

MC 1000E-SM40 WDM B - FO converters



1330892

<https://www.phoenixcontact.com/us/products/1330892>

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.



Fiber optic converter with SC simplex connector (1310 nm) for 100Base-TX to singlemode fiber optics, DIN rail mountable, extended temperature range, redundant power supply, IECEx, ATEX, UL HazLoc, IEC 61850, IEEE 1613, DNV.

Product description

The MC 1000E-SM40 WDM B media converter comes with one 10/100 Mbps twisted-pair RJ45 port and one 100 Mbps WDM single-mode fiber port with an SC-simplex connector, ruggedized EMI protection, and wide temperature range.

Your advantages

- Auto MDI/MDI-X switch-over
- Data transfer rates of 100 Mbps
- Link fault pass through (LFPT) function for easy connection monitoring
- Network structure according to IEC 61850-3
- IEEE 1613
- Class 1 laser product complies with EN 60825-1

Commercial data

Item number	1330892
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN06
Product key	DNC314
GTIN	4063151625870
Weight per piece (including packing)	285 g
Weight per piece (excluding packing)	180 g
Customs tariff number	85176200
Country of origin	CA

MC 1000E-SM40 WDM B - FO converters



1330892

<https://www.phoenixcontact.com/us/products/1330892>

Technical data

Notes

Note on application

Note on application	Only for industrial use
---------------------	-------------------------

Product properties

Product type	Media converter
Product family	MC 1000E
MTTF	69.1 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	508.3 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	702.5 Years (Telcordia standard, temperature 25 °C, operating cycle 100 % (7 days a week, 24 hours a day))

Electrical properties

Maximum power dissipation for nominal condition	1.5 W
---	-------

Supply

Supply voltage range	12 V DC ... 57 V DC
Nominal supply voltage	24 V DC
	48 V DC
Typical current consumption	62 mA (24 V DC)
Max. current consumption	170 mA (12 V DC, 75 °C)

Output data

Signal

Voltage output signal	12 V DC ... 48 V DC (depending on the input voltage)
Current output signal	100 mA

Connection data

Supply

Connection method	Push-in spring connection
Single conductor/terminal point, rigid	0.2 mm ² ... 2.5 mm ²
Single-wire/terminal point, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section, flexible [AWG]	24 ... 12
Stripping length	10.00 mm

Interfaces

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

Data: optical FO

Transmit capacity, minimum	-8 dBm (9/125 µm, singlemode fiberglass)
----------------------------	--

MC 1000E-SM40 WDM B - FO converters



1330892

<https://www.phoenixcontact.com/us/products/1330892>

Transmit capacity, maximum	0 dBm (9/125 µm, singlemode fiberglass)
Connection method	SC simplex
Wavelength	1550 nm (transmit) 1310 nm (receive)
Minimum receiver sensitivity	-34 dBm (9/125 µm, singlemode fiberglass)
Maximum receiver sensitivity	0 dBm (9/125 µm, singlemode fiberglass)
Transmission medium	Single-mode fiberglass

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

Transmission speed	10/100 Mbps
Connection method	RJ45 jack, shielded
No. of channels	1
Transmission length	100 m (shielded twisted pair)
Transmission medium	Copper
Signal LEDs	LNK/ACT, SPD, Err, US, US2
Auto-negotiation modes	Auto
Link through	Link fault pass through
MDI-/MDI-X switchover	Auto-MDI(X)

Dimensions

Width	22.5 mm
Height	125 mm
Depth	90 mm

Material specifications

Housing material	Polyamide fiber reinforced Aluminum / steel sheet DC01
------------------	---

Cable/line

FO cable

Fiber types	9/125 µm Fiberglass
-------------	------------------------

Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: 5g, 150 Hz, Criterion 3
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 30g, 11 ms half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m (in acc. with UL)

MC 1000E-SM40 WDM B - FO converters



1330892

<https://www.phoenixcontact.com/us/products/1330892>

Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Shock	300 m/s ² , 11 ms (IEC 60068-2)

Approvals

CE

Certificate	CE-compliant
-------------	--------------

UL, USA/Canada

Identification	Class I, Division 2, Groups A, B, C, and D, T4
	Class I, Zone 2, IIC T4

IECEX

Identification	Ex ec IIC T4 Gc
Certificate	IECEX UL 25.0019X

ATEX

Identification	⊕ II 3 G Ex ec IIC T4 Gc
Certificate	UL 25 ATEX 3348X

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	IEC 61850-3, IEEE 1613

Electrostatic discharge

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

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

MC 1000E-SM40 WDM B - FO converters



1330892

<https://www.phoenixcontact.com/us/products/1330892>

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
Useable DIN rail type	DIN rail: 35 mm

MC 1000E-SM40 WDM B - FO converters



1330892

<https://www.phoenixcontact.com/us/products/1330892>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1330892>



cULus Listed

Approval ID: E238705

BSH

Approval ID: BSH Nr. 1176



IECEE CB Scheme

Approval ID: CA-11671-M1-UL

BSH

Approval ID: BSH Nr. 1176



cULus Listed

Approval ID: E238705



IECEx

Approval ID: IECEx UL 25.0019X



ATEX

Approval ID: UL 25 ATEX 3348X



cULus Listed

Approval ID: E196811



cULus Listed

Approval ID: E196811



IECEx

Approval ID: IECEx UL 25.0019X



ATEX

Approval ID: UL 25 ATEX 3348X

MC 1000E-SM40 WDM B - FO converters



1330892

<https://www.phoenixcontact.com/us/products/1330892>

Classifications

ECLASS

ECLASS-13.0	19170411
ECLASS-15.0	19170411

ETIM

ETIM 10.0	EC001467
-----------	----------

UNSPSC

UNSPSC 21.0	43223323
-------------	----------

MC 1000E-SM40 WDM B - FO converters



1330892

<https://www.phoenixcontact.com/us/products/1330892>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com