# FL SWITCH 3006T-2FX ST - Industrial Ethernet Switch

2891037

https://www.phoenixcontact.com/us/products/2891037

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Managed Ethernet switch with six RJ45 ports at 10/100 Mbps, two ST format fiber optic ports and an operating temperature of -40°C ... +75°C

## Product description

FL SWITCH 3000 managed industrial Ethernet switches combine extensive network performance and securtiy features with complete IEEE redundancy (STP/RSTP/MST) and 15 ms recovery time extended ring redundancy. Unique web customization provides a simplified user interface for today's applications and scalable functionality for future needs. A comprehensive mix of fiber optic and copper port connections meets a wide range of applications.

## Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- -40 to 75°C and -10 to 60°C ambient temperature versions
- Extensive web diagnostics with configurable LED and remote alarm contacts
- Security options with cable locking
- Secure web-based and SNMP-based management
- Unique cleanup function hides unused configuration pages, reducing complexity, maintenance and startup times
- Auto negotiation and autocrossing detection simplifies installation and setup

ELEKTROGERÄTE RÜCKNAHME

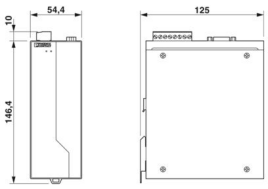
## Commercial data

| | |
|---|---|
| Item number | 2891037 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN17 |

| | |
|---|---|
| Product key | DNN125 |
| GTIN | 4046356659376 |
| Weight per piece (including packing) | 1,146.2 g |
| Weight per piece (excluding packing) | 955 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |

# Technical data

## Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 54.4 mm |
| Height | 146.4 mm |
| Depth | 125 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 |

Utilization restriction

| | |
|---|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |

## Material specifications

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

## Mounting

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

## 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 |
| No. of channels | 6 (RJ45 ports) |

Fiber optic interface

| | |
|---|---|
| Connection method | ST |
| Transmission speed | 100 Mbps (full duplex) |
| Transmission physics | multi-mode fiberglass |

| | |
|---|---|
| Transmission length | 12.1 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000) |
| | 3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600) |
| | 7.1 km (fiberglass with F-G 50/125 0.7 dB/km F1200) |
| | 3.1 km (fiberglass with F-G 50/125 1.6 dB/km F800) |
| Wavelength | 1300 nm |
| No. of channels | 2 (ST multi-mode) |

## Output data

Signal contact

| | |
|---|---|
| Control voltage | 24 V DC |
| Control current | 100 mA |

## Product properties

| | |
|---|---|
| Product type | Switch |
| Product family | Managed Switch 3000 |
| Type | Block design |

Insulation characteristics

| | |
|---|---|
| Protection class | III (VDE 0106, IEC 60536) |

Switch functions

| | |
|---|---|
| Signal contact control voltage | 24 V DC |
| Signal contact control current | 100 mA |
| Status and diagnostic indicators | LEDs: $U_{S1}$, $U_{S2}$ (redundant voltage supply), link and activity per port |
| 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 |
| Redundancy functions | ERR (Extended ring redundancy) |

## Electrical properties

| | |
|---|---|
| Local diagnostics | US1, US2 Supply voltage Green LED |
| | LNK/ACT Link status/data transmission Green LED |
| | 100 Data transmission speed LED red |
| Maximum power dissipation for nominal condition | 7.92 W |
| Test section | Supply voltage/functional ground 500 V 1 min |
| Transmission medium | Copper |

Supply

| | |
|---|---|
| Supply voltage (DC) | 24 V DC (redundant) |
| Supply voltage range | 12 V DC ... 48 V DC |
| Inrush current | 4.6 A (3.1 ms) |
| Residual ripple | 3.6 $V_{PP}$ (within the permitted voltage range) |
| Typical current consumption | 289 mA (at $U_S$ = 24 V DC) |
| Ground connection | Via DIN rail |

