

# FL SWITCH 4008T-2SFP - Industrial Ethernet Switch



2891062

<https://www.phoenixcontact.com/us/products/2891062>

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Managed Ethernet switch with eight RJ45 ports at 10/100 Mbps and two SFP ports at 1000 Mbps. Wide operating temperature of -40°C ... +75°C.

## Product description

FL SWITCH 4000 managed industrial Ethernet switches combine Gigabit interfaces with extensive network performance for the most demanding applications. Security features with complete IEEE redundancy (STP/RSTP/MST) and 15 ms recovery time extended ring redundancy optimize network uptime. Unique web customization provides a simplified user interface for today's applications and scalable functionality for future needs. A comprehensive mix of 10/100 Mbps and Gigabit fiber optic connections combine performance with installed cost savings.

## Your advantages

- Eight 10/100 Mbps RJ45 ports for device connections and two SFP-based fiber optic LC interfaces for network trunk lines.
- -40 °C to 75 °C ambient temperature
- Secure web-based and SNMP-based management
- Extensive web diagnostics with configurable LED and remote alarm contacts
- Unique cleanup function hides unused configuration pages, reducing complexity, maintenance and startup times

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2891062             |
| Packing unit                         | 1 pc                |
| Sales key                            | DN17                |
| Product key                          | DNN125              |
| Catalog page                         | Page 318 (C-6-2019) |
| GTIN                                 | 4046356764308       |
| Weight per piece (including packing) | 1,257 g             |
| Weight per piece (excluding packing) | 965 g               |
| Customs tariff number                | 85176200            |
| Country of origin                    | TW                  |

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## Technical data

### Dimensions

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

### Notes

#### 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

|                  |          |
|------------------|----------|
| 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                             |
| Signal LEDs                   | Data receive, link status         |
| No. of channels               | 8 (RJ45 ports)                    |

#### Ethernet (SFP)

|                      |  |
|----------------------|--|
| Connection method    | SFP  |
| Transmission speed   | 100/1000 Mbps (full duplex)                          |
| Transmission physics | Depending on the SFP module                          |
| Transmission length  | up to 80 km (Depending on the fiber/SFP module used) |
| Signal LEDs          | Data receive, link status                            |
| No. of channels      | 2 (SFP ports)  |

### Product properties

|                |   |
|----------------|---|
| Type           | Block design  |
| Product type   | Switch  |
| Product family | Managed Switch 4000                                   |
| MTTF           | 49.9 Years (MIL-HDBK-217F standard, temperature 25°C, |

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|  |                       |
|--|-----------------------|
|  | operating cycle 100%) |
|--|-----------------------|

## Insulation characteristics

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

## Switch functions

|                                  |  |
|----------------------------------|--|
| 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 |
| Signal contact control voltage   | 24 V DC  |
| Signal contact control current   | 100 mA   |
| Redundancy                       | ERR (Extended ring redundancy)   |
| Status and diagnostic indicators | LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port   |

## Security functions

|                 |  |
|-----------------|--|
| 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 |
|-----------------|--|

## Electrical properties

|   |   |
|---|---|
| Local diagnostics                               | US1, US2 Supply voltage Green LED               |
|   | LNK/ACT Link status/data transmission Green LED |
| Maximum power dissipation for nominal condition | 6.67 W  |
| Test section                                    | Supply voltage/functional ground 500 V 1 min.   |
| Transmission medium                             | Copper  |
|   | FO  |

## Supply

|                             |  |
|-----------------------------|--|
| Supply voltage (DC)         | 24 V DC (redundant)                                      |
| Supply voltage range        | 12 V DC ... 48 V DC                                      |
| Inrush current              | 5.2 A (3.3 ms)   |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range) |
| Typical current consumption | 280 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 |
|-------------------|------------------|

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|                                   |   |
|-----------------------------------|---|
| 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  |

## 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                            | Ⓜ 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                  | EN 61000-6-4   |

## System properties

### Functionality

|                 |  |
|-----------------|--|
| 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 |
|-----------------|--|

## Signaling

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Status display

LEDs: U<sub>S1</sub>, U<sub>S2</sub> (redundant voltage supply), link and activity per port

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 19170401 |
| ECLASS-12.0 | 19170401 |
| ECLASS-13.0 | 19170401 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000734 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 10;<br>For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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