

Industrial Ethernet Switch - FL SWITCH 4008T-2SFP



2891062

<https://www.phoenixcontact.com/gb/products/2891062>

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Managed Ethernet switch with eight RJ45 ports at 10/100 Mbps and two SFP ports at 1000 Mbps. Wide operating temperature of -40°C ... +75°C.

Product Description

FL SWITCH 4000 managed industrial Ethernet switches combine Gigabit interfaces with extensive network performance for the most demanding applications. Security features with complete IEEE redundancy (STP/RSTP/MST) and 15 ms recovery time extended ring redundancy optimize network uptime. Unique web customization provides a simplified user interface for today's applications and scalable functionality for future needs. A comprehensive mix of 10/100 Mbps and Gigabit fiber optic connections combine performance with installed cost savings.

Your advantages

- Eight 10/100 Mbps RJ45 ports for device connections and two SFP-based fiber optic LC interfaces for network trunk lines.
- -40 °C to 75 °C ambient temperature
- Secure web-based and SNMP-based management
- Extensive web diagnostics with configurable LED and remote alarm contacts
- Unique cleanup function hides unused configuration pages, reducing complexity, maintenance and startup times

Commercial Data

Item number	2891062
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNN125
Product Key	DNN125
Catalog Page	Page 318 (C-6-2019)
GTIN	4046356764308
Weight per Piece (including packing)	1,257 g
Weight per Piece (excluding packing)	965 g
Customs tariff number	85176200
Country of origin	TW

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Technical Data

Dimensions

Width	54.4 mm
Height	146.4 mm
Depth	125 mm

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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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 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m
Signal LEDs	Data receive, link status
No. of channels	8 (RJ45 ports)

SFP module

Connection method	SFP ports
Transmission speed	100/1000 Mbps (full duplex)
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used)
Signal LEDs	Data receive, link status
No. of channels	2 (SFP ports)

Product properties

Type	Block design
Product type	Switch
MTTF	49.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

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Insulation characteristics

Protection class	III (VDE 0106, IEC 60536)
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Switch functions

Basic functions	Store and forward switch, Extended Ring and IEEE redundancy, Multicast control, IGMP snooping, trunking, Port and Tagging VLANs, Port and IEEE 802.1x security, SNMP V3 and Https security, SNTP, web customization, user accounts
Signal contact control voltage	24 V DC
Signal contact control current	100 mA
Redundancy	ERR (Extended ring redundancy)
Status and diagnostic indicators	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port

Security functions

Basic functions	Store and forward switch, Extended Ring and IEEE redundancy, Multicast control, IGMP snooping, trunking, Port and Tagging VLANs, Port and IEEE 802.1x security, SNMP V3 and Https security, SNTP, web customization, user accounts
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Electrical properties

Local diagnostics	US1, US2 Supply voltage Green LED LNK/ACT Link status/data transmission Green LED
Maximum power dissipation for nominal condition	6.67 W
Test section	Supply voltage/functional ground 500 V 1 min.
Transmission medium	Copper FO

Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	12 V DC ... 48 V DC
Inrush current	5.2 A (3.3 ms)
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	280 mA (at U _S = 24 V DC)

Function

Signal contact control voltage	24 V DC
Signal contact control current	100 mA

Connection data

Connection technology

Connection name	Power supply
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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

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Stripping length	7 mm
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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)	57 kPa ... 108 kPa (up to 4850 m above mean sea level)
Air pressure (storage/transport)	57 kPa ... 108 kPa (up to 4850 m above mean sea level)

Approval data

Conformity/Approvals

Conformance	CE-compliant
ATEX	□ II 3 G Ex nA nC IIC T4 Gc
EU-type examination certificate	DEMKO 16 ATEX 1616X
IECEX	Ex nA nC IIC T4 Gc
IECEX certificate	IECEX UL 16.0094X
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

EMC data

Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion A
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-4-8 (immunity to magnetic fields) Criterion A
	EN 55022 (emitted interference) Class A
	NEMA TS-2
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2:2005

LED signaling

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

**EAC**

Approval ID: RU D-DE.GB09.B.00312

**UL Listed**

Approval ID: FILE E 140324

**cUL Listed**

Approval ID: FILE E 140324

**cUL Listed**

Approval ID: FILE E 238705

**UL Listed**

Approval ID: FILE E 238705

**IECEx**

Approval ID: IECEx UL 16.0094X

**cUL Listed**

Approval ID: File E 360692

**UL Listed**

Approval ID: File E 360692

**UL Listed**

Approval ID: FILE E 196811

**cUL Listed**

Approval ID: FILE E 196811

**ATEX**

Approval ID: DEMKO 16 ATEX 1616X

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Classifications

ECLASS

ECLASS-9.0	19170106
ECLASS-10.0.1	19170401
ECLASS-11.0	19170401

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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