

# FL SFP LH - Media module



2989912

<https://www.phoenixcontact.com/pc/products/2989912>

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Gigabit SFP module for transmission up to 80 km with a wavelength of 1,550 nm.



## Product description

SFP module with a data transmission speed of 1000 Mbps, a wavelength of 1550 nm, and a maximum transmission length of 80 km.

## Your advantages

- MSA compliant

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2989912             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | DNN1ZS              |
| Catalog page                         | Page 333 (C-6-2019) |
| GTIN                                 | 4046356299749       |
| Weight per piece (including packing) | 36.3 g              |
| Weight per piece (excluding packing) | 33 g                |
| Customs tariff number                | 85176200            |
| Country of origin                    | CN                  |

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## Technical data

### Dimensions

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

### Material specifications

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

### Mounting

|               |                    |
|---------------|--------------------|
| Mounting type | Insert in SFP slot |
|---------------|--------------------|

### Interfaces

#### Ethernet FO

|                              |                                     |
|------------------------------|-------------------------------------|
| Connection method            | LC                                  |
| Transmission speed           | 1 Gbps                              |
| Transmit capacity, minimum   | 0 dBm                               |
| Transmit capacity, maximum   | 5 dBm                               |
| Minimum receiver sensitivity | -24 dBm                             |
| Maximum receiver sensitivity | -3 dBm                              |
| Transmission physics         | Single-mode fiberglass              |
| Transmission length          | 80 km (Fiberglass 9/125)            |
| Wavelength                   | 1550 nm                             |
| Signal LEDs                  | depending on the Factoryline device |
| No. of channels              | 1 (LC single mode)                  |
| Transmit capacity, minimum   | 0 dBm                               |
| Transmit capacity, maximum   | 5 dBm                               |
| Minimum receiver sensitivity | -3 dBm                              |
| Maximum receiver sensitivity | -24 dBm                             |

### Product properties

|              |                                   |
|--------------|-----------------------------------|
| Product type | SFP module                        |
| Type         | Factoryline devices with SFP slot |
| Format       | SFP (Small Form-factor Pluggable) |

### Signaling

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

### Electrical properties

|   |     |
|---|-----|
| Maximum power dissipation for nominal condition | 1 W |
| Transmission medium                             | FO  |

### Supply

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|                          |                                |
|--------------------------|--------------------------------|
| Supply voltage           | 3.3 V (via Factoryline switch) |
| Power supply connection  | via SFP slot                   |
| Max. current consumption | 300 mA                         |
| Current consumption      | 300 mA                         |

## 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)           |
| Case temperature                         | max. 85 °C (Operation)                      |
| 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     | Laser equipment safety |
| Standards/specifications | IEC 60825              |

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2989912>



**cUL Recognized**  
Approval ID: FILE E 140403



**UL Recognized**  
Approval ID: FILE E 140403



**DNV GL**  
Approval ID: TAA00000YV



**LR**  
Approval ID: LR22250919TA



**NK**  
Approval ID: TA19464M



**UL Recognized**  
Approval ID: FILE E 140403



**BV**  
Approval ID: 48146/A1 BV



**cUL Recognized**  
Approval ID: FILE E 140403



**BSH**  
Approval ID: Nr. 966



**RINA**  
Approval ID: ELE162721XG



**ABS**  
Approval ID: 21-2066186-PDA

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 19179090 |
| ECLASS-12.0 | 19179090 |
| ECLASS-13.0 | 19179090 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000310 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

REACH SVHC

Lead 7439-92-1

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