

# FL SWITCH 1001T-4POE - Industrial Ethernet Switch



2891064

<https://www.phoenixcontact.com/us/products/2891064>

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PoE+ Ethernet switch conforms to IEEE 802.3at. Includes four PoE+ ports and one standard RJ45 port, all with 10/100 Mbps speeds.

## Your advantages

- Wide-range power supply of 18 ... 57 V DC
- Autocrossing
- Wide temperature range -40 °C ... +75 °C
- Redundant power supply
- POE status LED per port
- Auto negotiation
- Automatic detection of IEEE 802.3at or 802.3af powered devices

## Commercial data

Item number	2891064
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN18
Product key	DNN115
GTIN	4046356764322
Weight per piece (including packing)	772 g
Weight per piece (excluding packing)	685 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	55 mm
Height	117 mm
Depth	78 mm

### Notes

Notes on operation	Mode B PoE
Note on application	
Note on application	Only for industrial use
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

### Material specifications

Color (Housing)	white aluminium (RAL 9006)
Housing material	Aluminum

### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, 100, POE
No. of channels	1 (RJ45 port)

#### Ethernet (PoE)

Connection method	RJ45
Transmission speed	10/100 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, 100, POE
No. of channels	4 (RJ45 PoE ports)

### Product properties

Product type	Switch
Product family	Unmanaged PoE Switch 1000

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Type	Stand-alone
MTTF	68 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

## Switch functions

Basic functions	PSE, complies with IEEE 802.3at
Signal contact control voltage	24 V DC
Signal contact control current	100 mA
Status and diagnostic indicators	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port
Additional functions	Autonegotiation

## Security functions

Basic functions	PSE, complies with IEEE 802.3at
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## Electrical properties

Power consumption	129 W
Local diagnostics	US1, US2 Supply voltage Green LED
	PoE PoE detection Yellow LED
	LNK/ACT Link status/data transmission Green LED
	Alarm Power failure at US1 or US2/Link failure
Maximum power dissipation for nominal condition	129.6 W
Test section	Supply voltage/functional ground 500 V AC 1 min
Transmission medium	Copper

## Supply

Supply voltage (DC)	24 V DC
Supply voltage range	18 V DC ... 57 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Inrush current	18 A (57 V DC for 100 µs)
	10 A (24 V DC for 100 µs)
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Max. current consumption	6.2 A (Maximum, nominal load)
Typical current consumption	148 mA (at U <sub>S</sub> = 24 V DC)

## Function

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

## Connection data

### Power supply

Connection method	Screw connection
pluggable	yes
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

Stripping length	7 mm
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## 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)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
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 B
	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) Criterion A

## System properties

### Functionality

Basic functions	PSE, complies with IEEE 802.3at
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## Signaling

Status display	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2891064>



**UL Listed**

Approval ID: E140324



**cUL Listed**

Approval ID: E140324



**KC**

Approval ID: MSIP-REI-PCK-2891064

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## Classifications

### ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

### ETIM

ETIM 10.0	EC000734
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### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15(a), 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	e0b0643d-cc19-4e3f-bf75-b46088fab890

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