

# FL MC 10/100BASE-T/FO G1300 ST

Order No.: 2708986

Illustration shows FL MC 10BASE-T/FO G850



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



Ethernet



Commercial data	
EAN	4046356082846
Pack	1 pcs.
Customs tariff	85176200
Weight/Piece	0.1655 KG
Catalog page information	Page 529 (IF-2009)

### Product notes

WEEE/RoHS-compliant since:  
03/13/2007



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## Technical data

Serial interface	
Interface 1	Ethernet interface, 10/100BASE-T(X) in acc. with IEEE 802.3u
Data rate	10/100 MBit/s
Transmission length	100 m (twisted pair, shielded)

Type of connection	RJ45 female connector, 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 rate	10/100 Mbps

#### Optical interface 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)
Minimum receiver sensitivity	min. -31.00 dBm (dynamic in link mode (average))
	min. -28.00 dBm (static)
Wave length	1300 nm
Transmission length incl. 3 dB system reserve	min. 6400 m (with F-G 50/125 0,7 dB/km F 1200)
	min. 2800 m (with F-G 50/125 1,6 dB/km F 800)
	min. 10000 m (with F-G 62,5/125 0,7 dB/km F 1000)
	min. 3000 m (with F-G 62.5/125 2.6 dB/km F 600)
Type of connection	B-FOC (ST)

#### Power supply

Nominal supply voltage	24 V DC ±20 % (via pluggable COMBICON screw terminal block)
	24 V DC ±5% (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	max. 95 mA
Protective circuitry	Polarity protection
Type of connection	Plug-in screw terminal block (COMBICON), redundancy possible

#### General data

Width	22.5 mm
Height	122 mm
Depth	99 mm

Ambient temperature (operation)	0 °C ... 55 °C
Electrical isolation	10/100Base-T // supply
Test voltage data interface/power supply	1500 V
Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2:2005
Degree of protection	IP20
Weight	120 g
Housing material	PA V0, color green
Color	green
ATEX	Ex II 3 G Ex nAC IIC T4 X
UL, USA / Canada	Class I, zone 2, AEx nc IIC

### Certificates / Approvals



Certification	CUL, UL
Certification Ex:	CUL-EX LIS, UL-EX LIS

### Accessories

Item	Designation	Description
<b>Cable/conductor</b>		
2744830	FL CAT5 FLEX	CAT5-SF/UTP cable (J-LI02YS(ST)C H 2 x 2 x 26 AWG), light-duty, flexible installation cable 2 x 2 x 0.14 mm <sup>2</sup> , stranded, shielded, outer sheath: 5.75 mm ± 0.15 mm diameter
2744814	FL CAT5 HEAVY	CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm <sup>2</sup> , solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter
<b>General</b>		
2707437	ME 22,5 TBUS 1,5/ 5-ST-3,81 GN	DIN rail connector for current transducers, gold-plated contacts, for DIN rail mounting, 5-pos.
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A

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### Plug/Adapter

2744571	FL PLUG RJ45 GN/2	RJ45 connector, shielded, with bend protection sleeve, 2 pieces, green for crossed cables, for assembly on site. For connections that are crossed, it is recommended that the connector set with green bend protection sleeves is used.
2744856	FL PLUG RJ45 GR/2	RJ45 connector, shielded, with bend protection sleeve, 2 pieces, gray for straight cables, for assembly on site. For connections that are not crossed, it is recommended that you use the connector set with gray bend protection sleeve.

### Tools

2744869	FL CRIMPTOOL	Crimping pliers, for assembling the RJ45 connectors FL PLUG RJ45..., for assembly on site
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### Drawings

Approbationslogos (EX-Bereich)

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