

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

Commercial data

Item number	2902660
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN06
Product key	DNC311
Catalog page	Page 350 (C-6-2019)
GTIN	4046356670616
Weight per piece (including packing)	434.6 g
Weight per piece (excluding packing)	434 g
Customs tariff number	85176200
Country of origin	DE



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Set consists of

FL MC EF WDM-A SC - FO converters

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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

2902659

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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.



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Technical data

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

Product properties

Product type Me	∕ledia converter
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Interfaces

Signal	Ethernet
ata: 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

Transmission medium	Copper
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Environmental and real-life conditions

Ambient conditions

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

Approvals

EAC

Identification	EAC
Corrosive gas test	
Identification	ISA-S71.04-1985 G3 Harsh Group A
Shipbuilding	



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Identification	DNV GL
DNV GL data	
Temperature	В
Humidity	A
Vibration	A
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
Nounting	
Mounting type	DIN rail mounting

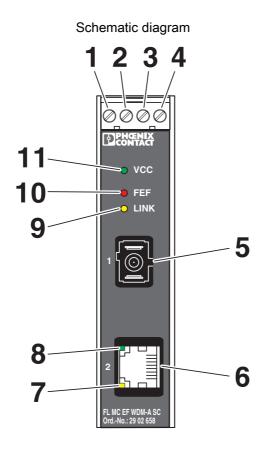
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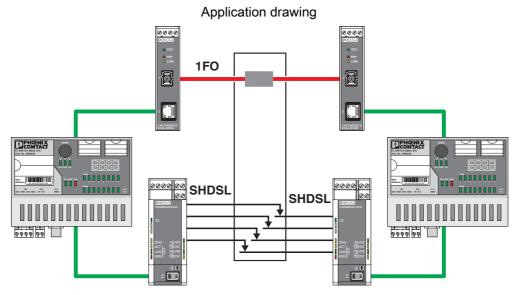
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Drawings



Front view

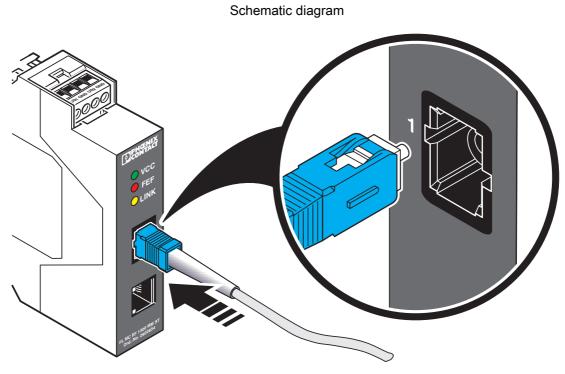


Redundant slip ring communication



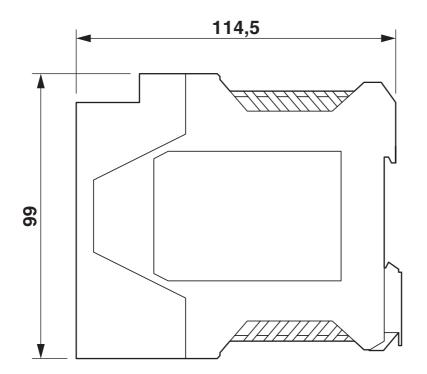
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Connect SC simplex plug

