

2891916

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Ethernet Lean Managed Switch with four 10/100 Mbps RJ45 ports and two 100 Mbps FX-SC single-mode ports

## Product description

The compact Lean Managed Switches (LM) enable the flexible and cost-effective creation of managed Ethernet networks in automation applications. Thanks to the wide range of connection versions and the extended temperature range of -40°C to +70°C, it optimally meets the requirements of industrial applications. It supports PROFINET conformance class A. And its integrated software enables the redundant creation, diagnostics, and monitoring of networks using IT standard protocols.

### Your advantages

- Ambient temperature -40 °C ... 70 °C
- · Configurable alarm contact
- · Web-based management, SNMP
- · Configuration can be stored externally
- · Compact housing
- · Comprehensive fiber optic versions

### Commercial data

Item number	2891916
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN17
Product key	DNN121
Catalog page	Page 298 (C-8-2015)
GTIN	4046356092487
Weight per piece (including packing)	341.7 g
Weight per piece (excluding packing)	230 g
Customs tariff number	85176200
Country of origin	DE



2891916

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## Technical data

### **Dimensions**

Width	45 mm
Height	99 mm
Depth	112 mm

### Mounting

Mounting type	DIN rail mounting

### Interfaces

### 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	4 (R.I45 ports)

### Ethernet FO

Connection method	SC
Transmission speed	100 Mbps (full duplex)
Transmission physics	Single-mode fiberglass
Transmission length	36000 m (fiberglass with F-G 9/125 0.36 dB/km)
	32000 m (fiberglass with F-G 9/125 0.4 dB/km)
Wavelength	1300 nm
No. of channels	2 (SC single mode)

#### Serial (RS-232)

,	
Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2)

### Product properties

Product type	Switch
Product family	Lean Managed Switch
Туре	Block design
Insulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Switch functions	
Diagnostic functions	1:1-Portmirroring

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Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority classes according to IEEE 802.1p, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server, PTCP filter



2891916

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PROFINET conformance class	Conformance-Class A
Filter functions	Quality of Service
	VLAN (up to 8 VLANs)
	IGMP Query
	Auto-Query-Port
	Extended Multicast Filtering
Management	Web-based management (HTTP)
	SNMP v1/v2
	Serial interface (V.24)
Redundancy	STP (Spanning Tree Protocol)
	RSTP (Rapid Spanning Tree Protocol)
	FRD (Fast Ring Detection)
	Large Tree Support
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs p Ethernet port (Link/Activity and Speed)
Supported browsers	Internet Explorer 5.5 or higher
and the formation and	
ecurity functions  Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority
Dasic full cuoris	classes according to IEEE 802.1p, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server, PTCP filter
etrical properties	
Local diagnostics	US Supply voltage Green LED
	Link status Green LED
	Telegrams received Yellow LED
Maximum power dissipation for nominal condition	6 W
Transmission medium	Copper
	FO
ıpply	
O (DO)	04)/D0/(
Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	18.5 V DC 30.5 V DC
Supply voltage range Power supply connection	18.5 V DC 30.5 V DC  Via COMBICON, max. conductor cross section 2.5 mm²
Supply voltage range Power supply connection Residual ripple	18.5 V DC 30.5 V DC  Via COMBICON, max. conductor cross section 2.5 mm²  3.6 V <sub>PP</sub> (within the permitted voltage range)
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Supply voltage range  Power supply connection  Residual ripple  Typical current consumption	18.5 V DC 30.5 V DC  Via COMBICON, max. conductor cross section 2.5 mm²  3.6 V <sub>PP</sub> (within the permitted voltage range)
Supply voltage range  Power supply connection  Residual ripple  Typical current consumption  nection data	18.5 V DC 30.5 V DC  Via COMBICON, max. conductor cross section 2.5 mm²  3.6 V <sub>PP</sub> (within the permitted voltage range)  250 mA (at U <sub>S</sub> = 24 V DC)
Supply voltage range  Power supply connection  Residual ripple  Typical current consumption  nection data  Connection method	18.5 V DC 30.5 V DC  Via COMBICON, max. conductor cross section 2.5 mm²  3.6 V <sub>PP</sub> (within the permitted voltage range)  250 mA (at U <sub>S</sub> = 24 V DC)  Screw connection
Supply voltage range Power supply connection Residual ripple Typical current consumption nection data Connection method Conductor cross section, rigid	18.5 V DC 30.5 V DC  Via COMBICON, max. conductor cross section 2.5 mm²  3.6 V <sub>PP</sub> (within the permitted voltage range)  250 mA (at U <sub>S</sub> = 24 V DC)  Screw connection  0.2 mm² 2.5 mm²

7 mm

Environmental and real-life conditions

Stripping length



2891916

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#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	30 % 95 % (non-condensing)
Permissible humidity (storage/transport)	30 % 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	80 kPa 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	70 kPa 108 kPa (3000 m above sea level)

### EMC data

Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion B
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-3/-4

## System properties

### Functionality

System requirements  Supported browsers  Internet Explorer 5.5 or higher	Basic functions	Store-and-forward switch complies with IEEE 802.3, 2 priority classes according to IEEE 802.1p, TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server, PTCP filter
Supported browsers Internet Explorer 5.5 or higher	System requirements	
	Supported browsers	Internet Explorer 5.5 or higher

## Signaling

Status display	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per
	Ethernet port (Link/Activity and Speed)



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## Classifications

### **UNSPSC**

UNSPSC 21.0 43222612



2891916

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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements  Exemption	Not applicable 7(a), 7(c)-I
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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