FL MC 1000 SC - FO converters

2891320

https://www.phoenixcontact.com/us/products/2891320

FO converter with SC duplex fiber optic connection (1300 nm), for converting 100Base-TX to multi-mode fiberglass. Auto MDI(X) function and comprehensive link diagnostics. DIN rail mountable.

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Product description

The FL MC 1000 SC media converter comes with one 10/100 Mbps twisted-pair RJ45 port and one 100 Mbps multimode fiber optics port with an SC-duplex connector

Your advantages

- Auto MDI/MDI-X switch-over
- Data transfer rates of 100 Mbps
- Link fault pass through (LFPT) function for easy connection monitoring

Commercial data

Item number	2891320
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN06
Product key	DNC312
Catalog page	Page 352 (C-6-2019)
GTIN	4046356869614
Weight per piece (including packing)	278.8 g
Weight per piece (excluding packing)	278.8 g
Customs tariff number	85176200
Country of origin	TW

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Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Media converter
MTTF	95.85 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
Signal delay	± 1.3 µs (Store and Forward mode, 10/100 Mbps, depending on the frame size)

Electrical properties

Electrical isolation	VCC // FE // Ethernet
Test voltage data interface/power supply	1500 V AC (500 V AC, 1 minute)

Supply

Supply voltage range	12 V DC ... 48 V DC
Nominal supply voltage	24 V DC
Typical current consumption	73 mA (24 V DC)

Connection data

Supply

Connection method	Plug-in/screw connection via COMBICON
Conductor cross section, flexible	0.20 mm² ... 2.50 mm²
Conductor cross section, rigid	0.20 mm² ... 2.50 mm²
Conductor cross section, flexible [AWG]	24 ... 12
Conductor cross section AWG	24 ... 12
Tightening torque	5 Nm ... 7 Nm

Interfaces

Signal	Ethernet

Data: optical FO

Transmit capacity, minimum	-19 dBm
Transmit capacity, maximum	-14 dBm
Transmission length incl. 3 dB system reserve	8 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)
	3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600)
	9.6 km (fiberglass with F-G 50/125 0.7 dB/km F1200)
	5.3 km (fiberglass with F-G 50/125 1.6 dB/km F800)
Connection method	SC duplex
Wavelength	1310 nm
Minimum receiver sensitivity	-34 dBm

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Maximum receiver sensitivity	-14 dBm
Transmission medium	Multi-mode fiberglass
	GI-HCS fiber

Data: Ethernet interface, 100Base-Tx in acc. with IEEE 802.3u

Serial transmission speed	10/100 Mbps
Connection method	RJ45 jack, shielded
No. of channels	1
Transmission length	100 m (twisted pair, shielded)
Transmission medium	Copper
Signal LEDs	LNK/ACT, 100
Auto-negotiation modes	Auto
Link through	Link fault pass through
MDI-/MDI-X switchover	Auto-MDI(X)

Dimensions

Width	28 mm
Height	110 mm
Depth	70 mm

Mechanical tests

Vibration (operation) in accordance with IEC 60068-2-6:1982	: Operation: 5g, 150 Hz, criterion A
Shock in accordance with IEC 60068-2-27:1997	: 30g, 11 ms period, half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	0 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approvals

Conformity/Approvals

Conformance	CE-compliant
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Mounting

Mounting type	DIN rail: 35 mm
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715

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Classifications

ECLASS

ECLASS-13.0	19170411

ETIM

ETIM 9.0	EC001467

UNSPSC

UNSPSC 21.0	43201500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	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.)	Lead(CAS: 7439-92-1)

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