

FL MC EF WDM-SET SC - FO converters



2902660

<https://www.phoenixcontact.com/us/products/2902660>

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FO converter set, consisting of type A devices and type B devices, for full duplex transmission from 10/100Base-T(X) to individual simplex fiberglass with WDM (wavelength division multiplex) technology. SC simplex fiber optic connection (1550/1310 nm).

Product description

Optical transmission with FO technology provides superior immunity to interference at maximum transmission ranges without restricting the transmission bandwidth.

Your advantages

- Device set for operation on one fiber
- Full duplex communication with only one fiber
- Transmission ranges up to 38 km
- Auto negotiation
- Auto MDI/MDI-X switch-over
- Link fault pass through (LFPT) and far end fault (FEF) functions for easy connection monitoring
- 10/100 Mbps
- Shipbuilding approval in accordance with DNV GL



Ethernet

Commercial data

| | |
|------------------------|---------|
| Item number | 2902660 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN06 |
| Product key | DNC311 |

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| | |
|--------------------------------------|---------------|
| GTIN | 4046356670616 |
| Weight per piece (including packing) | 393.7 g |
| Weight per piece (excluding packing) | 434 g |
| Customs tariff number | 85176200 |
| Country of origin | US |

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Set consists of

FL MC EF WDM-A SC - FO converters

2902658

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FO converter (replacement device A), for full duplex transmission from 10/100Base-T(X) to individual simplex fiberglass with WDM (wavelength division multiplex) technology, SC simplex fiber optic connection (1310/1550 nm). Device set (type A and type B) required for operation.

FL MC EF WDM-B SC - FO converters

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FO converter (replacement device B), for full duplex transmission from 10/100Base-T(X) to individual simplex fiberglass with WDM (wavelength division multiplex) technology, SC simplex fiber optic connection (1550/1310 nm). Device set (type A and type B) required for operation.

Technical data

Notes

Utilization restriction

| | |
|------------|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---|

Product properties

| | |
|--------------|-----------------|
| Product type | Media converter |
|--------------|-----------------|

Interfaces

| | |
|--------|----------|
| Signal | Ethernet |
|--------|----------|

Data: optical FO

| | |
|---|---------------------------------------|
| Transmission length incl. 3 dB system reserve | 38 km (F-E 9/125 0.36 dB/km) |
| | 34 km (F-E 9/125 0.4 dB/km) |
| | 28 km (F-E 9/125 0.5 dB/km) |
| | 21 km (F-G 62.5/125 0.7 dB/km F 1000) |
| | 5.5 km (F-G 62.5/125 2.6 dB/km F 600) |
| | 21 km (F-G 50/125 0.7 dB/km F 1200) |
| | 9 km (F-G 50/125 1.6 dB/km F 800) |
| Connection method | SC simplex |
| Wavelength | 1550 nm |
| | 1310 nm |
| Transmission medium | Multi-mode fiberglass |
| | Single-mode fiberglass |

Data

| | |
|---------------------|--------|
| Transmission medium | Copper |
|---------------------|--------|

Material specifications

| | |
|-----------------|------------------|
| Color (Housing) | green (RAL 6021) |
|-----------------|------------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|--|
| Ambient temperature (operation) | -40 °C ... 65 °C |
| Altitude | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| | ≤ 2000 m (in acc. with UL) |

Approvals

Corrosive gas test

| | |
|----------------|----------------------------------|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |
|----------------|----------------------------------|

Shipbuilding

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| | |
|----------------|--------|
| Identification | DNV GL |
|----------------|--------|

Shipbuilding data

| | |
|-------------|---|
| Temperature | B |
| Humidity | A |
| Vibration | A |
| EMC | B |
| Enclosure | Required protection according to the Rules shall be provided upon installation on board |

