

FL MC 10/100BASE-T/FO-660

Order No.: 2708193



FO converter, for converting 10/100Base-T to polymer and HCS fiber, (660 nm), SCRJ FO connection (PROFINET standard), rail-mountable, supply 24 V DC



Ethernet



Commercial data

EAN	4017918973957
Pack	1 pcs.
Customs tariff	85176200
Weight/Piece	0.1712 KG
Catalog page information	Page 528 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
09/19/2007



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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, UL flashing), 100 mbps (green)
Serial transmission rate	10/100 Mbps

Optical interface FO

Transmit capacity, minimum	min. -8 dBm ((980/1000 µm) static)
	min. -19 dBm ((200/230 µm) static)
Transmit capacity, maximum	max. -2 dBm ((980/1000 µm) static)
	max. -11 dBm ((200/230 µm) static)
Minimum receiver sensitivity	min. -23.00 dBm ((980/1000 µm) static)
	min. -26.80 dBm ((200/230 µm) static)
Wave length	660 nm
Transmission length incl. 3 dB system reserve	min. 70 m (Polymer fiber with F-K 980/1000 230 dB/km at 10 Mbps)
	min. 300 m (HCS fiber with F-S 200/230 8 dB/km with 10 mbps)
	min. 50 m (Polymer fiber with F-P 980/1000 230 dB/km at 100 Mbps)
	min. 100 m (HCS fiber with F-K 200/230 8 dB/km at 100 Mbps)
	min. 250 m (HCS GI fiber with F-GK 200/230 at 100 Mbps)
Type of connection	SC-RJ

Switching output ODL

Name	Two floating relay outputs
Maximum switching voltage	max. 60 V AC/DC
Switching current	1 A

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	max. 100 mA
Protective circuitry	Polarity protection
Type of connection	Plug-in screw terminal block (COMBICON), redundancy possible

General data

Width	22.5 mm
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Height	114.5 mm
Depth	99 mm
Ambient temperature (operation)	-20 °C ... 60 °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	125 g
Housing material	PA V0, color green
Color	green
ATEX	Ex II 3 G Ex nAC IIC T4 X
UL, USA / Canada	cUL 508 Recognized

Certificates / Approvals



Certification CUL, UL

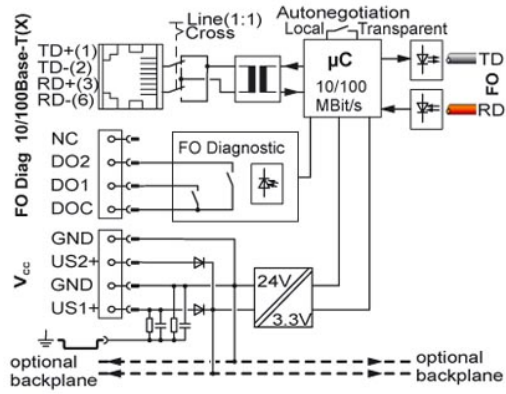
Accessories

Item	Designation	Description
Cable/conductor		
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 ² , 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 ² , solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter
2799885	PSM-LWL-HCS-RUGGED-200/230	HCS cable, duplex 200/230 µm, by the meter, without connector, for indoor installation
2799445	PSM-LWL-HCSO-200/230	HCS cable, duplex 200/230 µm, by the meter, without connector, for outdoor installation
2744319	PSM-LWL-KDHEAVY-980/1000	Polymer fiber cable, duplex 980/1000 µm, medium-weight version for permanent indoor installation, by the meter, without connector

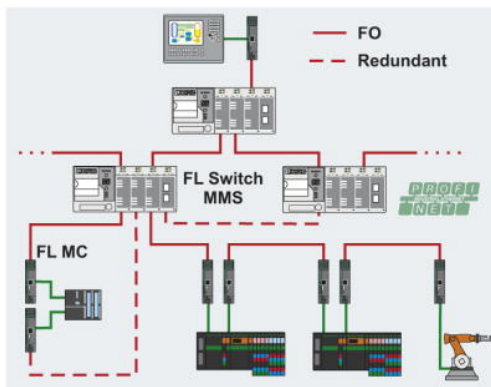
2744322	PSM-LWL-RUGGED-980/1000	Polymer fiber cable, duplex 980/1000 µm, heavy-weight version for permanent indoor installation, by the meter, without connector
2744335	PSM-LWL-RUGGED-FLEX-980/1000	Polymer fiber cable, duplex 980/1000 µm, heavy-weight, highly flexible version for flexible conduit applications, by the meter, without connector
General		
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
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.
2313070	PSM-SET-SCRJ-DUP/2-HCS	SCRJ connector set for HCS fiber, for self assembly, consisting of 2 duplex quick mounting connectors with bending protection
2708656	PSM-SET-SCRJ-DUP/2-POF	SCRJ connector set for polymer fiber, for self assembly, consisting of 2 duplex quick mounting connectors with bending protection
Tools		
2744869	FL CRIMPTOOL	Crimping pliers, for assembling the RJ45 connectors FL PLUG RJ45..., for assembly on site
2708876	PSM-HCS-KONFTOOL/SC-RJ	HCS DIY case for SCRJ quick mounting connector, including two SCRJ quick mounting connectors, stripping knife, stripping pliers, Aramid yarn scissors, fiber stripper, fiber cleaving tool and microscope
1656673	VS-SCRJ-POF-POLISH	Refilling set for VS-SCRJ-POF-KONFTOOL-POLISH, consisting of two polishing discs and a polisher

Drawings

Block diagram



Functional drawing



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