

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



ELEKTROGERÄTE
RÜCKNAHME

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 a single simplex fiber-optic cable using WDM (Wavelength Division Multiplexing) technology, SC simplex FO connection (1310/1550 nm). Device set (type A and type B) required for operation! Product is being prepared for compliance with the Cyber Resilience Act (CRA).

FL MC EF WDM-B SC - FO converters

2902659

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FO converter (replacement device B), for full duplex transmission from 10/100Base-T(X) to a single simplex fiber-optic cable using WDM (Wavelength Division Multiplexing) technology, SC simplex FO connection (1550/1310 nm). Device set (type A and type B) required for operation! Product is being prepared for compliance with the Cyber Resilience Act (CRA).

Technical data

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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Product properties

Product type	Media converter
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Interfaces

Signal	Ethernet
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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
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Material specifications

Color (Housing)	green (RAL 6021)
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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
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Shipbuilding

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Identification	DNV GL
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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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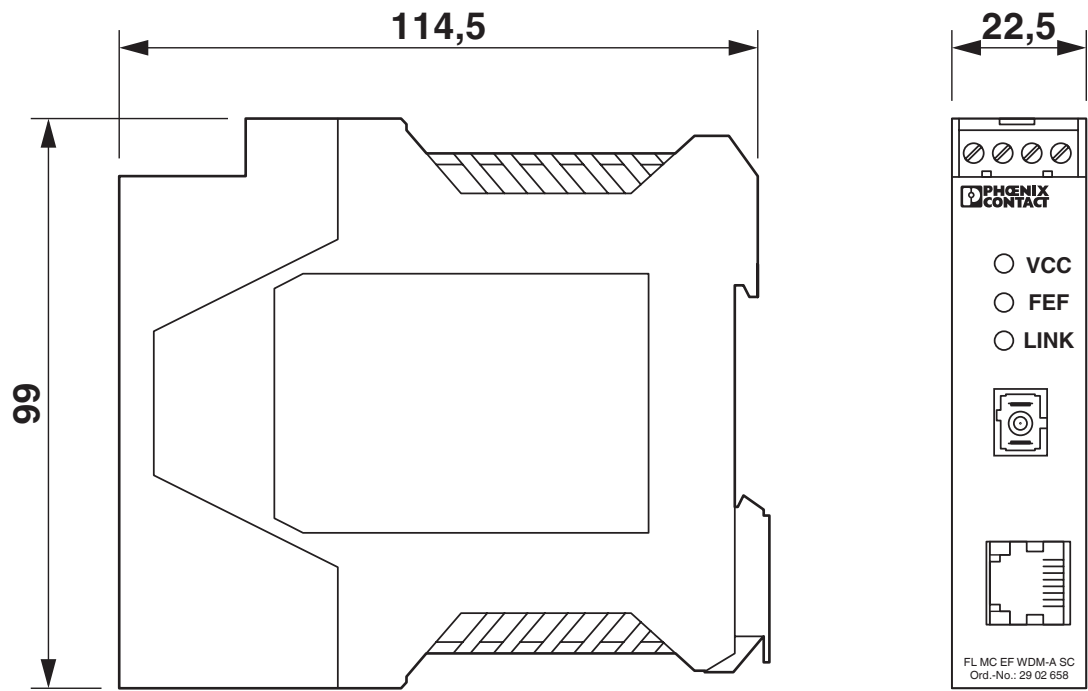
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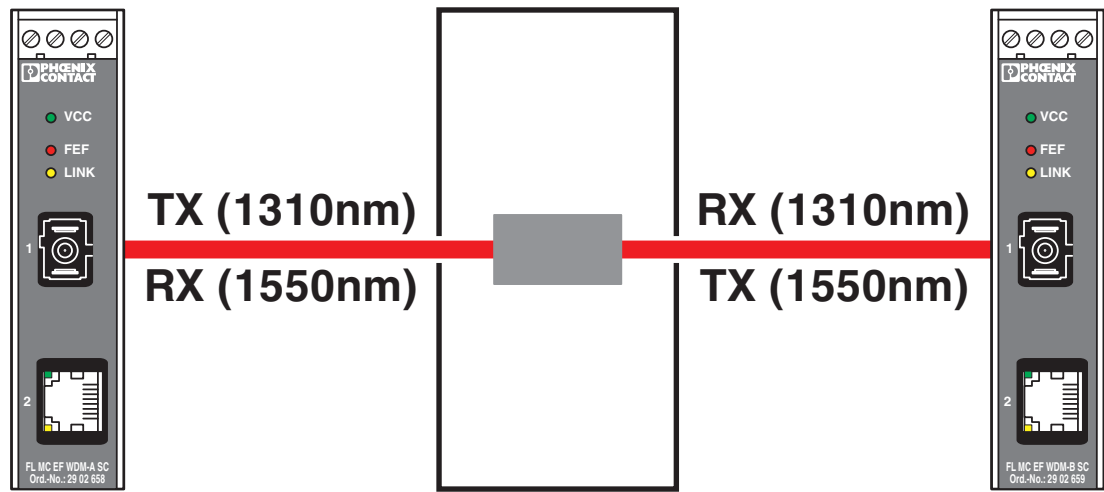
Drawings

