

# FL MC ETH/FO 660 T - FO converters



2313164

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Ethernet T-coupler for converting from 2x RJ45 to 2x SC-RJ FO, 660 nm, 100 m distance with HCS fiber, for all network structures, redundancy with RSTP + FRD, configuration with WBM, IGMP snooping, multicast filtering, VLAN, SNMP, and port mirroring integrated.

## Product description

The compact 4-port media converter facilitates the flexible and economic establishment of managed Ethernet networks in an automation environment. Thanks to its SCRJ connections and extended temperature range of -20°C to +55°C, it fulfills the requirements of industrial applications perfectly. Its integrated software enables networks to be established, diagnosed, and monitored on a redundant basis using IT standard protocols.

## Your advantages

- Port mirroring
- Port prioritization with V-LAN 802.1Q
- SNMP traps and values
- Extended temperature range of -20 °C ... +55 °C
- Multicast filtering with IGMP snooping
- Redundant power supply
- Configuration via web-based management
- Alarm signal contacts
- Continuous fiber optic monitoring via LED bar graph
- Compact housing

## Commercial data

Item number	2313164
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNN121
GTIN	4046356477376
Weight per piece (including packing)	354 g
Weight per piece (excluding packing)	230 g
Country of origin	DE

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Media converter
Type	Book type

### System properties

#### Functionality

Basic functions	Store-and-forward media converter standard-compliant IEEE 802.3 2, priority classes according to IEEE 802.1 P, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP)
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#### System requirements

Supported browsers	Internet Explorer 5.5 or higher
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### Electrical properties

Local diagnostics	US Supply voltage Green LED
	Link status Green LED
	Telegrams received Yellow LED
Maximum power dissipation for nominal condition	9.6 W
Transmission medium	Copper

#### Supply

Supply voltage (DC)	24 V DC
Supply voltage range	18.5 V DC ... 30.5 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	400 mA (at U <sub>S</sub> = 24 V DC)

#### Function

Signal contact control voltage	24 V
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### Interfaces

Signal	Ethernet
	PROFINET

#### Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps

Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	2 (RJ45 ports)

## POF/PCF

Connection method	SC-RJ
Transmission speed	10/100 Mbps (full duplex)
Transmission physics	POF-SCRJ
Transmission length	up to 250 m (depending on the fiber used)
No. of channels	2 (SC-RJ)

## Signaling

Status display	2 status LEDs per Ethernet: activity and duplex mode, supply voltage $U_{S1}$ and $U_{S2}$ (redundant supply voltage) as well as LED BAR GRAPH for FO ports for displaying the system reserve for each optical interface.
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## Dimensions

Width	45 mm
Height	99 mm
Depth	123 mm

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz

## EMC data

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

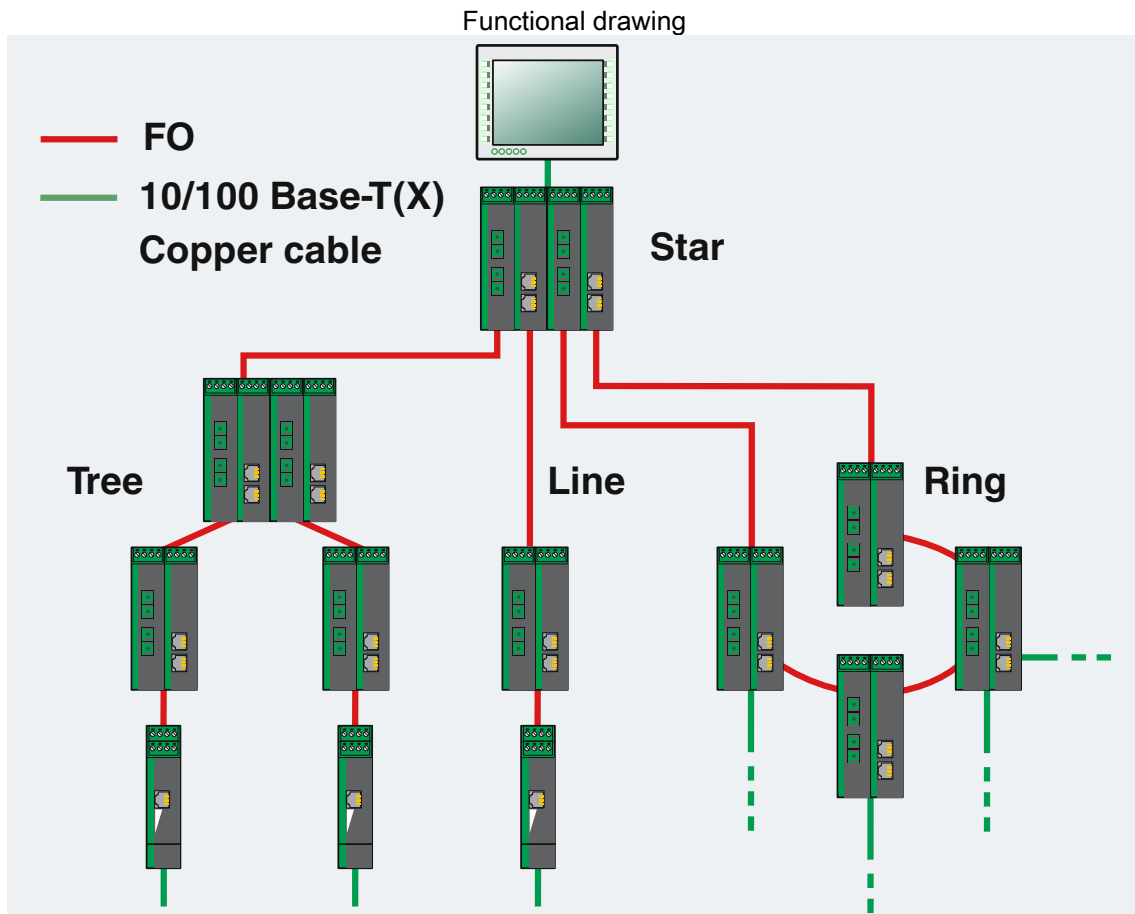
### Noise emission

Standards/regulations	EN 61000-6-3/-4
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## Mounting

Mounting type	DIN rail mounting
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## Drawings



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## Classifications

### ECLASS

ECLASS-13.0	19170411
ECLASS-15.0	19170411

### ETIM

ETIM 10.0	EC001467
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### UNSPSC

UNSPSC 21.0	43223323
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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

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