

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
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)

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 ²
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	400 mA (at U _S = 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	green
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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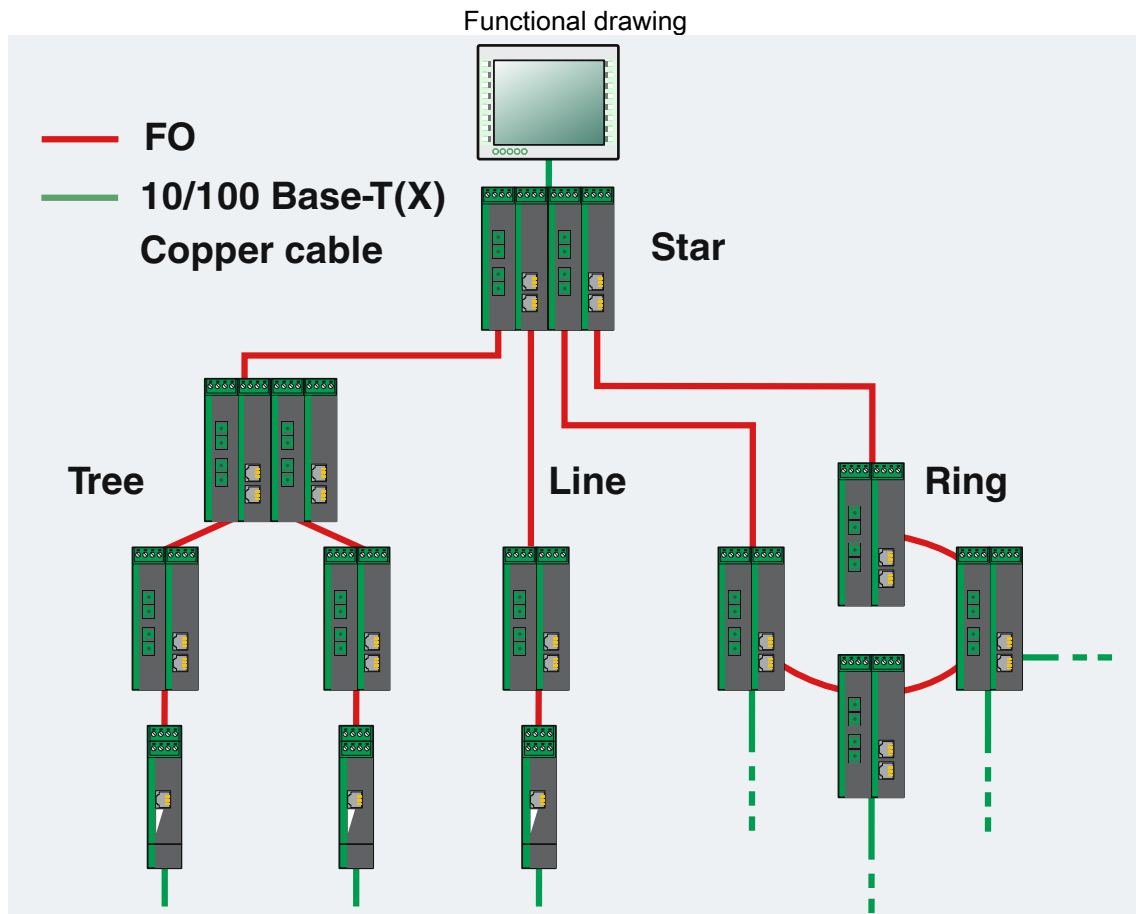
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Mounting

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 9.0	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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