

# FL SWITCH 1105NT - Industrial Ethernet Switch



1085163

<https://www.phoenixcontact.com/au/products/1085163>

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Narrow Ethernet switch, wide temperature range, five RJ45 ports with 10/100/1000 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

## Your advantages

- Auto negotiation and autocrossing detection simplifies installation and setup
- Local diagnostic indicators with LEDs
- RJ45 ports support a transmission speed of 10/100/1000 Mbps
- QoS-prioritized (Quality of Service) messages
- PROFINET Conformance Class A for real-time data exchange
- Energy-efficient Ethernet in accord. with IEEE 802.3az
- PROFINET PTCP filter for reliable communication on PROFINET networks
- Enhanced traffic prioritization for automation protocols
- Jumbo frame support (frame size up to 9216 bytes/frame)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1085163       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DNN116        |
| Product key                          | DNN116        |
| GTIN                                 | 4055626833576 |
| Weight per piece (including packing) | 312 g         |
| Weight per piece (excluding packing) | 221 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | TW            |

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## Technical data

### Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 117 mm  |
| Depth  | 84 mm   |

### Notes

#### 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 | Polycarbonate fiber reinforced |
|                  | Aluminum / steel sheet DC01    |

### Mounting

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

### Interfaces

#### Ethernet (RJ45)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Number of interfaces          | 5                                 |
| 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     |
| Transmission length           | 100 m (per segment)               |
| Signal LEDs                   | Data receive, link status         |
| No. of channels               | 5 (RJ45 ports)                    |

### Product properties

|                    |                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------|
| Product type       | Switch                                                                                                 |
| Product family     | Unmanaged Switch 1000                                                                                  |
| MTTF               | 97.6 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)                            |
|                    | 888.3 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)                                 |
|                    | 818.3 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| Special properties | Extended temperature range                                                                             |

#### Switch functions

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|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| Basic functions                  | Unmanaged switch                                      |
|                                  | Autonegotiation                                       |
|                                  | Store and Forward switching mode                      |
| PROFINET conformance class       | Conformance-Class A                                   |
| MAC address table                | 4k                                                    |
| Status and diagnostic indicators | LEDs: U <sub>S</sub> , link and activity per port     |
| Additional functions             | 100 BASE-TX/100BASE-FX (IEEE 802.3u)                  |
|                                  | Jumbo frames (Max. 9,216 bytes)                       |
|                                  | Quality of Service (QoS) prioritization (IEEE 802.1p) |
|                                  | Energy-efficient Ethernet (IEEE 802.3az)              |
|                                  | Gigabit Ethernet 1000BASE-T (IEEE 802.3ab)            |
|                                  | 10Base-T (IEEE 802.3)                                 |

## Security functions

|                 |                                  |
|-----------------|----------------------------------|
| Basic functions | Unmanaged switch                 |
|                 | Autonegotiation                  |
|                 | Store and Forward switching mode |

## Electrical properties

|                                                 |                      |
|-------------------------------------------------|----------------------|
| Maximum power dissipation for nominal condition | 3.015 W (at 24 V DC) |
| Transmission medium                             | Copper               |

## Supply

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| Supply voltage (DC)         | 24 V                                                           |
| Supply voltage (AC)         | 24 V AC (50/60 Hz)                                             |
| Supply voltage range        | 9 V DC ... 32 V DC                                             |
|                             | 18 V AC ... 30 V AC (50/60 Hz)                                 |
| 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    | 335 mA (at 9 V DC)                                             |
| Typical current consumption | 34 mA (at 24 V DC)                                             |

## Connection data

### Connection technology

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

### Power supply

|                                                                       |                                              |
|-----------------------------------------------------------------------|----------------------------------------------|
| Connection method                                                     | Push-in spring 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                                    |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

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|                  |       |
|------------------|-------|
| Stripping length | 10 mm |
|------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                                         |
|------------------------------------------|-------------------------------------------------------------------------|
| Degree of protection                     | IP30                                                                    |
| Ambient temperature (operation)          | -40 °C ... 75 °C                                                        |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C                                                        |
| Altitude                                 | 2000 m (maximum)                                                        |
| Permissible humidity (operation)         | 5 % ... 95 % (non-condensing)                                           |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)                                           |
| Shock (operation)                        | 30g (EN 60068-2-27)                                                     |
| Vibration (operation)                    | in acc. with IEC 60068-2-6: 5g, 150 Hz                                  |
| Air pressure (operation)                 | 79 kPa ... 108 kPa up to 2000 m above mean sea level (Without derating) |
| Air pressure (storage/transport)         | 79 kPa ... 108 kPa up to 2000 m above mean sea level (Without derating) |

## Approvals

### Conformity/Approvals

|                  |                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------|
| UL, USA / Canada | UL 61010-1, UL 61010-2-201<br>Class I, Div. 2, Groups A, B, C, D, T4<br>Class I, Zone 2, Group IIC, T4 |
| FCC              | Title 47 Part 15 Subpart B:2018 Class A                                                                |

## EMC data

|                                 |                                                                |
|---------------------------------|----------------------------------------------------------------|
| Electromagnetic compatibility   | Conformance with EMC Directive 2014/30/EU                      |
| Conformance with EMC directives | EN 61000-6-2 EN 61000-4-2 (ESD) Criterion B                    |
|                                 | EN 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A |
|                                 | EN 61000-6-2 EN 61000-4-4 (EFT burst) Criterion A              |
|                                 | EN 61000-6-2 EN 61000-4-5 (surge) Criterion B                  |
|                                 | EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A    |
|                                 | EN 61000-6-2 EN 61000-4-8 (electromagnetic fields) Criterion A |
| Noise immunity                  | EN 61000-6-2 Class A                                           |
|                                 | EN 61000-6-2:2019                                              |

### Noise emission

|                       |                   |
|-----------------------|-------------------|
| Standards/regulations | EN_61000-6-4:2019 |
|-----------------------|-------------------|

## System properties

### Functionality

|                 |                                  |
|-----------------|----------------------------------|
| Basic functions | Unmanaged switch                 |
|                 | Autonegotiation                  |
|                 | Store and Forward switching mode |

## Signaling

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Status display

LEDs: U<sub>S</sub>, link and activity per port

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1085163>



**DNV GL**

Approval ID: TAA000034U



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705



**KC**

Approval ID: R-R-PCK-1085163

**CC-Link IE Field**

**CC-Link IE Field**

Approval ID: NRT-IF-00056

**CC-Link IE Field**

**CC-Link IE Field**

Approval ID: NRT-IT-00065



**IECEx**

Approval ID: IECEx UL 21.0120X



**cUL Listed**

Approval ID: E196811



**UL Listed**

Approval ID: E196811



**ATEX**

Approval ID: UL 21 ATEX 2638X

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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                               | 7(a), 7(c)-I                                                                                                                                                                                                                      |
| China RoHS                              |                                                                                                                                                                                                                                   |
| Environment friendly use period (EFUP)  | EFUP-50                                                                                                                                                                                                                           |
|                                         | 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)                                                                                                                                                                                                              |

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PHOENIX CONTACT PTY Ltd  
Unit 7, 2-8 South Street  
Rydalmere NSW 2116  
1300 786 411  
[customerservice@phoenixcontact.com.au](mailto:customerservice@phoenixcontact.com.au)