

Industrial Ethernet Switch - FL SWITCH 3004T-FX ST - 2891034

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Managed Ethernet switch with four RJ45 ports at 10/100 Mbps, one ST format fiber optic port and operating temperature of -40°C ... +75°C

Product Description

FL SWITCH 3000 managed industrial Ethernet switches combine extensive network performance and security features with complete IEEE redundancy (STP/RSTP/MST) and 15 ms recovery time extended ring redundancy. Unique web customization provides a simplified user interface for today's applications and scalable functionality for future needs. A comprehensive mix of fiber optic and copper port connections meets a wide range of applications.

Product Features

- Unique cleanup function hides unused configuration pages, reducing complexity, maintenance and startup times
- Auto negotiation and autocrossing detection simplifies installation and setup
- Security options with cable locking
- Secure web-based and SNMP-based management
- Extensive web diagnostics with configurable LED and remote alarm contacts
- RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps
- -40 to 75°C and -10 to 60°C ambient temperature versions



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 1250.0 g |
| Custom tariff number | 85176200 |
| Country of origin | Taiwan |

Technical data

Dimensions

| | |
|--------|----------|
| Width | 54.4 mm |
| Height | 146.4 mm |
| Depth | 125 mm |

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Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 75 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Air pressure (operation) | 57 kPa ... 108 kPa (up to 4850 m above mean sea level) |
| Air pressure (storage/transport) | 57 kPa ... 108 kPa (up to 4850 m above mean sea level) |

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 (with auto negotiation) |
| Interface 2 | Fiber optic interface |
| No. of ports | 1 (ST multi-mode) |
| Connection method | ST |
| Transmission physics | multi-mode fiberglass |
| Transmission speed | 100 MBit/s (full duplex) |
| Transmission length | 12.1 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000) |
| | 3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600) |
| | 7.1 km (fiberglass with F-G 50/125 0.7 dB/km F1200) |
| | 3.1 km (fiberglass with F-G 50/125 1.6 dB/km F800) |
| Wavelength | 1300/1310 nm |

Function

| | |
|----------------------------------|--|
| Basic functions | Managed switch |
| Status and diagnostic indicators | LEDs: U_{S1} , U_{S2} (redundant voltage supply), link and activity per port |
| Signal contact control voltage | 250 V AC |
| Signal contact control current | 1 A |

Network expansion parameters

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|---|--|
| Cascading depth | Network, linear, and star structure: any |
| Maximum conductor length (twisted pair) | 100 m |

Supply voltage

| | |
|-----------------|--|
| Supply voltage | 24 V DC (redundant) |
| Residual ripple | 3.6 V _{pp} (within the permitted voltage range) |

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Supply voltage

| | |
|-----------------------------|-----------------------------|
| Supply voltage range | 12 V DC ... 48 V DC |
| Typical current consumption | 230 mA (at $U_s = 24$ V DC) |
| Inrush surge current | 9.2 A (2 ms) |

General

| | |
|------------------|----------------------------|
| Mounting type | NS 35 (IEC 60715) DIN rail |
| Type AX | Block design |
| Net weight | 1219.1 g |
| Housing material | Aluminum |

Connection data

| | |
|---------------------------------------|---------------------------------------|
| Connection method | Pluggable COMBICON screw connections, |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 12 |
| Stripping length | 7 mm |

Standards and Regulations

| | |
|---------------------------------|---|
| 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 A |
| 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 | IEC 61000-4-8 (immunity to magnetic fields) |
| Test result | Criterion A |
| Test standard | EN 55022 (emitted interference) |
| Test result | Class A |
| Test section | Supply voltage/functional earth ground 500 V 1 min. |
| Type of test | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 |
| Test result | 25g, 11 ms half-sine shock pulse |

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Standards and Regulations

| | |
|----------------|--|
| Type of test | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 |
| Test result | 5g, 150 Hz, Criterion 3 |
| Type of test | Free fall in acc. with IEC 60068-2-32 |
| Test result | 1 m |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2:2005 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250501 |
| eCl@ss 4.1 | 27250501 |
| eCl@ss 5.0 | 19030117 |
| eCl@ss 5.1 | 19030117 |
| eCl@ss 6.0 | 19170106 |
| eCl@ss 7.0 | 19170106 |
| eCl@ss 8.0 | 19170106 |

ETIM

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|----------|----------|
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |

UNSPSC

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|---------------|----------|
| UNSPSC 6.01 | 43172901 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201410 |
| UNSPSC 13.2 | 43201410 |

Approvals

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UL Listed / cUL Listed / EAC / cULus Listed

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Approvals

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Listed

cUL Listed

EAC

cULus Listed 

Drawings

Dimensional drawing

