

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



2708164

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FO converter, for converting 10/100Base-T(X) to multimode fiberglass, (1300 nm), SC duplex FO connection, rail-mountable, supply 24 V DC

Commercial data

Item number	2708164
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC311
Catalog page	Page 545 (IF-2011)
GTIN	4017918932701
Weight per piece (including packing)	173.1 g
Weight per piece (excluding packing)	166.9 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Product properties

Product type	Media converter
MTBF	595 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	156 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))

Electrical properties

Electrical isolation	VCC // Ethernet
Maximum power dissipation for nominal condition	1.9 W
Test voltage data interface/power supply	1.5 kV _{rms} (50 Hz, 1 min.)
	1500 V

Supply

Supply voltage range	10 V DC ... 30 V DC
Nominal supply voltage	24 V DC ±5 % (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	≤ 95 mA (24 V DC)
Protective circuit	Reverse polarity protection

Connection data

Supply

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

Signal	Ethernet
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Data: optical FO

Transmit capacity, minimum	min. -23.5 dBm ((50/125 µm) dynamic in link mode (average))
	min. -20 dBm ((62,5/125 µm) dynamic in link mode (average))
	min. -20.5 dBm (50/125 µm, static)
	min. -17 dBm (62,5/125 µm, static)
Transmit capacity, maximum	max. -14 dBm ((50/125 µm) dynamic in link mode (average))
	max. -14 dBm ((62,5/125 µm) dynamic in link mode (average))
	max. -11 dBm (50/125 µm, static)
	max. -11 dBm (62,5/125 µm, static)
Transmission length incl. 3 dB system reserve	6.4 km (F-G 50/125 0.7 dB/km F 1200)
	2.8 km (F-G 50/125 1.6 dB/km F 800)
	10 km (F-G 62.5/125 0.7 dB/km F 1000)
	3 km (F-G 62.5/125 2.6 dB/km F 600)
	2 km (with 2GK200/230 GI-HCS)
Connection method	SC duplex
Wavelength	1300 nm

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Minimum receiver sensitivity	min. -31 dBm (dynamic in link mode (average))
	min. -28 dBm (static)
Transmission medium	Multi-mode fiberglass
	GI-HCS fiber

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

Serial transmission speed	10/100 Mbps
Connection method	RJ45 jack, shielded
Transmission length	100 m (shielded twisted pair)
Transmission medium	Copper
Signal LEDs	Activity (yellow), Link status (green), 100 Mbps (green)
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

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color (Housing)	green (RAL 6021)
Material (Housing)	PA V0

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)	0 °C ... 55 °C
Permissible humidity (operation)	30 % ... 95 % (non-condensing)

Approvals

ATEX

Identification	Ⓔ II 3 G Ex nAC IIC T4 X
Note	Please follow the special installation instructions in the documentation!

UL, USA/Canada

Identification	Class I, Zone 2, AEx nc IIC
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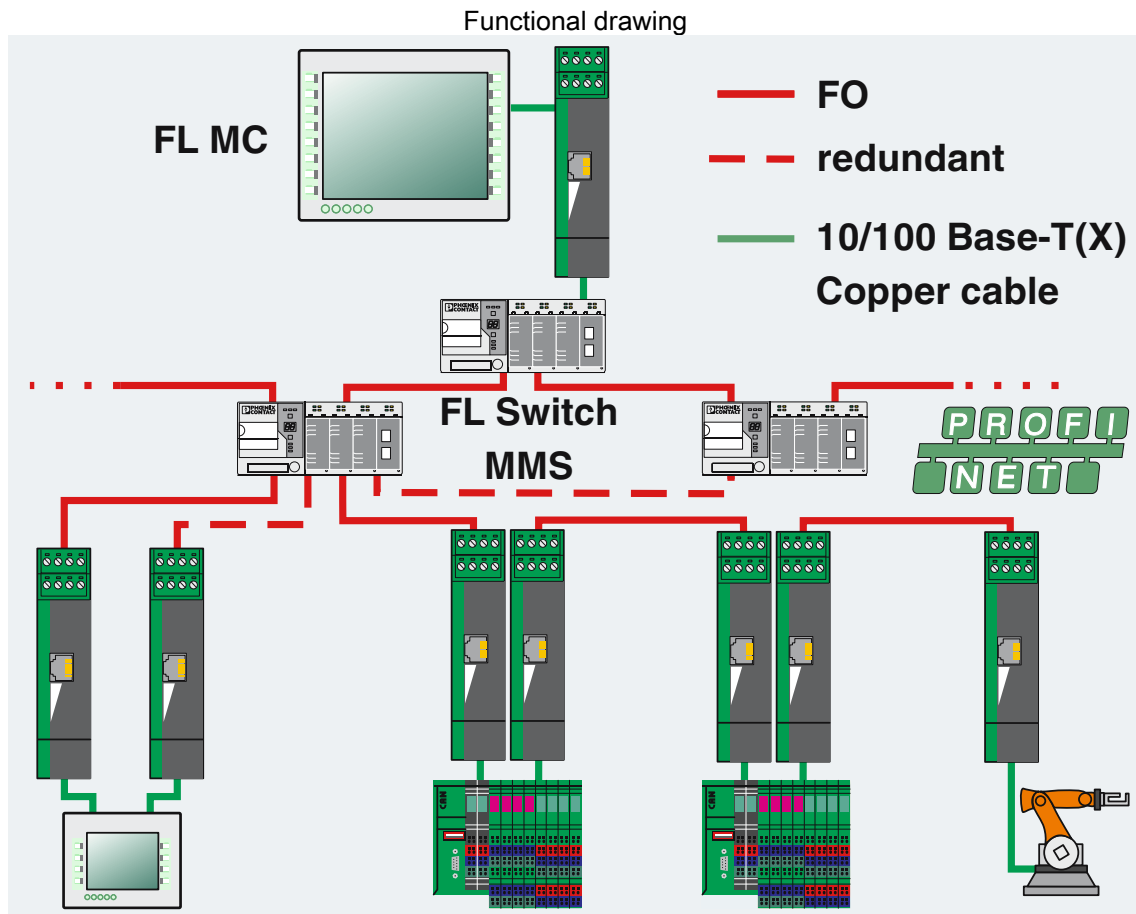
EMC data

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise immunity	EN 61000-6-2:2005
Noise emission	EN 50081-2

Mounting

Mounting type	DIN rail mounting
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Drawings



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

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Environmental product compliance

EU REACH SVHC

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