FL MC 2000E SM40 LC - FO converters

2891156

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FO converter with LC duplex fiber optic connection (1300 nm), for converting 100Base-TX to single mode fiberglass. Auto MDI(X) function. Comprehensive link diagnostics. DIN rail mountable, 12 ... 57 V DC supply. Meets IEC 61850-3 and IEEE 1613 standards.

Your advantages

- Data transfer rates of 100 Mbps
- Auto MDI/MDI-X switch-over
- Link fault pass through (LFPT) function for easy connection monitoring
- Network structure according to IEC 61850
- IEEE 1613

Commercial data

Item number	2891156
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC312
Catalog page	Page 353 (C-6-2019)
GTIN	4046356914239
Weight per piece (including packing)	488.4 g
Weight per piece (excluding packing)	488.4 g
Customs tariff number	85176200
Country of origin	TW

Technical data

Product properties

Product type	Media converter
MTTF	79.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
Signal delay	700 ns (Pass-through mode, 100 Mbps, static)

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 ... 57 V DC
Nominal supply voltage	24 V DC
	48 V DC
Typical current consumption	110 mA (24 V DC)

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
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	-5 dBm
Transmit capacity, maximum	0 dBm
Transmission length incl. 3 dB system reserve	40 km (fiberglass with F-G 9/125 0.36 dB/km)
	36 km (fiberglass with F-G 9/125 0.4 dB/km)
	29 km (fiberglass with F-G 9/125 0.5 dB/km)
Connection method	LC duplex

Wavelength	1310 nm
Minimum receiver sensitivity	-35 dBm
Maximum receiver sensitivity	-3 dBm
Transmission medium	Single-mode fiberglass

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

Data rate	100 Mbps
Serial transmission speed	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
Link through	Link fault pass through
MDI-/MDI-X switchover	Auto-MDI(X)
Data flow control/protocols	IEC 61850-3, IEEE 1613

Dimensions

Width	30 mm
Height	130 mm
Depth	100 mm

Material specifications

Housing material	Aluminum

Cable/line

FO cable

Fiber types	50/125 µm
	62.5/125 µm
	Fiberglass

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/s², 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

Noise immunity	IEC 61850-3, IEEE 1613, EN 61000-6-2: 2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4

Mounting

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

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com