Dimensional drawing



Slim design

Application drawing



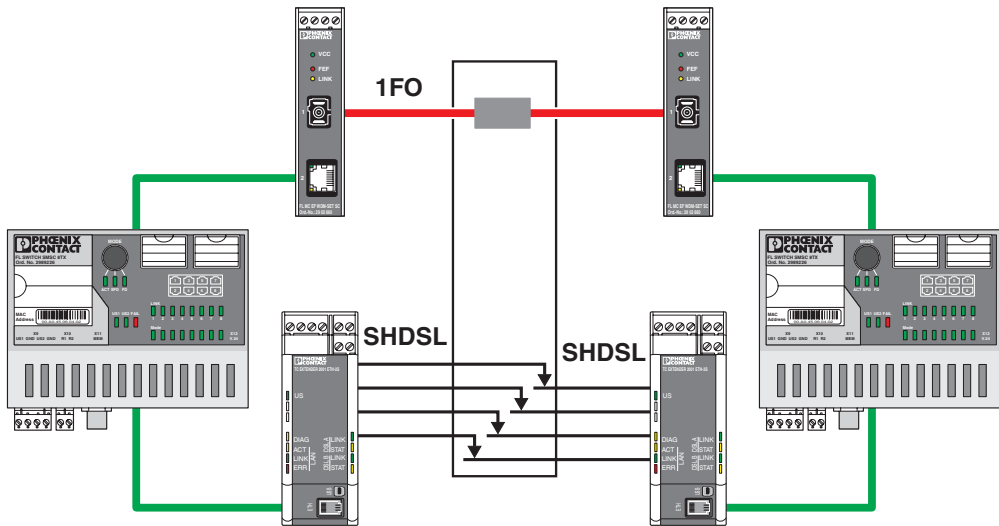
Slip ring communication

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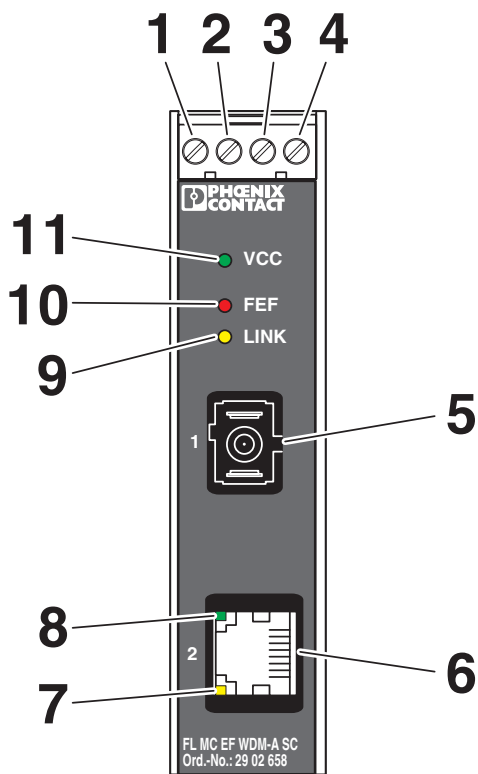
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Application drawing



