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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

FL SWITCH LM 4TX/2FX

Order No.: 2832658

Ethernet lean managed switches with four RJ45 ports, 10/100 Mbps, with auto crossing and auto negotiation and two glass fiber SC FO ports (multimode), 100 Mbps (100BASE-FX), SNMP management, redundancy via Rapid Spanning Tree (IEEE 802.1w) and Fast Ring Detection, VLAN, multicast filtering, IGMP snooping.

Commercial data

GTIN (EAN)	4 046356 101127
sales group	K000
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 182 (AX-2009)

Product notes

WEEE/RoHS-compliant since: 08/29/2008

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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

Interfaces

Interface	Ethernet
No. of ports	4 (RJ45 ports)
Type of connection	RJ45 female connector, auto negotiation
Transmission physics	Copper
Transmission speed	10/100 MBit/s
Interface	Fiber optic interface
No. of ports	2 (SC multimode)
Type of connection	SC duplex
Transmission length	11000 m (glass fiber with F-G 62.5/125 0.7 dB/km F1000)
	6400 m (glass fiber with F-G 50/125 0.7 dB/km F1200)
	3000 m (glass fiber with F-G 62.5/125 2.6 dB/km F600)
	2800 m (glass fiber with F-G 50/125 1.6 dB/km F800)
Interface	Serial (V.24 (RS-232))
Type of connection	V.24 (RS-232-C), 6-pos. MINI-DIN female connector (PS/2)

Function

Basic functions	Store and forward switch complies with IEEE 802.3 2 priority classes in acc. with IEEE802.1 P TCP/IP protocol, BootP-capable, port mirroring, integrated web server function, multicast filtering, IGMP snooping, Rapid Spanning Tree (RSTP)
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	400 mA (at U_S = 24 V DC)

General data

Weight	230 g
Width	45 mm
Height	99 mm
Depth	112 mm
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

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

Certificates / Approvals

Certification	BV, CUL, DNV, GL, UL

Accessories

Item	Designation	Description

Cable/conductor

Item	Designation	Description
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

Female insert

Item	Designation	Description
1654358	VS-SCRJ-GOF-KU	SCRJ coupling insert, duplex, for VS-PP-19-1HE-16-F patch panel and VS-TO...F...terminal outlets and VS-SI-FP-2F front plate, can be used for glass multi-mode, HCS and polymer fiber types

General

Item	Designation	Description
0800886	E/NS 35 N	End clamp, width: 9.5 mm, color: gray
2891165	FL PF 2TX CAT5E	Patch field with two RJ45 CAT5e network connections
2891178	FL PF 8TX CAT5E	Patch field with eight RJ45 CAT5e network connections
2832991	FL RJ45 PROTECT CAP	Dust protection caps for RJ45 female connector
1654400	VS-PC-2XGOF-50-SCRJ/ SCDU-1	Assembled fiber optic cable, break-out cable, glass fiber multi-mode 50/125 µm, SCRJ/IP20 on SC-duplex/IP20, for installation inside control cabinets, length: 1 m

Plug/Adapter

Item	Designation	Description
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.

| 2730611 | PRG CAB MINI DIN | Connection cable, to connect Remote Field Controllers to a PC (RS-232) for PC WORX, 3 m in length |

Software

| 2832166 | FL SNMP OPC SERVER | SNMP-OPC server, German and English, for monitoring and configuration of SNMP-capable equipment in HMI and SCADA systems |
| 2831044 | FL SWT | Factory Manager, multilingual, configuration and diagnostics software for ETHERNET networks in automation |

Tools

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

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