Dimensional drawing



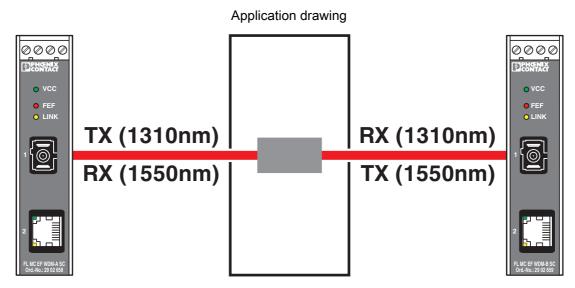


Slim design

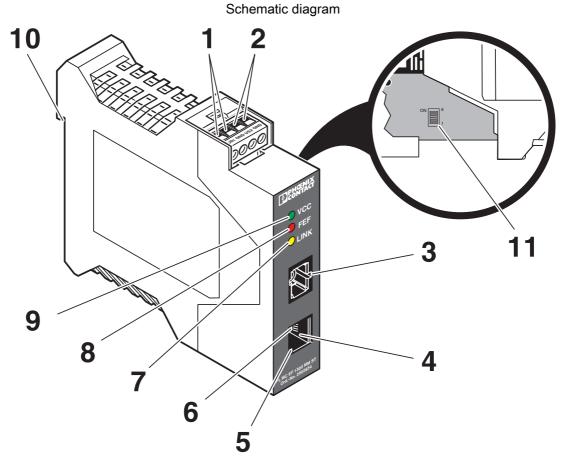


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Slip ring communication

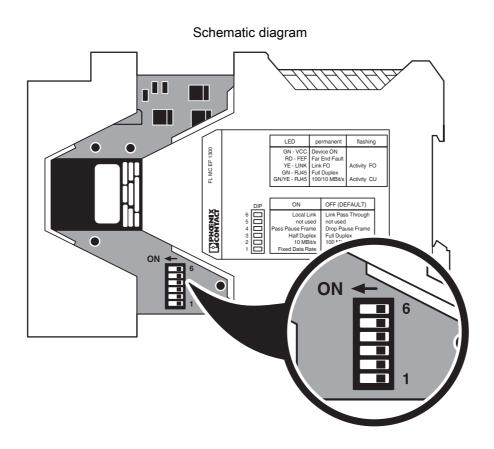


Function elements

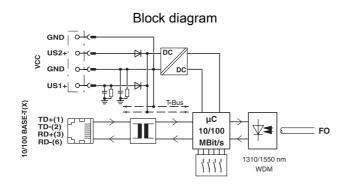


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DIP switches



Basic circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2902660



EAC

Approval ID: RU*DE*08.B.00731/19



DNV GL

Approval ID: TAA00001KR



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	19170411
ECLASS-12.0	19170411
ECLASS-13.0	19170411
ETIM	
ETIM 9.0	EC001467
UNSPSC	

43201500



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

FL MC EF WDM-A SC - FO converters

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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.



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FL CAT5 HEAVY - Data cable

2744814

https://www.phoenixcontact.com/us/products/2744814



CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 $\,$ mm 2 , solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm \pm 0.15 mm diameter

FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/us/products/2744830



By the meter, Installation cable, Ethernet CAT5 (100 Mbps), shielded, PUR halogen-free, water blue RAL 5021, 4-wire (2x2xAWG26/7, SF/UTP), color single wire: white/orange-orange, white/green-green, cable length: Free entry (1. 0 ... 1000.0 m)



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FL CRIMPTOOL - Assembly tool

2744869

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Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site



ME 22,5 TBUS 1,5/5-ST-3,81 GN - DIN rail bus connectors

2707437

https://www.phoenixcontact.com/us/products/2707437



DIN rail connector, color: green, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts



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QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply unit

2904614

https://www.phoenixcontact.com/us/products/2904614



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

ME 17,5 TBUS 1,5/5-ST-3,81 GN - DIN rail bus connectors

2709561

https://www.phoenixcontact.com/us/products/2709561

 $\ensuremath{\mathsf{DIN}}$ rail connector for $\ensuremath{\mathsf{DIN}}$ rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.





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ME 17,5 TBUS 1,5/5-ST-3,81 KMGY - DIN rail bus connectors

2713645

https://www.phoenixcontact.com/us/products/2713645



DIN rail connector, color: light grey, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

FOC-LC:PA-SC:PA-OM2:D01/1 - FO patch cable

1115607

https://www.phoenixcontact.com/us/products/1115607

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 1 m





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FOC-LC:PA-SC:PA-OM2:D01/2 - FO patch cable

1115605

https://www.phoenixcontact.com/us/products/1115605

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 2 m



FOC-SC:PA-SC:PA-OM2:D01/1 - FO patch cable

1115536

https://www.phoenixcontact.com/us/products/1115536

Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 1 m





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FOC-SC:PA-SC:PA-OM2:D01/2 - FO patch cable