## Connection data

Power supply

| | |
|---|---|
| Connection method | Screw connection |
| pluggable | yes |
| Conductor cross-section, rigid | 0.2 mm² ... 2.5 mm² |
| 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) | 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) |

## Approvals

Conformity/Approvals

| | |
|---|---|
| Conformance | CE-compliant |
| ATEX | Ⓔx 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 immunity | EN 61000-6-2:2005 |

Noise emission

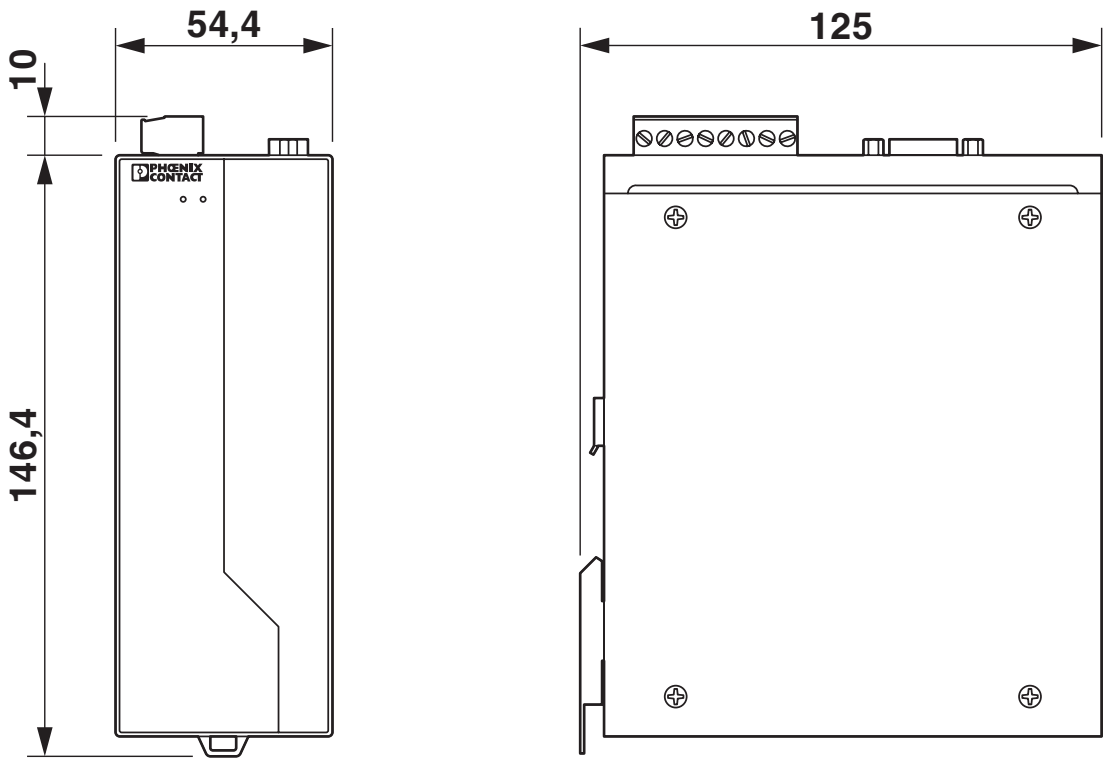
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|---|---|
| Standards/regulations | EN 61000-6-4 |

## Signaling

| | |
|---|---|
| Status display | LEDs: $U_{S1}$, $U_{S2}$ (redundant voltage supply), link and activity per port |

## Drawings

Dimensional drawing



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2891037

**UL Listed**
Approval ID: E140324

**cUL Listed**
Approval ID: E140324

**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: E196811

**cUL Listed**
Approval ID: E196811

**ATEX**
Approval ID: DEMKO 16 ATEX 1616X

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 19170401 |
| ECLASS-15.0 | 19170401 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000734 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 43222600 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 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.) | No substance above 0.1 wt% |

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