

FL MC 2000T SM20 SC - FO converters



2891317

<https://www.phoenixcontact.com/gb/products/2891317>

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 documentation. Our general terms of use for downloads are valid.



FO converter with SC duplex fiber optic connection (1300 nm), for converting 100Base-TX to single mode fiberglass with a maximum FO segment length of 20 km. Auto MDI(X) function and comprehensive link diagnostics. DIN rail mountable with wide operating temperature range.

Commercial data

Item number	2891317
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC312
Product key	DNC312
Catalog page	Page 353 (C-6-2019)
GTIN	4046356869591
Weight per piece (including packing)	310.5 g
Weight per piece (excluding packing)	302.3 g
Customs tariff number	85176200
Country of origin	TW

Technical data

Product properties

Product type	Media converter
MTTF	77.82 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
Signal delay	865 ns (Pass-through mode) 835 ns (Auto converter mode, 100 Mbps, static)

Electrical properties

Electrical isolation	VCC // FE // Ethernet
Maximum power dissipation for nominal condition	1.922 W
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	110 mA (24 V DC)
Connection method	Plug-in screw terminal block (COMBICON), redundancy possible

Output data

Switching

Output name	Relay output
Output description	Alarm output
Number of outputs	1
Contact switching type	N/C contact
Maximum switching voltage	24 V DC
Max. switching current	100 mA

Connection data

Supply

Connection method	Plug-in screw terminal block (COMBICON), redundancy possible
-------------------	--

Interfaces

Signal	Ethernet
--------	----------

Data: optical FO

Transmit capacity, minimum	-15 dBm
Transmit capacity, maximum	-8 dBm
Transmission length incl. 3 dB system reserve	20 km (fiberglass with F-G 9/125 0.36 dB/km)
Connection method	SC duplex
Wavelength	1310 nm
Minimum receiver sensitivity	-34 dBm
Maximum receiver sensitivity	0 dBm

FL MC 2000T SM20 SC - FO converters



2891317

<https://www.phoenixcontact.com/gb/products/2891317>

Transmission medium	Single-mode fiberglass
---------------------	------------------------

Data: Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3

Data rate	10/100 Mbps
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

Material specifications

Housing material	Aluminum
------------------	----------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	4850 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Shock	300 m/s ² , 11 ms (IEC 60068-2)
Air pressure (operation)	66 kPa ... 108 kPa
Air pressure (storage/transport)	66 kPa ... 108 kPa

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
-------------------------------	---

Electrostatic discharge

Standards/regulations	EN 61000-4-2
-----------------------	--------------

FL MC 2000T SM20 SC - FO converters



2891317

<https://www.phoenixcontact.com/gb/products/2891317>

Electrostatic discharge

Comments	Criterion B
----------	-------------

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
-----------------------	--------------

Electromagnetic HF field

Comments	Criterion A
----------	-------------

Fast transients (burst)

Standards/regulations	EN 61000-4-4
-----------------------	--------------

Fast transients (burst)

Comments	Criterion A
----------	-------------

Surge current load (surge)

Standards/regulations	EN 61000-4-5
-----------------------	--------------

Surge current load (surge)

Comments	Criterion B
----------	-------------

Conducted interference

Standards/regulations	EN 61000-4-6
-----------------------	--------------

Conducted interference

Comments	Criterion A
----------	-------------

Emitted interference

Standards/regulations	EN 55032
-----------------------	----------

Mounting

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

FL MC 2000T SM20 SC - FO converters



2891317

<https://www.phoenixcontact.com/gb/products/2891317>

Classifications

ECLASS

ECLASS-11.0	19170411
ECLASS-12.0	19170411
ECLASS-13.0	19170411

ETIM

ETIM 8.0	EC001467
----------	----------

UNSPSC

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

FL MC 2000T SM20 SC - FO converters



2891317

<https://www.phoenixcontact.com/gb/products/2891317>

Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10; For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

2891317

<https://www.phoenixcontact.com/gb/products/2891317>

Accessories

MSTB 2,5/ 8-ST - PCB connector

1754562

<https://www.phoenixcontact.com/gb/products/1754562>



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: MSTB 2,5/...-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