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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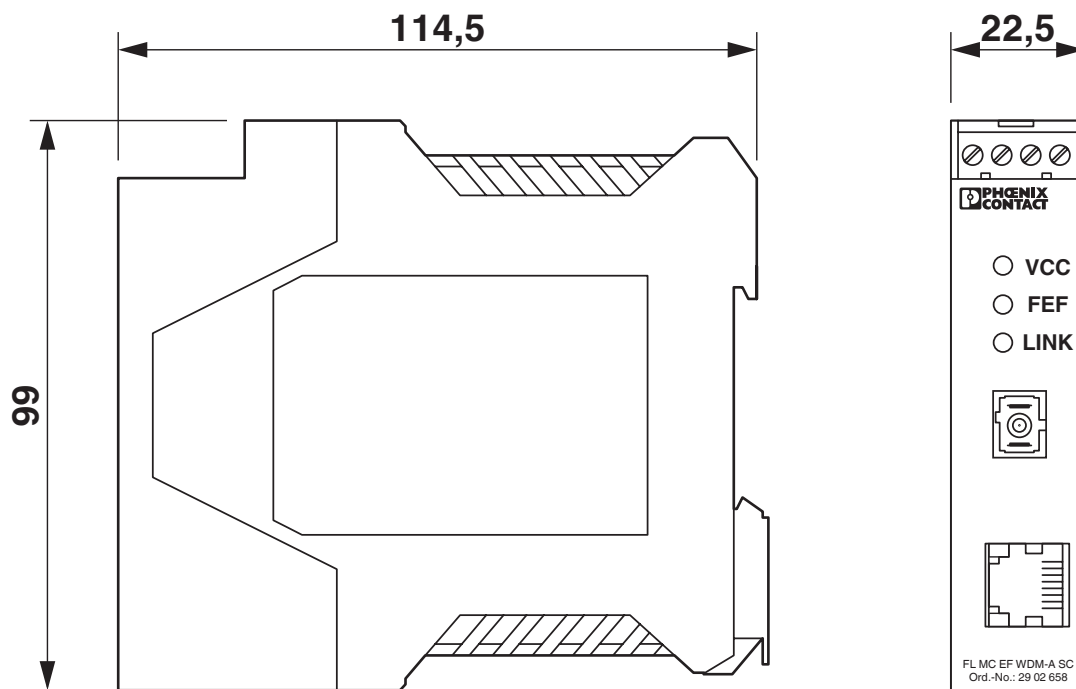


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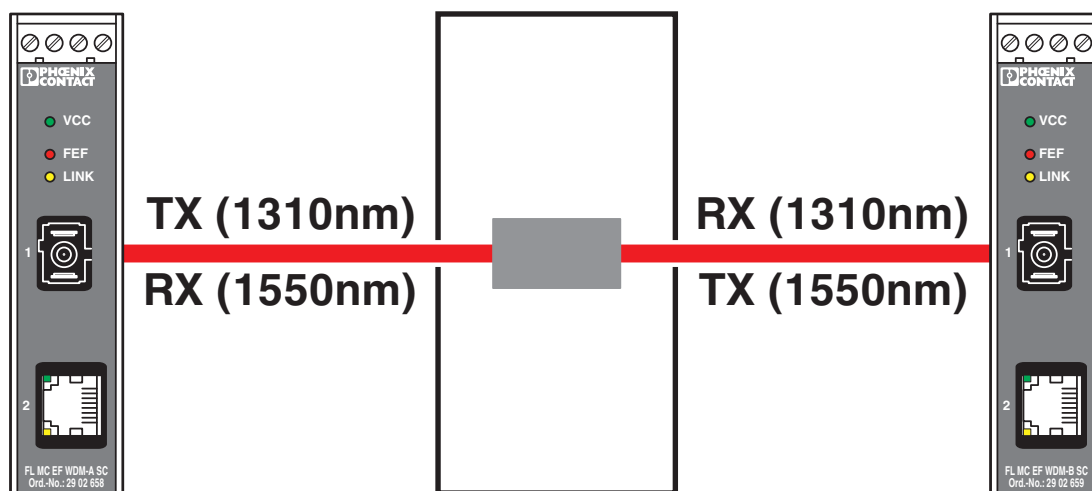
Drawings

Dimensional drawing



Slim design

Application drawing



Slip ring communication

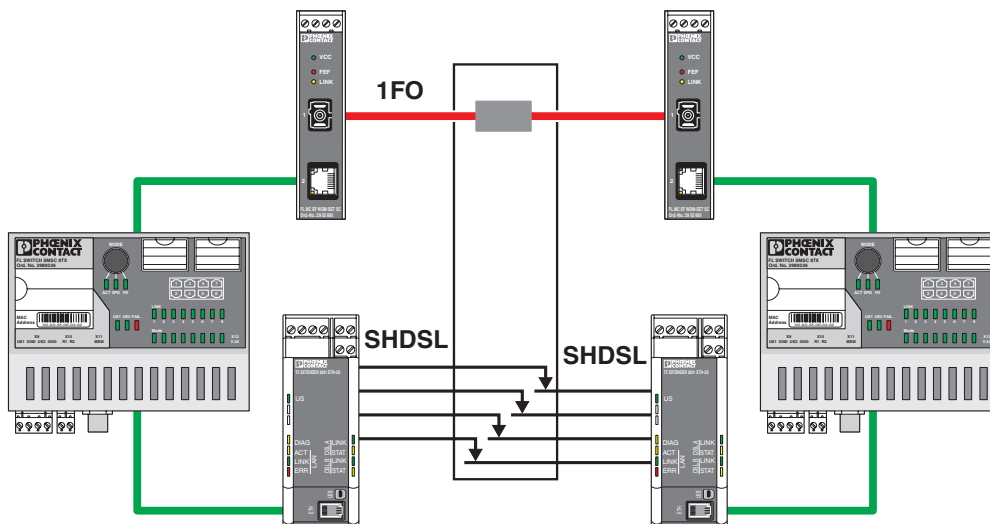
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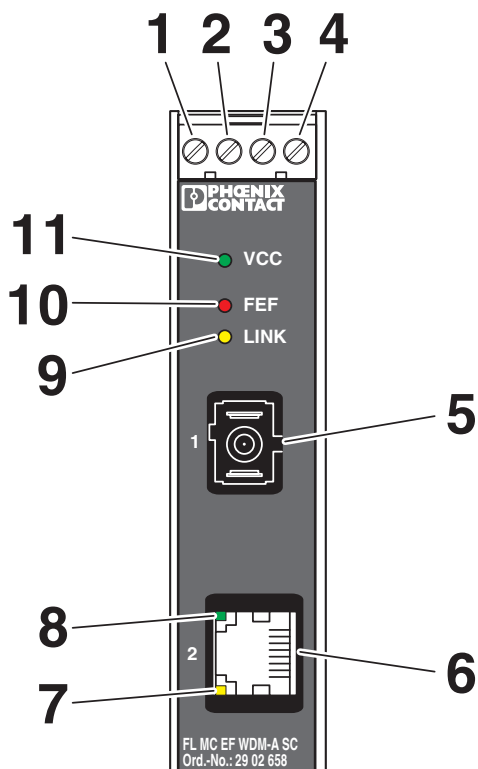
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Application drawing



