercial data

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Item number	2891390
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN113
GTIN	4055626000893
Weight per piece (including packing)	520 g
Weight per piece (excluding packing)	380 g
Customs tariff number	85176200
Country of origin	TW

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Technical data

Dimensions

Width	30 mm
Height	130 mm
Depth	100 mm

Notes

Note on application

Note on application	Only for industrial use
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Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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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	10/100/1000 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
No. of channels	5 (RJ45 ports)

Product properties

Product type	Switch
Product family	Unmanaged Switch SFNT
Type	Block design
MTTF	121.4 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
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. 10240 bytes)

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Security 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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Electrical properties

Maximum power dissipation for nominal condition	5.35 W
Transmission medium	Copper

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	10 V DC ... 60 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm ²
Inrush current	7.2 A (400 µs)
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Max. current consumption	547 mA (10 V DC)
Typical current consumption	223 mA (at U _S = 24 V DC)

Connection data

Connection method	Screw connection
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)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Air pressure (operation)	62 kPa ... 108 kPa (up to 4850 m above mean sea level)
Air pressure (storage/transport)	62 kPa ... 108 kPa (up to 4850 m above mean sea level)

Approvals

Conformity/Approvals

UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D
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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
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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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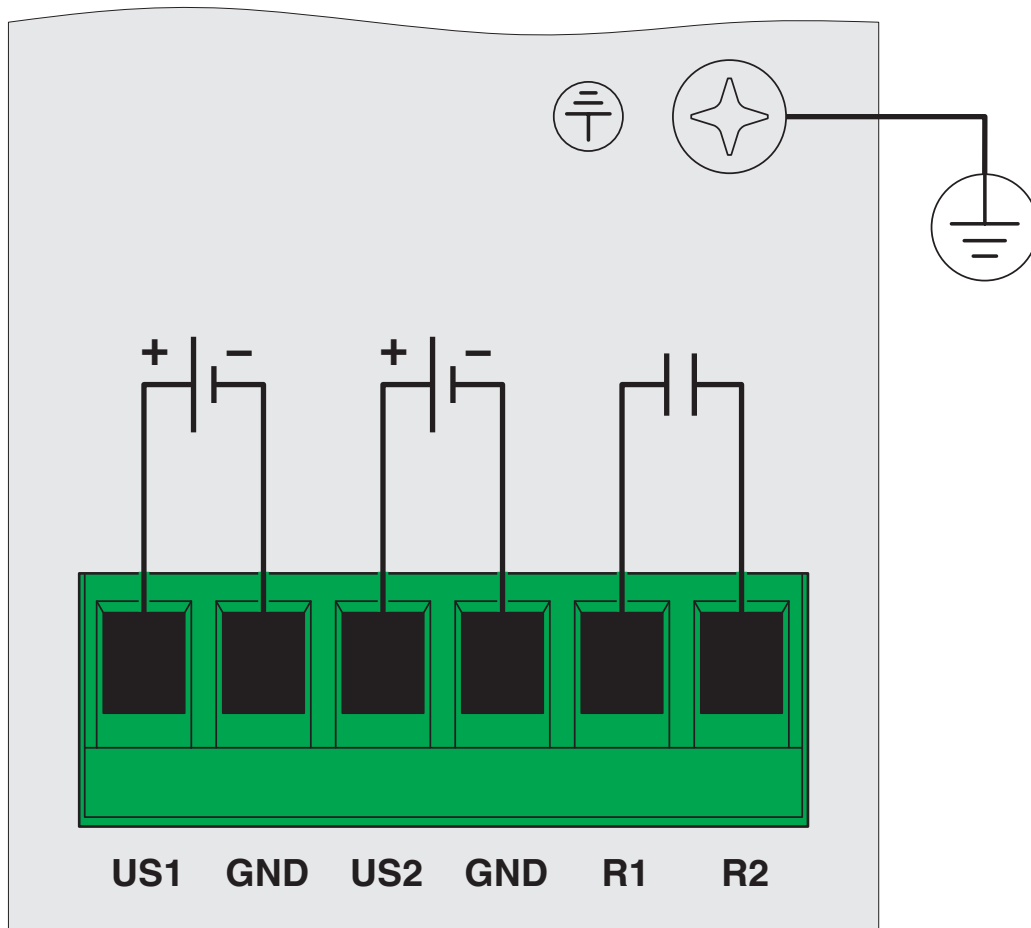