FL PATCH GUARD - Port Guard Security Element

2891424

<https://www.phoenixcontact.com/gb/products/2891424>



Lockable security element

FL MC 2000T SM20 SC - FO converters

2891317

<https://www.phoenixcontact.com/gb/products/2891317>



FL PATCH GUARD KEY - Key

2891521

<https://www.phoenixcontact.com/gb/products/2891521>

Key for lockable security element



DT-LAN-CAT.6+ - Surge protection device

2881007

<https://www.phoenixcontact.com/gb/products/2881007>



Surge protection in accordance with Class E_A (CAT6_A), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

FL MC 2000T SM20 SC - FO converters

2891317

<https://www.phoenixcontact.com/gb/products/2891317>



FL DIN RA - DIN rail adapter

2891053

<https://www.phoenixcontact.com/gb/products/2891053>

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



FL RJ45 PROTECT CAP - Dust protection

2832991

<https://www.phoenixcontact.com/gb/products/2832991>

Dust protection caps for RJ45 socket



FL MC 2000T SM20 SC - FO converters

2891317

<https://www.phoenixcontact.com/gb/products/2891317>

E/NS 35 N - End clamp

0800886

<https://www.phoenixcontact.com/gb/products/0800886>

End clamp, width: 9.5 mm, color: gray



FL CAT5 PATCH 0,5 - Patch cable

2832263

<https://www.phoenixcontact.com/gb/products/2832263>

Patch cable, CAT5, assembled, 0.5 m



FL MC 2000T SM20 SC - FO converters

2891317

<https://www.phoenixcontact.com/gb/products/2891317>

FL CAT5 PATCH 1,0 - Patch cable

2832276

<https://www.phoenixcontact.com/gb/products/2832276>



Patch cable, CAT5, assembled, 1 m

FL CAT5 PATCH 2,0 - Patch cable

2832289

<https://www.phoenixcontact.com/gb/products/2832289>



Patch cable, CAT5, assembled, 2 m

FL MC 2000T SM20 SC - FO converters

2891317

<https://www.phoenixcontact.com/gb/products/2891317>

NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

<https://www.phoenixcontact.com/gb/products/1411854>



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, cable outlet: straight, Ethernet

NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable

1408360

<https://www.phoenixcontact.com/gb/products/1408360>



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

FL MC 2000T SM20 SC - FO converters

2891317

<https://www.phoenixcontact.com/gb/products/2891317>

NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

<https://www.phoenixcontact.com/gb/products/1408365>



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

NBC-R4AC/1,0-93B/R4AC - Patch cable

1408968

<https://www.phoenixcontact.com/gb/products/1408968>



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

FL MC 2000T SM20 SC - FO converters



2891317

<https://www.phoenixcontact.com/gb/products/2891317>

NBC-R4AC/2,0-93B/R4AC - Patch cable

1408969

<https://www.phoenixcontact.com/gb/products/1408969>



Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

NBC-R4AC/5,0-93B/R4AC - Patch cable

1408970

<https://www.phoenixcontact.com/gb/products/1408970>



Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

FL MC 2000T SM20 SC - FO converters



2891317

<https://www.phoenixcontact.com/gb/products/2891317>

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

1115550

<https://www.phoenixcontact.com/gb/products/1115550>

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



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

1115548

<https://www.phoenixcontact.com/gb/products/1115548>

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



FL MC 2000T SM20 SC - FO converters

2891317

<https://www.phoenixcontact.com/gb/products/2891317>

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

1115582

<https://www.phoenixcontact.com/gb/products/1115582>

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



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

1115581

<https://www.phoenixcontact.com/gb/products/1115581>

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



FL MC 2000T SM20 SC - FO converters



2891317

<https://www.phoenixcontact.com/gb/products/2891317>

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

1115618

<https://www.phoenixcontact.com/gb/products/1115618>

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



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

1115617

<https://www.phoenixcontact.com/gb/products/1115617>

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



Phoenix Contact 2023 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk