

## FO converters - FL MC 2000E LC - 2891056

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FO converter with LC duplex fiber optic connection (1300 nm), for converting 100Base-TX to multi-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.

### Product Features

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

### Ethernet IEC 61850-3

#### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	420.0 GRM
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
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##### Dimensions

Width	30 mm
Height	130 mm
Depth	100 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)

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## Technical data

### Ambient conditions

Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Altitude	1500 m
Degree of protection	IP20
Noise immunity	IEC 61850-3, IEEE 1613, EN 61000-6-2: 2005

### General

Electrical isolation	VCC // FE // Ethernet
Test voltage data interface/power supply	500 V DC
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Net weight	315 g
Housing material	Aluminum

### Power supply

Nominal supply voltage	24 V DC
	48 V DC
Supply voltage range	12 V DC ... 57 V DC
Typical current consumption	110 mA (24 V DC)
Connection method	Plug-in screw terminal block (COMBICON), redundancy possible

### Serial interface

Interface 1	Ethernet interface, 100Base-Tx in acc. with IEEE 802.3u
Connection method	RJ45 socket, shielded
Transmission medium	Copper
Transmission length	100 m (twisted pair, shielded)
Link through	Link fault pass through
MDI-/MDI-X switchover	Auto-MDI(X)
Signal LEDs	LNK/ACT, 100
Data flow control/protocols	IEC 61850-3, IEEE 1613
Serial transmission speed	100 Mbps

### 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)
	2 km (HCS GI fiber with F-GK 200/230)

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#### Optical interface FO

Transmission medium	Multi-mode fiberglass
	GI-HCS fiber
Connection method	LC duplex

### Classifications

#### eCl@ss

eCl@ss 4.0	27230207
eCl@ss 4.1	27230207
eCl@ss 5.0	27230207
eCl@ss 5.1	27230207
eCl@ss 6.0	27230207
eCl@ss 7.0	27230207
eCl@ss 8.0	27143136

#### ETIM

ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

#### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008