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Drawings

Connection diagram



Redundant power supply connection

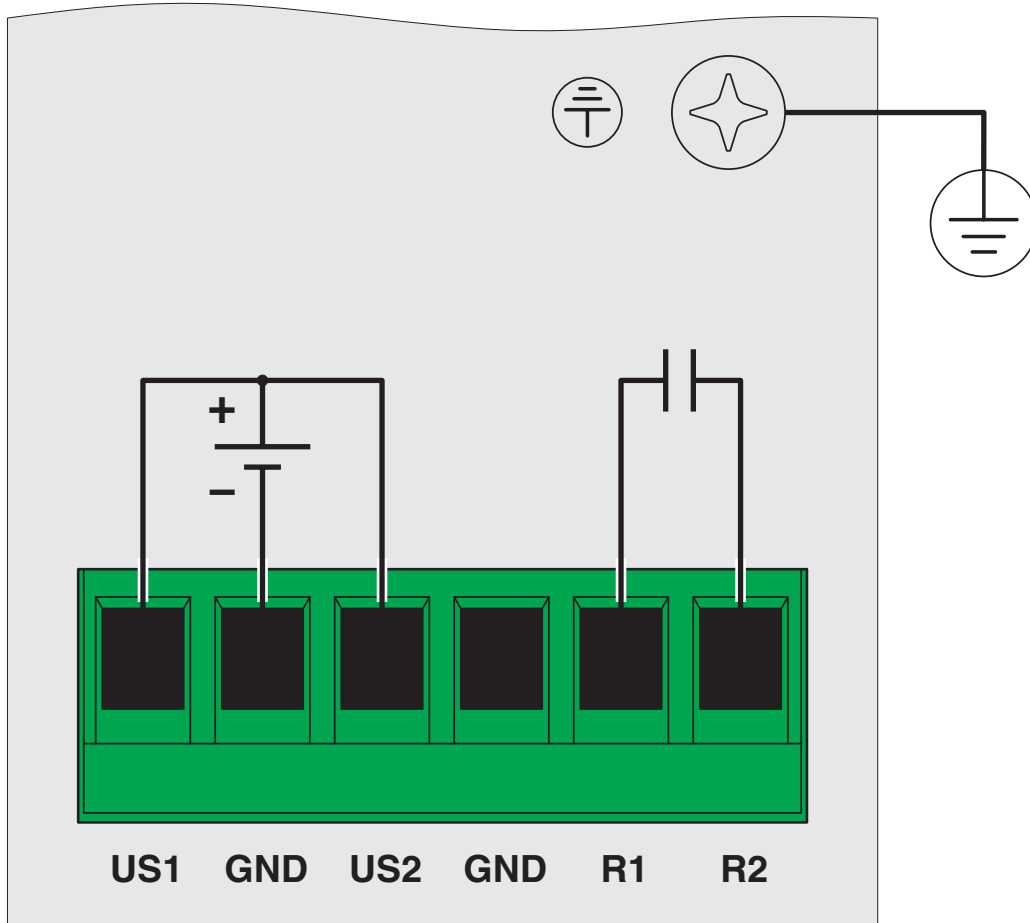
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Connection diagram



Single power supply connection

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Classifications

ECLASS

ECLASS-13.0

19170402

ETIM

ETIM 9.0

EC000734

UNSPSC

UNSPSC 21.0

43222600

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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)
SCIP	b88a4616-3010-4ce1-be40-2e098fcbd532

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