


FL SWITCH LM 8TX

Order No.: 2832632

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Ethernet Lean Managed Switch with eight 10/100 Mbps RJ45 ports

Commercial data

EAN	 4 046356 078382
sales group	K000
Pack	1 Pcs.
Customs tariff	85176200
Gross weight in pieces	0.2917 KG
Net weight per piece	0.2917 KG
Catalog page information	Page 25 (CAT-8-2013)

Product notesWEEE/RoHS-compliant since:
02/11/2008

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Product description

The compact lean managed switches (LM) make it possible to set up flexible and economical managed Ethernet networks in an automation environment. Its huge range of connection variants and extended temperature range of -40 °C to +70 °C enable it to perfectly cover the requirements of industrial applications. The integrated software allows networks to be redundantly set up, diagnosed and monitored using IT standard protocols.

Technical data**Dimensions**

Width	45 mm
Height	99 mm

Depth	112 mm
Interfaces	
Interface 1	Ethernet (RJ45)
No. of ports	8 (RJ45 ports)
Connection method	RJ45
Note on connection method	Auto negotiation and autocrossing
Transmission physics	Copper
Transmission speed	10/100 MBit/s
Transmission length	100 m (per segment)
Interface 5	Serial (V.24 (RS-232))
Connection method	V.24 (RS-232-C), 6-pos. MINI-DIN socket (PS/2)
Function	
Basic functions	Store-and-forward switch complies with IEEE 802.3 2, priority classes in acc. with IEEE 802.1 P TCP/IP protocol, BootP-compatible, port mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), DHCP server
Supported browsers	Internet Explorer 5.5 or higher
Redundancy	Rapid Spanning Tree 802.1w, Fast Ring Detection
Status and diagnostic indicators	Per Ethernet 2 status LEDs: LINK and status activity, 100, full duplex, supply voltage U_{S1} and U_{S2} (redundant supply voltage)
Network expansion parameters	
Cascading depth	Network, linear, and star structure: any
Maximum conductor length ((twisted pair)	100 m
Supply voltage	
Supply voltage	24 V DC
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Supply voltage range	18.5 V DC ... 30.5 V DC
Typical current consumption	250 mA (at $U_S = 24$ V DC)
General	
Mounting type	DIN rail
Type AX	Block design
Weight	230 g
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	30 % ... 95 % (no condensation)
Permissible humidity (storage/transport)	30 % ... 95 % (no condensation)
Air pressure (operation)	80 kPa ... 108 kPa (2000 above sea level)
Air pressure (storage/transport)	70 kPa ... 108 kPa (3000 above sea level)
Noise emission	EN 61000-6-3/-4
Noise immunity	EN 61000-6-2:2005

Mechanical tests

Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	Operation/Storage/Transport: 5 g, 150 Hz, Criterion 3

Conformity with EMC directives

Developed in acc. with standard	IEC 61000-6.2
Test standard	IEC 61000-4-2 (ESD)
Test result	Criterion B
Test standard	IEC 61000-4-3 (immunity to radiated interference)
Test result	Criterion A
Test standard	IEC 61000-4-4 (burst)
Test result	Criterion B
Test standard	IEC 61000-4-5 (surge)
Test result	Criterion B
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test result	Criterion A
Test standard	EN 60068-2-30

Certificates / Approvals



Certification

cULus Listed, BSH, BV, DNV, GL

Certifications applied for:

Certification Ex:

Accessories		
Item	Designation	Description
Assembly		
0800886	E/NS 35 N	End clamp, width: 9.5 mm, color: gray
Cable/conductor		
2832250	FL CAT5 PATCH 0,3	Patch cable, CAT5, assembled, 0.3 m
2832263	FL CAT5 PATCH 0,5	Patch cable, CAT5, assembled, 0.5 m
2832276	FL CAT5 PATCH 1,0	Patch cable, CAT5, assembled, 1.0 m
2832221	FL CAT5 PATCH 1,5	Patch cable, CAT5, assembled, 1.5 m
2832629	FL CAT5 PATCH 10,0	Patch cable, CAT5, assembled, 10.0 m
2832289	FL CAT5 PATCH 2,0	Patch cable, CAT5, assembled, 2.0 m
2832292	FL CAT5 PATCH 3,0	Patch cable, CAT5, assembled, 3.0 m
2832580	FL CAT5 PATCH 5,0	Patch cable, CAT5, assembled, 5.0 m
2832616	FL CAT5 PATCH 7,5	Patch cable, CAT5, assembled, 7.5 m
2891369	FL CAT6 PATCH 12,5	Patch cable, CAT6, pre-assembled, 12.5 m
2891372	FL CAT6 PATCH 15,0	Patch cable, CAT6, pre-assembled, 15.0 m
2891576	FL CAT6 PATCH 20,0	Patch cable, CAT6, pre-assembled, 20.0 m
2730611	PRG CAB MINI DIN	Connecting cable, for connecting the controller to a PC (RS-232) for PC Worx, 3 m in length
General		
2701424	FL MAINTENANCE SUPPORT	Troubleshooting in an Ethernet communication network together with a responsible person employed by the initiator.
2832991	FL RJ45 PROTECT CAP	Dust protection caps for RJ45 socket
2701426	FL START-UP SUPPORT	Startup of Phoenix Contact network components and support regarding analysis, consultation/planning or configuration/startup together with a responsible person employed by the initiator.
2701427	FL TRAINING	Training for network standards, Ethernet security or wireless with Phoenix Contact components
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.

Software

2701136	FL SNMP OPC AGENT V3	SNMP-OPC agent, German and English, for integrating OPC-based automation solutions in company-wide network management systems
2701139	FL SNMP OPC SERVER V3	SNMP-OPC server, German and English, for monitoring and configuration of SNMP-capable equipment in HMI and SCADA systems

Tools

2744869	FL CRIMPTOOL	Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site
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