Redundant slip ring communication

Schematic diagram



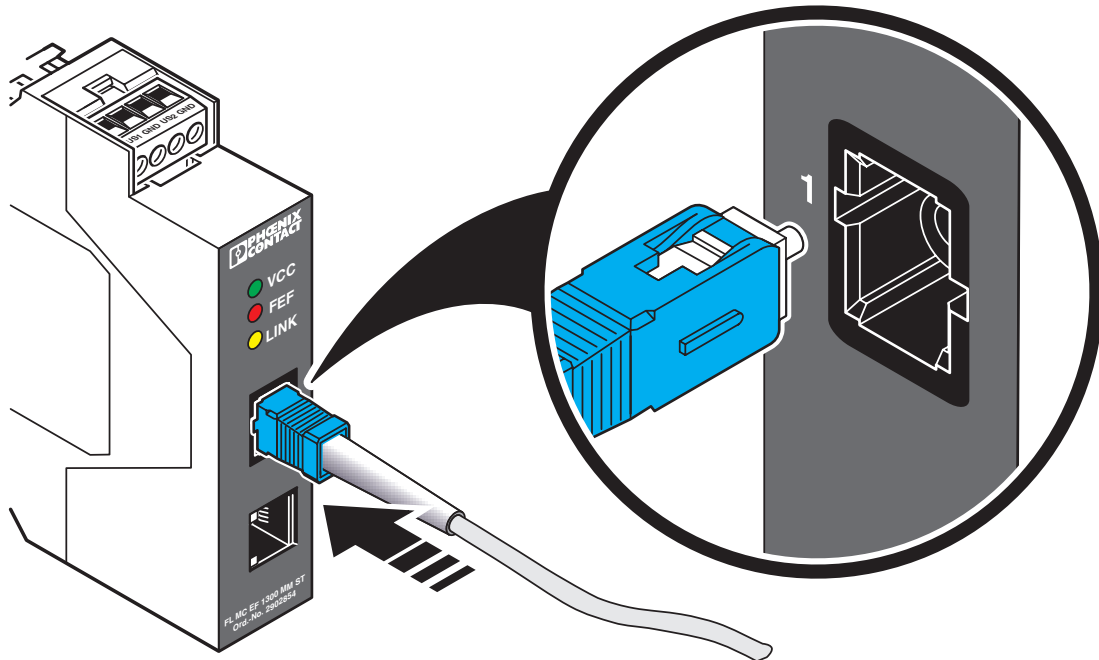
Front view

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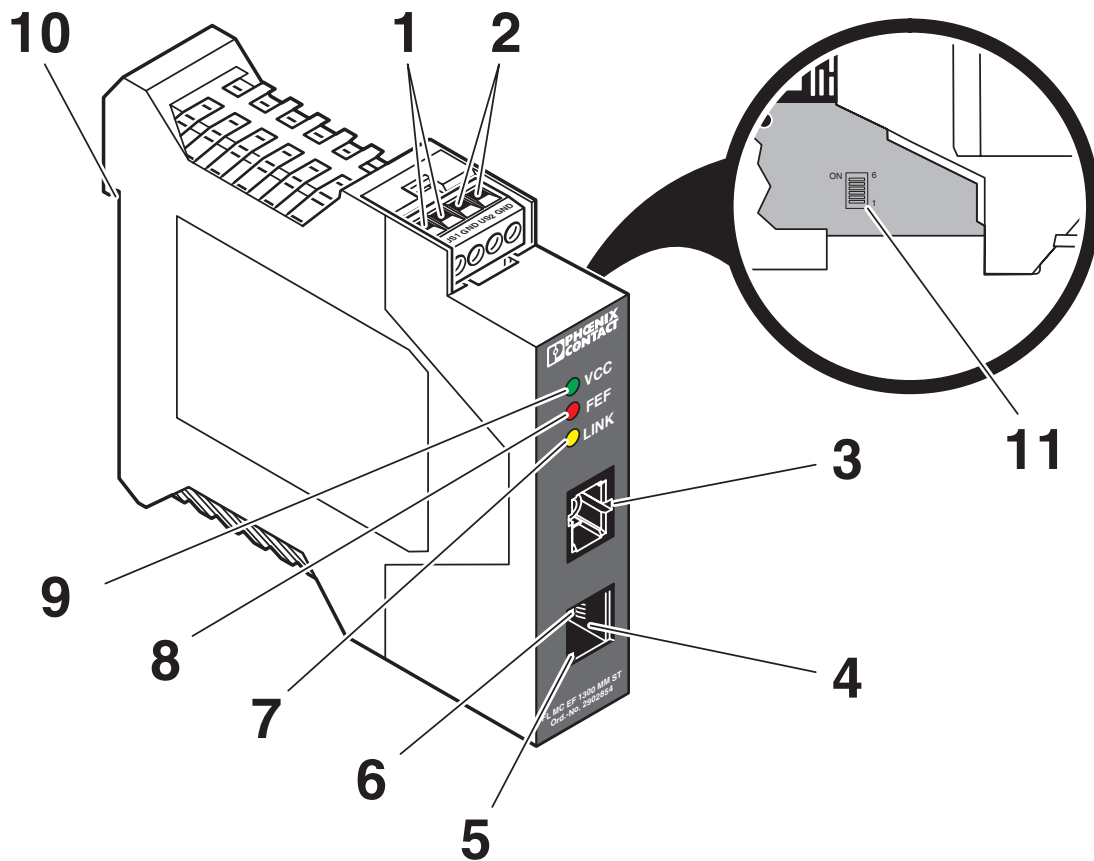
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Schematic diagram