Redundant slip ring communication

Schematic diagram



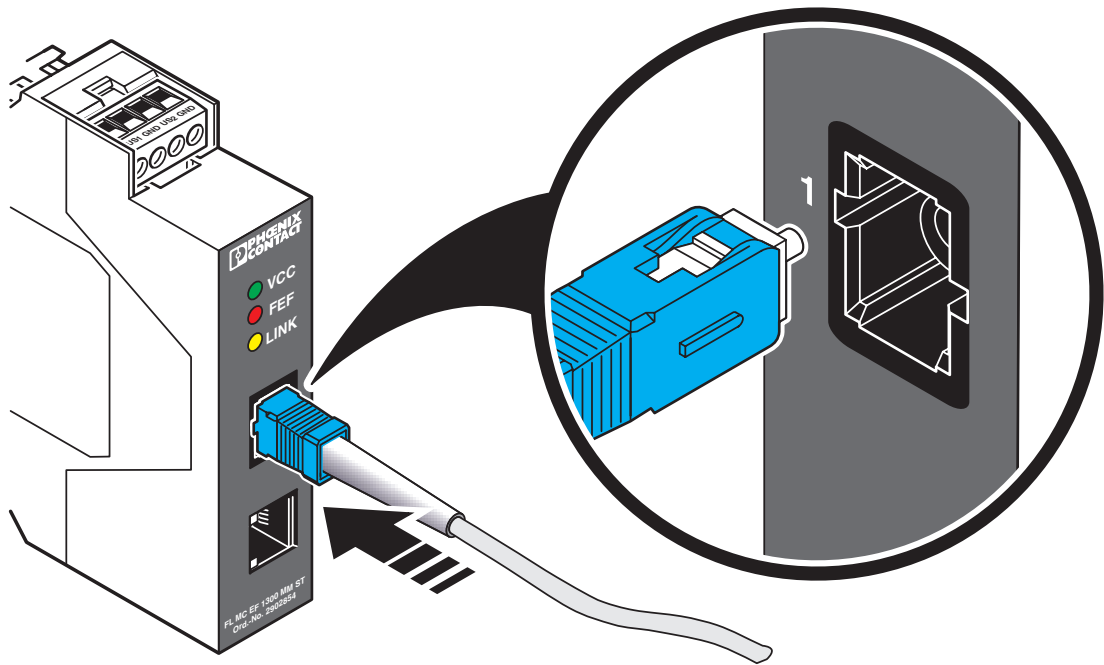
Front view

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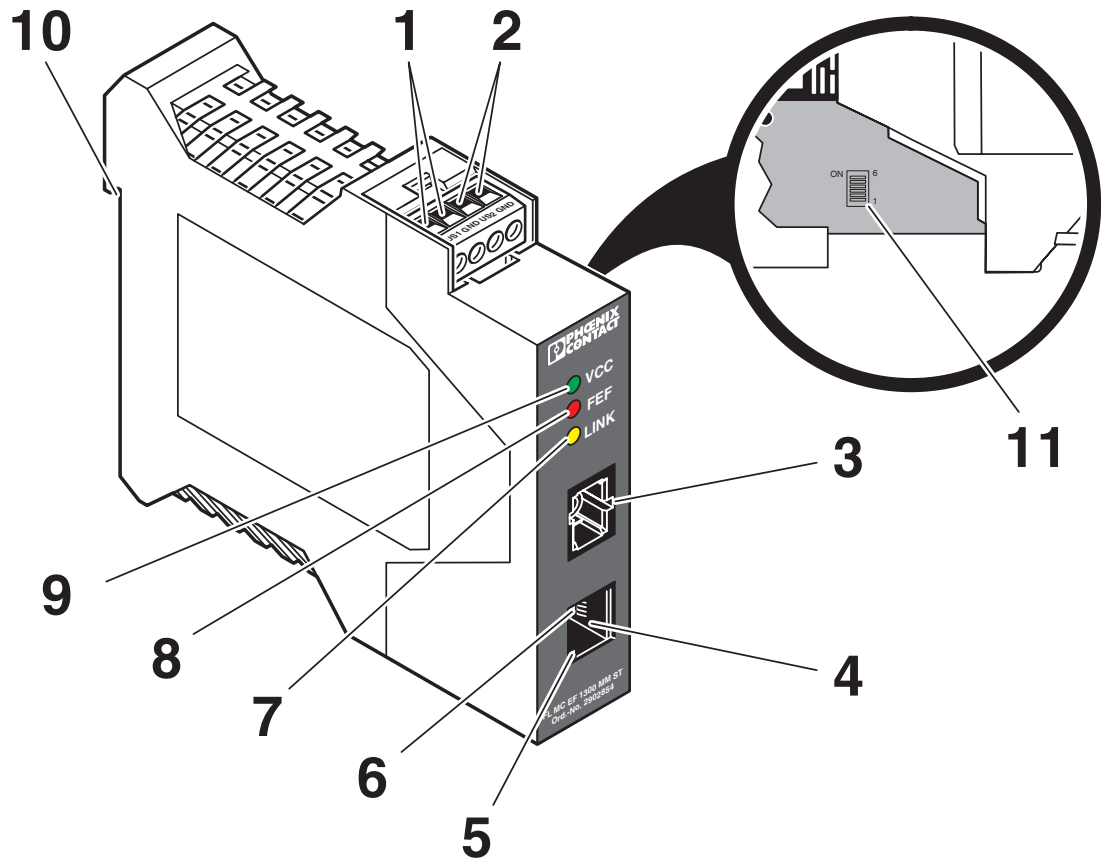
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Schematic diagram



