

FO converters - FL MC 10/100BASE-T/FO G1300 ST - 2708986

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Fiber optic converter, for converting 10/100Base-T(X) to multimode fiberglass, (1300 nm), B-FOC (ST®) FO connection, rail-mountable, supply 24 V DC

Illustration shows FL MC 10BASE-T/
FO G850



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	184.0 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Dimensions

Width	22.5 mm
Height	99 mm
Depth	123 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

General

Electrical isolation	VCC // Ethernet
Test voltage data interface/power supply	1500 V
	1.5 kV _{rms} (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC

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Technical data

General

Noise emission	EN 50081-2
Net weight	171.7 g
Housing material	PA V0
Color	green
MTBF	573 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	138 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
ATEX	# II 3 G Ex nAC IIC T4 X (Please follow the special installation instructions in the documentation!)
UL, USA / Canada	Class I, zone 2, AEx nc IIC

Power supply

Nominal supply voltage	24 V DC $\pm 20\%$ (via pluggable COMBICON screw terminal block)
	24 V DC $\pm 5\%$ (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	≤ 95 mA (24 V DC)
Protective circuit	Protection against polarity reversal
Connection method	Plug-in screw terminal block (COMBICON), redundancy possible

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	Optionally transparent via TP and FO (default) or locally on TP
Link through	Link down is automatically forwarded to the second connection
MDI-/MDI-X switchover	Built-in switch for line (1:1) and crossover connection
Signal LEDs	Activity (yellow), Link status (green), 100 Mbps (green)
Serial transmission speed	10/100 Mbps

Optical interface FO

Transmit capacity, minimum	min. -23.5 dBm ((50/125 μ m) dynamic in link mode (average))
	min. -20 dBm ((62,5/125 μ m) dynamic in link mode (average))
	min. -20.5 dBm ((50/125 μ m) static)
	min. -17 dBm ((62,5/125 μ m) static)
Transmit capacity, maximum	max. -14 dBm ((50/125 μ m) dynamic in link mode (average))
	max. -14 dBm ((62,5/125 μ m) dynamic in link mode (average))
	max. -11 dBm ((50/125 μ m) static)
	max. -11 dBm ((62,5/125 μ m) static)

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Technical data

Optical interface FO

Minimum receiver sensitivity	min. -31 dBm (dynamic in link mode (average))
	min. -28 dBm (static)
Wavelength	1300 nm
Transmission length incl. 3 dB system reserve	6.4 km (with F-G 50/125 0,7 dB/km F 1200)
	2.8 km (with F-G 50/125 1,6 dB/km F 800)
	10 km (with F-G 62,5/125 0,7 dB/km F 1000)
	3 km (with F-G 62,5/125 2,6 dB/km F 600)
	2 km (with 2GK200/230 GI-HCS)
Transmission medium	Multi-mode fiberglass
	GI-HCS fiber
Connection method	B-FOC (ST)

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise emission	EN 50081-2
Noise immunity	EN 61000-6-2:2005
UL, USA / Canada	Class I, zone 2, AEx nc IIC

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	19179290

ETIM

ETIM 2.0	EC000739
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008

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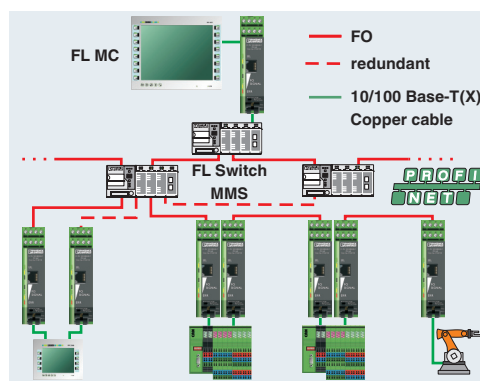
Classifications

UNSPSC

UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Drawings

Functional drawing



Star, linear, and redundant ring structure in combination with modular switches