Connect SC simplex plug

Schematic diagram



Function elements

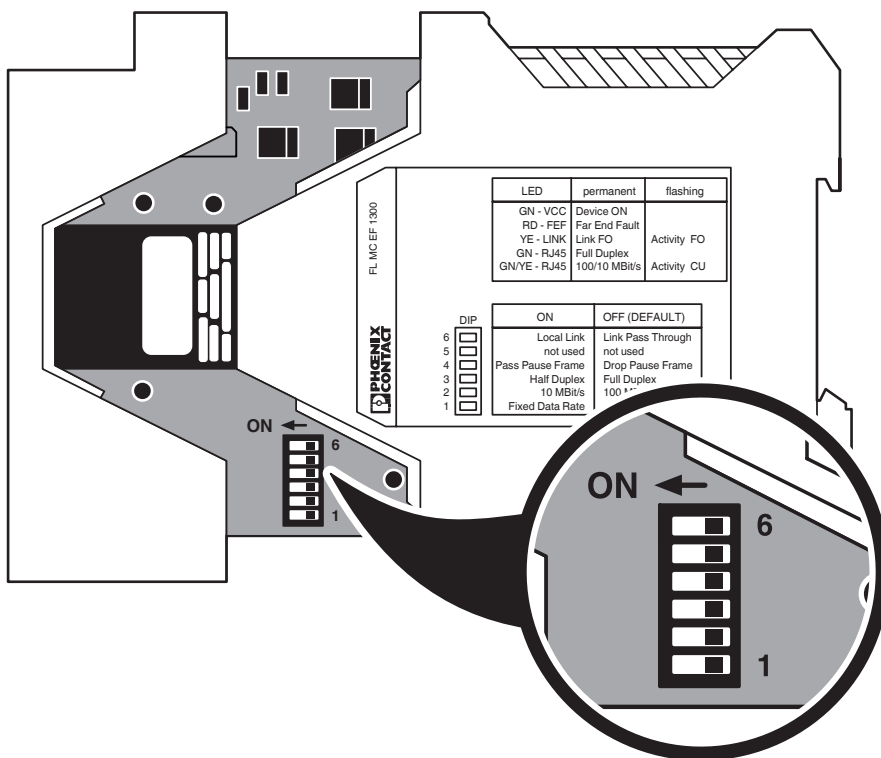
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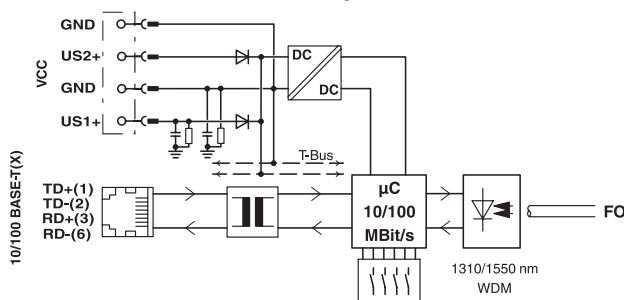
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Schematic diagram



DIP switches

Block diagram



Basic circuit diagram

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Approvals

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DNV GL

Approval ID: TAA00001KR

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 19170411 |
| ECLASS-15.0 | 19170411 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001467 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43201500 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 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.) | 1-Methyl-2-pyrrolidone (NMP)(CAS: 872-50-4) |
| | Lead(CAS: 7439-92-1) |
| | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP | c70164e3-e124-4d3b-a32a-71e11230e813 |

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