

# FL SFP FX - Media module

2891081

<https://www.phoenixcontact.com/us/products/2891081>

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The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

## Product description

Developed according to IEC 61850-3 (Ambient conditions) DDI, Digital Diagnostic Monitoring Interface

## Your advantages

- Network structure according to IEC 61850
- IEEE 1613
- MSA compliant

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2891081       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN22          |
| Product key                          | DNN612        |
| GTIN                                 | 4046356800952 |
| Weight per piece (including packing) | 29.7 g        |
| Weight per piece (excluding packing) | 29.7 g        |
| Customs tariff number                | 85176200      |
| Country of origin                    | TW            |

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## Technical data

### Dimensions

|        |         |
|--------|---------|
| Width  | 13.7 mm |
| Height | 8.95 mm |
| Length | 56.5 mm |

### Notes

Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Material specifications

|                  |       |
|------------------|-------|
| Housing material | Metal |
|------------------|-------|

### Mounting

|               |                             |
|---------------|-----------------------------|
| Mounting type | Plug-in mounting (SFP port) |
|---------------|-----------------------------|

### Interfaces

Ethernet FO

|                              |   |
|------------------------------|---|
| Connection method            | 1 LC socket at the SFP module, 100 Mbps |
| Transmission speed           | 100 Mbps                                |
| Transmit capacity, minimum   | -19 dBm                                 |
| Transmit capacity, maximum   | -12 dBm                                 |
| Minimum receiver sensitivity | -30 dBm                                 |
| Maximum receiver sensitivity | -3 dBm                                  |
| Transmission physics         | multi-mode fiberglass                   |
| Wavelength                   | 1310 nm                                 |
| Signal LEDs                  | depending on the Factoryline device     |
| No. of channels              | 1 (LC multi-mode)                       |

### Product properties

|              |  |
|--------------|--|
| Product type | SFP module   |
| Type         | Factoryline devices with SFP slot  |
| MTTF         | 372 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| Format       | SFP (Small Form-factor Pluggable)  |

### Signaling

|                |                          |
|----------------|--------------------------|
| Status display | via a Factoryline device |
|----------------|--------------------------|

### Electrical properties

|   |                         |
|---|-------------------------|
| Maximum power dissipation for nominal condition | 0.66 W (when installed) |
| Transmission medium                             | Multi-mode fiberglass   |

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## Supply

|                         |                                |
|-------------------------|--------------------------------|
| Supply voltage          | 3.3 V (via Factoryline switch) |
| Power supply connection | via SFP slot                   |

## Connection data

|                   |                       |
|-------------------|-----------------------|
| Connection method | To insert in SFP slot |
|-------------------|-----------------------|

## Environmental and real-life conditions

### Ambient conditions

|  |   |
|--|---|
| Degree of protection                     | IP20  |
| Ambient temperature (operation)          | -40 °C ... 85 °C (non-condensing)           |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C (non-condensing)           |
| Permissible humidity (operation)         | 30 % ... 95 % (non-condensing)              |
| Permissible humidity (storage/transport) | 30 % ... 95 % (non-condensing)              |
| Vibration (operation)                    | in acc. with IEC 60068-2-6: 5g, 150 Hz      |
| 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) |

## Standards and regulations

|                          |                    |
|--------------------------|--------------------|
| Standard designation     | Ambient conditions |
| Standards/specifications | IEC 61850-3        |

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2891081>



**DNV GL**

Approval ID: TAA00000YV



**LR**

Approval ID: LR22250919TA



**NK**

Approval ID: TA24215M



**BV**

Approval ID: 48146\_B1 BV

**BSH**

Approval ID: Nr. 966



**RINA**

Approval ID: ELE014724XG001

**ABS**

Approval ID: 21\_2066186\_1\_PDA



**cULus Recognized**

Approval ID: E140403

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19179090 |
| ECLASS-15.0 | 19179090 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002608 |
|-----------|----------|

### UNSPSC

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

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## 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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | aef054ae-5c82-4e70-bccd-335bd44f47fe |

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