

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



1102077

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Unmanaged PoE Switch 1000 series 10/100/1000 Mbps, 5 RJ45 PoE ports 10/100/1000 Mbps, degree of protection: IP20, Ambient temperature (operation): -10 °C ... 60 °C, Supply voltage range: 19 V DC ... 57 V DC, PROFINET Conformance Class A

## Your advantages

- Auto negotiation and autocrossing detection simplifies installation and setup
- Local diagnostic indicators with LEDs
- Galvanic Isolation- Additional isolation for greater safety in SELV and PELV installations
- PROFINET Conformance Class A for real-time data exchange
- Automatic detection of IEEE 802.3at or 802.3af powered devices
- Enhanced traffic prioritization for automation protocols
- QoS-prioritized (Quality of Service) messages
- Energy-efficient Ethernet in accord. with IEEE 802.3az
- Transmission speed of 10/100/1000 Mbps on all RJ45 ports
- PROFINET PTCP filter for reliable communication on PROFINET networks

## Commercial data

Item number	1102077
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN18
Product key	DNN115
GTIN	4055626961774
Weight per piece (including packing)	625 g
Weight per piece (excluding packing)	457 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	27 mm
Height	130 mm
Depth	120 mm

### Notes

Notes on operation	Mode A 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

### 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	10/100/1000 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE

#### Ethernet (PoE)

Connection method	RJ45
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE
No. of channels	5 (RJ45 PoE ports)

### Product properties

Product type	Switch
Product family	Unmanaged PoE Switch 1000
Type	Stand-alone
MTTF	52.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 9216 bytes

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## Switch functions

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 9216 bytes
PROFINET conformance class	Conformance Class A
MAC address table	4k
Status and diagnostic indicators	LEDs: U <sub>S</sub> (voltage supply), Link/Activity and PoE per Ethernet port
Additional functions	Autonegotiation

## Security functions

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 9216 bytes
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## Electrical properties

Maximum power dissipation for nominal condition	149 W (at 48 V DC)
Transmission medium	Copper

## Supply

Supply voltage (DC)	24 V DC 48 V DC
Supply voltage range	19 V DC ... 57 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Max. current consumption	7.95 A (Maximum, nominal load)
Typical current consumption	170 mA

## Connection data

### Connection technology

Connection name	Power supply
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### Power supply

Connection method	Screw connection
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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Altitude	max. 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

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Shock (operation)	30g (EN 60068-2-27)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	57 kPa ... 108 kPa up to 2000 m above mean sea level (up to 4850 m above mean sea level)
Air pressure (storage/transport)	57 kPa ... 108 kPa up to 2000 m above mean sea level (up to 4850 m above mean sea level)

## Approvals

### Conformity/Approvals

Conformance	CE-compliant
UL, USA / Canada	UL 61010-1, UL 61010-2-201

## EMC data

Noise immunity	EN 61000-6-2:2019
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### Noise emission

Standards/regulations	EN_61000-6-4:2019
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## System properties

### Functionality

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 9216 bytes
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## Signaling

Status display	LEDs: U <sub>S</sub> (voltage supply), 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/1102077>



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

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## Classifications

### ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

### ETIM

ETIM 9.0	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	8775f373-746a-469b-a45c-75f4f3835d6a

### EF3.0 Climate Change

CO2e kg	15.477 kg CO2e
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