# Switch - FL SWITCH SF 4TX/3FX ST - 2832603

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Ethernet switch, 4 TP RJ45 ports, 3 FO ports, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), auto crossing function

## Product Features

- Auto negotiation and autocrossing detection simplifies installation and setup
- Relay contact for alarm processing of voltage states
- Security options with cable locking
- Local diagnostic indicators with LEDs
- RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps

**Ethernet**

## Key commercial data

| | |
|---|---|
| Packing unit | 1 |
| Minimum order quantity | 250 |
| Catalog page | Page 93 (AX-2011) |
| GTIN | 4 046356 044097 |
| Custom tariff number | 85176200 |
| Country of origin | TAIWAN |

## Technical data

### Interfaces

| | |
|---|---|
| Interface 1 | Ethernet (RJ45) |
| No. of ports | 4 (RJ45 ports) |
| Connection method | RJ45 |
| Note on connection method | Auto negotiation and autocrossing |
| Transmission physics | Ethernet in RJ45 twisted pair |
| Transmission speed | 10/100 MBit/s |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Data receive, link status |
| Interface 2 | Fiber optic interface |
| No. of ports | 3 (FO ports) |

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## Technical data

### Interfaces

| | |
|---|---|
| Connection method | ST |
| Transmission physics | Multimode fiberglass |
| Transmission speed | 100 MBit/s (ST, full duplex) |
| Transmission length | 6400 m (fiberglass with F-G 50/125 0.7 dB/km F1200) |
| Wavelength | 1300 nm |
| Interface 5 | Potential-free signaling contact |
| Connection method | Plug-in/screw connection via COMBICON |

### Function

| | |
|---|---|
| Basic functions | Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode |
| Status and diagnostic indicators | LEDs: $U_{S1}$, $U_{S2}$ (redundant voltage supply), link and activity per port |

### 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 ... 30.2 V DC |
| Typical current consumption | typ. 240 mA |

### General data

| | |
|---|---|
| Width | 135 mm |
| Height | 115.3 mm |
| Depth | 30 mm |
| Mounting type | DIN rail |
| Type AX | Block design |
| Weight | 140 g |
| Degree of protection | IP20 |
| Ambient temperature (operation) | 0 °C ... 55 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |
| Permissible humidity (operation) | 5 % ... 95 % (no condensation) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (no condensation) |
| Air pressure (operation) | 86 kPa ... 108 kPa (up to 1500 m above mean sea level) |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa (up to 3500 m above mean sea level) |
| Housing material | Aluminum |
| Noise emission | EN 61000-6-4 |
| 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) |

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## Technical data

### Conformity with EMC directives

| | |
|---|---|
| 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 A |
| Test standard | IEC 61000-4-5 (surge) |
| Test result | Criterion A |
| Test standard | IEC 61000-4-6 (immunity to conducted interference) |
| Test result | Criterion A |
| Test standard | IEC 61000-4-8 (immunity to magnetic fields) |
| Test result | Criterion A |
| Test standard | EN 55022 (emitted interference) |
| Test result | Criterion A |

## Classifications

### ETIM

| | |
|---|---|
| ETIM 2.0 | EC000734 |
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |

### UNSPSC

| | |
|---|---|
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201410 |
| UNSPSC 13.2 | 43201410 |
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 27250501 |
| eCl@ss 4.1 | 27250501 |
| eCl@ss 5.0 | 27250501 |
| eCl@ss 5.1 | 27250501 |
| eCl@ss 6.0 | 19170106 |
| eCl@ss 7.0 | 19170106 |

## Approvals

### Approvals

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## Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

### Approval details

UL Recognized

cUL Recognized

cULus Recognized

## Accessories

### Accessories

### Cable/conductor

Patch cable - FL CAT5 PATCH 0,3 - 2832250



Patch cable, CAT5, assembled, 0.3 m

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

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## Accessories

Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1.0 m

Patch cable - FL CAT5 PATCH 1,5 - 2832221



Patch cable, CAT5, assembled, 1.5 m

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2.0 m

Patch cable - FL CAT5 PATCH 3,0 - 2832292



Patch cable, CAT5, assembled, 3.0 m

Patch cable - FL CAT5 PATCH 5,0 - 2832580



Patch cable, CAT5, assembled, 5.0 m

Patch cable - FL CAT5 PATCH 7,5 - 2832616



Patch cable, CAT5, assembled, 7.5 m

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## Accessories

Patch cable - FL CAT5 PATCH 10,0 - 2832629



Patch cable, CAT5, assembled, 10.0 m

### 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.

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.

### Software

Software - FL SWT - 2831044



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

Software - FL SNMP OPC SERVER - 2832166



SNMP-OPC server, German and English, for monitoring and configuration of SNMP-capable equipment in HMI and SCADA systems

### Tools

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## Accessories

Assembly tool - FL CRIMPTOOL - 2744869



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

Patch box - FL PBX 8TX - 2832496



Patch box with eight RJ45 network connections

Patch box - FL PBX 6TX/4FX - 2832506



Patch box with six RJ45 and four FO network connections

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 female connector

Security element - FL SEC PAC 4TX - 2832865

Layer1 security elements for four RJ45 network connections for use with patch boxes and panels



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## Accessories

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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