

# FL IF 2FX SM SC-D - Media module



2832205

<https://www.phoenixcontact.com/us/products/2832205>

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The figure shows a version with front connection

FO interface module for connecting 100 Base-FX single mode glass fibers (1300 nm), SC, connection direction downward

## Product description

For customers who wish to use this Interface module in the FL SWITCH MM HS (Item No. 2832328), please refer to the document entitled "Customer information for IF modules" in the download area for this Interface module.

## Your advantages

- Robust Ethernet transmission even for medium-range environments prone to interference

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2832205       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN17          |
| Product key                          | DNN123        |
| GTIN                                 | 4017918952266 |
| Weight per piece (including packing) | 107 g         |
| Weight per piece (excluding packing) | 80 g          |
| Customs tariff number                | 85176200      |
| Country of origin                    | DE            |

## Technical data

### Notes

#### Note on application

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

### Product properties

|              |                  |
|--------------|------------------|
| Product type | Extension module |
| Type         | fine granularity |

### System properties

#### Functionality

|                 |   |
|-----------------|---|
| Basic functions | Media module for modular managed switch |
|-----------------|---|

### Electrical properties

|   |   |
|---|---|
| Electrical isolation                            | 100Base-FX // supply                    |
| Local diagnostics                               | LEDs at head station / extension module |
| Maximum power dissipation for nominal condition | 21.6 W                                  |
| Test voltage                                    | 2 kV AC                                 |
| Transmission medium                             | Copper                                  |
|   | FO                                      |

#### Supply

|                             |                           |
|-----------------------------|---------------------------|
| Supply voltage              | via head station          |
| Power supply connection     | from FL SWITCH GHS or FXT |
| Typical current consumption | 200 mA                    |

### Interfaces

#### Ethernet: 100Base-FX in acc. with IEEE 802.3

|                     |   |
|---------------------|---|
| Connection method   | SC  |
| Transmission speed  | 100 Mbps                                      |
| Transmission length | 36000 m (maximum (depends on the fiber used)) |
| No. of channels     | 2   |

#### Ethernet: 100Base-FX in acc. with IEEE 802.3

|                     |  |
|---------------------|--|
| Connection method   | SC   |
| Transmission speed  | 100 Mbps                                       |
| Transmission length | 36000 m (fiberglass with F-G 9/125 0.36 dB/km) |
|                     | 32000 m (fiberglass with F-G 9/125 0.4 dB/km)  |
|                     | 26000 m (fiberglass with F-G 9/125 0.5 dB/km)  |
| Wavelength          | 1300 nm  |
| No. of channels     | 2 (SC single mode)                             |

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## Dimensions

|        |         |
|--------|---------|
| Width  | 31 mm   |
| Height | 85 mm   |
| Depth  | 72.5 mm |

## Material specifications

|  |       |
|--|-------|
| Color                                  | green |
| Flammability rating according to UL 94 | V0    |
| Housing material                       | PA    |

## Mechanical tests

|   |   |
|---|---|
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | : Operation: 25g, 11 ms duration, semi-sinusoidal shock impulse         |
|   | : Storage/Transport: 50g, 11 ms duration, semi-sinusoidal shock impulse |

## Environmental and real-life conditions

### Ambient conditions

|  |  |
|--|--|
| Degree of protection                     | IP20                                   |
| Ambient temperature (operation)          | 0 °C ... 55 °C (non-condensing)        |
| Ambient temperature (storage/transport)  | -20 °C ... 70 °C                       |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing)         |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing)         |
| Vibration (operation)                    | in acc. with IEC 60068-2-6: 5g, 150 Hz |

## EMC data

|                                 |  |
|---------------------------------|--|
| Electromagnetic compatibility   | Conformance with EMC Directive 2004/108/EC                     |
| 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 A                              |
|                                 | IEC 61000-4-6 (immunity to conducted interference) Criterion A |
|                                 | IEC 61000-4-8 (immunity to magnetic fields) Criterion A        |
| Noise immunity                  | EN 55022 (emitted interference) Criterion A                    |
|                                 | EN 61000-6-2:2005  |

### Noise emission

|                       |                 |
|-----------------------|-----------------|
| Standards/regulations | EN 61000-6-3/-4 |
|-----------------------|-----------------|

## Standards and regulations

|   |                               |
|---|-------------------------------|
| Free from substances that could impair the application of coating | In acc. with VW specification |
| Electrical isolation  | 100Base-FX // supply          |

## Mounting

|               |                    |
|---------------|--------------------|
| Mounting type | In the host system |
|---------------|--------------------|

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## Classifications

### ECLASS

ECLASS-13.0

19170411

### ETIM

ETIM 9.0

EC001467

### UNSPSC

UNSPSC 21.0

43201500

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## Environmental product compliance

### EU RoHS

|   |        |
|---|--------|
| Fulfills EU RoHS substance requirements | Yes    |
| Exemption                               | 7(c)-I |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)