

## Industrial Ethernet Switch - FL SWITCH SFNB 5TX - 2891001

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Ethernet switch, 5 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

### 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 Mbps



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 457163 |
| GTIN                                 | 4046356457163   |
| Weight per Piece (excluding packing) | 263.400 g   |
| Custom tariff number                 | 85176200  |
| Country of origin                    | Taiwan  |

### Technical data

#### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

#### Dimensions

|        |        |
|--------|--------|
| Width  | 28 mm  |
| Height | 110 mm |
| Depth  | 70 mm  |

#### Ambient conditions

|   |                  |
|---|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -10 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 85 °C |

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## Technical data

### Ambient conditions

|  |   |
|--|---|
| Permissible humidity (operation)         | 5 % ... 95 % (non-condensing)                     |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)                     |
| Air pressure (operation)                 | 86 kPa ... 108 kPa (up to 1500 m above sea level) |
| Air pressure (storage/transport)         | 66 kPa ... 108 kPa (up to 3500 m above sea level) |

### Interfaces

|                               |                                   |
|-------------------------------|-----------------------------------|
| Interface                     | Ethernet (RJ45)                   |
| No. of ports                  | 5 (RJ45 ports)                    |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission physics          | Ethernet in RJ45 twisted pair     |
| Transmission speed            | 10/100 Mbps                       |
| Transmission length           | 100 m (per segment)               |
| Signal LEDs                   | Data receive, link status         |

### Function

|                                  |   |
|----------------------------------|---|
| Basic functions                  | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode |
| Additional functions             | Autonegotiation   |
| MAC address table                | 1k  |
| Status and diagnostic indicators | LEDs: U <sub>S</sub> , link and activity per port   |

### Network expansion parameters

|   |  |
|---|--|
| Cascading depth                         | Network, linear, and star structure: any |
| Maximum conductor length (twisted pair) | 100 m                                    |

### Supply voltage

|                             |  |
|-----------------------------|--|
| Supply voltage              | 24 V DC  |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range) |
| Supply voltage range        | 12 V DC ... 48 V DC                                      |
| Typical current consumption | 185 mA (at U <sub>S</sub> = 24 V DC)                     |
| Max. current consumption    | 345 mA (at 12 V DC)                                      |

### General

|                  |  |
|------------------|--|
| Mounting type    | DIN rail   |
| Type AX          | Block design   |
| Net weight       | 263.4 g  |
| Housing material | Aluminum   |
| MTTF             | 112.7 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

### Standards and Regulations

|                               |  |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise emission                | EN 61000-6-4                               |
| Noise immunity                | EN 61000-6-2                               |
| UL, USA/Canada                | Class I, Div. 2, Groups A, B, C, D         |

<https://www.phoenixcontact.com/gb/products/2891001>

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## Technical data

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 10;   |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 19170402 |
| eCl@ss 4.0    | 27250500 |
| eCl@ss 4.1    | 27250500 |
| eCl@ss 5.0    | 19030100 |
| eCl@ss 5.1    | 19030100 |
| eCl@ss 6.0    | 19170100 |
| eCl@ss 7.0    | 19170106 |
| eCl@ss 8.0    | 19170106 |
| eCl@ss 9.0    | 19170106 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000734 |
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |
| ETIM 6.0 | EC000734 |
| ETIM 7.0 | EC000734 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172901 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201410 |
| UNSPSC 13.2   | 43222612 |

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / KC / IECCE CB Scheme / EAC / cULus Listed








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### Approvals

Ex Approvals

UL Listed / cUL Listed / cULus Listed

#### Approval details

|                 |   |   |                          |
|-----------------|---|---|--------------------------|
| UL Listed       |    | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324            |
| cUL Listed      |    | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140324            |
| EAC             |    |   | RU *-<br>DE.A*08.B.00739 |
| KC              |  | <a href="http://eng.kcc.go.kr/user/ehpMain.do">http://eng.kcc.go.kr/user/ehpMain.do</a>   | KCC-REI-<br>PCK-FL289100 |
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a>   | DK-88783-A1-UL           |
| EAC             |  |   | RU*-<br>DE.*.B.00741/19  |
| cULus Listed    |  |   |                          |



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