

## Switch - FL SWITCH LM 5TX-E - 2989336

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Ethernet Lean Managed Switches with five RJ45 ports, 10/100 Mbps, SNMP management (Simple Network Management Protocol), redundancy via Rapid Spanning Tree (IEEE 802.1w) and fast ring detection, multicast filtering, IGMP snooping, 24 V DC power supply, redundant

### 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.

### Why buy this product

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

### Key commercial data

|                        |   |
|------------------------|---|
| Packing unit           | 0   |
| Minimum order quantity | 1   |
| GTIN                   | <br>4 046356 342438 |
| Custom tariff number   | 85176200  |
| Country of origin      | GERMANY   |

### Technical data

#### Interfaces

|                      |                     |
|----------------------|---------------------|
| Interface 1          | Ethernet            |
| No. of ports         | 5 (RJ45 ports)      |
| Connection method    | RJ45                |
| Transmission physics | Copper              |
| Transmission speed   | 10/100 MBit/s       |
| Transmission length  | 100 m (per segment) |

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## Technical data

### 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 US1 and US2 (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 VPP (within the permitted voltage range) |
| Supply voltage range        | 18.5 V DC ... 30.5 V DC                      |
| Typical current consumption | 250 mA (at US = 24 V DC)                     |

### General data

|  |   |
|--|---|
| Width                                    | 45 mm                                     |
| Height                                   | 99 mm                                     |
| Depth                                    | 112 mm                                    |
| Mounting type                            | DIN rail                                  |
| Type AX                                  | Block-oriented                            |
| 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                         |

### 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)                             |

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## Technical data

### Conformity with EMC directives

|               |  |
|---------------|--|
| Test result   | Criterion B  |
| Test standard | IEC 61000-4-6 (immunity to conducted interference) |
| Test result   | Criterion A  |

## Classifications

### eclass

|            |          |
|------------|----------|
| eCl@ss 4.0 | 24010504 |
| eCl@ss 4.1 | 24010504 |
| eCl@ss 5.0 | 19030117 |
| eCl@ss 5.1 | 19030117 |
| eCl@ss 6.0 | 19170106 |

### etim

|          |          |
|----------|----------|
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |

### unspsc

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 43201410 |
|--------------|----------|

## Accessories

### Accessories

#### Cable/conductor

Connecting cable - PRG CAB MINI DIN - 2730611



Connecting cable, for connecting the controller to a PC (RS-232) for PC Worx, 3 m in length

Fiber optic cables - VS-PC-2XGOF-50-SCRJ/SCDU-1 - 1654400



Assembled fiber optic cable, break-out cable, fiberglass multi-mode 50/125 µm, SCRJ/IP20 on SC-duplex/ IP20, for installation inside control cabinets, length: 1 m

### Female insert

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### Accessories

Fiber optic coupling - VS-SCRJ-GOF-KU - 1654358



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

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### Plug/Adapter

RJ45 plug connector - FL PLUG RJ45 GR/2 - 2744856



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.

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RJ45 plug connector - FL PLUG RJ45 GN/2 - 2744571



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.

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### Software

Software - FL SWT - 2831044



Factory Manager, multilingual, configuration and diagnostics software for ETHERNET networks in automation

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### Tools

Assembly tool - FL CRIMPTOOL - 2744869



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

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### Accessories

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 female connector

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End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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Patch panels - FL PF 2TX CAT5E - 2891165



Patch field with two RJ45 CAT5e network connections

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Patch panels - FL PF 8TX CAT5E - 2891178



Patch field with eight RJ45 CAT5e network connections

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