

FO converters - FL MC 2000T SC - 2891315

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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 with wide operating temperature range.

Product Description

The FL MC 2000T media converter comes with one 10/100 Mbps twisted-pair RJ45 port and one 100 Mbps multimode fiber port with an SC-duplex connector



Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	300.000 g
Custom tariff number	85176200
Country of origin	Taiwan

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

Dimensions

Width	28 mm
Height	110 mm
Depth	70 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

FO converters - FL MC 2000T SC - 2891315

Technical data

Ambient conditions

Altitude	4850 m
Degree of protection	IP20

General

Electrical isolation	VCC // FE // Ethernet
Latency	865 ns (Pass-through mode)
Test voltage data interface/power supply	500 V DC
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Net weight	298.7 g
Housing material	Aluminum
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D

Power supply

Nominal supply voltage	24 V DC
Supply voltage range	12 V DC ... 48 V DC
Typical current consumption	110 mA (24 V DC)
Connection method	Plug-in screw terminal block (COMBICON), redundancy possible
Conductor cross section flexible max.	2.50 mm ²
Conductor cross section flexible min.	0.20 mm ²
Conductor cross section solid max.	2.50 mm ²
Conductor cross section solid min.	0.20 mm ²
Max. AWG conductor cross section, flexible	12
Min. AWG conductor cross section, flexible	24
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24

Serial interface

Interface 1	Ethernet interface, 10/100Base-T(X) in acc. with IEEE 802.3u
Connection method	RJ45 socket, shielded
Transmission medium	Copper
Transmission length	100 m (twisted pair, shielded)
Auto-negotiation modes	Auto
Link through	Link fault pass through
MDI-/MDI-X switchover	Auto-MDI(X)
Signal LEDs	LNK/ACT, 100
Serial transmission speed	10/100 Mbps

Optical interface FO

FO converters - FL MC 2000T SC - 2891315

Technical data

Optical interface FO

Wavelength	1310 nm
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)
Transmission medium	Multi-mode fiberglass
	GI-HCS fiber
Connection method	SC duplex

Digital outputs

Output name	Relay output
Output description	Alarm output
Number of outputs	1
Contact type	N/C contact
Maximum switching voltage	≤ 250 V AC
Max. switching current	1 A

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 150 Hz, Criterion 3
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	30g, 11 ms half-sine shock pulse
Shock	300 m/s ² , 11 ms (IEC 60068-2)
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
Comments	Criterion A
Standards/regulations	EN 61000-4-5
	EN 55022
	EN 61000-4-6
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D

Classifications

eCl@ss

eCl@ss 5.1	27230207
eCl@ss 6.0	27230207

FO converters - FL MC 2000T SC - 2891315

Classifications

eCl@ss

eCl@ss 8.0	19179290
eCl@ss 9.0	19179290

ETIM

ETIM 4.0	EC001099
ETIM 5.0	EC001467
ETIM 6.0	EC001467

UNSPSC

UNSPSC 13.2	43222604
-------------	----------

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
-----------	--	---	---------------

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
------------	--	---	---------------

EAC		EAC-Zulassung
-----	--	---------------

FO converters - FL MC 2000T SC - 2891315

Approvals

cULus Listed



Accessories

Accessories

Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250



Patch cable, CAT5, assembled, 0.3 m

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1 m

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

FO converters - FL MC 2000T SC - 2891315

Accessories

Patch cable - FL CAT5 PATCH 3,0 - 2832292



Patch cable, CAT5, assembled, 3 m

Patch cable - FL CAT5 PATCH 5,0 - 2832580



Patch cable, CAT5, assembled, 5 m

Patch cable - FL CAT5 PATCH 7,5 - 2832616



Patch cable, CAT5, assembled, 7.5 m

Patch cable - FL CAT5 PATCH 10,0 - 2832629



Patch cable, CAT5, assembled, 10 m

Safety locking

Security element - FL PATCH GUARD - 2891424



Lockable security element

FO converters - FL MC 2000T SC - 2891315

Accessories

Key - FL PATCH GUARD KEY - 2891521



Key for lockable security element