

# 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            |

## 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

|                  |          |
|------------------|----------|
| Housing material | Aluminum |
|------------------|----------|

### Mounting

|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

### 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 |
| Type           | Stand-alone               |

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|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| MTTF            | 68 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
| Basic functions | PSE, complies with IEEE 802.3at                                           |

## 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 |
|-----------------|---------------------------------|

## 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

### Connection technology

|                 |              |
|-----------------|--------------|
| Connection name | Power supply |
| pluggable       | yes          |

### Power supply

|                                |                                             |
|--------------------------------|---------------------------------------------|
| Connection method              | Screw connection                            |
| Conductor cross-section, rigid | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

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|                                   |                     |
|-----------------------------------|---------------------|
| Conductor cross-section, flexible | 0.2 mm² ... 2.5 mm² |
| 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)               |
| 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 |
|-----------------|---------------------------------|

## 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 9.0 | EC000734 |
|----------|----------|

### 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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