Connect SC simplex plug

Schematic diagram



Function elements

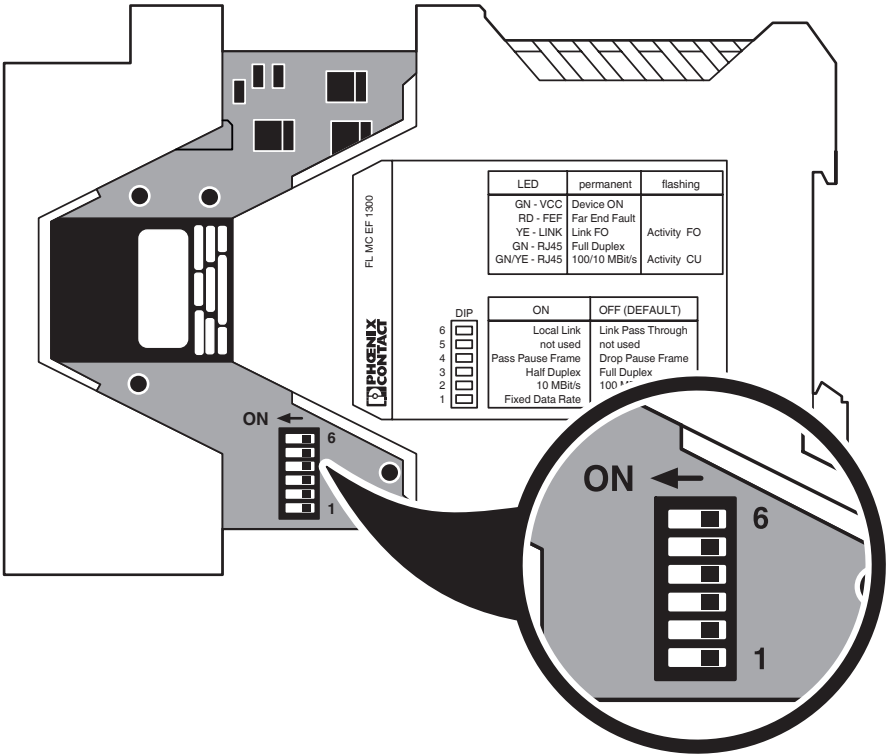
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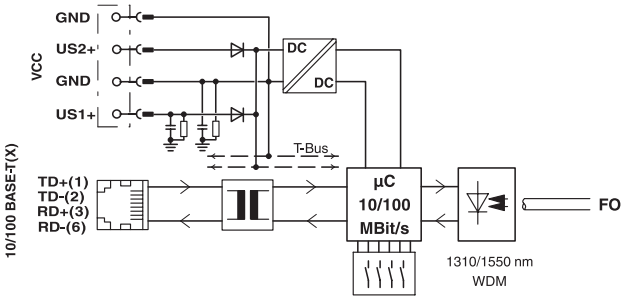
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Schematic diagram



DIP switches

Block diagram



Basic circuit diagram

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Approvals

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DNV GL

Approval ID: TAA00001KR_7

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Classifications

ECLASS

ECLASS-13.0	19170411
ECLASS-15.0	19170411

ETIM

ETIM 10.0	EC001467
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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