1115535

https://www.phoenixcontact.com/us/products/1115535

Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 2 m $\,$



FOC-ST:PA-SC:PA-OM2:D01/1 - FO patch cable

1115574

https://www.phoenixcontact.com/us/products/1115574

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 m





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FOC-ST:PA-SC:PA-OM2:D01/2 - FO patch cable

1115573

https://www.phoenixcontact.com/us/products/1115573

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 2 $\rm m$



FOC-LC:PA-SC:PA-OM4:D01/1 - FO patch cable

1115601

https://www.phoenixcontact.com/us/products/1115601

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 1 m





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FOC-LC:PA-SC:PA-OM4:D01/2 - FO patch cable

1115600

https://www.phoenixcontact.com/us/products/1115600

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 2 m



FOC-SC:PA-SC:PA-OM4:D01/1 - FO patch cable

1115424

https://www.phoenixcontact.com/us/products/1115424

Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 1 m





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FOC-SC:PA-SC:PA-OM4:D01/2 - FO patch cable

1115423

https://www.phoenixcontact.com/us/products/1115423

Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 2 m



VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

https://www.phoenixcontact.com/us/products/1656725



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet



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VS-08-RJ45-5-Q/IP20 BK - RJ45 connector

1658008

https://www.phoenixcontact.com/us/products/1658008



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black, Ethernet

FOC-GDM-RUGGED-1016/IP20/... - FO patch cable

2901558

https://www.phoenixcontact.com/us/products/2901558



Robust GOF installation cable for assembly (IP20 heads only) for installation in stationary systems and machines, aramid strain-relief elements, with individual elements made from FRNC material, halogen-free, ozone and UV resistant, with a polyurethane (PUR) outer sheath



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FOC-GDO-1017/IP20/... - FO patch cable

2901559

https://www.phoenixcontact.com/us/products/2901559



Highly rugged GOF round cable (IP20 heads only) for assembly and for outdoor installation with integrated moisture barrier as well as rodent-proof scrim. Individual elements made from highly flexible FRNC material. The wire is ozone and UV resistant with a very rugged polyethylene outer sheath.

PSM-LWL-GDO-50/125 - FO cable

2799432

https://www.phoenixcontact.com/us/products/2799432



Fiberglass cable, duplex 50/125 $\mu m,$ by the meter, without connector, for outdoor installation



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PSM-LWL-GDM-RUGGED- 50/125 - FO cable

2799322

https://www.phoenixcontact.com/us/products/2799322



Fiber glass cable, duplex 50 $\mu m/125~\mu m,$ by the meter, without male connector, for installation in stationary systems and machines

FOC-SC:PA-SC:PA-OS2:D01/1 - FO patch cable

1115550

https://www.phoenixcontact.com/us/products/1115550

Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length 1 \mbox{m}





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FOC-SC:PA-SC:PA-OS2:D01/2 - FO patch cable

1115548

https://www.phoenixcontact.com/us/products/1115548

Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length 2 $\rm m$



FOC-ST:PA-SC:PA-OS2:D01/1 - FO patch cable

1115582

https://www.phoenixcontact.com/us/products/1115582

Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 1 m





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FOC-ST:PA-SC:PA-OS2:D01/2 - FO patch cable

1115581

https://www.phoenixcontact.com/us/products/1115581

Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 2 m



FOC-LC:PA-SC:PA-OS2:D01/1 - FO patch cable

1115618

https://www.phoenixcontact.com/us/products/1115618

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 1 m





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FOC-LC:PA-SC:PA-OS2:D01/2 - FO patch cable

1115617

https://www.phoenixcontact.com/us/products/1115617

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 2 m



FL CAT5 PATCH 0,5 - Patch cable

2832263

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Patch cable, CAT5, assembled, 0.5 m





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FL CAT5 PATCH 1,0 - Patch cable

2832276

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Patch cable, CAT5, assembled, 1 m

FL CAT5 PATCH 2,0 - Patch cable

2832289

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Patch cable, CAT5, assembled, 2 m



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FL CAT5 PATCH 3,0 - Patch cable

2832292

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Patch cable, CAT5, assembled, 3 m

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